MJB NORTH AREA
AS-BUILT CONSTRUCTION COMPLETION REPORT
FORMER SCOTT PAPER MILL SITE, ANACORTES, WASHINGTON

ECOLOGY CONSENT DECREE NO. 09-2-01247-7

Prepared for

Washington State Department of Ecology

Prepared by

Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, Washington 98101

February 2012

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LIST OF ACRONYMS AND ABBREVIATIONS

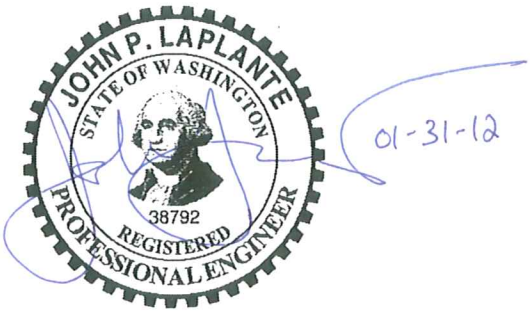
ADT	ADT Environmental Solutions, LLC
Anchor QEA	Anchor QEA, LLC
bgs	below ground surface
CAP	Cleanup Action Plan
Consent Decree	Consent Decree No. 09-2-01247-7
CPOC	conditional point of compliance
CSGP	Construction Stormwater General Permit
DMR	Discharge Monitoring Report
Ecology	Washington State Department of Ecology
EDR	Engineering Design Report
HR	haul road
HRA	Historical Research Associates, Inc.
K-C	Kimberly-Clark Corporation
MHHW	mean higher high water
MJB	MJB Properties, LLC
MLLW	mean lower low water
MTCA	Model Toxics Control Act
NAD83	North American Datum 1983
PAH	polycyclic aromatic hydrocarbon
Port	Port of Anacortes
PPE	Personal Protective Equipment
PSE	Pacific Surveying and Engineering
QAPP	Quality Assurance Project Plan
Ram	Ram Construction General Contractors, Inc.
Report	Post-Construction Completion Report
RI/FS	Remedial Investigation/Feasibility Study
Site	former Scott Paper Mill Site
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total petroleum hydrocarbon
USEPA	U.S. Environmental Protection Agency

WAC	Washington Administrative Code
WSDOT	Washington State Department of Transportation

ENGINEER'S CERTIFICATION

"To the best of our knowledge, information, and belief, the undersigned, registered professional engineers in good standing in the State of Washington, hereby certify that the Phase 4 remedial action conducted at the Former Scott Paper Mill Site in Anacortes, Washington under Consent Decree No. 09-2-01247-7 was performed in accordance with current professional industry standards. The undersigned also hereby certify that this Report and all attachments and appendices were prepared under my direction and supervision and fulfill the requirements of the Washington Administrative Code (WAC), Section 173-340-400(6)(b). As to the portions of this Report for which cannot be personally verified for their truth and accuracy, the undersigned certify to the best of his or her knowledge and belief that the collection and submission of information is true and accurate and was performed by qualified personnel under his or her direct supervision."

Rebecca Gardner, P.E.
Senior Associate
Anchor QEA, LLC



John Laplante, P.E.
Senior Associate
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1 INTRODUCTION

The Port of Anacortes (Port) and the Kimberly-Clark Corporation (K-C) are the parties responsible for implementing the cleanup efforts at the former Scott Paper Mill Site (Site) pursuant to Consent Decree No. 09-2-01247-7 (Consent Decree; Ecology 2009a) with the Washington State Department of Ecology (Ecology). The Site is located in Anacortes, Washington, and is bounded on the south by 20th Street, on the west by Q Avenue, on the east by Fidalgo Bay, and on the north by Cap Sante Boat Haven and 15th Street (Figure 1). The upland portion of the Site (approximately 42 acres) consists of the Port Uplands Area and the MJB North Area (Figure 2). The Marine Area comprises the contiguous aquatic lands adjacent to the Port Uplands and MJB North Areas and includes the 75-foot-wide Shoreline Buffer Zone located landward of the mean higher high water line (MHHW) line. The Marine Area is bounded by the federal channel to the north, the inner harbor line to the east, and the MJB southern property line to the south.

Cleanup efforts performed within the Port Uplands Area, the Shoreline Buffer Zone, and the Marine Area were overseen by the Port. The Port's work constitutes Phases 1 through 3 of the Site remediation required by the Consent Decree and is documented in *Port Uplands and Marine Area As-Built Construction Completion Report* (GeoEngineers 2012). K-C oversaw cleanup efforts performed within the MJB North Area as Phase 4 of the required Site remediation. This Post-Construction Completion Report (Report) documents the implementation and verification of Phase 4 of the remedial action at the Site per the requirements of Washington Administrative Code (WAC) 173-340-400(6)(b)(ii). The remainder of this Report provides detailed information on the activities conducted to implement the cleanup, including:

- An overview of the required remedial actions and engineering design documents.
- A summary of the preconstruction activities such as silt fence installation, surveying and monitoring well decommissioning.
- A summary of the remedial excavation extents and the results of confirmation and quality control sampling.
- A summary of the volume of remediation materials treated and disposed at permitted off-site landfills.

2 OVERVIEW OF REMEDIAL ACTIONS PERFORMED

Detailed background information describing the Site, including its known history, current uses, existing property features, soil and groundwater conditions, and a summary of environmental investigations completed at the Site between 1993 and 2008 is presented in the Remedial Investigation/Feasibility Study Report (RI/FS; GeoEngineers et al. 2008) and Cleanup Action Plan (CAP; Ecology 2009b) prepared by Ecology. The CAP also established the required remedy for the Site including work conducted as Phases 1 through 4 by the Port and K-C as described in the Site Engineering Design Report (EDR; GeoEngineers, Inc. and Anchor Environmental, L.L.C. 2010). This section provides a general overview of the remedial action required within the MJB North Area and summarizes the remedial design documents and work plans prepared for implementation of the Phase 4 cleanup.

2.1 Phase 4 Cleanup Overview

The Phase 4 cleanup included remedial excavations that can be categorized into four groups:

- The MJB North Area remedial excavations areas identified by the CAP – labeled with a "MJB" prefix.
- The extension of the RA-11 remedial excavation, as required by Ecology, from the Shoreline Buffer Zone into the MJB North Area – labeled as RA-11a and RA-11b.
- The construction haul road remedial excavation areas identified during the course of the Phase 2 and 4 construction activities – labeled with an "HR" prefix.
- The stockpile bunker remedial excavation areas identified during the course of the Phase 4 construction activities – labeled as BNKR-E and BNKR-W.

Based on the findings of the RI/FS, the CAP identified the following remedial actions necessary to address impacted media within the MJB North Area:

- Excavate impacted soils to a depth of up to 6 feet below ground surface (bgs) and perform confirmation sampling to verify the removal of soils above Site cleanup levels is complete.
- Manage and transport excavated soil to approved disposal facilities.
- Backfill excavated areas with clean, imported soil.
- Monitor groundwater for at least 1 year after the cleanup action is completed.

- Prepare environmental covenants as necessary to restrict future development and control any future soil disturbance where impacted soil may remain at the Site.

More specifically, the CAP identified six locations where remedial excavation was required within the MJB North Area (MJB1 through MJB6). Estimated depths of impacted soil within these areas ranged from 2 to 6 feet bgs. The shallow areas (i.e., 2 feet bgs) were designated to target removal of a surface fill layer primarily containing concentrations of arsenic above Site cleanup levels; while the deeper remediation areas (i.e., 6 feet bgs) targeted locations where additional metals (e.g., lead and copper) were also observed above Site cleanup levels.

The CAP also identified three locations on MJB property within the Shoreline Buffer Zone (RA-11, RA-12, and RA-13). Remedial excavation of these three locations was performed by the Port as the Phase 2 work, the footprints of which were limited to the western edge of the Shoreline Buffer Zone. Confirmation samples collected by the Port along the western edge of the RA-11 excavation indicated that impacted soils continued past the Shoreline Buffer Zone boundary. The extension of the RA-11 excavation as required by Ecology was incorporated into the Phase 4 project as remedial excavations areas RA-11a and RA-11b.

During the Port's pre-construction characterization of the construction haul road, five additional areas (HR-1 through HR-5) were identified that required remedial excavation (GeoEngineers 2009). As components of the Phase 2 and Phase 4 work were completed, the haul road was no longer required. The eastern section of the haul road was removed by the Port in December 2010 and was re-sampled by the Port on December 28, 2010 (GeoEngineers 2011a). The results of the December 2010 sampling indicated that soil previously identified by pre-characterization activities were likely removed during the excavation of the haul road material. Remedial excavation area HR-5 was included in the eastern portion of the road and the target excavation area was adjusted accordingly (refer to Section 3.7.3). The remainder of the haul road (i.e., the western portion) was removed in April 2011 and the Port re-sampled the area on April 25, 2011 (GeoEngineers 2011b). The results of the April 2011 sampling were generally consistent with the pre-characterization data; therefore, minimal refinements were made to the target excavations areas (HR-1 through HR-4).

Temporary on-site bunkers were constructed so that excavated material could be stockpiled within a controlled area and supplemental waste characterization could be performed. After the decommissioning of the bunkers, post-use characterization sampling was performed to evaluate whether or not soils above Site cleanup levels were present beneath the bunker footprints.[1] Based on these results, soil removal in two areas (BNKR-E and BNKR-W) was added to the Phase 4 work.

2.2 Design Overview

The Phase 4 remedial action was developed in accordance with the Model Toxics Control Act (MTCA; WAC 173-340) regulations and the requirements of the Site Consent Decree and CAP. Per these requirements, an EDR was prepared by the Port and K-C and approved by Ecology to document the design criteria used to develop engineering specifications and drawings. The EDR presents a narrative discussion of performance standards and the cleanup remedy design, including a description of how the remedy meets applicable state and federal regulations. The EDR also establishes the quality control and assurance procedures used to monitor the contractor's work during construction and the framework for performing post-excavation confirmation sampling to verify that soil cleanup standards were achieved. Ecology staff was engaged throughout the design process and provided review and approval of the engineering drawings, specifications, and supporting documentation.

Anchor QEA served as the Phase 4 engineer and, based on the requirements of the EDR, prepared the engineering drawings and specifications for the Phase 4 work. Initial Phase 4A drawings and specifications were prepared for implementation of the MJB1 through MJB4 remedial excavations. Two supplemental design bulletins were prepared during construction to communicate additional design information and remedial action requirements to the contractor. The June 2010 Phase 4A Design Bulletin was prepared to include information regarding the expanded MJB2 excavation, the supplemental RA-11a and RA-11b excavations, and requirements for material stockpiling and treatment. The February 2011 Phase 4B Design Bulletin was prepared to document the revised initial remedial excavation extents for

[1] Note that sampling was not performed to characterize pre-use conditions beneath the bunker footprints; therefore, the presence of soil above Site cleanup levels is not necessary due to remedial construction activities performed within the bunkers.

MJB5, MJB6, and HR-1 through HR-5 after supplemental field characterizations were performed.

Copies of the final Phase 4A drawings and specifications and the two design bulletins are included as Appendix A.

2.3 Contractor Selection

Ram Construction General Contractors, Inc. (Ram) was selected by K-C as the prime contractor for Phase 4 construction activities at the Site. As part of the specification requirements, Ram produced documents outlining the methods and means for completing the required work. For reference, the following documents are included as Appendix B:

- *Waste Excavation and Disposal Plan, Former Scott Paper Mill Phase 4A, Anacortes, Washington.* Prepared by RAM Construction General Contractors, Inc., Bellingham, Washington. December 9, 2009.
- *Stormwater Pollution Prevention Plan for Former Scott Paper Mill Cleanup Project – Phase #4A MJB.* Prepared by RAM Construction General Contractors, Inc., Bellingham, Washington. December 8th 2009.
- *Site-Specific Health and Safety Plan, Version 2.* Prepared by Elisabeth Black, CIH, Argus Pacific, Seattle, Washington. January 19, 2010.

3 REMEDIAL CONSTRUCTION ACTIVITIES

This section discusses the various construction activities performed to meet the requirements of the Consent Decree and CAP. Work was performed in accordance with means and methods described in the EDR and the Phase 4 specifications, drawings, and design bulletins. Field observations and representative photos are summarized in the daily reports prepared by Anchor QEA and Ram. These daily reports are included in Appendix C for reference.

3.1 Temporary Erosion and Sediment Control

Prior to upland excavation and grading activities, Ram installed silt fencing meeting the requirements of the specifications and in accordance with the Stormwater Pollution Prevention Plan (Appendix B) and Construction Stormwater General Permit (CSGP) Number WAR-011650. Ram also installed catch basin filters to prevent potentially sediment-laden water from entering the drainage conveyance system. Erosion control measures were inspected weekly, maintained as necessary, and Discharge Monitoring Reports (DMRs) were submitted to Ecology monthly, as required by the CSGP.

3.2 GPS Data and Post-Construction Surveying

Prior to the excavation of a remedial excavation area, Ram's subcontractor, Pacific Surveying and Engineering (PSE) of Bellingham, Washington, established construction layout control points for each remedial excavation area. PSE also performed a pre-construction topographic survey to establish a baseline survey. This baseline was compared to post-excavation surveys to document final excavation depths and volumes within each remedial excavation area.

Project surveys were performed using the following datum:

- Horizontal: North American Datum 1983 (NAD83) projected on Washington State Plane Coordinate System (North Zone), U.S. survey feet
- Vertical: Mean lower low water (MLLW), U.S. survey feet

Upon completion of the final excavation and confirmation sampling of a remedial excavation area, PSE conducted a survey over the completed area and provided as-built drawings showing final excavated limits with elevations and quantities.

The confirmation sample locations (as shown in Figures 4 through 13) were documented by Anchor QEA staff using a handheld Trimble GeoXH GPS unit with an accuracy of approximately 1 meter. Due to the 1-meter accuracy limitation of the GPS unit, the sample locations shown on the figures do not always align exactly with the extents of the surveyed excavations provided by PSE, which are more precise. Although the limits of the GPS accuracy suggest apparent discrepancy, actual confirmation sample locations and frequency were in accordance with the EDR.

3.3 Monitoring Well Decommissioning

Monitoring well MW-7, located within remedial excavation area MJB1, was installed and monitored during the RI. This well was abandoned by a Washington-licensed driller in accordance with Ecology requirements (WAC 173-160-460) on January 6, 2010, prior to soil excavation. The well was abandoned in place by backfilling with bentonite grout using a tremie injection system in accordance with the requirements of WAC 173-160. The impacted soils were removed and the former well locations were regraded and restored to their pre-existing elevations. Anchor QEA staff were on site during well abandonment activities. The monitoring well decommissioning report is provided in Appendix D.

3.4 Archaeological Monitoring

A Cultural Resources Assessment was performed by Historical Research Associates, Inc. (HRA; 2009a) as part of the remedial design process. The results of the study indicated that potential archaeological deposits may exist within 4.5 to 5.5 feet bgs within the Phase 4 project area. Accordingly, an Archaeological Monitoring Plan (HRA 2009b) was prepared and implemented during remedial excavation activities. All excavations that extended deeper than 3 feet bgs were observed by HRA staff in accordance with the Archaeological Monitoring Plan. A summary report of the archaeological monitoring is provided in Appendix E.

3.5 Confirmation Sampling Overview

Confirmation sampling involved collecting soil samples from the base and sidewalls of the remedial excavations to verify that cleanup levels have been achieved and/or to document

concentrations of contaminants remaining at the Site as contemplated by the CAP. Once the initial design excavation limits were reached, confirmation soil samples were collected for laboratory analysis from the excavation sidewalls and base. If the confirmation samples collected from the excavation sidewalls indicated that further lateral excavation was necessary to achieve soil cleanup levels, additional excavation was performed until subsequent confirmation samples obtained from the excavation sidewalls indicated that cleanup levels had been achieved. If confirmation samples collected from the excavation base exceeded cleanup levels prior to reaching the conditional point of compliance (CPOC; i.e., 6 feet bgs), additional vertical excavation was performed until subsequent confirmation samples met cleanup levels or until the excavation depth reached the conditional point of compliance.[2]

3.5.1 Sampling and Analysis

Confirmation sampling was performed in accordance with the *Quality Assurance Project Plan: Former Scott Paper Company Mill Site* (Appendix C of the EDR; GeoEngineers and Anchor 2010) and discrete grab samples were obtained from the limits of the excavations at the following sampling density:

- Sidewall samples were collected at a frequency of one sample per 40 linear feet of sidewall. When the perimeter of the excavation was less than 40 feet, a minimum of one sidewall sample per sidewall was obtained.
- Base samples were collected at a frequency of one sample per 600 square feet of the base area. If the area of the base was less than 600 square feet, a minimum of one base sample was obtained.
- Duplicates were collected on a frequency of one duplicate sample per ten soil confirmation samples collected.

The confirmation soil samples were analyzed to assess compliance with Site-specific cleanup levels (listed for reference in Tables 1 through 18). Soil confirmation samples were analyzed only for those constituents known to exceed soil cleanup or remediation levels at each

[2] However, as noted in subsequent sections, in most cases the remedial excavation was extended to approximately 7 to 8 feet bgs (below the CPOC) to facilitate removal of all soil above Site cleanup levels. Cleanup standards were achieved throughout the MJB North Area; however, soil above cleanup levels for select metals remains in place below the 6-foot CPOC within the MJB6 and RA-11a and RA-11b footprints. These areas are shown on Figure 3 and will be deed restricted per the requirements of the CAP.

remedial excavation area based on existing analytical data. Based on the RI/FS findings, all samples were analyzed for metals. Total petroleum hydrocarbon (TPH) and polycyclic aromatic hydrocarbon (PAH) sampling was conducted for some locations identified during pre-construction sampling. Sheen testing was performed to screen the samples in the field prior to submitting the samples to the lab for TPH analysis. Only those samples that exhibited sheen characteristics were submitted for TPH analysis. Sheen screening results are documented in the daily field reports provided in Appendix C. Tables 1 through 18 present the results of analytical tests performed on confirmation soil samples collected from each remedial excavation area, as discussed in the following sections. Note, however, that these tables only include sample results for those data used to demonstrate compliance with Site cleanup standards. A summary of the complete data set and laboratory reports, which includes samples that were excavated and disposed of off-site during remediation, is presented in Appendix F.

3.5.2 Data Validation

Laboratory data were generated by OnSite Environmental Inc. of Redmond, Washington and were validated by Anchor QEA and Laboratory Data Consultants, Inc. of Carlsbad, California. The data validations were performed in accordance with U.S. Environmental Protection Agency (USEPA) functional guidelines (USEPA 2004, 2008) and criteria established in the Site Quality Assurance Project Plan (QAPP; Appendix C of the EDR). Per the QAPP, 10 percent of the data generated by the project were validated using Level IV criteria and the remaining 90 percent were validated using Level II criteria.

The data validation verified the analytical accuracy and precision of the chemical analyses performed during this monitoring effort and no data were rejected. The data may have been qualified as estimated for a particular analysis based on method or technical criterion. Data qualified with a "J" indicates that the associated numerical value is the approximate concentration of the analyte. Data qualified with a "UJ" indicates the approximate reporting limit below which the analyte was not detected. Consequently, these data qualifications are not expected to alter the data quality objectives defined in the QAPP. Validation reports are provided in Appendix F.

3.6 Import Material

The Phase 4 specifications required the contractor to provide various submittals to the engineer for review demonstrating that import material met the minimum requirements of the specifications and was from a clean borrow source. The backfill material used for the project was sourced from Lakeside Industries, a Washington State Department of Transportation (WSDOT) "Approved Aggregate Source". Appendix F contains the laboratory results confirming that materials provided by Lakeside Industries for the Phase 4 work were supplied from a clean borrow source.

3.7 Remedial Excavation

Figure 3 shows the extents of the design (initial) remedial excavation areas, as defined by the Phase 4 drawings, specifications, and design bulletins. Figure 3 also documents the extent of the excavation areas that were expanded as required by the CAP confirmation sampling. Details on each of the excavation areas are provided in the following sections. These sections also discuss the confirmation sampling results for each excavation area. Tables that summarize final confirmatory sampling results are referenced at the end of each section. The entire set of chemistry data, including chemistry for those sample areas that were subsequently excavated, is provided in Appendix F along with a comprehensive sample location map. Management and disposal of excavation materials is discussed in Section 3.8.

3.7.1 MJB Remedial Excavation Areas

MJB1 through MJB4 excavations were included under Phase 4A Specifications and Plans (Appendix A). Excavations areas MJB5 and MJB6 are located along the western boundary of the Shoreline Buffer Zone and were not accessible when Phase 4A work commenced, as the Port required use of the area to access the RA-11, RA-12, and RA-13 excavations, and to manage soil and import stockpiles during Phase 2 work. The February 2011 Phase 4B Design Bulletin (Appendix A) was prepared for MJB5 and MJB6 and was implemented once the Port's excavation and stockpiling work was complete. The following sections discuss the activities performed within the MJB Remedial Excavation Areas.

3.7.1.1 MJB1

MJB1 is the largest initial excavation area and approximately 32,500 square feet in size (Figure 4). The excavation of the initial extents of MJB1 began on January 4, 2010, and was completed on January 8, 2010. The excavation extended to an average depth of 1.5 feet bgs. A total of 79 confirmation samples were collected across the large northern section of the excavation (Figure 4), including 30 sidewall samples, 42 base samples, and seven duplicates. Samples were analyzed for metals. On January 11, 2010, 20 additional confirmation samples were collected in the southwest section of the excavation, including 20 base samples and two duplicate samples. All sample results met cleanup levels throughout the initial extents of MJB1 with the exception of one sample (46S[3]), which exceeded the arsenic cleanup level. To address this sample, an expanded 15-foot by 30-foot excavation was completed on January 28, 2010. Three samples (one base and two sidewalls) were then sampled within the new excavation. The results of the sidewall samples exceeded cleanup levels, and the excavation was expanded to 25 feet by 50 feet on February 5, 2010. The sample results for this new expanded area (two sidewall and two base) met cleanup levels.

During the remedial excavation of MJB2 performed during the summer of 2010, excavation limits were expanded to address identified exceedances of arsenic cleanup levels adjacent to the previous MJB1 excavation limits. Because MJB2 was initially delineated to address deeper, elevated concentrations of lead and MJB1 was established to address surface exceedances of arsenic, the subsequent excavations performed in September and October 2010 were included as part of the final MJB1 excavation area (Figure 4). Supplemental excavations were performed on September 20, 2010, and September 23, 2010, and confirmation sampling indicated that arsenic cleanup levels were exceeded along the western boundaries of the excavation. On October 10, 2010, a final excavation was performed in this area. Seven confirmation samples of this new area were collected (three sidewall samples, three base samples, and one duplicate sample). These samples met Site cleanup levels.

MJB1 excavations were backfilled during the weeks of February 8, 2010, and October 11, 2010. Backfilling was performed in accordance with the specifications, and consisted of

[3] Sample nomenclature referenced in this Report has been truncated in the main text, tables, and figures for simplicity. Sample nomenclature presented in laboratory data and validation reports takes on the following form: KCP4-SO046-S-YYMMDD. For example, the truncated form of this sample would be referenced as 46S.

imported quarry spalls and a compacted surface layer of imported crushed rock. Final confirmatory sampling results for MJB1 are provided in Table 1.

3.7.1.2 MJB2

The excavation of the initial extents (20 feet by 20 feet, as shown on Figure 5) of MJB2 began on January 4, 2010, and was completed 1 day later on January 5, 2010. The excavation was 3 feet deep, and six confirmatory samples were collected (four sidewall samples, one base sample, and one duplicate sample). Four of the six samples had lead and antimony exceedances above Site cleanup levels. In addition, the base sample exceeded the mercury cleanup level. The lead and mercury concentrations detected in some of these samples indicated that the material may potentially characterize as dangerous waste per WAC 173-303 procedures. As a result, discussions with Ecology were undertaken regarding the path forward and Ecology approved the expansion and deepening of the MJB2 excavation in accordance with the *MJB2 and RA-11 Supplemental Remedial Excavations Memorandum* prepared on July 2, 2010 (Anchor QEA 2010). The June 2010 Phase 4A Design Bulletin (Appendix A) was prepared to provide Ram with supplemental engineering details regarding temporary stockpile construction, material handling, and treatment requirements for the remainder of material removed from MJB2.

Prior to recommencing remedial excavation within the MJB2 area, Ram constructed two temporary on-site material storage bunkers in accordance with the June 2010 Phase 4A Design Bulletin (Appendix A). Each bunker was lined with a non-pervious, 20-mil, 10.9-ounce coated woven polyethylene liner and enclosed with three walls of stacked ecology blocks. Material from the MJB2 excavation was stockpiled in these bunkers to facilitate stockpile sampling prior to final off-site transport and disposal.

The initial MBJ2 expansion included a 50-foot by 160-foot area that was excavated to an average depth of 6 feet bgs on July 9, 2010 (Figure 5). Confirmatory sampling of this expanded area included 38 samples (20 sidewall samples, 14 base samples, and four duplicate samples). Six of these sample locations had metals exceedances; therefore, the excavation area was again expanded on July 28, 2010, to include two areas on either side of the southern extent of the excavation, as well as an excavation along the west side. The confirmation

sampling for these three areas included 15 confirmation samples (nine sidewall samples, four base samples, and two duplicate samples). Three sidewall samples on the southern excavations again showed exceedances of the lead cleanup level. Both southern excavations were again expanded on August 16, 2010, and confirmation sampling performed on August 16, 2010, included nine samples (five sidewall samples, three base samples, and one duplicate sample). Results showed one arsenic exceedance in the surface sample from the northern edge of the southwestern excavation, and one lead exceedance from the southern edge of the southwestern excavation. The exceedances were addressed by extending the excavation's southern limit on August 23, 2010, which resulted in clean sidewall results. All final MJB2 confirmation sample results collected during July and August 2010, except for 141S, were below Site cleanup levels.

The sidewall sample 141S, collected at approximately 3 feet bgs, exceeded the copper cleanup level. This sample was collected on July 9, 2010; however, the excavation was not extended laterally because it was located within close proximity to the southern edge of the construction haul road. Following discussions regarding this sidewall sample, Ecology requested that this area be further excavated once the area became assessible (i.e., after the Port no longer required use of the haul road to access other areas of the Site). Therefore, on April 29, 2011, an additional 6-foot-deep excavation was extended in a northern direction from the 141S sample location. Two confirmatory samples were collected (one sidewall sample and one base sample). The sidewall sample contained a lead exceedance and the excavation was expanded to 20 feet by 40 feet on May 6, 2011. This new excavation also extended to 6 feet bgs. Four confirmation samples were collected (three sidewall samples and one base sample). One sidewall sample showed metals exceedances, and the excavation was again expanded to the west on May 25, 2011, to include an additional 20-foot by 20-foot box. Confirmation sampling included three samples (two sidewall samples and one base sample). All sample results met Site cleanup levels.

The stockpiled MJB2 material was analyzed for Toxicity Characteristic Leaching Procedure (TCLP) for metals. These results are provided in Table 2. The samples were comprised of three composite samples, each from four discrete locations, over the extent of the stockpile. The results of the testing demonstrated that the material was suitable for Subtitle D disposal without prior treatment.

MJB2 was initially backfilled during the first two weeks of October 2010 in accordance with the specifications and subsequent design bulletins. Backfill below 3 feet bgs consisted of pit run (i.e., an imported sandy gravel/gravelly sand mix). Above 3 feet bgs, the excavation was backfilled with imported quarry spalls and a compacted surface layer of imported crushed rock. Final confirmatory sampling results for MJB-2 are provided in Table 3 (metals) and Table 4 (TPH). The results of the TCLP testing on stockpiled MJB2 excavation materials are provided in Table 2, which includes samples dated May 25, 2011.

3.7.1.3 MJB3

MJB3 is a 60-foot by 60-foot area (Figure 6) that was originally targeted for excavation down to 2 feet bgs to remove impacted surface fill. Observations during excavation indicated that the surface layer transitioned to a tan sandy gravel layer at approximately 1.5 feet bgs; therefore, the excavation was only extended to 1.5 feet bgs. The excavation took place on January 4, 2010, and confirmation sampling was conducted the next day, January 5, 2010. Six base, six sidewall, and one duplicate sample were collected for confirmation. Laboratory test results revealed no exceedances of Site cleanup levels in the soils sampled. Confirmation sample results are provided in Table 5.

MJB3 was backfilled in accordance with the Phase 4A specifications with imported quarry spalls and crushed rock during the week of February 8, 2010.

3.7.1.4 MJB4

MJB4 is located in the southeast corner of the Site, near the shoreline buffer zone, as shown in Figure 7. This area was approximately 20 feet by 20 feet and excavated to 1.5 feet bgs on December 22, 2009. Confirmatory samples were collected the same day. Four sidewall, one base, and one duplicate sample were collected from this area.

Final confirmatory sampling results for MJB4 are provided in Table 6 (metals) and Table 7 (PAHs). Upon receipt of passing confirmatory sampling results, this area was backfilled in accordance with the Phase 4A specifications with imported quarry spalls and crushed rock on December 28, 2009. Because the RI/FS indicated than a cleanup level exceedance below

the 6-foot CPOC depth may exist, a marker consisting of orange construction fencing was placed in the base of the excavation prior to backfilling in accordance with the EDR.

3.7.1.5 MJB5 and MJB6

MJB5 and MJB6 comprise two areas adjacent to the Shoreline Buffer Zone, on the eastern side of the MJB North Area, as shown on Figure 8. When Phase 4A work commenced, this area was used as an access route and staging area in support of the Port's RA-11, RA-12, and RA-13 remedial excavations, as well as, Phase 2 stockpiling and material management. Once the Port's work was complete, supplemental samples were collected by K-C to evaluate whether or not adjacent excavations performed by the Port (i.e., RA-11 and RA-12) resulted in the incidental excavation of Phase 4 remedial excavation areas MJB5 and MJB6 as defined in the February 2011 Phase 4B Design Bulletin (Appendix A).

On February 11, 2011, test pits were excavated to facilitate sampling at the locations where confirmation samples were required based on the initial Phase 4B design drawings (i.e., representative sidewall and base samples). In MJB5, recently placed clean backfill (by the Port) was observed at the representative north and east sidewall and base locations. Therefore, no samples were collected for analysis at these locations as it was evident that the adjacent RA-11 excavation performed by the Port overlapped with the MJB5 footprint. Samples were collected at the representative west and south confirmation sample locations as the clean fill horizon was not clearly observed. These results were below Site cleanup levels, and based on discussions with Ecology, no additional remedial excavation was performed at MJB5.

In MJB6, five test pits were excavated and recent clean fill (placed by the Port) was observed in only the location representative of the eastern sidewall sample. Four samples (three sidewall and one base) were collected to represent confirmation sample locations; the results of these samples indicated that the sidewalls were at concentrations below cleanup levels, but the base sample was not. Therefore, the initial extents of MJB6 were excavated on March 7, 2011, to a depth of 3 feet bgs, and confirmation and duplicate samples were collected from the excavation base. The results indicated that additional excavation was necessary. On March 15, 2011, the MJB6 excavation was extended to approximately 6 feet

bgs in all locations except for a narrow bench of clean fill observed along the western edge of the excavation (Figure 8). Confirmation samples were collected from each base elevation and along the eastern sidewall; only the confirmation sample collected from below the 6-foot CPOC depth exceeded lead and copper cleanup levels. However, all confirmation samples collected indicate that the Site cleanup standards were achieved throughout the MBJ6 excavation per the requirements of the CAP. In accordance with the EDR, a marker was placed in the base of the excavation prior to backfilling on April 11, 2011 with imported pit run.

Final confirmatory sampling results for MJB5 and MJB6 are provided in Table 8 (metals) and Table 9 (TPH).

3.7.2 RA-11 Expanded Remedial Excavation Areas

The RA-11 remedial excavation defined in the EDR was performed by the Port as part of the Phase 2 construction. The results of the Port's confirmation sampling indicated exceedances of metals cleanup levels and the presence of TPH at the western Shoreline Buffer Zone boundary, although these exceedances were located below the applicable conditional point of compliance for the MJB Upland area. After subsequent discussions with Ecology, a supplemental investigation of the MJB Upland Area soils located adjacent to the Shoreline Buffer Zone in the vicinity of RA-11 was performed by Anchor QEA. Based on this investigation, Anchor QEA developed an excavation plan establishing remedial excavation areas RA-11a and RA-11b (June 2010 Phase 4A Design Bulletin; Appendix A), which was approved by Ecology (Anchor QEA 2010). The RA-11a and RA-11b areas are located in the northeast portion of the MJB North Area, adjacent to the Shoreline Buffer Zone, as shown in Figure 9.

3.7.2.1 RA-11a

RA-11a was excavated and sampled on February 8, 2011. This area consisted of a 10-foot by 20-foot area excavated to 6 feet bgs with a 10-foot by 10-foot area centered on the southeast wall, which was excavated to 10 feet bgs (Figure 9). Three sidewall samples were collected from the northeast, northwest, and southwest sidewalls in the 6-foot-deep area. One base sample was collected at the base surface at both 6 and 10 feet bgs. The material removed

during this excavation was transported to the on-site bunkers for sampling prior to off-site disposal. A sample of the stockpile was collected for TCLP characterization prior to disposal. Stockpile sampling results are briefly discussed in Section 3.8.3 and are presented in Table 2.

Following the excavation and confirmation sampling on February 8, 2011, a construction marker was placed at 10 feet bgs in RA-11a and the area was backfilled with imported pit run to a depth of 6 feet bgs. On February 11, 2011, upon receipt of confirmation sampling results indicating that Site cleanup levels were achieved throughout the 0 to 6-foot CPOC, the remainder of RA11a was backfilled with imported pit run in accordance with the Phase 4A specifications and design bulletin.

3.7.2.2 RA-11b

RA-11b was initially excavated on February 8, 2010, to a targeted depth of 6 feet bgs. Material clearly identifiable as recent clean fill placed by the Port during RA-11 activities (i.e., approximately the upper 1 foot bgs) was excavated first and stockpiled for reuse as backfill. A large diameter concrete pipe was encountered in the northwest corner of the initial excavation. Material was removed from above and around the pipe to the extent practicable without impacting the integrity of the pipe. A small volume of material was not excavated beneath the pipe below approximately 4 feet bgs. Material removed from RA-11b as remediation material was transported to the on-site bunkers for TCLP characterization prior to off-site disposal. Stockpile sampling results are briefly discussed in Section 3.8.3 and are presented in Table 2.

Confirmation samples of the sidewalls and base of the excavation were collected on February 8, 2010. Three sidewall, one base, and one duplicate sample were collected. Chemistry results indicated that the southwest sidewall and nearby base sample exceeded metals cleanup levels. Confirmation samples were not collected along the eastern sidewalls of the RA-11b excavations because the excavation limits extended eastward to the Port's recently placed geotextile and clean backfill limits. All the clean material removed from above the geotextile was set aside in a clean stockpile for reuse for backfilling RA-11a and RA-11b.

On February 11, 2011, the initial RA-11b excavation was extended 30 feet to the southwest along the original 20-foot width to a depth of 6 feet bgs. Within the footprint of the original RA-11b area, an additional 1 foot of material was removed and a base sample was collected at the base surface at approximately 7 to 8 feet bgs. During the RA-11b supplemental excavation, material along the southwest corner was observed to be similar in nature to soil previously characterized as clean fill. Therefore, this material was not excavated and a slightly increased density of confirmation samples was collected to verify that cleanup levels were attained. Within this area, sample 227B was collected from the base of the excavation at approximately 4 feet bgs and samples 226S, 229S, and 230S were collected from the adjacent sidewalls. Within the deeper portion of the excavation, two base samples were collected from 6 feet bgs. The results of testing on these samples indicated that metals cleanup levels were exceeded below the 6-foot CPOC depth. On March 7, 2011, an additional 1 foot of material was removed from the base of the excavation in this area in efforts to locate native materials and confirmation sample 244B was collected at approximately 8 feet bgs. The results of this final sample indicated that concentrations of arsenic, lead, and copper were below cleanup levels in the southern portion of RA-11b; however, the remaining portions of the RA-11b exceed cleanup levels below the 6-foot CPOC depth. Management of this material in place below the 6-foot CPOC depth is consistent with the requirements of the CAP, which determined that in-place management of soil above Site cleanup levels below this depth is compliant with MTCA and protective of human health and the environment. Accordingly, prior to backfilling, a construction marker was placed in the base of the RA-11b excavation in compliance with the EDR. Backfilling of the RA-11b excavation with imported pit run occurred on March 9, 2011, in accordance with the Phase 4A specifications and design bulletin.

Final confirmatory sampling results for the RA-11b excavations are provided in Table 10 (metals) and Table 11 (TPH). Chemistry results for the excavated and stockpiled material (prior to treatment) in the bunkers are provided in Appendix F. The treatment and sampling of the RA-11 stockpiled material is discussed in Section 3.8.

3.7.3 Haul Road Remedial Excavation Areas

The temporary haul road was constructed by the Port during Phase 1 and was used for overland transport of soil in trucks and for other construction-related traffic entering and leaving the Site for Phase 1, Phase 2, and Phase 4 activities. Prior to construction and after removal of the haul road, the Port collected surface soil samples to characterize the footprint of the haul road. This area was divided into six segments and composite samples were collected from each of the segments to document pre-and post-use surface soil conditions. The results of the pre-characterization were documented in GeoEngineers' letter "Temporary Haul Road Pre-Use Characterization Results" dated June 25, 2009 (GeoEngineers 2009). Site cleanup level exceedances were identified in five general areas, and preliminary excavations areas (HR-1 through HR-5) were delineated to encompass these areas. These five areas are shown on Figure 3. After removal of the haul road surface material, the Port re-sampled the area (GeoEngineers 2011a, GeoEngineers 2011b) and the initial excavation extents were refined accordingly with Ecology's approval.

Figures 10, 11, and 12 provide the extents of the initial and final extents of remedial excavation, the sample locations of the final confirmatory samples, and the dates and depths of each excavation area. Because remedial excavation areas HR-2 and HR-3 eventually merged into each other, the area was labeled HR-2/3 on Figure 11. The following sections provide details on the sequence of excavations.

3.7.3.1 HR-1

The HR-1 excavation area was completed on May 6, 2011. The area was excavated to a depth of approximately 1 foot bgs and is shown in Figure 10. Three base and four sidewall confirmation samples were collected and analyzed for metals and TPH. No exceedances were detected in this area. Confirmatory sample results are provided in Table 12 (metals) and Table 13 (TPH).

3.7.3.2 HR-2, HR-3, and HR-4

The extents of the initial excavation areas for HR-2, HR-3, and HR-4 were completed on April 29, 2011. HR-2 was excavated to approximately 1 foot bgs. As explained in more detail in Section 3.8.1, portions of the HR-2 area contained remnant concrete slabs, located

approximately 4 inches bgs that were left in place. When excavating HR-3, two remnant concrete pads were found approximately 4 inches bgs across most of the extent of the area, thereby limiting the depth of excavation to 4 inches bgs. HR-4 was excavated to approximately 2 feet bgs.

Confirmation sampling was conducted on May 6, 2011. Ten base samples and 16 sidewall samples were collected across the three areas. Based on the results of the pre-use characterization investigation, HR-2 samples were analyzed for diesel-range TPH and metals and HR-3 and HR-4 samples were analyzed for PAHs.

Sample results for the sidewall samples at HR-2 showed metals exceedances; therefore, the excavation was expanded by 20 feet on the north, west, and east sides of the original footprint on May 25, 2011. Results for HR-3 showed PAH exceedances on the north and west sides of the original excavation; therefore, it was also expanded by 10 feet to the north and 10 feet to the west, as shown in Figure 3. Eight base samples, 11 sidewall samples, and three duplicates were collected from the two expanded excavations.

Sample results from the May 25, 2011, excavations yielded exceedances in PAHs along the west side of HR-3, and exceedances of metals in sidewalls and base samples in various locations along the expanded extents of HR-2. The extents of the excavations were then further expanded to the configuration labeled June 6, 2011, and shown on Figure 3. Two sidewall samples were collected from the new western edge of HR-3, and 11 base and eight sidewall samples were collected from the new extents of HR-2.

Sample results from the June 6, 2011, excavations indicated that exceedances of metals cleanup levels persisted and further expansion would be required to the east, west, and north. The expanded excavation was completed June 14, 2011, as shown on Figure 3. The sampling of the newly-excavated areas included 11 sidewall, six base, and two duplicate samples.

Sample results from the June 14, 2011 excavations indicated metals cleanup level exceedances and the excavation areas were extended into the northwest area, as well as to the east, as shown on Figure 3 for the excavations labeled June 27, 2011. The confirmation

sampling for these extended excavations included six sidewall, 13 base, and two duplicate samples from the northwest excavations and five base, four sidewalls, and one duplicate sample from the east excavation.

The excavations from June 27, 2011 yielded metals exceedances along the northern edge of the northwest excavation, and along the eastern edge of the eastern excavation. The excavations were then expanded to the extents shown for July 12, 2011, in Figure 3. The confirmation sampling for these extended excavations included five sidewall, eight base, and one duplicate sample from the northwest excavation and five sidewall, nine base, and two duplicates from the east excavation.

Along the northern property line, two of the July 12, 2011, samples indicated zinc exceedances; therefore, an additional 10-foot by 90-foot excavation was completed adjacent to a stormwater conveyance ditch maintained by the City of Anacortes on July 28, 2011. This final excavation is shown on Figure 11. After reviewing the confirmation sampling data and field conditions adjacent to the stormwater ditch, Ecology determined that no additional confirmation sampling would be required and the remedial excavation performed at HR-2/3 met cleanup standards and the requirements of the CAP.

The July 12, 2011 data also indicated that a small area (approximately 20 feet by 25 feet) within the eastern area of HR-2 exceeded the arsenic cleanup level. This area was excavated an additional 4 to 6 inches bgs on July 28, 2011 and final confirmation sampling indicated that cleanup standards were achieved.

Final confirmatory sampling results for HR-2/3 and HR-4 are provided in Table 12 (metals), Table 13 (TPH), Table 14 (PAHs), and Table 15 (Dioxin Furans).

3.7.3.3 HR-5

Following removal of the eastern portion of the haul road, three composite soil samples (HR-4 Composite through HR-6 Composite) were obtained on December 28, 2010 by the Port. None of the chemicals analyzed in the composite samples were detected above the cleanup levels established for the Site. Subsequently, it was agreed with Ecology that the footprint of

HR-5 could be reduced from the preliminary design extents to a reduced trapezoidal shape (Figure 11), which would more efficiently target the areas that had presented exceedances in the pre-use characterization investigation. The excavation of HR-5 was completed on April 14, 2011 (Figure 11). Material was removed to a depth of approximately 1 foot bgs. Three confirmatory samples were collected from the base of the excavation. Based on pre-use characterization exceedances, the two samples on the west side of the excavation were analyzed for chromium and the sample on the east side of the excavation was analyzed for PAHs. The results showed no exceedances of cleanup levels. HR-5 was backfilled on May 6, 2011, in compliance with Phase 4A specifications and the February 2011 Phase 4B Design Bulletin (Appendix A) with quarry spalls and a surface layer of compacted crushed stone.

Final confirmatory sampling results for HR-5 are provided in Table 12 (metals) and Table 14 (PAHs).

3.7.4 Stockpile Bunker Remedial Excavation Area

Following final transport and disposal of material contained within the temporary on-site bunkers, surface soil sampling was performed beneath the footprints of the west (BNKR-W) and east (BNKR-E) bunkers on May 10, 2011. The purpose of this sampling was to evaluate whether or not any potential impacts might be identified following construction. Composite samples were collected using procedures that were consistent with methods used to characterize the construction haul road footprint. In the BNKR-W, two composite samples, comprised of five discrete samples each, were collected. In the BNKR-E, two composite samples, comprised of three discrete samples each, were collected. Fewer discrete samples were included in the BNKR-E composite samples because much of the target sampling area was comprised of remnant concrete foundations and insufficient soil was present for sampling.

Composite samples were analyzed for metals and TPH. In the event that a composite sampled exceeded Site cleanup levels, an analysis of archived discrete samples was performed. Results for the discrete samples indicated that metals concentrations in the southern portion of the west bunker and throughout the east bunker were above Site cleanup levels. Based on these results, supplemental remedial excavation limits were

defined. The results of the initial bunker soil characterization are presented in Appendix F for reference.

On June 7, 2011, both bunkers were excavated to a depth of approximately 1 to 1.5 feet throughout the extents shown on Figure 13 where remnant concrete foundations were not encountered. Confirmation sampling was conducted within the newly-excavated portions of the bunker footprints. Three sidewall and three base samples were collected from the east bunker, and six sidewall and four base samples (and one duplicate) were collected from the west bunker.

The June 7, 2011 sample results indicated that each bunker excavation needed to be extended to the east. The final excavation extents are shown on Figure 13. Confirmation sampling of these new areas included two sidewall samples and one base sample (and one duplicate) from the east bunker, and one sidewall sample and one base sample from the west bunker. No additional exceedances of Site cleanup levels were noted based on the results of the June 14, 2011 confirmation samples.

Final confirmatory results for the bunkers are shown in Table 16 (metals).

3.8 Waste Material Management

Waste material generated during Phase 4 work was managed in accordance with the Washington State solid and dangerous waste regulations (WAC 173-350 and WAC 173-303, respectively). In general, waste material was directly disposed of in a Subtitle D landfill; however, a small volume of concrete was analyzed for beneficial use and material from remedial excavation areas RA-11a and RA-11b was treated prior to disposal.

3.8.1 Concrete Recycling

During remedial excavation work, large concrete slabs and remnant foundations were encountered. Thin slabs (4 inches thick or less) were excavated, broken into small pieces, and hauled to the disposal site with the excavated soil. Larger intact slabs (greater than 1 foot thick) that were encountered in MJB1 and HR-2 were left in place. Large chunks of concrete (greater than 2 feet in diameter) that could be feasibly lifted using available, on-site

equipment were encountered within the deep MJB2 excavation. These pieces were sampled and characterized to determine if the concrete could be reused as off-site fill by the MJB property owner. Samples were collected by chipping the surface of several representative locations of the concrete. At the laboratory, the concrete was ground into a fine particle size prior to analysis. The samples were then analyzed for metals in accordance with discussions between K-C and Ecology.

All but two concrete samples submitted for analysis met the most restrictive cleanup criteria established by Ecology. The concrete characterized by these two samples was transported and disposed of in an off-site Subtitle D landfill with other Site waste materials. On April 19, 2011, Ecology approved the beneficial reuse of the clean concrete by the property owner outside of the Site footprint. The concrete chunks were then relocated to separate aggregate stockpiles maintained by MJB, outside of the Site footprint, for beneficial reuse. The property owner plans to recycle the concrete into aggregate for base material under concrete or asphalt surfaces.

The sample results for the concrete characterization are shown in Table 17.

3.8.2 Waste Material Disposal

Soil generated during remedial excavation was transported to a permitted, off-site Subtitle D disposal facility. Trucks were not overfilled during loading and truck beds were covered prior to leaving the Site to minimize the potential for accidental spills during transport. Approximately 13,010 tons of material was transported and disposed at the Waste Management landfill in Wenatchee, Washington, and 210 tons of material was transported and disposed of at the Allied Waste landfill in Roosevelt, Washington. Material from remedial excavation areas MJB2, RA-11a, and RA-11b were stockpiled and sampled to verify that the material was suitable for disposal in a Subtitle D landfill. Material excavated from MJB1, MJB3, MJB4, MJB6 and HR-1 through HR-5 was directly hauled to the landfills. Weight tickets documenting each transport load are provided in Appendix G for reference.

3.8.3 Waste Material Treatment

Ram subcontracted to ADT Environmental Solutions, LLC (ADT) to perform the chemical treatment of the RA-11a and RA-11b stockpiled material that exceeded TLCP criteria for Subtitle D disposal. The treatment plan developed by ADT and approved by Ecology is included for reference in Appendix H. As previously discussed, the material from the RA-11a and RA-11b excavations was stockpiled in the on-site bunkers between February 8 and March 7, 2011. The TCLP results indicated that three of the four samples exceeded the regulatory limit for Subtitle D disposal (Table 2).

Chemical treatment of the material was conducted on April 14 and 15, 2011. The treatment was performed in compliance with the Ecology-approved plan and generally entailed using a backhoe to thoroughly mix the contaminated material with reagent, which was sprayed onto the contaminated material while it was contained within the bunker. After receipt of analytical results indicating that the material was satisfactorily treated, the material was hauled off site on April 21, 2011, for disposal at the Waste Management landfill in Wenatchee, Washington. The laboratory reports for post-treatment sampling are included in Appendix F. The post-treatment data is summarized in Table 2 and includes samples dated April 14 and 15, 2011.

4 REFERENCES

Anchor QEA (Anchor QEA, LLC). 2010. *MJB2 and RA-11 Supplemental Remedial Excavations, Former Scott Paper Company Mill Site, Anacortes, Washington*. Memorandum from John Laplante, P.E. and Rebecca Desrosiers, P.E. of Anchor QEA to Sandra Caldwell and Panjini Balaraju of Ecology. July 2, 2010.

Ecology (Washington State Department of Ecology). 2009a. *Consent Decree 09-2-01247-7. State of Washington Department of Ecology v. Port of Anacortes, Kimberly-Clark Corporation, a Delaware Corporation*. Filed June 12, 2009.

Ecology. 2009b. *Cleanup Action Plan (CAP), Former Scott Paper Company Mill Site, Anacortes, Washington, by the Washington State Department of Ecology, Toxics Cleanup Program, Lacey, Washington*. Dated May 8, 2009.

GeoEngineers (GeoEngineers, Inc.). 2009. *Temporary Haul Road Pre-Use Characterization, Follow-up Sampling and Analysis Results*. Prepared for the Port of Anacortes. July 28, 2009.

GeoEngineers. 2011a. *Temporary Haul Road Post-Use Characterization Results – East Haul Road*. Prepared for the Port of Anacortes. February 2, 2011.

GeoEngineers. 2011b. *Temporary Haul Road Post-Use Characterization Results – West Haul Road.* Prepared for the Port of Anacortes. July 7, 2011.

GeoEngineers. 2012. *Port Uplands and Marine Area As-Built Construction Completion Report. Former Scott Paper Mill Site, Anacortes, Washington*. Ecology Consent Decree No. 09-2-01247-7. January 2012.

GeoEngineers, Inc. and Anchor Environmental, L.L.C. 2010. *Final Draft Engineering Design Report, Former Scott Paper Company Mill Site, Anacortes, Washington*. Ecology Consent Decree No. 09-2-01247-7. March 11, 2010.

GeoEngineers et al (GeoEngineers, Inc., AMEC Geomatrix, and Anchor Environmental, L.L.C.). 2008. *Final Remedial Investigation/Feasibility Study Report: Port Uplands Area, MJB North Area, and Marine Area. Former Scott Paper Company Mill Site, Anacortes, Washington*. Report prepared for Port of Anacortes, MJB Properties, and Kimberly-Clark Corporation. November 2008.

HRA (Historical Research Associates, Inc.). 2009a. *Cultural Resources Assessment of the Former Scott Paper Mill Site, Anacortes, Skagit County, Washington*. January 2009.

HRA. 2009b. *Archaeological Monitoring Plan for the Port of Anacortes Former Scott Paper Mill Site Former Scott Paper Mill Cleanup Project, #ENV-01, Anacortes, Skagit County, Washington*. April 2009.

USEPA (U.S. Environmental Protection Agency). 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October 2004.

USEPA. 2008. *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June 2008.

TABLES

Table 1
Results of Confirmation Sampling for MJB1 - Metals

		Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
		Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
24S	1/8/2010	Sidewall	5.3 U	11 U	**23**	**53**	**7.3**	0.27 U	**25**	2.7 U	**69**
25S	1/8/2010	Sidewall	**8.5**	**16**	**34**	**85**	**20**	0.27 U	**34**	2.7 U	**440**
26S	1/8/2010	Sidewall	5.2 U	10 U	**21**	**46**	**5.5**	0.26 U	**21**	2.6 U	**100**
27S	1/8/2010	Sidewall	5.3 U	**12**	**38**	**77**	**15**	0.26 U	**38**	2.6 U	**250**
28S	1/8/2010	Sidewall	5.3 U	11 U	**32**	**59**	**8.5**	0.27 U	**31**	2.7 U	**130**
29S	1/8/2010	Sidewall	5.3 U	11 U	**29**	**55**	**6.6**	0.26 U	**28**	2.6 U	**91**
30S	1/8/2010	Sidewall	**7.1**	**12**	**27**	**64**	**16**	0.27 U	**31**	2.7 U	**180**
31S	1/8/2010	Sidewall	5.3 U	11 U	**24**	**56**	**5.8**	0.26 U	**27**	2.6 U	**85**
32D	1/8/2010	Duplicate	**6**	11 U	**42** J	**59**	5.3 U	0.26 U	**28**	2.6 U	**90**
32S	1/8/2010	Sidewall	5.2 U	10 U	**24**	**56**	**5.5**	0.26 U	**26**	2.6 U	**85**
33S	1/8/2010	Sidewall	6.5 U	13 U	**28**	**38**	**13**	0.32 U	**35**	3.2 U	**92**
34S	1/8/2010	Sidewall	5.9 U	12 U	**31**	**31**	**20**	0.3 U	**42**	3 U	**82**
35S	1/8/2010	Sidewall	5.8 U	12 U	**20**	**16**	**6.6**	0.29 U	**22**	2.9 U	**48**
36S	1/8/2010	Sidewall	5.4 U	11 U	**22**	**18**	5.4 U	0.27 U	**39**	2.7 U	**26**
37S	1/8/2010	Sidewall	5.5 U	11 U	**25**	**37**	**44**	0.27 U	**40**	2.7 U	**62**
38S	1/8/2010	Sidewall	5.4 U	11 U	**23**	**47**	**27**	0.27 U	**41**	2.7 U	**69**
39S	1/8/2010	Sidewall	**5.9**	11 U	**23**	**53**	**6**	0.27 U	**33**	2.7 U	**120**
40S	1/8/2010	Sidewall	5.5 U	11 U	**29**	**64**	**11**	0.28 U	**34**	2.8 U	**100**
41S	1/8/2010	Sidewall	5.3 U	11 U	**32**	**56**	**8.2**	0.26 U	**35**	2.6 U	**150**
42D	1/8/2010	Duplicate	5.2 U	10 U	**39** J	**65**	**6.4**	**0.42**	**32**	2.6 U	**89**
42S	1/8/2010	Sidewall	5.3 U	11 U	**26**	**56**	**7.2**	0.26 U	**30**	2.6 U	**81**
43S	1/8/2010	Sidewall	5.3 U	11 U	**34** J	**67**	**6.7**	0.27 U	**36** J	2.7 U	**94**
44S	1/8/2010	Sidewall	5.3 U	11 U	**30** J	**59**	**5.3**	0.26 U	**30** J	2.6 U	**87**
45S	1/8/2010	Sidewall	**6.4**	10 U	**43** J	**81**	5.2 U	0.26 U	**46** J	2.6 U	**150**
47S	1/8/2010	Sidewall	5.2 U	10 U	**39** J	**76**	**7**	0.26 U	**39** J	2.6 U	**120**
48S	1/8/2010	Sidewall	5.4 U	11 U	**37** J	**62**	**8**	0.27 U	**42** J	2.7 U	**96**
49S	1/8/2010	Sidewall	5.8 U	12 U	**34** J	**30**	5.8 U	0.29 U	**83** J	2.9 U	**75**
50S	1/8/2010	Sidewall	**9.3**	11 U	**31** J	**110**	**6.5**	0.26 U	**41** J	2.6 U	**420**

Table 1
Results of Confirmation Sampling for MJB1 - Metals

		Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
		Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
51S	1/8/2010	Sidewall	5.3 U	11 U	**48** J	**88**	**5.5**	0.26 U	**45** J	2.6 U	**220**
52D	1/8/2010	Duplicate	5.3 U	11 U	**42** J	**46**	5.3 U	0.27 U	**23**	2.7 U	**91**
52S	1/8/2010	Sidewall	5.3 U	**14**	**47** J	**110**	**25**	0.27 U	**50** J	2.7 U	**380**
53B	1/8/2010	Base	5.6 U	11 U	**21** J	**16**	5.6 U	0.28 U	**48** J	2.8 U	**27**
54B	1/8/2010	Base	5.5 U	11 U	**28** J	**30**	**42**	0.28 U	**44** J	2.8 U	**45**
55B	1/8/2010	Base	5.6 U	11 U	**23** J	**20**	5.6 U	0.28 U	**55** J	2.8 U	**31**
56B	1/8/2010	Base	5.5 U	11 U	**35** J	**24**	**23**	0.28 U	**51** J	2.8 U	**46**
57B	1/8/2010	Base	5.4 U	11 U	**31** J	**23**	5.4 U	0.27 U	**42** J	2.7 U	**40**
58B	1/8/2010	Base	5.9 U	12 U	**47** J	**20**	5.9 U	0.29 U	**73** J	2.9 U	**36**
59B	1/8/2010	Base	5.6 U	11 U	**24** J	**27**	5.6 U	0.28 U	**45** J	2.8 U	**37**
60B	1/8/2010	Base	5.5 U	11 U	**24** J	**27**	5.5 U	0.28 U	**43** J	2.8 U	**35**
61B	1/8/2010	Base	5.5 U	11 U	**25** J	**28**	5.5 U	0.28 U	**48** J	2.8 U	**33**
62B	1/8/2010	Base	5.6 U	11 U	**32** J	**21**	5.6 U	0.28 U	**59** J	2.8 U	**32**
62D	1/8/2010	Duplicate	5.7 U	11 U	**27** J	**19**	5.7 U	0.29 U	**54**	2.9 U	**31**
63B	1/8/2010	Base	5.5 U	11 U	**19**	**25**	5.5 U	0.28 U	**38**	2.8 U	**150**
64B	1/8/2010	Base	5.5 U	11 U	**32**	**38**	**8.9**	0.28 U	**43**	2.8 U	**110**
65B	1/8/2010	Base	5.5 U	11 U	**31**	**25**	5.5 U	0.28 U	**47**	2.8 U	**36**
66B	1/8/2010	Base	5.4 U	11 U	**29**	**31**	5.4 U	0.27 U	**54**	2.7 U	**45**
67B	1/8/2010	Base	5.8 U	12 U	**24**	**25**	**61**	**0.43**	**44**	2.9 U	**41**
68B	1/8/2010	Base	5.7 U	11 U	**20**	**22**	**25**	0.29 U	**30**	2.9 U	**27**
69B	1/8/2010	Base	5.6 U	11 U	**18**	**14**	5.6 U	0.28 U	**43**	2.8 U	**23**
70B	1/8/2010	Base	5.7 U	11 U	**21**	**26**	**73**	0.28 U	**38**	2.8 U	**42**
71B	1/8/2010	Base	5.5 U	11 U	**12**	**13**	5.5 U	0.28 U	**25**	2.8 U	**20**
72B	1/8/2010	Base	5.5 U	11 U	**16**	**21**	5.5 U	0.27 U	**36**	2.7 U	**28**
72D	1/8/2010	Duplicate	5.5 U	11 U	**24** J	**28**	5.5 U	0.28 U	**43**	2.8 U	**31**
73B	1/8/2010	Base	5.5 U	11 U	**27**	**17**	5.5 U	0.28 U	**48**	2.8 U	**25**
74B	1/8/2010	Base	5.7 U	11 U	**24**	**17**	5.7 U	0.29 U	**74**	2.9 U	**32**
75B	1/8/2010	Base	5.6 U	11 U	**17**	**20**	5.6 U	0.28 U	**44**	2.8 U	**28**

Table 1
Results of Confirmation Sampling for MJB1 - Metals

		Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
		Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
76B	1/8/2010	Base	5.8 U	12 U	**19**	**17**	5.8 U	0.29 U	**50**	2.9 U	**29**
77B	1/8/2010	Base	5.6 U	11 U	**16**	**21**	5.6 U	0.28 U	**31**	2.8 U	**86**
78B	1/8/2010	Base	5.4 U	11 U	**19**	**26**	5.4 U	0.27 U	**39**	2.7 U	**61**
79B	1/8/2010	Base	5.4 U	11 U	**20**	**18**	5.4 U	0.27 U	**31**	2.7 U	**28**
80B	1/8/2010	Base	5.7 U	11 U	**33**	**30**	**14**	0.29 U	**45**	2.9 U	**60**
81B	1/8/2010	Base	5.6 U	11 U	**14**	**13**	5.6 U	0.28 U	**32**	2.8 U	**24**
82B	1/8/2010	Base	5.6 U	11 U	**17**	**16**	5.6 U	0.28 U	**40**	2.8 U	**26**
82D	1/8/2010	Duplicate	5.7 U	11 U	**25** J	**18**	5.7 U	0.28 U	**47**	2.8 U	**30**
83B	1/8/2010	Base	5.6 U	11 U	**29** J	**22**	5.6 U	0.28 U	**40**	2.8 U	**41**
84B	1/8/2010	Base	5.5 U	11 U	**25** J	**26**	**9.1**	0.27 U	**35**	2.7 U	**51**
85B	1/8/2010	Base	5.4 U	11 U	**20** J	**19**	5.4 U	0.27 U	**33**	2.7 U	**27**
86B	1/8/2010	Base	5.6 U	11 U	**17** J	**19**	5.6 U	0.28 U	**32**	2.8 U	**30**
87B	1/8/2010	Base	5.7 U	11 U	**42** J	**16**	5.7 U	0.29 U	**63**	2.9 U	**31**
88B	1/8/2010	Base	5.4 U	11 U	**50** J	**27**	5.4 U	0.27 U	**34**	2.7 U	**45**
89B	1/8/2010	Base	5.6 U	11 U	**100** J	**24**	5.6 U	0.28 U	**41**	2.8 U	**38**
90B	1/8/2010	Base	5.7 U	11 U	**26** J	**37**	**6.7**	0.28 U	**54**	2.8 U	**120**
91B	1/8/2010	Base	5.5 U	11 U	**58** J	**21**	5.5 U	0.28 U	**38**	2.8 U	**32**
92B	1/8/2010	Base	5.7 U	11 U	**26** J	**16**	5.7 U	0.29 U	**32**	2.9 U	**24**
92D	1/8/2010	Duplicate	5.7 U	11 U	**34** J	**18**	5.7 U	0.29 U	**38**	2.9 U	**30**
93B	1/8/2010	Base	5.4 U	11 U	**21** J	**18**	5.4 U	0.27 U	**34**	2.7 U	**25**
94B	1/8/2010	Base	5.8 U	12 U	**26** J	**21**	5.8 U	0.29 U	**37**	2.9 U	**31**
95B	1/11/2010	Base	5.6 U	11 U	**18**	**19**	5.6 U	0.28 U	**32**	2.8 U	**27**
96B	1/11/2010	Base	5.6 U	11 U	**14**	**15**	5.6 U	0.28 U	**29**	2.8 U	**20**
97B	1/11/2010	Base	5.5 U	11 U	**15**	**16**	5.5 U	0.27 U	**27**	2.7 U	**21**
98B	1/11/2010	Base	6.2 U	12 U	**41**	**81**	**90**	**0.43**	**53**	3.1 U	**130**
99B	1/11/2010	Base	5.5 U	11 U	**15**	**17**	5.5 U	0.28 U	**32**	2.8 U	**26**
100B	1/11/2010	Base	6.4 U	13 U	**15**	**18**	**22**	0.32 U	**8.3**	3.2 U	**59**
101B	1/11/2010	Base	5.7 U	11 U	**27**	**29**	**6.7**	0.28 U	**42**	2.8 U	**54**

Table 1
Results of Confirmation Sampling for MJB1 - Metals

		Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
		Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
102B	1/11/2010	Base	5.5 U	11 U	**19**	**17**	5.5 U	0.27 U	**27**	2.7 U	**26**
102D	1/11/2010	Duplicate	5.4 U	11 U	**23** J	**24**	**5.9**	0.27 U	**32**	2.7 U	**37**
103B	1/11/2010	Base	5.3 U	11 U	**16**	**33**	**14**	0.26 U	**19**	2.6 U	**49**
104B	1/11/2010	Base	5.7 U	11 U	**21**	**15**	5.7 U	0.28 U	**28**	2.8 U	**38**
105B	1/11/2010	Base	5.8 U	12 U	**27**	**50**	**7.5**	0.29 U	**30**	2.9 U	**70**
106B	1/11/2010	Base	5.6 U	11 U	**29**	**47**	5.6 U	0.28 U	**29**	2.8 U	**64**
107B	1/11/2010	Base	5.3 U	11 U	**21**	**26**	**14**	0.27 U	**30**	2.7 U	**41**
108B	1/11/2010	Base	5.9 U	12 U	**21**	**22**	**130**	0.29 U	**38**	2.9 U	**27**
109B	1/11/2010	Base	5.9 U	12 U	**27**	**27**	**12**	0.29 U	**31**	2.9 U	**500**
110B	1/11/2010	Base	5.7 U	11 U	**20**	**29**	**21**	0.29 U	**32**	2.9 U	**41**
111B	1/11/2010	Base	5.3 U	11 U	**20**	**21**	5.3 U	0.27 U	**33**	2.7 U	**49**
112B	1/11/2010	Base	5.6 U	11 U	**25**	**73**	**6.3**	0.28 U	**27**	2.8 U	**210**
112D	1/11/2010	Duplicate	5.6 U	11 U	**23** J	**50**	**10**	0.28 U	**29**	2.8 U	**120**
113B	1/11/2010	Base	5.4 U	11 U	**23**	**40**	5.4 U	0.27 U	**26**	2.7 U	**68**
114B	1/11/2010	Base	6.7 U	13 U	**34**	**61**	**34**	0.33 U	**38**	3.3 U	**100**
117B	1/11/2010	Base	5.4 U	11 U	**26** J	**57**	**13**	**0.31**	**31**	2.7 U	**77**
118B	1/11/2010	Base	5.4 U	11 U	**32** J	**62**	**9.5**	**0.3**	**36**	2.7 U	**85**
121B	1/28/2010	Base	5.3 UJ	11 U	**73**	**25**	5.3 U	0.27 U	**51**	2.7 U	**37**
127S	2/5/2010	Sidewall	5.3 U	11 U	**26**	**43**	5.3 U	0.26 U	**38**	2.6 U	**90**
128S	2/5/2010	Sidewall	5.3 U	11 U	**27**	**60**	**6.6**	**0.28**	**29**	2.7 U	**88**
129B	2/5/2010	Base	5.4 U	11 U	**18**	**21**	5.4 U	0.27 U	**37**	2.7 U	**27**
130B	2/5/2010	Base	5.4 U	11 U	**17**	**23**	5.4 U	0.27 U	**37**	2.7 U	**32**
184B	8/23/2010	Base	5.3 U	11 U	**19**	**22**	5.3 UJ	0.26 U	**38**	2.6 U	**26**
194B	9/20/2010	Base	5.5 U	11 U	**23**	**24**	**6.9**	0.28 U	**36**	2.8 U	**38**
195B	9/20/2010	Base	5.5 U	11 U	**21**	**20**	5.5 U	0.27 U	**40**	2.7 U	**160**
197S	9/20/2010	Sidewall	5.4 U	**12**	**35**	**60**	**12**	0.27 U	**31**	2.7 U	**130**
198D	9/20/2010	Duplicate	5.5 U	11 U	**20**	**21**	**7.8**	0.27 U	**34**	2.7 U	**110**
199B	9/20/2010	Base	5.5 U	11 U	**16**	**18**	5.5 U	0.27 U	**31**	2.7 U	**28**

Table 1
Results of Confirmation Sampling for MJB1 - Metals

		Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
		Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	**Sample Date**	**Sample Type**									
200B	9/23/2010	Base	5.4 U	11 U	**22**	**25**	**8**	0.27 U	**43**	2.7 U	**27**
201D	9/23/2010	Duplicate	5.4 U	11 U	**23**	**23**	5.4 U	0.27 U	**46**	2.7 U	**23**
203S	9/23/2010	Sidewall	5.4 U	11 U	**31**	**66**	**12**	**0.27**	**34**	2.7 U	**84**
242B	2/11/2011	Base	5.3 U	11 U	**31**	**69**	**9.3**	0.27 UJ	**35**	1.3 U	**120**

Notes:
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit
UJ = Compound analyzed, but not detected above estimated detection limit
Base = base of excavation; Sidewall = excavation sidewall
mg/kg = milligrams per kilogram

Table 2
MJB2, RA-11a, and RA-11b Stockpile TCLP Results

			Analyte (µg/l)	TCLP Copper		TCLP Lead	
Area of Origin	Abbreviated Sample ID	Sample Date	Sample Type				
MJB2	BK01	7/7/2010	Bunker Stockpile			**540**	
MJB2	BK02	7/7/2010	Bunker Stockpile			**2,500**	
MJB2	BK03	7/7/2010	Bunker Stockpile			**2,600**	
MJB2	BK04	7/7/2010	Bunker Stockpile			**270**	
MJB2	BK05	7/7/2010	Bunker Stockpile			**2,400**	
RA-11	223BK	2/8/2011	Pre-Treatment	20	U	**7,500**	
RA-11	224BK	2/8/2011	Pre-Treatment	20	U	200	U
RA-11	240BK	2/11/2011	Pre-Treatment	20	U	**7,800**	
RA-11	241D	2/11/2011	Pre-Treatment	**38**		**9,200**	
RA-11	251BK	4/14/2011	Post-Treatment			200	U
RA-11	252BK	4/15/2011	Post-Treatment			200	U
RA-11	253BK	4/15/2011	Post-Treatment			200	U
MJB2	315BK	5/25/2011	Bunker Stockpile			**220**	
MJB2	316BK	5/25/2011	Bunker Stockpile			200	U
MJB2	317BK	5/25/2011	Bunker Stockpile			**340**	

Notes:
µg/l = micrograms per liter
Bold = Detected result
TCLP = toxicity characteristic leaching procedure
U = Compound analyzed, but not detected above detection limit
Shading indicates a result above regulatory limits for Subtitle D disposal

Table 3
Results of Confirmation Sampling for MJB2 - Metals

		Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
		Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
122S	1/28/2010	Sidewall	5.3 UJ	11 U	**40**	**67**	**66**	**0.49**	**38**	2.6 U	**100**
131B	7/9/2010	Base	8.3 U	17 U	**35**	**30**	**22**	0.41 U	**28**	4.1 U	**32**
131D	7/9/2010	Duplicate	7.7 U	15 U	**41**	**29**	**56**	0.39 U	**33**	3.9 U	**38**
133S1	7/9/2010	Sidewall	5.4 U	**17**	**21**	**53**	**24**	0.27 U	**39**	2.7 U	**130**
134S1	7/9/2010	Sidewall	5.3 U	11 U	**23**	**27**	**22**	0.27 U	**40**	2.7 U	**55**
134S2	7/9/2010	Sidewall	5.8 U	12 U	**24**	**42**	**33**	0.29 U	**17**	2.9 U	**69**
135S2	7/9/2010	Sidewall	5.8 U	12 U	**21**	**15**	**11**	0.29 U	**19**	2.9 U	**87**
136S1	7/9/2010	Sidewall	5.3 U	11 U	**26**	**17**	**5.6**	0.27 U	**42**	2.7 U	**46**
136S2	7/9/2010	Sidewall	6.6 U	13 U	**19**	**9.6**	6.6 U	0.33 U	**14**	3.3 U	**30**
137S2	7/9/2010	Sidewall	5.6 U	11 U	**24**	**73**	**210**	0.28 U	**21**	2.8 U	**58**
138S1	7/9/2010	Sidewall	5.3 U	11 U	**24**	**24**	5.3 U	0.27 U	**35**	2.7 U	**54**
138S2	7/9/2010	Sidewall	5.4 U	11 U	**23**	**19**	**6.2**	0.27 U	**38**	2.7 U	**31**
139S1	7/9/2010	Sidewall	5.3 U	**20**	**35**	**40**	**16**	0.26 U	**53**	2.6 U	**210**
139S2	7/9/2010	Sidewall	5.5 U	11 U	**24**	**20**	5.5 U	0.28 U	**36**	2.8 U	**73**
140D1	7/9/2010	Duplicate	5.4 U	11 U	**23**	**21**	5.4 U	0.27 U	**48**	2.7 U	**34**
140D2	7/9/2010	Duplicate	7.1 U	14 U	**15**	**27**	**12**	0.35 U	**9.8**	3.5 U	**13**
140S1	7/9/2010	Sidewall	5.3 U	11 U	**19**	**20**	5.3 U	0.27 U	**38**	2.7 U	**42**
140S2	7/9/2010	Sidewall	6.8 U	14 U	**21**	**23**	**9.8**	0.34 U	**13**	3.4 U	**18**
142S2	7/9/2010	Sidewall	5.4 U	11 U	**21**	**15**	**9.2**	0.27 U	**51**	2.7 U	**28**
143B	7/9/2010	Base	6.2 U	12 U	**25**	**9**	**13**	0.31 U	**57**	3.1 U	**33**
143D	7/9/2010	Duplicate	6.3 U	13 U	**26**	**9.4**	**24**	0.31 U	**16**	3.1 U	**29**
145B	7/9/2010	Base	7.6 U	15 U	**48**	**82**	**35**	0.38 U	**33**	3.8 U	**58**
146B	7/9/2010	Base	6.3 U	13 U	**23**	**5.4**	6.3 U	0.32 U	**14**	3.2 U	**33**
147B	7/9/2010	Base	6.8 U	14 U	**59**	**16**	**7.1**	0.34 U	**38**	3.4 U	**66**
148B	7/9/2010	Base	6.3 U	13 U	**27**	**6.3**	6.3 U	0.32 U	**15**	3.2 U	**26**
149B	7/9/2010	Base	6.6 U	13 U	**29**	**13**	6.6 U	0.33 U	**25**	3.3 U	**61**
150B	7/9/2010	Base	6.3 U	13 U	**49**	**7**	6.3 U	0.32 U	**21**	3.2 U	**27**
151B	7/9/2010	Base	6.9 U	14 U	**30**	**13**	6.9 U	0.35 U	**27**	3.5 U	**52**

Table 3
Results of Confirmation Sampling for MJB2 - Metals

		Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
		Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
152B	7/9/2010	Base	6.5 U	13 U	**25**	**6.7**	**14**	0.32 U	**16**	3.2 U	**38**
153B	7/9/2010	Base	7.7 U	15 U	**38**	**25**	**48**	0.38 U	**39**	3.8 U	**66**
154B	7/9/2010	Base	7.8 U	16 U	**35**	**20**	7.8 U	0.39 U	**33**	3.9 U	**64**
155B	7/9/2010	Base	6.9 U	14 U	**35**	**19**	6.9 U	0.34 U	**41**	3.4 U	**50**
156B	7/28/2010	Base	5.3 U	11 U	**28**	**42**	**29**	0.27 U	**61**	2.7 U	**49**
159B	7/28/2010	Base	5.4 U	11 U	**21**	**20**	**16**	0.27 U	**23**	2.7 U	**82**
159D	7/28/2010	Duplicate	5.4 U	11 U	**18**	**18**	**17**	0.27 U	**19**	2.7 U	**89**
160S1	7/28/2010	Sidewall	**5.7**	**13**	**49**	**140**	**78**	**0.31**	**55**	2.6 U	**200**
163B	7/28/2010	Base	6.4 U	13 U	**25**	**7.4**	**18**	0.32 U	**20**	3.2 U	**26**
164B	7/28/2010	Base	5.9 U	12 U	**36**	**5.7**	5.9 U	0.3 U	**18**	3 U	**27**
165D	7/28/2010	Duplicate	5.3 U	11 U	**33**	**19**	**55**	0.26 U	**53**	2.6 U	**33**
165S1	7/28/2010	Sidewall	5.3 U	11 U	**20**	**23**	**17**	0.27 U	**39**	2.7 U	**34**
165S2	7/28/2010	Sidewall	5.7 U	11 U	**19**	**39**	**50**	0.29 U	**19**	2.9 U	**210**
166S2	7/28/2010	Sidewall	6.1 U	12 U	**23**	**40**	**74**	0.3 U	**33**	3 U	**120**
167S2	7/28/2010	Sidewall	5.4 U	11 U	**18**	**15**	5.4 U	0.27 U	**40**	2.7 U	**27**
171S1	8/16/2010	Sidewall	5.2 U	**17**	**42**	**98**	**15**	**0.26**	**43**	2.6 U	**190**
172S1	8/16/2010	Sidewall	5.2 U	**13**	**41**	**83**	**15**	0.26 U	**53**	2.6 U	**160**
175B	8/16/2010	Base	5.3 U	11 U	**24**	**21**	5.3 U	0.26 U	**41**	2.6 U	**32**
176B	8/16/2010	Base	5.3 U	11 U	**32**	**16**	5.3 U	0.26 U	**59**	2.6 U	**26**
176D	8/16/2010	Duplicate	5.3 U	11 U	**27**	**17**	5.3 U	0.27 U	**59**	2.7 U	**26**
178B	8/16/2010	Base	5.2 U	10 U	**27**	**9.3**	5.2 U	0.26 U	**19**	2.6 U	**39**
179S1	8/16/2010	Sidewall	**8.8**	**17**	**59**	**75**	**140**	**0.39**	**36**	2.9 U	**120**
181S	8/23/2010	Sidewall	5.3 U	11 U	**31**	**27**	**81** J	0.26 U	**55**	2.6 U	**55**
182B	8/23/2010	Base	5.6 U	11 U	**20**	**48**	**78** J	0.28 U	**18**	2.8 U	**94**
207B	10/11/2010	Base	5.4 U	11 U	**24**	**22**	**6.2**	0.27 U	**48**	2.7 U	**47**
208B	10/11/2010	Base	5.6 U	11 U	**36**	**17**	5.6 U	0.28 U	**91**	2.8 U	**35**
209D	10/11/2010	Duplicate	5.7 U	11 U	**33**	**20**	5.7 U	0.28 U	**88**	2.8 U	**35**
210B	10/11/2010	Base	5.4 U	11 U	**20**	**16**	5.4 U	0.27 U	**38**	2.7 U	**28**

Table 3
Results of Confirmation Sampling for MJB2 - Metals

Metals (mg/kg)			Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Soil Cleanup Level (in mg/kg)			32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
211S	10/11/2010	Sidewall	5.3 U	11 U	**63**	**34**	5.3 U	0.26 U	**67**	2.6 U	**36**
212S	10/11/2010	Sidewall	5.4 U	**19**	**53**	**92**	**11**	0.27 U	**120**	2.7 U	**180**
213S	10/11/2010	Sidewall	5.4 U	**12**	**28**	**56**	**15**	0.27 U	**50**	2.7 U	**130**
254B	4/29/2011	Base	7.9 U	16 U	**50**	**19**	7.9 U	0.39 U	**30**	2 U	**54**
268S	5/6/2011	Sidewall	5.4 U	11 U	**29**	**33**	**57**	**0.43**	**55**	2.7 U	**56**
269S	5/6/2011	Sidewall	5.5 U	11 U	**31**	**27**	**18**	0.27 U	**40**	2.7 U	**31**
270B	5/6/2011	Base	6.9 U	14 U	**22**	**87**	**140**	**0.92**	**41**	3.5 U	**170**
308B	5/25/2011	Base	8 U	16 U	**58**	**22**	8 U	0.4 U	**31**	4 U	**61**
309S	5/25/2011	Sidewall	5.5 U	11 U	**24**	**14**	5.5 U	0.28 U	**57**	2.8 U	**25**
310S	5/25/2011	Sidewall	5.5 U	11 U	**22**	**14**	5.5 U	0.28 U	**51**	2.8 U	**25**

Notes:
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit
UJ = Compound analyzed, but not detected above estimated detection limit
Base = base of excavation; Sidewall = excavation sidewall
mg/kg = milligrams per kilogram

Table 4
Results of Confirmation Sampling for MJB2 - TPH

		TPH (mg/kg)	Diesel Range Hydrocarbons		Residual Range Hydrocarbons	
		Analytical Method	NWTPH-Dx		NWTPH-Dx	
		Soil Cleanup Level (in mg/kg)	2,000		2,000	
Abbreviated Sample ID	Sample Date	Sample Type				
254B	4/29/2011	Base	39	U	79	U
268S	5/6/2011	Sidewall	110	U	**460**	
269S	5/6/2011	Sidewall	27	U	55	U
270B	5/6/2011	Base	42	U	**150**	
308B	5/25/2011	Base	40	U	80	U
309S	5/25/2011	Sidewall	28	U	55	U
310S	5/25/2011	Sidewall	28	U	55	U

Notes:
Bold = Detected result
U = Compound analyzed, but not detected above detection limit
MJB2-E = MJB2 expanded excavation
Base = base of excavation; Sidewall = excavation sidewall
mg/kg = milligrams per kilogram
TPH = total petroleum hydrocarbon

Table 5
Results of Confirmation Sampling for MJB3 - Metals

Metals (mg/kg)			Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Soil Cleanup Level (in mg/kg)			32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
6S	1/5/2010	Sidewall	5.4 U	11 U	**22** J	**44**	**29**	0.27 U	**22**	2.7 U	**72**
7S	1/5/2010	Sidewall	5.6 U	11 U	**37** J	**78**	**17**	0.28 U	**34**	2.8 U	**240**
8B	1/5/2010	Base	5.7 U	11 U	**36** J	**15**	5.7 U	0.28 U	**74**	2.8 U	**26**
9B	1/5/2010	Base	5.8 U	12 U	**16** J	**10**	5.8 U	0.29 U	**35**	2.9 U	**16**
10S	1/5/2010	Sidewall	5.4 U	11 U	**20** J	**43**	**6.5**	**0.28**	**20**	2.7 U	**53**
11B	1/5/2010	Base	5.6 U	11 U	**16** J	**13**	5.6 U	0.28 U	**50**	2.8 U	**20**
12B	1/5/2010	Base	5.5 U	11 U	**18** J	**17**	5.5 U	0.28 U	**37**	2.8 U	**23**
12D	1/5/2010	Duplicate	5.6 U	11 U	**24** J	**18**	5.6 U	0.28 U	**35**	2.8 U	**25**
13B	1/5/2010	Base	5.5 U	11 U	**21** J	**31**	**16**	0.28 U	**56**	2.8 U	**27**
14S	1/5/2010	Sidewall	5.4 U	11 U	**28** J	**60**	**6.8**	0.27 U	**30**	2.7 U	**77**
15B	1/5/2010	Base	5.5 U	11 U	**24** J	**130**	**51**	0.27 U	**48**	2.7 U	**37**
16S	1/5/2010	Sidewall	5.3 U	11 U	**26** J	**59**	**5.9**	0.27 U	**27**	2.7 U	**75**
17S	1/5/2010	Sidewall	5.3 U	11 U	**26** J	**58**	**5.9**	0.27 U	**27**	2.7 U	**73**

Notes:
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit
Base = base of excavation; Sidewall = excavation sidewall
mg/kg = milligrams per kilogram

Table 6
Results of Confirmation Sampling - MJB4 - Metals

Metals (mg/kg)			Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Soil Cleanup Level (in mg/kg)			32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	**Sample Date**	**Sample Type**									
1B	12/22/2009	Base	5.6 U	11 U	**35**	**71**	**8.4**	0.28 U	**34**	5.6 U	**130**
1S-2	12/22/2009	Sidewall	5.4 U	11 U	**26**	**60**	**5.6**	0.27 U	**26**	5.4 U	**72**
2S-2	12/22/2009	Sidewall	5.4 U	11 U	**33**	**78**	**8.3**	0.27 U	**32**	5.4 U	**130**
4S-2	12/22/2009	Sidewall	5.4 U	11 U	**32**	**76**	**9.1**	0.27 U	**33**	5.4 U	**150**
4S-2D	12/22/2009	Duplicate	5.4 U	11 U	**20**	**26**	**6.6**	0.27 U	**36**	5.4 U	**30**

Notes:

Bold = Detected result

J = Estimated value

U = Compound analyzed, but not detected above detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

Base = base of excavation; Sidewall = excavation sidewall

mg/kg = milligrams per kilogram

Table 7
Results of Confirmation Sampling for MJB4 - PAHs

		PAH (µg/kg)	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total Carcinogenic PAHs
Abbreviated Sample ID	**Sample Date**	**Sample Type**								
1B	12/22/2009	Base	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
1S-2	12/22/2009	Sidewall	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
2S-2	12/22/2009	Sidewall	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
4S-2	12/22/2009	Sidewall	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
4S-2D	12/22/2009	Duplicate	**17**	**20**	**17**	**15**	**19**	**7.2 U**	**11**	**27**

Notes:

Bold = Detected result

U = Compound analyzed, but not detected above detection limit

µg/kg = micrograms per kilogram

PAH = polycyclic aromatic hydrocarbon

Total carcinogenic PAHs are calculated using the Toxicity Equivalency Factors in Table 708-2 per WAC 173-340-708(e)

The total carcinogenic PAHs cleanup level is 140 µg/kg

Table 8
Results of Confirmation Sampling - MJB5 and MJB6 - Metals

Area	Abbreviated Sample ID	Sample Date	Sample Type	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Metals (mg/kg)												
Soil Cleanup Level (in mg/kg)				32	20	117	336	220	9	977	5.6	662
MJB5	233S	2/11/2011	Sidewall	5.5 U	11 U	**27**	**42**	**7.7**	0.28 UJ	**39**	1.4 U	**110**
MJB5	234S	2/11/2011	Sidewall	5.4 U	11 U	**44**	**28**	**11**	0.27 UJ	**28**	1.3 U	**160**
MJB6	236S	2/11/2011	Sidewall	5.4 U	11 U	**19**	**14**	5.4 U	0.27 UJ	**41**	1.4 U	**28**
MJB6	237S	2/11/2011	Sidewall	5.3 U	11 U	**25**	**18**	5.3 U	0.27 UJ	**44**	1.3 U	**27**
MJB6	238S	2/11/2011	Sidewall	5.3 U	11 U	**26**	**57**	**7.1**	0.27 UJ	**30**	1.3 U	**290**
MJB6	245B	3/15/2011	Base(>6')	30 U	15 U	**30**	400	520	1.5 U	**35**	3.7 U	**160** J
MJB6	245B	3/15/2011	Base(>6')	29 U	15 U	**33**	470	380	1.5 U	**42**	3.7 U	**190** J
MJB6	246S	3/15/2011	Sidewall	5.7 U	2.9 U	**20**	**20**	**8.3**	0.29 U	**20**	0.72 U	**59** J
MJB6	247B	3/24/2011	Base	5.4 U	11 U	**19**	**22**	5.4 U	0.27 U	**45**	2.7 U	**28**

Notes:

Bold = Detected result

Shading indicates a result above site cleanup levels

J = Estimated value

U = Compound analyzed, but not detected above detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

Base = base of excavation; Base(>6') = base of excavation deeper than 6 feet; Sidewall = excavation sidewall

mg/kg = milligrams per kilogram

Table 9
Results of Confirmation Sampling for MJB6 - TPH

TPH (mg/kg)			Diesel Range Hydrocarbons		Diesel Range Hydrocarbons		Residual Range Hydrocarbons		Residual Range Hydrocarbons	
Analytical Method			NWTPH-Dx		NWTPH-HCID		NWTPH-Dx		NWTPH-HCID	
Soil Cleanup Level (in mg/kg)			2,000		2,000		2,000		2,000	
Abbreviated Sample ID	**Sample Date**	**Sample Type**								
238S	2/11/2011	Sidewall			53	U			110	U
245B	3/15/2011	Base(>6')	400	U			**1800**			
245D	3/15/2011	Base(>6')	420	U			**1600**			
246S	3/15/2011	Sidewall	29	U			58	U		
247B	3/24/2011	Base			54	U			110	U

Notes:
Bold = Detected result
U = Compound analyzed, but not detected above detection limit
Base = base of excavation; Base(>6') = base of excavation deeper than 6 feet; Sidewall = excavation sidewall
mg/kg = milligrams per kilogram
TPH = total petroleum hydrocarbon

Table 10
Results of Confirmation Sampling for RA-11a and RA-11b - Metals

Metals (mg/kg)			Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Soil Cleanup Level (in mg/kg)			32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
214S	2/8/2011	Sidewall	5.8 U	12 U	**20**	**52**	**7.9**	0.29 UJ	**19**	1.4 U	**57**
215S	2/8/2011	Sidewall	5.6 U	11 U	**25**	**15**	**16**	0.28 UJ	**43**	1.4 U	**26**
218S	2/8/2011	Sidewall	9.7 U	19 U	**34**	**59**	**27**	0.49 UJ	**38**	2.4 U	**140**
219S	2/8/2011	Sidewall	9.6 U	19 U	**40**	**290**	**49**	0.48 UJ	**11**	2.4 U	**17**
220S	2/8/2011	Sidewall	6 U	12 U	**43**	**24**	**30**	0.3 UJ	**56**	1.5 U	**58**
221B	2/8/2011	Base	9.3 U	19 U	**9.5**	**82**	**67**	0.46 UJ	**13**	2.3 U	**79**
222B	2/8/2011	Base(>6')	**7.4**	15 U	**44**	**1600**	**280**	0.37 UJ	**23**	1.9 U	**39**
225B	2/11/2011	Base(>6')	**26**	31 U	**78**	**830**	**1700**	**5** J	**65**	3.8 U	**300**
226S	2/11/2011	Sidewall	5.5 U	11 U	**34**	**16**	5.5 U	0.28 UJ	**64**	1.4 U	**31**
227B	2/11/2011	Base	5.4 U	11 U	**36**	**15**	**11**	**0.5** J	**67**	1.4 U	**28**
229S	2/11/2011	Sidewall	5.5 U	11 U	**31**	**11**	5.5 U	0.27 UJ	**59**	1.4 U	**29**
230S	2/11/2011	Sidewall	5.5 U	11 U	**31**	**19**	5.5 U	0.28 UJ	**56**	1.4 U	**29**
231S	2/11/2011	Sidewall	5.5 U	11 U	**29**	**25**	**22**	**2.9** J	**53**	1.4 U	**58**
232B	2/11/2011	Base(>6')	16 U	31 U	**68**	**640**	**500**	0.78 UJ	**35**	3.9 U	**350**
244B	3/7/2011	Base	18 U	18 U	**12**	**150**	**180** J	0.9 U	9 U	4.5 U	**110**

Notes:

Bold = Detected result

Shading indicates a result above site cleanup levels

J = Estimated value

U = Compound analyzed, but not detected above detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

Base = base of excavation; Base(>6') = base of excavation deeper than 6 feet; Sidewall = excavation sidewall

mg/kg = milligrams per kilogram

Table 11
Results of Confirmation Sampling for RA-11a and RA-11b - TPH

			Diesel Range Hydrocarbons	Diesel Range Hydrocarbons	Residual Range Hydrocarbons	Residual Range Hydrocarbons
	TPH (mg/kg)					
	Analytical Method		NWTPH-Dx	NWTPH-HCID	NWTPH-Dx	NWTPH-HCID
	Soil Cleanup Level (in mg/kg)		2,000	2,000	2,000	2,000
Abbreviated Sample ID	Sample Date	Sample Type				
218S	2/8/2011	Sidewall		97 U		**370 J**
221B	2/8/2011	Base(>6')		93 U		**370 J**
222B	2/8/2011	Base(>6')		**190 J**		**640 J**
232B	2/11/2011	Base(>6')		**160 J**		**620 J**
244B	3/7/2011	Base(>6')	**350**	**410 J**	**1500**	**1600 J**

Notes:
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit
Base = base of excavation; Base(>6') = base of excavation deeper than 6 feet; Sidewall = excavation sidewall
mg/kg = milligrams per kilograms
TPH = total petroleum hydrocarbon

Table 12
Results of Confirmation Sampling for HR-1, HR-2/3, and HR-5 - Metals

			Metals (mg/kg	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
			Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Sample Date	Sample Type									
HR-1	281B	5/6/2011	Base	5.9 U	12 U	**18**	**16**	5.9 U	0.3 U	**20**	3 U	**30**
HR-1	282B	5/6/2011	Base	5.6 U	11 U	**38**	**38**	**15**	0.28 U	**44**	2.8 U	**130**
HR-1	283B	5/6/2011	Base	5.5 U	11 U	**60**	**29**	**18**	0.28 U	**82**	2.8 U	**77**
HR-1	284S	5/6/2011	Sidewall	5.4 U	**15**	**47**	**55**	**13**	0.27 U	**120**	2.7 U	**150**
HR-1	285S	5/6/2011	Sidewall	5.5 U	11 U	**23**	**28**	**7.5**	**1.2**	**46**	2.7 U	**49**
HR-1	286S	5/6/2011	Sidewall	5.7 U	11 U	**27**	**38**	**17**	0.28 U	**33**	2.8 U	**100**
HR-1	287S	5/6/2011	Sidewall	5.4 U	11 U	**23**	**31**	**9.9**	0.27 U	**41**	2.7 U	**59**
HR-2/3	271B	5/6/2011	Base	5.4 U	11 U	**24**	**20**	5.4 U	0.27 U	**41**	2.7 U	**26**
HR-2/3	272B	5/6/2011	Base	5.4 U	11 U	**21**	**21**	5.4 U	0.27 U	**45**	2.7 U	**28**
HR-2/3	273B	5/6/2011	Base	5.6 U	11 U	**23**	**24**	5.6 U	0.28 U	**49**	2.8 U	**33**
HR-2/3	274B	5/6/2011	Base	5.4 U	11 U	**26**	**31**	**5.9**	0.27 U	**49**	2.7 U	**35**
HR-2/3	275B	5/6/2011	Base	5.5 U	11 U	**24**	**34**	**10**	0.27 U	**44**	2.7 U	**84**
HR-2/3	276B	5/6/2011	Base	5.4 U	11 U	**20**	**20**	5.4 U	0.27 U	**37**	2.7 U	**26**
HR-2/3	278S	5/6/2011	Sidewall	5.5 U	**16**	**60**	**81**	**18**	0.27 U	**57**	2.7 U	**190**
HR-2/3	320S	5/25/2011	Sidewall	5.2 U	10 U	**27** J	**52** J	**16**	0.26 UJ	**25** J	2.6 U	**120** J
HR-2/3	322S	5/25/2011	Sidewall	5.3 U	**12**	**71** J	**140** J	**14**	0.26 UJ	**46** J	2.6 U	**270** J
HR-2/3	323S	5/25/2011	Sidewall	5.2 U	10 U	**49** J	**72** J	**12**	0.26 UJ	**71** J	2.6 U	**240** J
HR-2/3	334B	5/25/2011	Base	5.5 U	11 U	**22** J	**21** J	5.5 U	0.27 UJ	**34** J	2.7 U	**30** J
HR-2/3	335B	5/25/2011	Base	**12**	**18**	**64** J	**130** J	**210**	**0.46** J	**66** J	3 U	**370** J
HR-2/3	337B	5/25/2011	Base	5.7 U	11 U	**23** J	**23** J	5.7 U	0.28 UJ	**33** J	2.8 U	**37** J
HR-2/3	338B	5/25/2011	Base	5.4 U	11 U	**23** J	**35** J	**8**	0.27 UJ	**33** J	2.7 U	**87** J
HR-2/3	341S	6/7/2011	Sidewall	5.1 U	**12**	**69**	**130** J	**20**	0.26 U	**51** J	2.6 U	**500**
HR-2/3	342B	6/7/2011	Base	5.3 U	11 U	**20**	**23**	5.3 U	0.27 U	**41**	2.7 U	**30**
HR-2/3	343D	6/7/2011	Duplicate	5.4 U	11 U	**18**	**17**	5.4 U	0.27 U	**39**	2.7 U	**24**
HR-2/3	345B	6/7/2011	Base	5.2 U	10 U	**21**	**16**	5.2 U	0.26 U	**42**	2.6 U	**33**
HR-2/3	346S	6/7/2011	Sidewall	5.3 U	11 U	**77**	**85**	**16**	0.26 U	**62**	2.6 U	**300**
HR-2/3	347B	6/7/2011	Base	5.2 U	10 U	**14**	**41**	**9.8**	0.26 U	**19**	2.6 U	**47**
HR-2/3	348S	6/7/2011	Sidewall	5.3 U	11 U	**24**	**27**	**5.5**	0.26 U	**42**	2.6 U	**100**

Table 12
Results of Confirmation Sampling for HR-1, HR-2/3, and HR-5 - Metals

			Metals (mg/kg	Antimony		Arsenic		Chromium		Copper		Lead		Mercury		Nickel		Thallium		Zinc	
			Soil Cleanup Level (in mg/kg)	32		20		117		336		220		9		977		5.6		662	
Excavation Area	Abbreviated Sample ID	Sample Date	Sample Type																		
HR-2/3	349B	6/7/2011	Base	5.2	U	10	U	**27**		**30**		**8.9**		0.26	U	**53**		2.6	U	**86**	
HR-2/3	351B	6/7/2011	Base	5.3	U	11	U	**21**		**26**		**5.9**		0.26	U	**39**		2.6	U	**100**	
HR-2/3	360S	6/7/2011	Sidewall	5.2	U	10	U	**34**		**110**		**6.3**		0.26	U	**37**		2.6	U	**100**	
HR-2/3	361S	6/7/2011	Sidewall	5.1	U	10	U	**20**		**21**		5.1	U	0.26	U	**55**		2.6	U	**37**	
HR-2/3	363B	6/7/2011	Base	5.1	U	10	U	**31**		**28**		**5.5**		0.26	U	**37**		2.6	U	**37**	
HR-2/3	364D	6/7/2011	Duplicate	5.1	U	10	U	**22**		**32**		**6.4**		0.26	U	**47**		2.6	U	**38**	
HR-2/3	365B	6/7/2011	Base	5.1	U	10	U	**19**		**22**		5.1	U	0.26	U	**36**		2.6	U	**34**	
HR-2/3	366B	6/7/2011	Base	5.2	U	10	U	**31**		**37**		**6.8**		0.26	U	**68**		2.6	U	**84**	
HR-2/3	367S	6/7/2011	Sidewall	5.2	U	**14**		**41**		**78**		**11**		0.26	U	**54**		2.6	U	**250**	
HR-2/3	380S	6/14/2011	Sidewall	5.2	U	10	U	**26**	J	**47**		5.2	U	0.26	U	**34**		2.6	U	**67**	J
HR-2/3	381S	6/14/2011	Sidewall	5.3	U	**14**		**33**	J	**72**		**12**		0.27	U	**46**		2.7	U	**160**	J
HR-2/3	384S	6/14/2011	Sidewall	5.2	U	**13**		**41**	J	**190**		**8.8**		0.26	U	**41**		2.6	U	**160**	J
HR-2/3	385B	6/14/2011	Base	5.3	U	11	U	**76**	J	**25**		5.3	U	0.27	U	**37**		2.7	U	**32**	J
HR-2/3	386D	6/14/2011	Duplicate	5.3	U	11	U	**19**	J	**22**		5.3	U	0.26	U	**37**		2.6	U	**27**	J
HR-2/3	387B	6/14/2011	Base	5.3	U	11	U	**18**	J	**20**		5.3	U	0.26	U	**41**		2.6	U	**29**	J
HR-2/3	388B	6/14/2011	Base	5.4	U	11	U	**16**	J	**22**		5.4	U	0.27	U	**38**		2.7	U	**31**	J
HR-2/3	389B	6/14/2011	Base	5.3	U	11	U	**17**	J	**22**		5.3	U	0.27	U	**38**		2.7	U	**27**	J
HR-2/3	390S	6/14/2011	Sidewall	5.1	U	**12**		**35**	J	**89**		**12**		0.26	U	**45**		2.6	U	**470**	J
HR-2/3	392S	6/14/2011	Sidewall	5.3	U	11	U	**33**	J	**84**		**10**		0.26	U	**46**		2.6	U	**160**	J
HR-2/3	393D	6/14/2011	Duplicate	5.2	U	10	U	**37**	J	**88**		**9.1**		0.26	U	**43**		2.6	U	**140**	J
HR-2/3	394B	6/14/2011	Base	5.2	U	**12**		**34**		**72**		**14**		0.26	U	**50**		2.6	U	**160**	
HR-2/3	411B	6/27/2011	Base	5.3	U	11	U	**23**		**21**	J	**5.7**		0.26	U	**45**		2.6	U	**60**	J
HR-2/3	412B	6/27/2011	Base	5.3	U	11	U	**28**		**26**	J	5.3	U	0.27	U	**49**		2.7	U	**45**	J
HR-2/3	413D	6/27/2011	Duplicate	5.3	U	11	U	**32**		**21**	J	5.3	U	0.27	U	**46**		2.7	U	**36**	J
HR-2/3	414B	6/27/2011	Base	5.2	U	10	U	**28**		**17**	J	**5.9**		0.26	U	**47**		2.6	U	**33**	J
HR-2/3	415B	6/27/2011	Base	**6.9**		**20**		**32**		**58**	J	**32**		0.26	U	**53**		2.6	U	**170**	J
HR-2/3	416B	6/27/2011	Base	5.2	U	10	U	**23**		**28**	J	**8.4**		0.26	U	**39**		2.6	U	**160**	J
HR-2/3	417S	6/27/2011	Sidewall	5.3	U	11	U	**36**		**61**	J	**62**		0.27	U	**38**		2.7	U	**180**	J

Table 12
Results of Confirmation Sampling for HR-1, HR-2/3, and HR-5 - Metals

			Metals (mg/kg	Antimony		Arsenic		Chromium	Copper		Lead		Mercury		Nickel	Thallium		Zinc	
			Soil Cleanup Level (in mg/kg)	32		20		117	336		220		9		977	5.6		662	
Excavation Area	Abbreviated Sample ID	Sample Date	Sample Type																
HR-2/3	418S	6/27/2011	Sidewall	5.3	U	11	U	**26**	**37**	J	**8.6**		0.26	U	**43**	2.6	U	**110**	J
HR-2/3	419D	6/27/2011	Duplicate	5.3	U	11	U	**26**	**34**	J	**10**		0.26	U	**49**	2.6	U	**130**	J
HR-2/3	423S	6/27/2011	Sidewall	5.1	U	10	U	**36**	**72**	J	**8.7**		0.25	U	**35**	2.5	U	**180**	J
HR-2/3	424B	6/27/2011	Base	5.2	U	10	U	**30**	**27**		5.2	U	0.26	U	**61**	2.6	U	**38**	
HR-2/3	425D	6/27/2011	Duplicate	5.2	U	10	U	**25**	**29**	J	5.2	U	0.26	U	**50**	2.6	U	**33**	J
HR-2/3	426B	6/27/2011	Base	5.2	U	10	U	**18**	**16**	J	5.2	U	0.26	U	**41**	2.6	U	**31**	J
HR-2/3	427B	6/27/2011	Base	5.3	U	11	U	**24**	**28**		5.3	U	0.26	U	**50**	2.6	U	**34**	
HR-2/3	428B	6/27/2011	Base	5.3	U	11	U	**24**	**25**		**5.7**		0.26	U	**51**	2.6	U	**52**	
HR-2/3	429B	6/27/2011	Base	5.3	U	11	U	**28**	**29**		5.3	U	0.27	U	**45**	2.7	U	**34**	
HR-2/3	430B	6/27/2011	Base	5.3	U	11	U	**47**	**27**		5.3	U	0.26	U	**59**	2.6	U	**39**	
HR-2/3	431B	6/27/2011	Base	5.3	U	11	U	**34**	**39**		**14**		0.27	U	**60**	2.7	U	**64**	
HR-2/3	432B	6/27/2011	Base	5.2	U	10	U	**33**	**34**		**7.2**		0.26	U	**58**	2.6	U	**54**	
HR-2/3	433B	6/27/2011	Base	5.4	U	11	U	**28**	**40**		**8**		0.27	U	**43**	2.7	U	**46**	
HR-2/3	434B	6/27/2011	Base	6.2	U	12	U	**35**	**44**		**32**		0.31	U	**50**	3.1	U	**110**	
HR-2/3	435B	6/27/2011	Base	5.3	U	11	U	**36**	**110**		**26**		0.27	U	**46**	2.7	U	**110**	
HR-2/3	436B	6/27/2011	Base	5.4	U	11	U	**30**	**24**		5.4	U	0.27	U	**60**	2.7	U	**43**	
HR-2/3	437B	6/27/2011	Base	5.1	U	10	U	**17**	**34**		5.1	U	0.26	U	**34**	2.6	U	**31**	
HR-2/3	438S	7/12/2011	Sidewall	5.4	U	**14**		**42**	**100**		**45**		**0.32**		**50**	2.7	U	**590**	
HR-2/3	442S	7/12/2011	Sidewall	5.1	U	10	U	**35**	**96**		**7.4**		0.25	U	**49**	2.5	U	**120**	
HR-2/3	443B	7/12/2011	Base	5.4	U	11	U	**34**	**28**		**5.6**		0.27	U	**73**	2.7	U	**45**	
HR-2/3	444D	7/12/2011	Duplicate	5.4	U	11	U	**34**	**25**		5.4	U	0.27	U	**66**	2.7	U	**36**	
HR-2/3	445B	7/12/2011	Base	5.4	U	11	U	**26**	**23**		5.4	U	0.27	U	**52**	2.7	U	**32**	
HR-2/3	446B	7/12/2011	Base	5.4	U	11	U	**31**	**29**		**6.8**		0.27	U	**41**	2.7	U	**35**	
HR-2/3	447B	7/12/2011	Base	5.3	U	11	U	**25**	**17**		5.3	U	0.26	U	**37**	2.6	U	**33**	
HR-2/3	448B	7/12/2011	Base	5.2	U	10	U	**16**	**17**		5.2	U	0.26	U	**38**	2.6	U	**25**	
HR-2/3	449B	7/12/2011	Base	5.3	U	11	U	**27**	**16**		5.3	U	0.27	U	**50**	2.7	U	**40**	
HR-2/3	450B	7/12/2011	Base	5.2	U	10	U	**22**	**20**		5.2	U	0.26	U	**50**	2.6	U	**50**	
HR-2/3	451B	7/12/2011	Base	5.2	U	10	U	**21**	**17**		5.2	U	0.26	U	**51**	2.6	U	**36**	

Table 12
Results of Confirmation Sampling for HR-1, HR-2/3, and HR-5 - Metals

			Metals (mg/kg	Antimony		Arsenic		Chromium	Copper	Lead		Mercury		Nickel	Thallium		Zinc
			Soil Cleanup Level (in mg/kg)	32		20		117	336	220		9		977	5.6		662
Excavation Area	Abbreviated Sample ID	Sample Date	Sample Type														
HR-2/3	452B	7/12/2011	Base	5.2	U	10	U	**19**	**25**	5.2	U	0.26	U	**39**	2.6	U	**53**
HR-2/3	453B	7/12/2011	Base	5.2	U	10	U	**20**	**26**	5.2	U	0.26	U	**46**	2.6	U	**72**
HR-2/3	454S	7/12/2011	Sidewall	5.1	U	**11**		**25**	**46**	**11**		0.25	U	**48**	2.5	U	**110**
HR-2/3	455S	7/12/2011	Sidewall	5.1	U	**20**		**61**	**140**	**20**		0.25	U	**78**	2.5	U	**460**
HR-2/3	457D	7/12/2011	Duplicate	5.2	U	10	U	**32**	**51**	**35**		**0.69**	J	**69**	2.6	U	**54**
HR-2/3	458B	7/12/2011	Base	5.3	U	11	U	**26**	**20**	5.3	U	0.27	UJ	**48**	2.7	U	**32**
HR-2/3	459B	7/12/2011	Base	5.3	U	11	U	**22**	**15**	5.3	U	0.26	UJ	**49**	2.6	U	**26**
HR-2/3	460S	7/12/2011	Sidewall	5.2	U	**12**		**85**	**130**	**18**		0.26	UJ	**140**	2.6	U	**200**
HR-2/3	461S	7/12/2011	Sidewall	**8.8**		**14**		**40**	**78**	**18**		0.25	UJ	**50**	2.5	U	**260**
HR-2/3	462S	7/12/2011	Sidewall	5.1	U	10	U	**40**	**76**	**10**		0.25	UJ	**48**	2.5	U	**180**
HR-2/3	463B	7/12/2011	Base	5.3	U	11	U	**30**	**52**	**40**		0.26	UJ	**69**	2.6	U	**51**
HR-2/3	464D	7/12/2011	Duplicate	5.3	U	11	U	**22**	**17**	5.3	U	0.26	U	**40**	2.6	U	**28**
HR-2/3	465B	7/12/2011	Base	5.1	U	10	U	**29**	**60**	**12**		**0.26**	J	**42**	2.6	U	**230**
HR-2/3	466B	7/12/2011	Base	5.3	U	11	U	**24**	**16**	5.3	U	0.26	UJ	**49**	2.6	U	**25**
HR-2/3	467B	7/12/2011	Base	5.3	U	11	U	**15**	**12**	5.3	U	0.27	UJ	**41**	2.7	U	**21**
HR-2/3	468B	7/28/2011	Base	5.3	U	11	U	**33**	**23**	**5.4**		0.26	U	**64**	2.6	U	**48**
HR-2/3	469D	7/28/2011	Duplicate	5.3	U	11	U	**24**	**23**	5.3	U	0.26	U	**58**	2.6	U	**50**
HR-5[1]	249B	4/14/2011	Base					**62**	J								
HR-5[1]	250B	4/14/2011	Base					**56**	J								

Notes:

Bold = Detected result

J = Estimated value

U = Compound analyzed, but not detected above detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

Base = base of excavation; Sidewall = excavation sidewall

mg/kg = milligrams per kilogram

[1]Only chromium analysis was required in HR-5

Table 13
Results of Confirmation Sampling for HR-1 and HR-2/3 - TPH

		TPH (mg/kg)	Diesel Range Hydrocarbons		Residual Range Hydrocarbons	
		Analytical Method	NWTPH-Dx		NWTPH-Dx	
		Soil Cleanup Level (in mg/kg)	2,000		2,000	
Abbreviated Sample ID	Sample Date	Sample Type				
HR-1						
281B	5/6/2011	Base	30	U	59	U
282B	5/6/2011	Base	45	U	**400**	
283B	5/6/2011	Base	28	U	55	U
284S	5/6/2011	Sidewall	27	U	54	U
285S	5/6/2011	Sidewall	28	U	**76**	
286S	5/6/2011	Sidewall	28	U	**62**	
287S	5/6/2011	Sidewall	27	U	54	U
HR-2/3						
271B	5/6/2011	Base	27	U	54	U
272B	5/6/2011	Base	27	U	54	U
273B	5/6/2011	Base	28	U	56	U
274B	5/6/2011	Base	27	U	54	U
275B	5/6/2011	Base	28	U	55	U
276B	5/6/2011	Base	27	U	54	U
278S	5/6/2011	Sidewall	27	U	55	U

Notes:
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit
Base = base of excavation; Sidewall = excavation sidewall
mg/kg = milligrams per kilogram
TPH = total petroleum hydrocarbon

Table 14

Results of Confirmation Sampling for HR-2/3, HR-4, and HR-5 - PAHs

		PAH (µg/kg)	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total Carcinogenic PAHs
Abbreviated Sample ID	**Sample Date**	**Sample Type**								
HR-2/3										
258S	5/6/2011	Sidewall	**78**	**84**	**69**	**66**	**90**	**20**	**49**	**113**
313S	5/25/2011	Sidewall	**14**	**14**	**17**	**13**	**21**	6.9 U	**9.1**	**20**
314D	5/25/2011	Duplicate	**22**	**24**	**24**	**22**	**28**	6.9 U	**14**	**33**
341S	6/7/2011	Sidewall	**26**	**21**	**22**	**17**	**29**	6.8 U	**10**	**29**
HR-4										
261B	5/6/2011	Base	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
262S	5/6/2011	Sidewall	**46**	**57**	**47**	**39**	**57**	**14**	**46**	**77**
263S	5/6/2011	Sidewall	**41**	**52**	**58**	**31**	**64**	**32**	**61**	**75**
264S	5/6/2011	Sidewall	**41**	**64**	**70**	**52**	**75**	**51**	**65**	**93**
265S	5/6/2011	Sidewall	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
HR-5										
248B	4/14/2011	Base	7.3 U	7.3 U	7.3 U		7.3 U	7.3 U	7.3 U	7.3 U

Notes:

Bold = Detected result

U = Compound analyzed, but not detected above detection limit

µg/kg = micrograms per kilogram

PAH = polycyclic aromatic hydrocarbons

Total carcinogenic PAHs are calculated using the Toxicity Equivalency Factors in Table 708-2 per WAC 173-340-708(e)

The total carcinogenic PAHs cleanup level is 140 µg/kg

Table 15

Results of Confirmation Sampling for HR-2/3 - Dioxin Furans

Abbreviated Sample ID	274B
Sample Date	5/6/2011
Sample Type	Base
Dioxin Furans (ng/kg)	
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.22 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	**0.17 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	**0.21 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	**0.45 J**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	**0.23 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	**14**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	**140 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	**0.3 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	**0.13 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	**0.27 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	**0.22 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	**0.37 J**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.12 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	**0.12 J**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	**2.4 J**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	**0.29 J**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	**11**
Total Tetrachlorodibenzo-p-dioxin (TCDD)	**1.6**
Total Tetrachlorodibenzofuran (TCDF)	**1.6**
Total Pentachlorodibenzo-p-dioxin (PeCDD)	**2.1 J**
Total Hexachlorodibenzo-p-dioxin (HxCDD)	**4 J**
Total Heptachlorodibenzo-p-dioxin (HpCDD)	**29**
Total Pentachlorodibenzofuran (PeCDF)	**1.9 J**
Total Hexachlorodibenzofuran (HxCDF)	**3.4 J**
Total Heptachlorodibenzofuran (HpCDF)	**9.9**

Notes:

Bold = Detected result

J = Estimated value

U = Compound analyzed, but not detected above detection limit

ng/kg = nanograms per kilogram

Table 16
Results of Confirmation Sampling for Stockpile Bunkers - Metals

Metals (mg/kg)			Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Soil Cleanup Level (in mg/kg)			32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
West Bunker (BNKR-W)											
368B	6/7/2011	Base	5.4 U	11 U	**42**	**69**	**14**	0.27 U	**54**	2.7 U	**300**
369D	6/7/2011	Duplicate	5.4 U	11 U	**36**	**75**	**16**	**0.42**	**48**	2.7 U	**250**
370B	6/7/2011	Base	5.2 U	10 U	**35**	**29**	5.2 U	0.26 U	**110**	2.6 U	**120**
371B	6/7/2011	Base	5.2 U	10 U	**36**	**67**	**13**	0.26 U	**43**	2.6 U	**120**
372B	6/7/2011	Base	5.2 U	10 U	**32**	**50**	**9.1**	0.26 U	**45**	2.6 U	**110**
373S	6/7/2011	Sidewall	5.2 U	10 U	**33**	**55**	5.2 U	0.26 U	**36**	2.6 U	**100**
374S	6/7/2011	Sidewall	5.2 U	10 U	**30**	**73**	**6**	0.26 U	**31**	2.6 U	**89**
376S	6/7/2011	Sidewall	**5.4**	**16**	**55**	**94**	**13**	0.26 U	**62**	2.6 U	**250**
377S	6/7/2011	Sidewall	5.2 U	10 U	**33**	**96**	**11**	0.26 U	**35**	2.6 U	**120**
378S	6/7/2011	Sidewall	5.2 U	**15**	**37**	**97**	**15**	0.26 U	**35**	2.6 U	**180**
403S	6/14/2011	Sidewall	5.1 U	10 U	**66**	**100**	**19**	0.25 U	**82**	2.5 U	**310**
404B	6/14/2011	Base	5.2 U	10 U	**23**	**27**	5.2 U	0.26 U	**47**	2.6 U	**60**
East Bunker (BNKR-E)											
352B	6/7/2011	Base	5.6 U	11 U	**30**	**70**	**73**	0.28 U	**30**	2.8 U	**70**
353B	6/7/2011	Base	5.8 U	12 U	**38**	**95**	**140**	**0.43**	**35**	2.9 U	**120**
355S	6/7/2011	Sidewall	**5.4**	**16**	**43**	**75**	**18**	0.26 U	**49**	2.6 U	**200**
356S	6/7/2011	Sidewall	5.4 U	11 U	**38**	**83**	**19**	**0.33**	**41**	2.7 U	**270**
399S	6/14/2011	Sidewall	5.1 U	10 U	**40**	**84**	**13**	0.26 U	**44**	2.6 U	**150**
400S	6/14/2011	Sidewall	5.1 U	10 U	**34**	**86**	**11**	0.26 U	**40**	2.6 U	**140**
401B	6/14/2011	Base	5.2 U	10 U	**27**	**52**	**14**	0.26 U	**25**	2.6 U	**75**
402D	6/14/2011	Duplicate	5.2 U	10 U	**24**	**42**	**14**	0.26 U	**24**	2.6 U	**57**

Notes:

Bold = Detected result

J = Estimated value

U = Compound analyzed, but not detected above detection limit

Base = base of excavation; Sidewall = excavation sidewall

mg/kg = milligrams per kilogram

Table 17
Results of Concrete Testing - Metals

Metals (mg/kg)			Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Soil Cleanup Level (in mg/kg)			32	20	117	336	220	9	977	5.6	662
Abbreviated Sample ID	Sample Date	Sample Type									
CO189	8/23/2010	Concrete	**5.4**	**10**	**16**	**45**	**15** J	**0.33**	**25**	2.5 U	**52**
CO190	8/23/2010	Concrete	5 U	10 U	**15**	**36**	**17** J	0.25 U	**17**	2.5 U	**41**
CO191	8/23/2010	Concrete	**9**	10 U	**14**	**41**	**260** J	**2.7**	**16**	2.5 U	**40**
CO192	8/23/2010	Concrete	**39**	**93**	**31**	**100**	**18** J	0.25 U	**46**	2.5 U	**90**
CO204	9/23/2010	Concrete	5.6 U	11 U	**24**	**110**	**58**	0.28 U	**23**	2.8 U	**300**
CO295	9/23/2010	Concrete	5.8 U	12 U	**25**	**150**	**73**	0.29 U	**23**	2.9 U	**130**
CO206	10/11/2010	Concrete	5.5 U	11 U	**11**	**33**	**170**	0.28 U	**11**	2.8 U	**100**
CO328	5/25/2011	Concrete	5 U	10 U	**15** J	**12** J	5 U	0.25 UJ	**17** J	2.5 U	**47** J
CO329	5/25/2011	Concrete	5 U	10 U	**4.9** J	**28** J	5 U	0.25 UJ	**4.3** J	2.5 U	**100** J
CO330	5/25/2011	Concrete	5 U	10 U	**11** J	**11** J	**8**	0.25 UJ	**15** J	2.5 U	**56** J

Notes:

Bold = Detected result

Shading indicates a result above site cleanup levels

J = Estimated value

U = Compound analyzed, but not detected above detection limit

UJ = Compound analyzed, but not detected above estimated detection limit

mg/kg = milligrams per kilogram

FIGURES

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-006.dwg Vicinity Map

Feb 01, 2012 12:12pm tgriga

SOURCE: Drawing prepared from USGS quadrangle of Anacortes NAD83 North.
HORIZONTAL DATUM: Washington State Plane North, NAD83.

ANCHOR QEA

Figure 1
Vicinity Map
Former Scott Paper Mill Site
Anacortes, WA

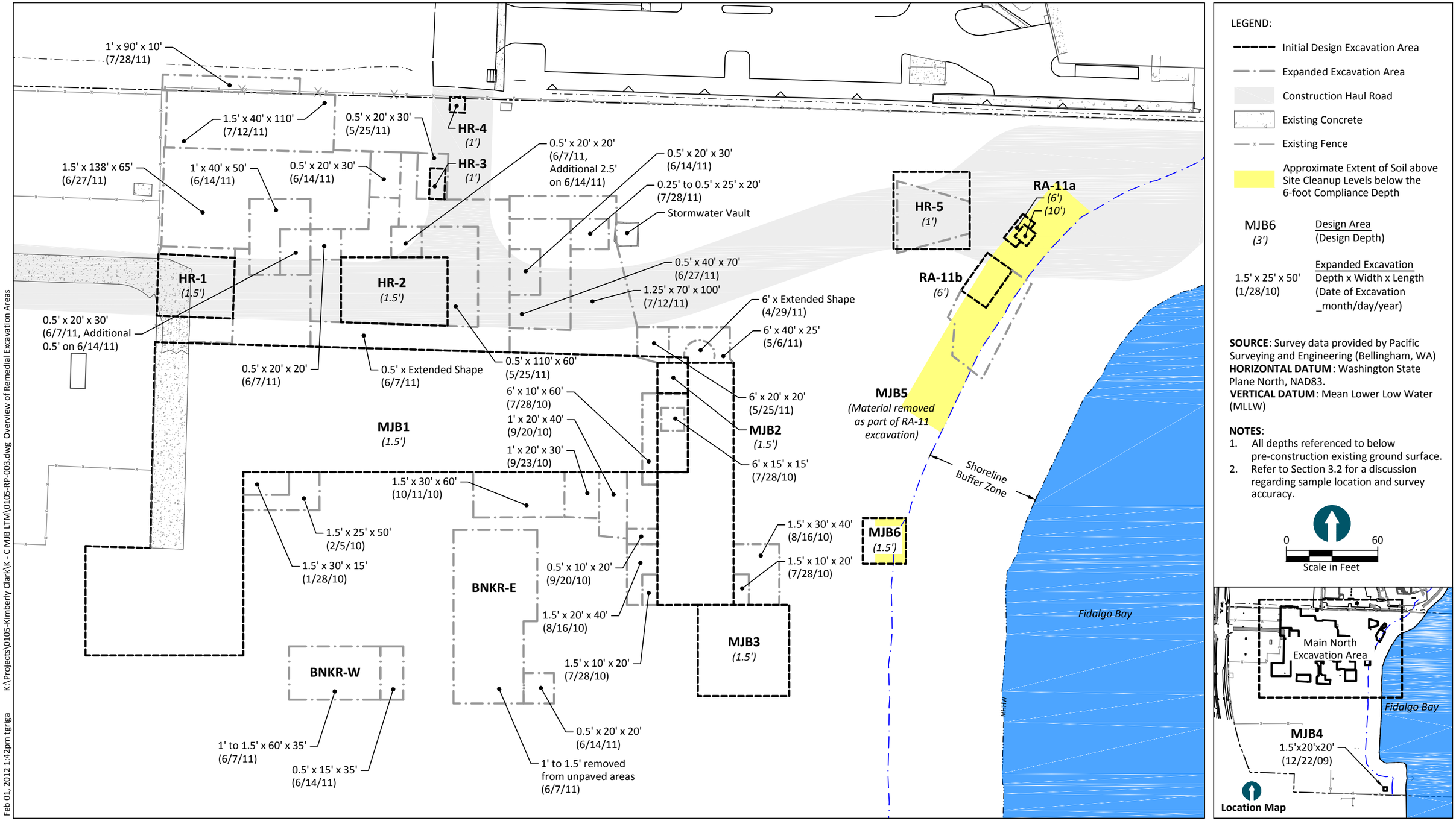
K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-005.dwg Site Plan

Feb 01, 2012 12:12pm tgriga

SOURCE: Aerial Image from ESRI 2007.
HORIZONTAL DATUM: Washington State Plane North, NAD83.

ANCHOR QEA

Figure 2
Site Plan
Former Scott Paper Mill Site
Anacortes, WA



LEGEND:

- Initial Design Excavation Area
- Expanded Excavation Area
- Construction Haul Road
- Existing Concrete
- Existing Fence
- Approximate Extent of Soil above Site Cleanup Levels below the 6-foot Compliance Depth

MJB6 *(3')* — Design Area (Design Depth)

1.5' x 25' x 50' (1/28/10) — Expanded Excavation Depth x Width x Length (Date of Excavation _month/day/year)

SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83.
VERTICAL DATUM: Mean Lower Low Water (MLLW)

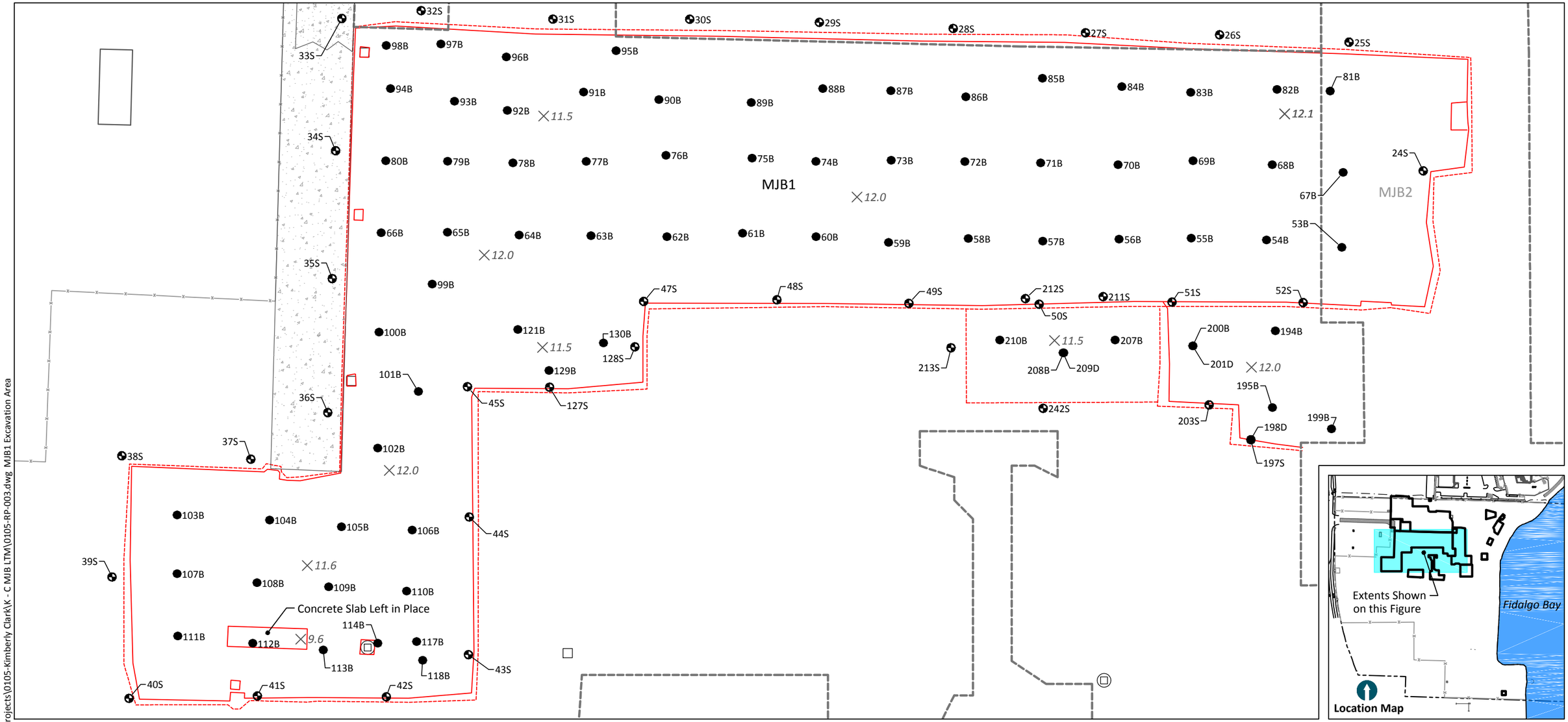
NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

0 60
Scale in Feet

Feb 01, 2012 1:42pm tgriga K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg Overview of Remedial Excavation Areas

ANCHOR QEA

Figure 3
Overview of Remedial Excavation Areas
Former Scott Paper Mill Site
Anacortes, WA



SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet

NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

LEGEND:

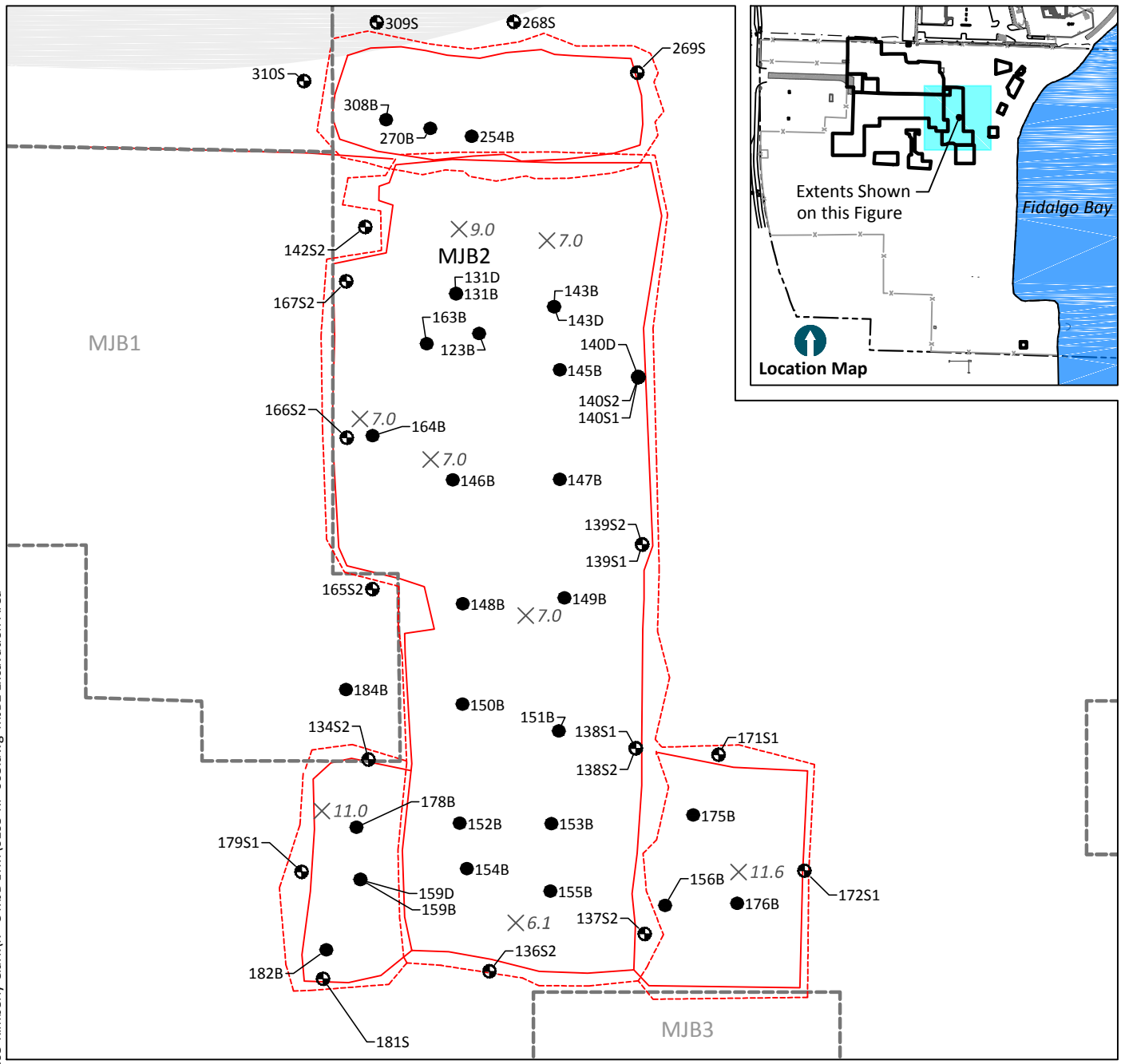
- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Existing Concrete
- Existing Storm Drain/Catch Basin
- Existing Fence

0 30
Scale in Feet

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg MJB1 Excavation Area
Feb 01, 2012 12:12pm tgriga

ANCHOR QEA

Figure 4
MJB1 Excavation Area
Former Scott Paper Mill Site
Anacortes, WA



SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet
NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

LEGEND:

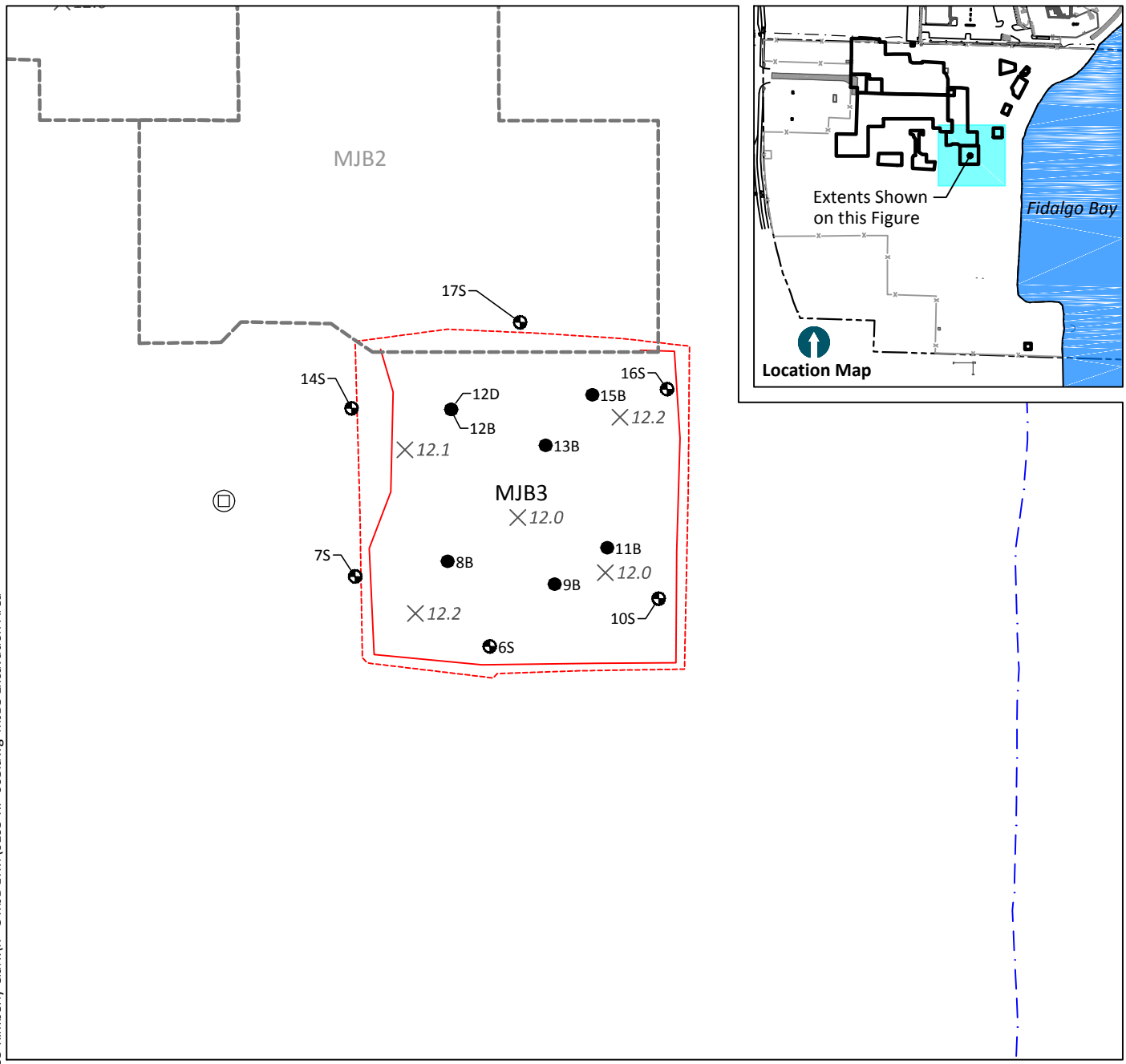
- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Existing Concrete

0 30
Scale in Feet

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg MJB2 Excavation Area
Feb 01, 2012 12:12pm tgriga

Figure 5
MJB2 Excavation Area
Former Scott Paper Mill Site
Anacortes, WA

ANCHOR QEA



SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet
NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

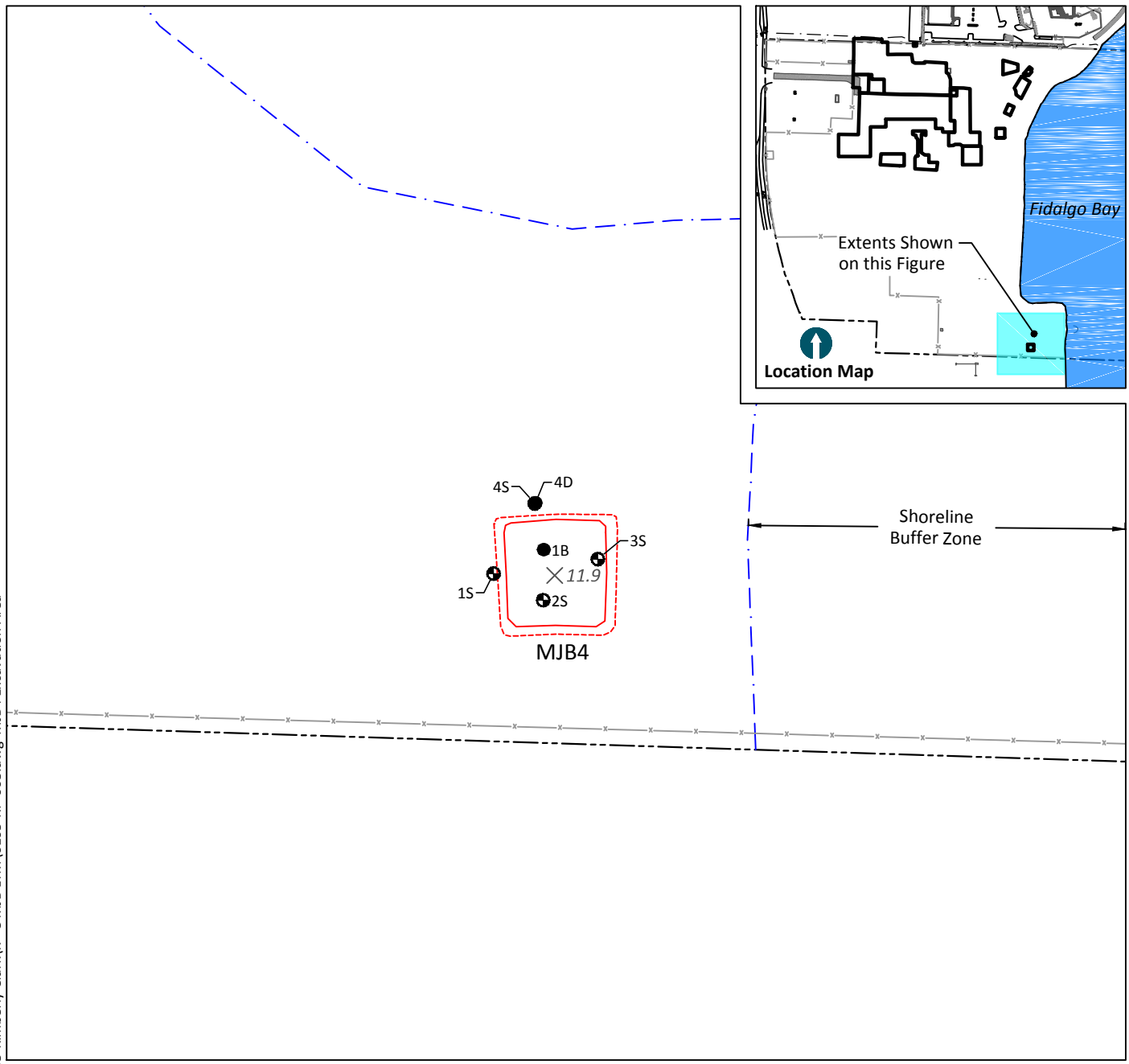
LEGEND:

- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Existing Concrete

0 30
Scale in Feet

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg MJB3 Excavation Area
Feb 01, 2012 12:12pm tgriga

Figure 6
MJB3 Excavation Area
Former Scott Paper Mill Site
Anacortes, WA



SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet
NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

LEGEND:

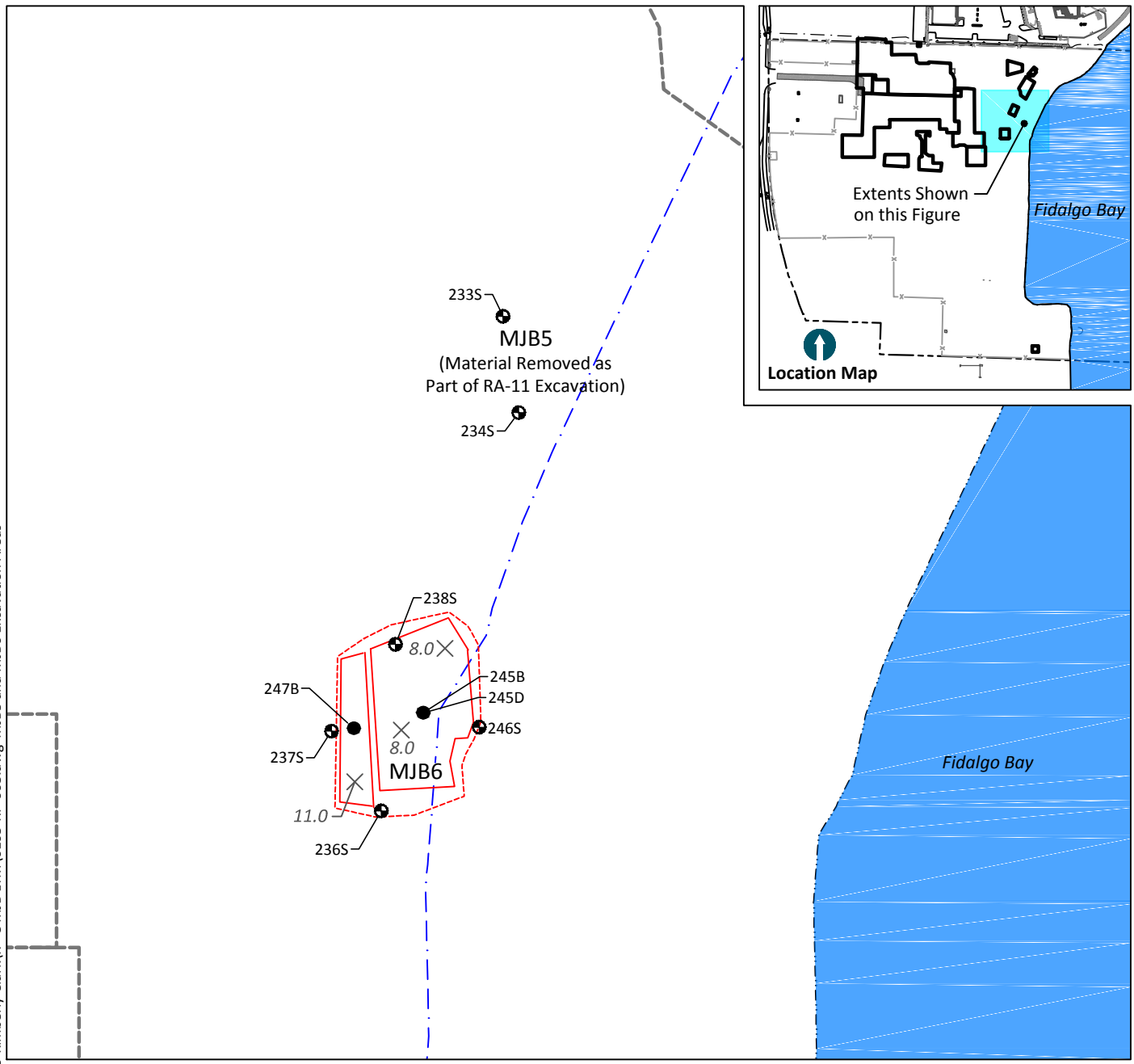
- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Existing Concrete

0 30
Scale in Feet

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg MJB4 Excavation Area
Feb 01, 2012 12:12pm tgriga

Figure 7
MJB4 Excavation Area
Former Scott Paper Mill Site
Anacortes, WA

ANCHOR QEA



K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg MJB5 and MJB6 Excavation Areas

Feb 01, 2012 12:12pm tgriga

SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet
NOTES:

1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

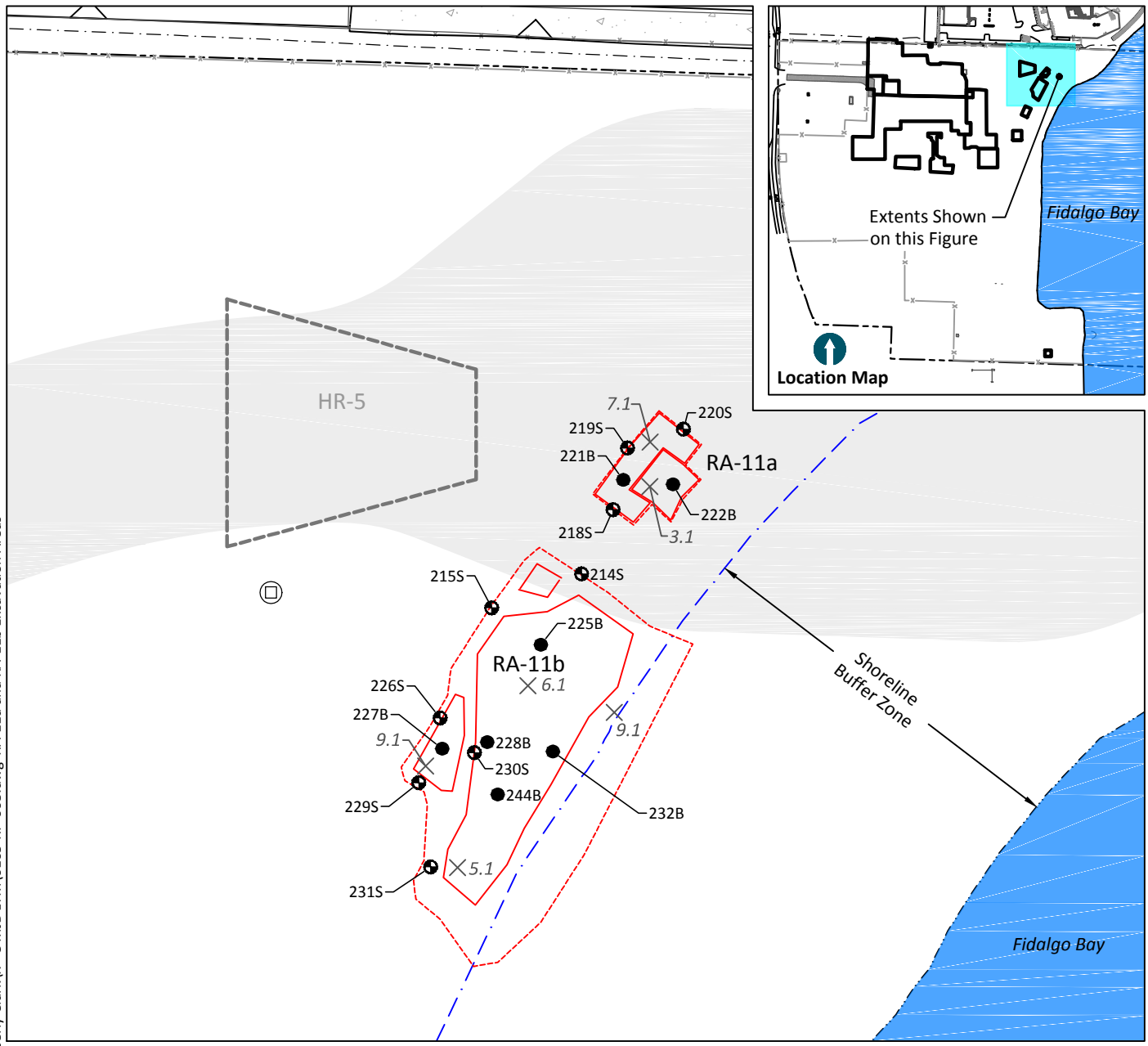
LEGEND:

- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Existing Concrete

0 30
Scale in Feet

Figure 8
MJB5 and MJB6 Excavation Areas
Former Scott Paper Mill Site
Anacortes, WA

ANCHOR QEA



SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet
NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

LEGEND:

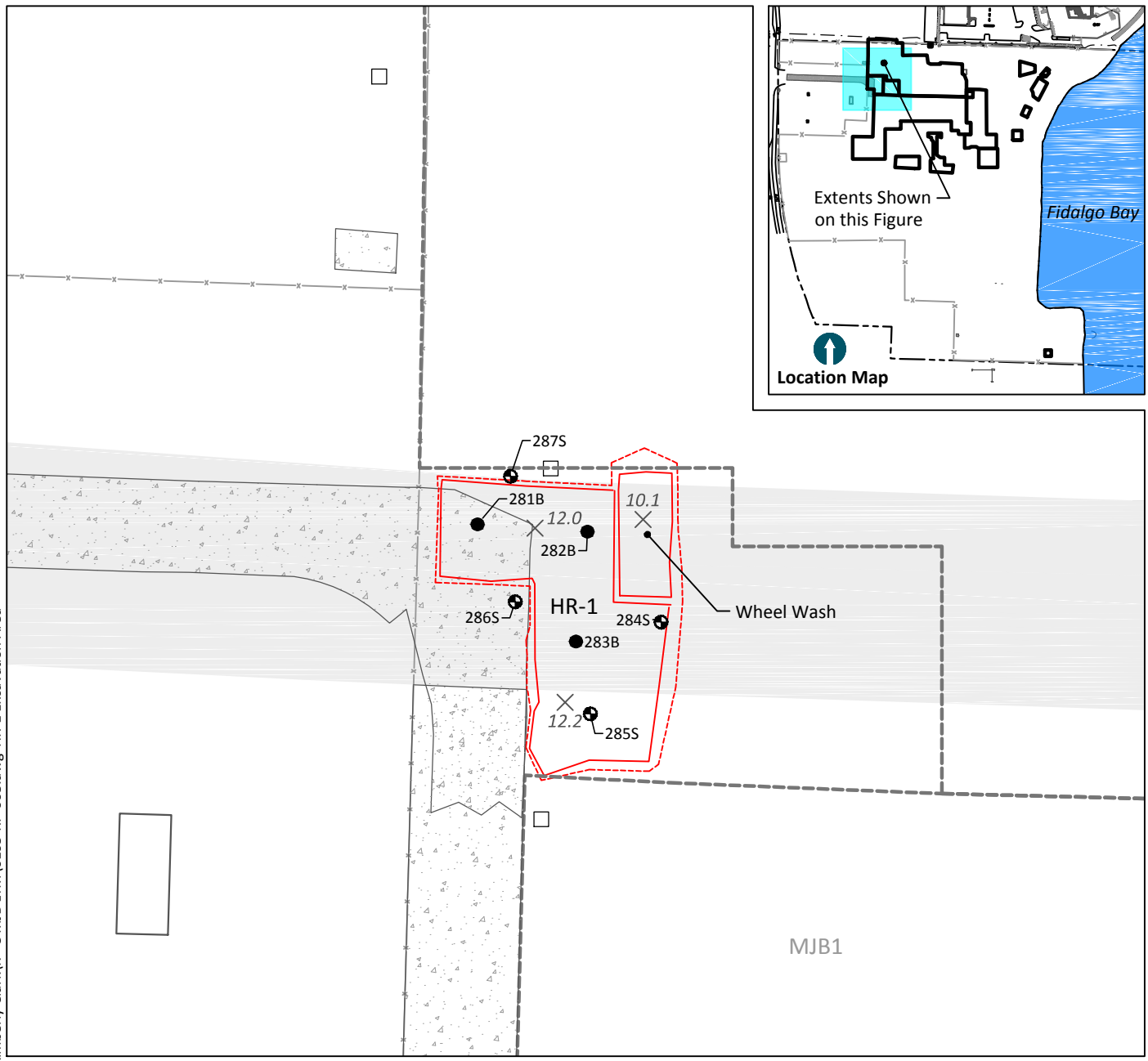
- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Existing Storm Drain/Catch Basin
- Construction Haul Road

0 30
Scale in Feet

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg RA-11a and RA-11b Excavation Areas
Feb 01, 2012 1:47pm tgriga

Figure 9
RA-11a and RA-11b Excavation Areas
Former Scott Paper Mill Site
Anacortes, WA

ANCHOR QEA



SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet
NOTES:

1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

LEGEND:

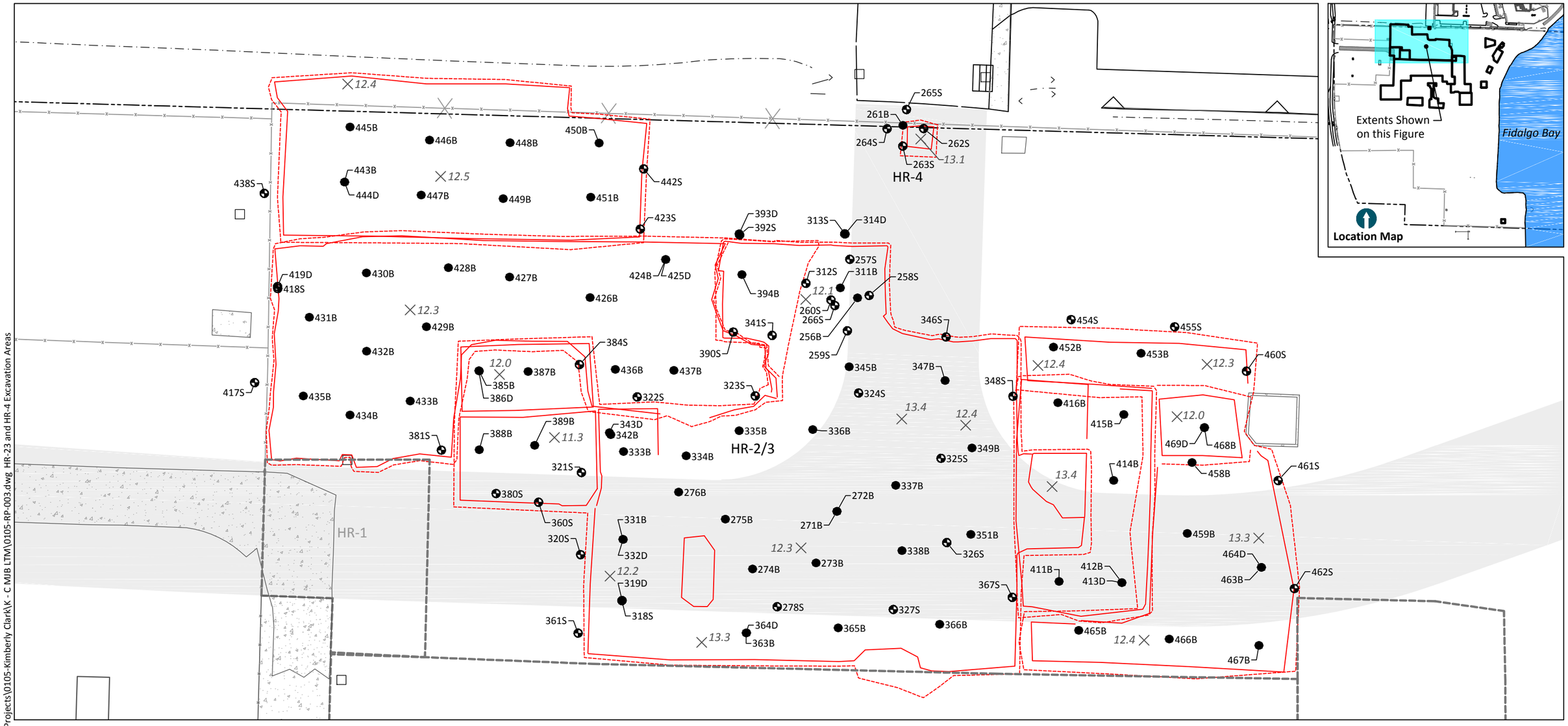
- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Construction Haul Road
- Existing Concrete
- Existing Storm Drain/ Catch Basin
- Existing Fence

0 30
Scale in Feet

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg HR-1 Excavation Area
Feb 01, 2012 12:12pm tgriga

ANCHOR QEA

Figure 10
HR-1 Excavation Area
Former Scott Paper Mill Site
Anacortes, WA



K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg HR-23 and HR-4 Excavation Areas

Feb 01, 2012 12:13pm tgriga

SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet

NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

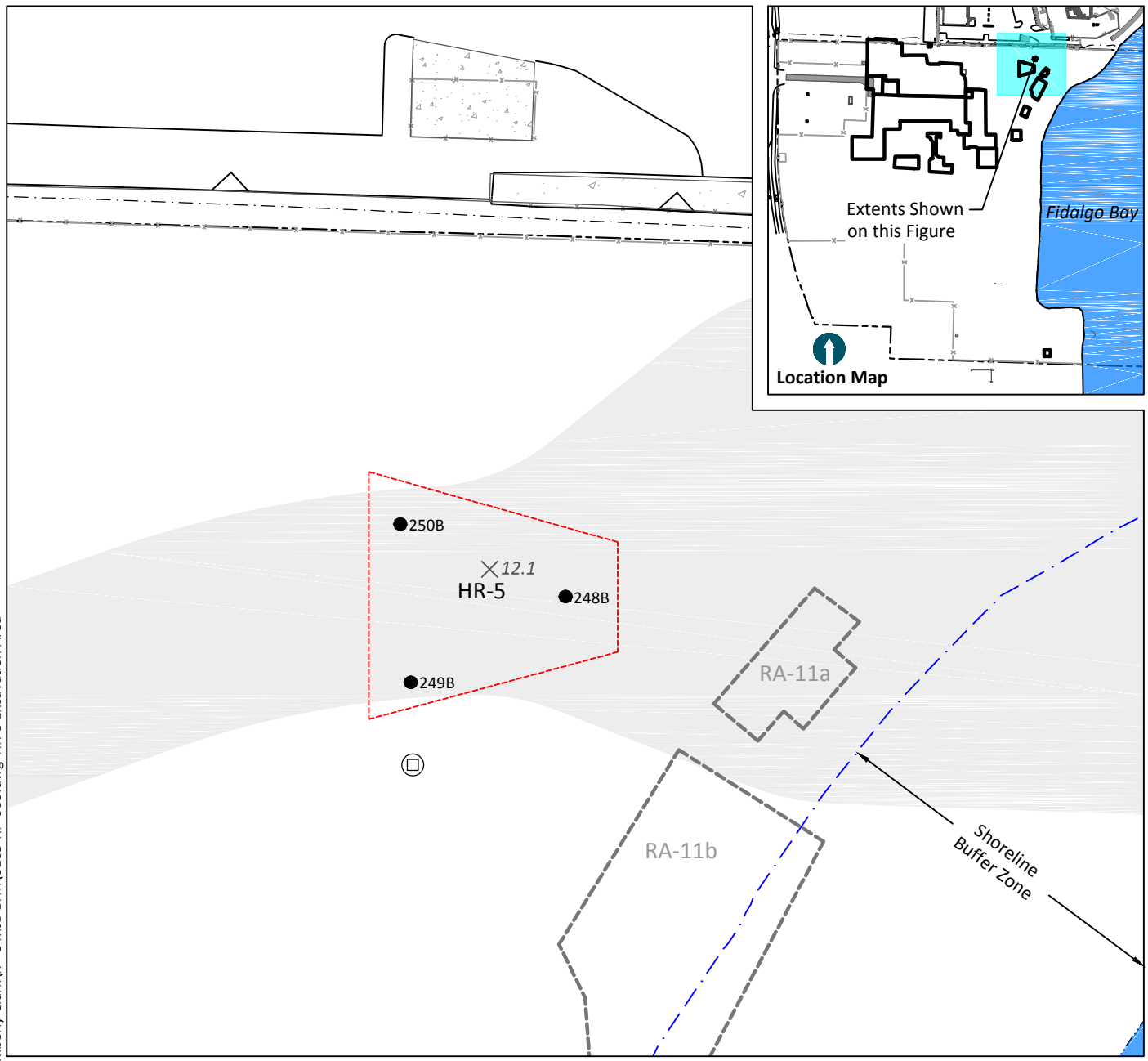
LEGEND:

- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Construction Haul Road
- Existing Concrete
- Existing Storm Drain/Catch Basin
- Existing Fence

0 30
Scale in Feet

ANCHOR QEA

Figure 11
HR-2/3 and HR-4 Excavation Areas
Former Scott Paper Mill Site
Anacortes, WA



SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet
NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

LEGEND:

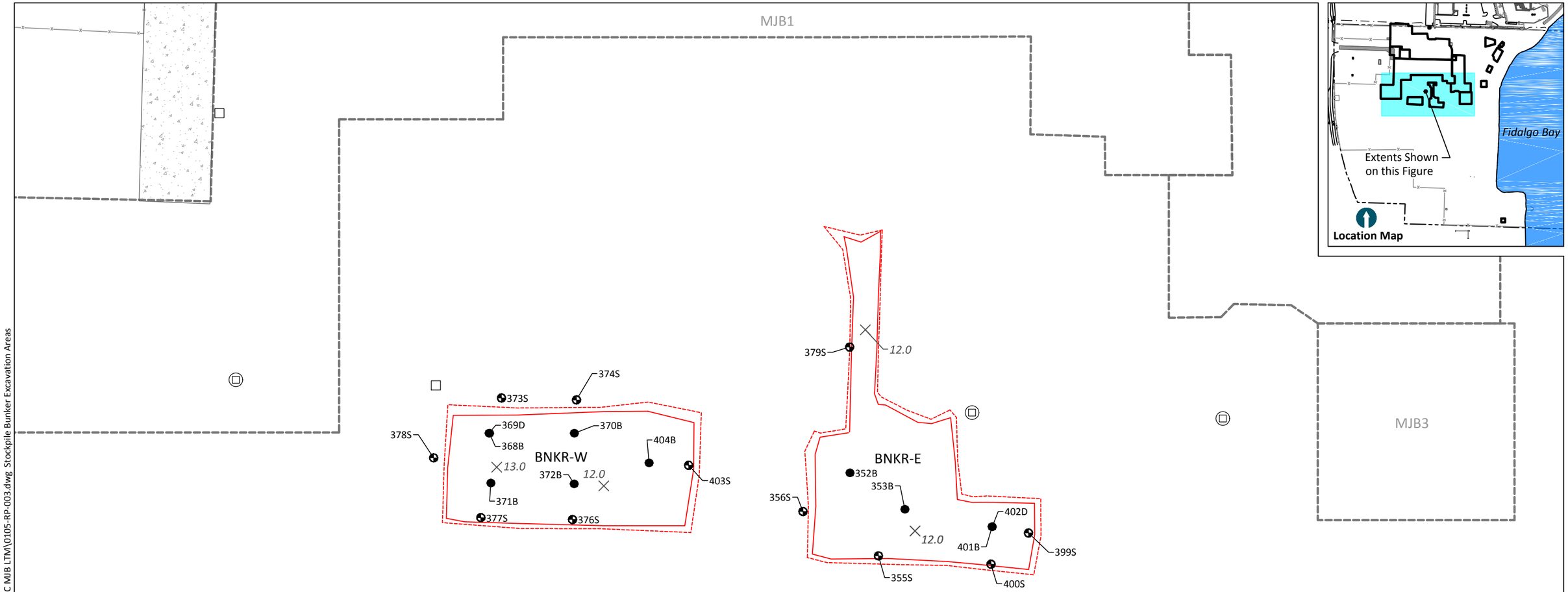
- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Construction Haul Road
- Existing Concrete
- Existing Storm Drain/ Catch Basin
- Existing Fence

0 30
Scale in Feet

K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg HR-5 Excavation Area
Feb 01, 2012 1:46pm tgriga

ANCHOR QEA

Figure 12
HR-5 Excavation Area
Former Scott Paper Mill Site
Anacortes, WA



K:\Projects\0105-Kimberly Clark\K - C MJB LTM\0105-RP-003.dwg Stockpile Bunker Excavation Areas

Feb 01, 2012 12:13pm tgriga

SOURCE: Survey data provided by Pacific Surveying and Engineering (Bellingham, WA)
HORIZONTAL DATUM: Washington State Plane North, NAD83, U.S. Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet

NOTES:
1. All depths referenced to below pre-construction existing ground surface.
2. Refer to Section 3.2 for a discussion regarding sample location and survey accuracy.

LEGEND:

- Base Sample
- Side Sample
- 12.0 Spot Elevation at Base of Excavation (Feet MLLW, Approximated)
- Excavation Area Toe of Slope
- Excavation Area Top of Slope
- Adjacent Excavation Areas
- Existing Storm Drain/Catch Basin
- Existing Fence

0 30
Scale in Feet

ANCHOR QEA

Figure 13
Stockpile Bunker Excavation Areas
Former Scott Paper Mill Site
Anacortes, WA

APPENDIX A
FINAL PLANS, SPECIFICATIONS, AND SUPPLEMENTAL DESIGN BULLETINS

FORMER SCOTT PAPER MILL CLEANUP PROJECT – PHASE 4

TECHNICAL SPECIFICATIONS

Prepared for

Kimberly-Clark Corporation

Prepared by

Anchor QEA, LLC

1423 Third Avenue, Suite 300

Seattle, WA 98101

October 2009

List of Sections

List of Attachments

BID DESCRIPTIONS

Item 1: Mobilization

Mobilization consists of preconstruction expenses and the costs of preparatory work and operations performed by the Contractor that occur before 10-percent of the total original Contract amount is earned from other Contract items. Items that are not to be included in Item 1 include but are not limited to:

1) Any portion of the Work covered by the specific Contract item or incidental work that is to be included in a Contract item or items.
2) Profit, interest on borrowed money, overhead, or management costs.

Based on the lump sum Contract price for "Mobilization," partial payments will be made as follows:

1) When 5-percent of the total original Contract amount is earned from other Contract items, excluding amounts paid for materials on hand, 50-percent of the amount Bid for mobilization, or 5-percent of the total original Contract amount, whichever is the least, will be paid.
2) When 10-percent of the total original Contract amount is earned from other Contract items, excluding amounts paid for materials on hand, 100-percent of the amount Bid for mobilization, or 10-percent of the total original Contract amount, whichever is the least, will be paid.

Nothing herein shall be construed to limit or preclude partial payments otherwise provided by the Contract.

Item 2: Construction Surveying

Work under this item includes all construction surveying required to layout the Work, document the final extent of remedial excavation, and perform volume calculations to compute of payment quantities, in accordance with the Contract Drawings and Specification 02050. Work under this item shall also include all material and labor necessary to stake utilities located by the Owner's utility locating subcontractor. Surveys of final excavation limits shall be performed by a Professional Surveyor licensed in Washington.

No specific method of measurement will apply to the lump sum item of "Construction Surveying".

Payment will be made for the following Bid item, at the unit price shown in the bid form:

- "Construction Surveying", lump sum.

Item 3: ESC Lead

Work under this item includes providing an Erosion and Sediment Control (ESC) Lead to the implement the Erosion Control and Stormwater Pollution Prevention Plan.

ESC Lead will be measured per day for each day that an inspection is made and a report is filed.

Payment will be made for the following bid item, at the unit price shown in the bid form:

- "ESC Lead", per day.

Items 4 – 5: Silt Fence and Inlet Protection

Work under this item includes furnishing, installing, maintaining, removing, and disposing of erosion control items, in accordance with the Drawings and Specifications.

Inlet Protection will be measured per each for each initial installation at a drainage structure. Silt fence will be measured by the linear foot along the ground line of completed barrier.

Payment will be made for the following Bid items, at the unit price shown in the Bid Form:

- "Silt Fence", per linear foot
- "Inlet Protection", per each

Item 6: Storm Drain Repair

Work under this item includes furnishing and installing storm drain pipes and associated drainage structures and connections that are removed to facilitate the work described in Item 8 Remedial Excavation. This item also includes furnishing, placing, grading, and compacting necessary pipe bedding to meet the requirements in the Drawings and Specifications.

Storm Drain repair shall be measured per linear foot of repair.

Payment will be made for the following Bid items, as the unit price shown in the Bid Form:

- "Storm Drain Repair", per linear foot

Item 7: Well Abandonment

Work under this item includes the abandonment of monitoring well(s) by a driller licensed in the state of Washington in accordance with the Drawings, Specifications, and WAC 173-160, including preparation and submittal of all required documentation for proper abandonment.

Well Abandonment shall be measured per each well removed.

Payment will be made for the following Bid item, at the unit price shown in the Bid Form:

- "Well Abandonment", per each

Item 8: Phase 4A Remedial Excavation

Work under this item includes all required activities to excavate and handle contaminated soil from within the proposed remedial excavation areas, as designated by the Owner and the Drawings. Item 8 includes a base amount of soil excavation calculated using existing site data from chemical analytical testing. The Owner's estimated minimum amount of soil to be removed is 2,450 cubic yards. Additional excavation may be required to meet the cleanup requirements for the Site, as directed by Owner.

Work under this item also includes, but is not limited to, the following components associated with remedial excavation: clearing of vegetation; removal of existing pavement areas, installing and maintaining dewatering systems and water disposal; installing and maintaining shoring systems; diverting, maintaining, and replacing (if necessary, other than those noted in Item 6) all utilities encountered within excavation areas; and installing all other control measures needed to protect partially completed work and prevent sediment transport from exposed soil surfaces to surface water or adjacent non-work areas.

Payment for remedial excavation activities associated with Item 8 shall be made on a cubic yards of excavated material basis at the unit price stated in the Contractor's bid price for this pay item. The final limits of excavation will be determined by the Owner. Contingent soil beyond the estimated 2,450 cubic yard excavation may be elected by the Owner to complete the remedial action. Contingent soil excavation will be paid on a per cubic yard basis at the Contractor's bid price for this item (Item 9).

Measurement for this pay item shall be determined on the basis of excavation-limit surveying performed by the Contractor as approved by Owner.

Item 9: Phase 4A Transportation and Off-site disposal of Debris and Subtitle D Soil.

Work under this item includes all handling, amendment, loading, and transporting contaminated soil for disposal at an Owner-approved RCRA Subtitle D Landfill. Item 9 includes transportation and disposal of an estimated 4,040 tons of contaminated soil. All materials must meet all transportation and disposal requirements including, but not limited to allowable limits on free liquids. This amount of contaminated soil is an estimate, and the actual amount of contaminated soil to be disposed of under Item 9 may be more or less than this estimate, based on actual field conditions.

Payment for transport and disposal of all contaminated soil, including the estimated base tonnage (4,040 tons) and any contingent contaminated soil that may require transport and disposal, shall be on the basis of tons of such material, at the unit price stated in the Contractor's bid price for this pay item.

Measurement for this pay item shall be determined on the basis of disposal records (e.g., weight tickets) provided by Owner-approved landfill.

Item 10: Phase 4A Purchase, Deliver, and Place Excavation Marker

Work under this item includes furnishing and placing an Owner-approved marker (e.g., geotextile or construction safety fencing) at the base of the remedial excavation areas where soil greater than Site cleanup levels has been left in place in accordance with the Cleanup Action Plan.

Measurement for this item shall be determined on the basis of excavation-limit surveying performed by the Contractor as approved by Owner. Payment will be made for the following Bid item, at the unit price shown in the Bid Form:

- "Phase 4A Purchase, Deliver, and Place Excavation Marker", per square foot

Item 11: Phase 4A Purchase, Deliver, Place, Compact, and Grade Imported Quarry Spalls

Work under this item includes all activities associated with the purchase and transport of imported backfill to the site as described in the Drawings and Specifications. This work includes purchasing and transporting certified clean material, as approved by the Owner, in accordance with the Drawings and Specifications. The quantity estimate for Item 11 is 3,600 tons of quarry spalls, but the actual amount of material that may be required to achieve the designated final grade may be more or less than this estimate.

Payment for backfilling activities shall be on the basis of tons of quarry spalls purchased and transported to the site, including the estimated base tonnage (3,600 tons) and any contingent backfilling that may be required, at the unit price stated in the Contractor's bid price for this pay item. Measurement for this pay item shall be determined on the basis of purchase records.

Item 12: Phase 4A Purchase, Deliver, Place, Compact, and Grade Imported Crushed Rock

Work under this item includes all activities associated with the purchase and transport of imported backfill to the site as described in the Drawings and Specifications. This work includes purchasing and transporting certified clean material, as approved by the Owner, in accordance with the Drawings and Specifications. The quantity estimate for Item 12 is 440 tons of crushed, but the actual amount of material that may be required to achieve the designated final grade may be more or less than this estimate.

Payment for backfilling activities shall be on the basis of tons of crushed rock purchased and transported to the site, including the estimated base tonnage (440 tons) and any contingent backfilling that may be required, at the unit price stated in the Contractor's bid price for this pay item. Measurement for this pay item shall be determined on the basis of purchase records.

SECTION 01010

DESCRIPTION OF WORK

PART 1 – GENERAL

1.1 SUMMARY

Work shall include all construction and installation tasks identified in the Drawings and Specifications and generally including the following:

A. Implementation of the Erosion Control and Stormwater Pollution Prevention Plan.

B. Installation temporary site features to control access to the work.

C. Installation of temporary office and sanitary facilities.

D. Abandonment of an existing monitoring well (prior to excavation work).

E. Excavation and disposal of contaminated soil impacted by metals and PAHs above MTCA Method A Cleanup Levels, potentially including demolition and disposal of pavement and dewatering of excavation areas as may be required to complete the work.

F. Backfill and grading of excavation areas.

G. Restoration of utilities interrupted or removed to allow excavation.

1.2 DEFINITIONS

A. Owner shall refer to Kimberly-Clark Corporation.

B. Contractor shall refer to RAM General Construction Contractors, Inc.

1.3 COOPERATION WITH OTHERS

The Work described in these Specifications is to be performed on property owned by MJB Properties LLC (MJB). The Owner, the Owner's Representative(s), other Contractors hired by the Owner, and MJB and its tenants will perform work at and adjacent to the work site during this Contract. The Owner will make reasonable effort to provide the Contractor with an understanding of this other work during regular project meetings. The Contractor shall cooperate with all other contractors or forces. The Contractor shall carry out Work under this project in a way that will minimize interference and delay for all parties involved. The Owner will resolve any disagreements that may arise among the contractors or the Contractor over the method or order of doing the work.

Temporary structures and obstructions owned by MJB and its tenants may be located within the designated Work Area shown on Sheet G-3 of the Contract Drawings. The Contractor shall provide a minimum of two weeks notice to the Owner when requesting relocation of these temporary structures and obstructions. The coordination of the Work shall be taken into account by the Contractor as part of the site investigation and any resulting costs for coordination shall be incidental and included within the unit Bid prices in the Contract.

Anticipated work to be performed by others during contract work includes, but is not limited to the following:

- Phase 2 Construction Work. The Phase 2 Work Area is shown in the Phasing and Access Control Plans, Sheets G1.3 – G1.6 in the Phase 2 Contract Drawings for the Port of Anacortes Project ENV-01B. This work area, and the Phase 2 Construction Haul Route, will be in continuous use, beginning July 15, 2009. The Contractor shall coordinate use of the Haul Road and Wheel Wash with the Phase 2 Contractor, as needed.
- A section of the High Visibility Fencing shown on Drawing G-3 may be installed by the Phase 2 Contractor. In this event, excavation of Excavation Area MJB4 will require coordination with the Phase 2 Contractor.

1.4 WORK TO BE PERFORMED BY THE OWNER

The Owner will administer the Contract; monitor, observe, approve, and accept the work; coordinate with Ecology and other regulatory agencies; provide required direction for the work when Contractor requests clarification of the intent of the Contract Documents; and generally ensure that the execution and completion of the work meets design, construction, and other requirements of the Contract Documents. General tasks that will be accomplished by the Owner, Owner's Representatives, and others at the Site during the Contract work will include:

A. Coordinating with a utility locating subcontractor.

B. Obtaining authorization from the Contractor-proposed waste disposal facilities for disposal of contaminated soil and debris (i.e., Waste Management and Rabanco).

C. Conducting soil sampling and analysis activities in accordance with Ecology requirements.

D. Conducting sampling of treated water generated during dewatering activities (if required) to determine if discharge requirements are met.

The Contractor shall provide access to the work site in order for the Owner and Owner's Representative(s) to accomplish their work.

1.5 PERMITS

The Owner has obtained the following Permits for construction tasks identified in the Contract Documents:

1) City of Anacortes Grading Permit

2) Washington Department of Ecology Construction Stormwater General Permit

These permits individually and collectively contain several conditions that will impact the means and methods available for use by the Contractor. The Contractor shall review these permits to familiarize himself with the various and specific conditions identified.

Copies of all obtained and pending permits are available from the Owner. Contractor shall obtain all other Permits as part of the work under this Contract.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

SECTION 01330

SUBMITTALS, MEETINGS AND NOTIFICATION POINTS

PART 1 – GENERAL

1.1 SUBMITTALS

A. Construction Quality Assurance Plan

The Contractor shall provide a comprehensive Construction Quality Assurance Plan (CQAP) in writing before commencing the work. The Contractor may modify the existing Phase 1 CQAP. The CQAP shall include sketches as applicable. The Owner may request additional information if deemed necessary based on review of the Contractor's proposed activities. The CQAP will be submitted to the Owner within 7 calendar days after the Contract is executed and prior to commencement of work. The CQAP will include detailed construction plans for each of the primary elements of the work. The CQAP shall include the components described in Section 01400 as well as the attachment described in Subparts 1.1B through 1.1F of this Specification Section.

B. Project Schedule

The Contractor shall submit a Preliminary Project Schedule no later than 7 calendar days after the date the Contract is executed. The schedule shall be a Critical Path Method (CPM) schedule developed by the Precedence Diagramming Method (PDM). The Project Schedule shall display the following information, at a minimum:

1) Construction Start Date
2) Critical Path
3) Identification and sequencing of contract work by Work Area.
4) Listing of Each Contract Bid Item
    i. Activity Description
    ii. Activity Duration
    iii. Predecessor Activities
    iv. Successor Activities
5) Identification of necessary coordination dates with the Owner to coordinate tenant interaction.
6) Substantial Completion Date

The Contractor shall update the Project Schedule on a weekly basis, and bring the required number of copies to the Weekly Construction Meeting. At a minimum, schedule updates shall reflect the following information:

1) The actual duration and sequence of as-constructed Work activities, including changed Work.
2) Approved time extensions.

3) Unresolved requests for time extensions shall be reflected in the Schedule Update by assuming no time extension will be granted, and by showing the effects to follow-on activities necessary to physically complete the project within the currently authorized time for completion.

4) Any construction delays or other conditions that affect the progress of the Work.

5) Any modifications to the as-planned sequence or duration of remaining activities.

6) Any modifications to the Critical Path.

7) The Substantial Completion of all remaining Work in the remaining Contract time.

C. Site-Specific Health and Safety Plan

Assess the potential safety risks to on-site personnel and the environment and revise the existing site-specific health and safety plan (HASP) to safely execute the work under this Contract. The Contractor is responsible for independently evaluating the physical and chemical hazards associated, or potentially associated with the project site and the work under this Contract and developing a plan that adequately addresses these hazards in compliance with applicable local, state, and federal regulations. The Contractor will submit the HASP to the Owner for review and general concurrence no later than 7 calendar days after the date the Contract is executed. A copy of the HASP shall be maintained by the Contractor on site at all times. The Contractor may revise the Phase 1 HASP to include the Phase 4 work.

D. Excavation and Disposal Plan

The contractor shall revise and update the existing Phase 1 Excavation and Disposal Plan for this project. The Excavation and Disposal Plan shall by submitted no later than 7 calendar days after the date the Contract is executed and shall outline the Contractor's approach to accomplishing soil excavation and disposal tasks and identify the following, as a minimum:

1) Sequence and method(s) for excavating contaminated soil, including: shoring methods; equipment to be used; and sequencing backfilling of excavated areas.

2) Sequence and method for handling and hauling excavated soil, including: expected loading and hauling equipment and quantities (e.g., number of trucks to be used); and work schedule for hauling to disposal facility.

3) Measures to be taken and equipment to be employed to ensure worker safety and full compliance with applicable regulations.

4) Measures to be taken to ensure soil and/or debris does not enter storm water drainage features.

5) Measures to be taken to ensure run-off from the site does not enter storm water drainage features.

6) Measures to be taken to ensure materials are legally disposed of including:

   i. Specific disposal site(s) for contaminated and clean soil.

   ii. The manner by which receipt at the disposal site will be documented.

   iii. Draft of legal transfer documentation (bill of lading).

   iv. Procedure for supplying the Owner with appropriate documentation of material transfer and disposal.

E. Traffic Access and Control Plan

The Contractor will develop and implement a traffic access and control plan that outlines plans to efficiently move equipment, supplies, materials, vendors, and personnel into and out of areas where work must be conducted or from which work activity is supported. Traffic control measures shall be planned and implemented by Contractor including, but not limited to, the components shown on the Drawings, and described in Specification 01500. The Traffic Access and Control Plan shall be submitted no later than 7 calendar days after the Contract execution date.

F. Erosion Control and Stormwater Pollution Prevention Plan

The Contractor shall revise and update the existing Phase 1 Erosion Control and Stormwater Pollution Prevention Plan (EC-SWPP). This plan shall include a modified site plan that shows the work areas and Contractor's proposed staging and storage area, and indicates Contractor's planned means and methods for management of stormwater runoff in accordance with project permit requirements, containment of potentially contaminated surface water, and prevention of erosion during the work as described in Section 02110 and Section 02310. The modified site plan shall indicate the points where stormwater runoff potentially leaves the site, is collected in a surface water conveyance system (i.e., storm sewer, ditch, etc.), and enters receiving waters of the state. The EC-SWPP shall be submitted no later than 7 calendar days after the Contract execution date.

1.2 SUBMITTALS:

Prior to use, the Contractor shall provide submittals for all materials per the Specifications. The Contractor shall also provide the following submittals to the Owner at specified intervals.

A. Contractor Weekly Construction Report

The Contractor Weekly Construction Report shall contain a summary description of all work performed during that week, names of Contractor employees, equipment, hours worked, and a seven day look ahead for anticipated project activities. In addition, the Contractor Weekly Construction Report shall include quantities of work accomplished for all Pay Items identified in the Bid Form and a projection for work activities to be completed over the following week. This shall also include weight tickets from disposal facilities and material suppliers. The Contractor Weekly Construction Report shall be submitted to the Owner at the end of each work week or one day prior to the weekly progress meeting, whichever is sooner.

1.3 MEETINGS

The Contractor shall attend, at a minimum, the following meetings with the Owner:

A. Pre-Construction Meeting

The Contractor shall attend a preconstruction meeting with the Owner and the Owner's Representative(s) to go over, at a minimum, all preconstruction submittals and requirements prior to the start of work. The pre-construction meeting will be scheduled by the Owner prior to the start of construction.

B. Weekly Progress Meetings

Contractor's project manager and project superintendent or designee shall attend weekly site coordination and progress meetings that will include representatives of the Owner, and may include representatives of other property owners at the Site, the City of Anacortes, certain regulatory agencies, and Contractor's major subcontractors when requested by the Owner. Site meetings shall be held for the purpose of coordination of project activities, and at a frequency based on the progress of certain construction activities. Contractor shall provide a briefing on the status of the work and on scheduled activities.

C. Special Meetings

Attend special meetings that may be held at the Owner's request when a problem or deficiency is present or likely to occur. The purpose of these meetings shall be to define and discuss a problem or recurring work deficiency, review alternative solutions, and identify a plan to efficiently and effectively resolve the problem or deficiency.

Contractor's project manager and/or project superintendent shall attend other meetings at the Owner's request to coordinate Contractor's activities with related work being conducted by the Owner, the Owner's representatives, or the Owner's tenants.

Contractor's attendance at off-site meetings with regulatory agencies or other parties will be arranged as necessary. Contractor shall participate in offsite meetings at no additional cost to the Owner.

D. Health and Safety Meetings

Conduct health and safety meetings for Contractor personnel as required by Contractor's HASP, including but not limited to daily tailgate safety meetings. The Owner's on-site representatives may attend Contractor's health and safety meetings, as needed, to be aware of work conditions or health and safety concerns that could affect the normal business activities of the Owner's employees or tenants, or the coordination or execution of work under other contracts.

1.4 NOTIFICATION POINTS

The Contractor shall notify the Owner at the following points in the project, prior to proceeding further, to allow inspection of the Contractor work progress. The Owner may request additional Notification points based on review of the above information provided by the Contractor.

A. After installation of traffic controls per Section 01500, construction staking per Section 02050, and temporary erosion and sediment control measures per Section 02270; prior to commencement of any construction activities per Section 02110.

B. Two days prior to scheduling monitoring well abandonment.

C. Two days prior to and on completion of excavation areas, prior to backfill, to facilitate Owner's sampling and analytical testing required by the Cleanup Action Plan. The Contractor may be required to hold work during remedial excavation for the purpose of allowing Owner to perform confirmation sampling. Owner will obtain excavation sidewall and base samples periodically during excavation activities. Owner will request

expedited analytical results. The remedial excavation must be maintained open until confirmation sampling and analysis is complete.

D. At required backfilling and compaction intervals so compaction field verification can be performed by Owner.

E. After completion of construction and site clean-up; prior to dismantling of the erosion and traffic controls.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

SECTION 01400

CONTRACTOR QUALITY CONTROL

PART 1 – GENERAL

1.1 INTRODUCTION

This section describes the Contractor's general quality control requirements, duties, and responsibilities during execution of the Contract Work. Detailed quality control requirements are presented in individual specification sections. Contractor quality control is the means by which the Contractor furnishes the resources necessary to control the work and provide documentation to confirm that completed work complies with the requirements of the Contract Documents.

1.2 DESCRIPTION OF WORK

The Contractor shall establish, provide, and maintain an effective Quality Control Program that details the methods and procedures that will be taken to assure that all materials and completed construction conform to requirements of the Contract Documents and manufacturer recommendations. Although the guidelines are established and certain minimum requirements are specified herein and elsewhere in the Contract Documents, the Contractor shall assume full responsibility for accomplishing the stated purpose.

The Contractor shall be prepared to discuss and present, at the Preconstruction Meeting, its understanding of the quality control requirements. The Contractor shall not begin any construction or production of materials to be incorporated into the completed work until the CQAP has been reviewed and approved by the Owner.

1.3 SUBMITTALS

The Contractor shall provide the CQAP to the Owner in accordance with Section 01330 – Submittals, Meetings & Notification Points.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 CONTRACTOR QUALITY CONTROL

A. Quality Control Plan

The Contractor shall establish a CQAP to perform inspection and testing of all items of work required by the Contract Documents, including those performed by subcontractors. The Contractor may modify the Phase 1 Quality Control Plan to include the Phase 4 work. The Contractor shall ensure conformance to applicable specifications and plans with respect to materials, workmanship, construction, finish, and functional performance. The CQAP shall be effective for control of all construction work performed under this Contract and shall specifically include surveillance and tests required by the technical specifications, in addition to other requirements of this section and any other activities deemed necessary by the Contractor to establish an effective level of quality control.

The CQAP shall, at a minimum, include and address the following:

1) General requirements
2) Quality control organization
3) A comprehensive summary of the inspection and testing requirements
4) A comprehensive list of inspection and test methods, schedules, and procedures
5) Documentation methods and procedures
6) Requirements for corrective action when quality control and/or acceptance criteria are not met
7) Procedures to be followed to comply with the Record Document requirements (Section 01730 Project Record Documents)

Any additional elements that the Contractor deems necessary to adequately control all construction processes required by this contract.

B. Documentation

The Contractor shall maintain current quality control records of all inspections and tests performed. These records shall include factual evidence that the required inspections or tests have been performed, including type and number of inspections or tests involved; results of inspections or tests; nature of defects, deviations, causes for rejection, etc.; proposed corrective action; and corrective actions taken.

C. Noncompliance

The Owner may notify the Contractor of any non-compliance with project quality control requirements. The Contractor shall, after receipt of such notice, immediately take corrective action.

In cases where quality control activities do not comply with either the CQAP or the contract provisions, or where the Contractor fails to properly operate and maintain an effective Quality Control Program, as determined by the Owner, the Owner may:

1) Direct the Contractor to replace ineffective or unqualified quality control personnel or subcontractors.
2) Carry out the functions and operations of the Contractor's Quality Control Plan. Costs incurred by the Owner to operate the Quality Control Program plan or to otherwise remedy the Contractor's non-compliance with quality-related provisions of the Contract shall be deducted from the total amount due the Contractor.
3) Order the Contractor to stop operations until appropriate corrective actions are taken.

Any failure by the Owner to notify the Contractor of any non-compliance with any of the foregoing requirements shall not be deemed as a waiver of its enforcement rights hereunder and that the Contractor is still bound by the terms and conditions of said requirement.

END OF SECTION

SECTION 01500

TEMPORARY FACILITIES AND CONTROLS

PART 1 – GENERAL

1.1 Prior to the start of Phase 4 construction work, the Contractor shall furnish and install high-visibility fencing, barricades, signage, and other traffic control devices necessary for cordoning off the work site, as shown on the Plans and described herein.

1.2 These facilities and controls shall be in place to the Owner's satisfaction prior to commencement of construction activities.

1.3 During the project, the Contractor shall pre-plan and coordinate with the Owner, MJB, MJB's tenants, and the Phase 2 contractor to minimize interference with traffic through the facility, traffic parking in the adjacent parking spaces, and traffic accessing facilities at the Site.

1.4 During the project, the Contractor shall maintain pedestrian access through and across all work areas as shown on the Contract Drawings.

1.5 The Contractor shall assist in traffic control and coordination as described herein during the entire period of activities under this contract.

PART 2 – PRODUCTS

The contractor is responsible for identifying and procuring all materials, products, equipment, etc. necessary to complete all of the Work described herein.

PART 3 – EXECUTION

3.1 TEMPORARY TRAFFIC CONTROLS

The contractor shall develop a traffic access and control plan as described in Section 01330 for approval by the Owner, and shall implement the components of the plan. The following traffic control elements, as a minimum, shall be provided as shown on the Plans and maintained during the course of the project:

- Construction Signs, in accordance with Specification 1-10.3(3)A of the WSDOT Standard Specifications.
- High-visibility fencing, in accordance with WSDOT Std. Plan I-10.10-00.

The Contractor may provide additional control elements, with Owner's approval, if deemed necessary to ensure the safety of workers and others or to facilitate better traffic flow into and out of the area. All traffic control devices shall be in accordance with Section 1-10.3(3) of the WSDOT Standard Specifications.

3.2 CONSTRUCTION TRAFFIC

The Contractor shall minimize interference with the activities of the Owner and MJB and its tenants as described below and presented on the Drawings, and by other means identified and agreed upon during the course of the project:

A. The Contractor shall minimize vehicular traffic into and out of the site.

B. Construction vehicles shall enter and exit the site from 17th Street at Q Avenue.

C. A Contractor's employee shall oversee any vehicle's entrance to or exit from the site, and direct the construction vehicle and any non-construction traffic as-needed to prevent accidents and ensure smooth traffic flow around the site.

D. If the open traffic lane needs to be temporarily blocked for purposes of placing or removing equipment, coordinate such activities in advance with the Owner to minimize disruption to their activities. The duration of the blocking activity shall be kept to a minimum and the estimated duration is to be communicated to the Owner prior to commencement. The Contractor shall be responsible for directing both the construction and non-construction traffic during such times that the through-lane is blocked.

3.3 PEDESTRIAN TRAFFIC

The Contractor shall not restrict pedestrian access around or adjacent to any work areas except during ongoing construction activities. When construction activities require closure of pedestrian sidewalk or walkway facilities, a Contractor's employee shall oversee the closure and ensure that alternative pedestrian routing is established to prevent accidents and ensure smooth pedestrian and vehicular traffic flow around the site.

3.4 CONTRACTOR VEHICLE IDENTIFICATION AND PARKING

A. Contractor vehicles and equipment shall be identified by painted or magnetic signing identifying the Contractor's company.

B. Contractor shall propose an equipment staging and employee area within the limits of the Work Area defined on the Drawings, for Owner's approval.

3.5 OFFICE FACILITIES

A. During the performance of this Contract, the Contractor shall maintain a suitable office near the site of the Work that shall be the headquarters of the representative authorized to receive Drawings, instructions, or other communications or articles.

B. The Contractor shall maintain copies of Project Drawings, Specifications, Contractor submittals, material safety data sheets (MSDS) for all products to be used on site, permits, personnel certifications, and other Contract Documents, available for use at all times, at the site office.

C. The Contractor shall provide space within its office facilities for use by the Owner and his/her resident engineering and inspection staff. The Owner's space shall be a minimum of 50 square feet in size to accommodate a table and sampling equipment. The contractor shall provide a table (minimum 3 feet by 5 feet) and two chairs for the Owner's use.

D. The Contractor shall also provide three sets of keys providing access to the field office.

3.6 TEMPORARY SANITARY FACILITIES

Contractor shall provide on-site toilet and wash-up facilities for the work force that comply with applicable laws, ordinances, and regulations pertaining to the public health and sanitation of dwellings and camps.

3.7 WORK COMPLETION

The temporary fencing, traffic controls and traffic coordination responsibilities are to remain in place for the duration of the project. At the completion and approval of Excavation Area MJB4, temporary fencing may be removed to reduce the size of the Work Area, subject to the Owner's approval.

END OF SECTION

SECTION 01730

PROJECT RECORD DOCUMENTS

PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

A. Throughout progress of the Work of this Contract, the Contractor shall maintain an accurate record of all Project Record Documents/ As-Built Drawings (Red-lines)

B. Provide one copy of the As-Built Drawings (Red-Lines) including design-build drawings to the Owner as specified herein.

1.2 RELATED WORK DESCRIBED ELSEWHERE

A. Section 01330 - Submittals

1.3 QUALITY ASSURANCE

A. The responsibility for maintenance of changes to the Project Record Documents shall be assigned to one person on the Contractor's staff.

B. Thoroughly coordinate all changes to the Drawings by making red-line entries on an ongoing basis on a single set of final Drawings maintained at the job site. Accuracy shall be such that future uses of information showing the as-built condition of the Contract Work may reasonably rely on the information shown. The Owner's approval of the accuracy and current status of the record of changes to the As-Built Drawings (Red-Lines) will be a prerequisite to the Owner's approval of requests for each progress payment. Appropriate payment may be withheld if Redlines are not up to date at the times of periodic applications for progress payments.

1.4 SUBMITTALS

A. General: Preparation of As-Built Drawings (Red-Lines) is a requirement of the Work.

B. As-Built Drawings:

1) General: The Contractor shall revise (1) set of Contract drawings by red- line process to show the as-built conditions during the course of the project. These working, as-built drawings shall be kept accurate and current.

2) Progress Submittals: Prior to submitting each request for progress payment, secure the Owner's approval of the working As-Built Drawings (Red-Lines) as currently maintained.

3) Final Redline Drawings Submittal: After approval of the current "Red line" documents by the Owner, and within 14 days after Substantial Completion of all or a part of the Work, and prior to Final Payment request, submit (one copy) of the final As-Built Drawings (Redlines) to the Owner.

PART 2 – PRODUCTS

Promptly following award of the Contract, secure from the Owner one full-size set of paper prints of the Drawings for recording As-Built conditions.

PART 3 – EXECUTION

3.1 MAINTENANCE OF RED-LINE DRAWINGS

A. Identification:

Upon receipt of the project drawings described in paragraph 2.01 above, identify each of the Documents with the title RED-LINES.

B. Preservation:

In consideration of the Contract completion time, frequent use of the Red-Lines for making new entries and for examination, and the conditions under which these activities will be performed, devise a suitable method for protecting the project Red-Lines to the approval of the Owner.

1) Do not use the Red-Lines for any purpose except entry of new data and for review by the Engineer.
2) Maintain the Red-Lines at the site of Work as designated by the Owner.

C. Making Entries to the Red-Lines:

1) Using an erasable red-colored pencil (not ink or indelible pencil), clearly describe the change by notes and by graphic line. It is not necessary for the Contractor to redraw what is clearly shown and dimensioned on a sketch accompanying the Change Directive, however the sketch should be included on the sheet or attached to the back of the preceding sheet.
2) Make clear what information a sketch replaces, by “cloud” or similar device.
3) Distinguish to the satisfaction of the Owner between annotations intended to be copied exactly by a future drafter creating Record Drawing files, and information that is supplemental and not meant to be copied. Examples of supplemental information would include notes to the drafter and information purely for the Contractor’s information in monitoring the change. A suggested approach is to make all markings not to be copied by the future drafter in a color other than red, reserving red for information to be copied exactly.
4) The working and final As-Built Drawings (Red-Lines) shall show, as a minimum, the following information:
    i. All changes in the work generated by documents such as Change Orders, Construction Bulletins, Requests for Information (RFIs) and Contractor-originated proposals. Identify the documents generating changes from the As-bid documents. These changes shall show the actual work with the same level of accuracy and completeness as the original Contract documents.
    ii. Any sketches that accompanied the Change directive attached to the drawing sheet or the back of the sheet preceding it.

iii. The actual location, identification and sizes of material, equipment, utilities and elements of the project to the same level of detail as the original Contract (As-bid) drawings.

iv. The correct scale, grade, elevations, dimensions and coordinates of changes.

v. Changes or modifications that result from final inspection.

END OF SECTION

SECTION 02050

CONSTRUCTION SURVEYING

PART 1 – GENERAL

1.1 DESCRIPTION

Work under this item includes the responsibilities of the Contractor for construction layout, surveying, and computation of payment quantities.

1.2 REFERENCES

All references to the WSDOT Standard Specifications shall refer to the *2008 Standard Specifications for Road, Bridge, and Municipal Construction* of the Washington State Department of Transportation.

1.3 QUALIFICATIONS

Survey work performed by the Contractor shall be under the direct supervision of a State of Washington Registered Professional Land Surveyor.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

The Contractor shall be responsible for setting, maintaining, and resetting all reference points, alignment stakes, slope stakes, and grades necessary for delineating the excavation areas shown on the Drawings and utilities encountered within the excavations. Calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

Detailed survey records shall be maintained, including a description of the work performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall be provided to the Owner within three working days after the end of the shift.

The meaning of words and terms used in this provision shall be as listed in "Definitions of Surveying and Associated Terms" current edition, published by the American Congress on Surveying and Mapping and the American Society of Civil Engineers.

The survey work shall include but not be limited to the following:

1) Establish the control points for the excavation areas shown on the Drawings.
2) Verify the primary horizontal and vertical control furnished by the Port of Anacortes Phase 1 Project ENV-01A, and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Owner’s Representative. The description shall include coordinates and elevations of all secondary control points.

3) Establish clearing limits, placing stakes at all angle points and at intermediate points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown in the Plans.

4) Establish grading limits, placing slope stakes at centerline increments not more than 50 feet apart. Establish offset reference to all slope stakes. If Global Positioning Satellite (GPS) Machine Controls are used to provide grade control, then slope stakes may be omitted at the discretion of the Contractor

5) Establish the horizontal and vertical location of all drainage features, placing offset stakes to all drainage structures and to pipes at a horizontal interval not greater than 25 feet.

6) Establish intermediate elevation benchmarks as needed to check work throughout the project.

7) For all other types of construction included in this provision provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.

8) The Contract shall conduct topographic surveys of the remedial excavation areas at the following intervals:

    i. At the completion of remedial excavation activities, after Owner's approval.

    ii. At the completion of placement, compaction, and grading of imported backfill material.

The Contractor shall use the survey data to calculate the volume of soil removed from excavation areas. The Contractor shall calculate the volume using the Average End Area method, and provide the calculations to the Owner's Representative for review and approval.

The Contractor shall ensure a surveying accuracy within the following tolerances:

	VERTICAL	HORIZONTAL
Slope stakes	±0.10 feet	±0.10 feet
Subgrade grade stakes set at 0.04 feet below grade	±0.01 feet	±0.5 feet (parallel to alignment)
		±0.1 feet (normal to alignment)
Surfacing grade stakes	±0.01 feet	±0.5 feet (parallel to alignment)
		±0.1 feet (normal to alignment)
		±0.1 feet (normal to alignment)

Work to be performed using Contractor-provided stakes shall not begin until the stakes are approved by the Owner's Representative. Such approval shall not relieve the Contractor of responsibility for the accuracy of the stakes. Stakes shall be marked in accordance with WSDOT Std. Plan A-10.10-00. When stakes are needed that are not described in the Drawings, then those stakes shall be marked, at no additional cost to the Owner when requested by the Owner's Representative.

The Owner's Representative may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

END OF SECTION

SECTION 02110

REMEDIAL EXCAVATION AND OFF-SITE DISPOSAL

PART 1 – GENERAL

1.1 DESCRIPTION

This section specifies remedial excavation and soil disposal requirements for the project, including excavation, handling and loading of soil, transportation, off-site disposal, and other work required to accomplish the work under this Contract. Work covered under this section includes, but is not limited to, the following elements:

1) Removal, transport, and disposal of any vegetation and pavement located within excavation areas.
2) Abandon any monitoring wells in accordance with WAC 173-160.
3) Installing any required shoring to achieve required contaminated soil removal at the described limits.
4) Installing and operating any dewatering components and disposing of water and solids developed during dewatering.
5) Diverting, maintaining, and replacing (if necessary) all utilities encountered within excavation areas.
6) Excavating contaminated soil at the Site to meet the cleanup goals associated with the Cleanup Action.
7) Handling and loading contaminated soil to trucks for transportation to an approved off-site disposal facility.
8) Transporting contaminated soil to an approved off-site disposal facility.
9) Performing excavation-limit surveying for determination of excavation volume for payment.

1.2 REFERENCES

A. All references to WSDOT shall refer to *2008 Standard Specifications for Road, Bridge, and Municipal Construction* of the Washington State Department of Transportation.

B. 29 CFR 1910 - Occupational Safety and Health Regulations.

C. WAC 296-155, Safety Standards for Construction Work, including Part N, Excavations, Trenches, and Shoring.

D. 29 CFR 1926 - Safety and Health Regulations for Construction.

E. R.C.W. Chapter 49.17 WISHA.

F. R.C.W. Chapter 39.04.180 Public Works/Trench Excavations - Safety Systems Required

G. WAC 173-160, Minimum Standards for Construction and Maintenance of Wells.

1.3 QUALIFICATIONS

A. Personnel engaged in hazardous materials work shall be Hazmat, OSHA, and WISHA trained and certified. Conduct earthwork associated with known or potentially contaminated materials in accordance with Contractor's site-specific health and safety plan prepared in accordance with Section 01330.

B. Transportation of known or potentially contaminated materials shall be performed by properly licensed, insured, and registered waste haulers that are acceptable to the Owner and in accordance with applicable local, state, and federal regulations for transportation. Transportation contractor(s) shall submit documentation that demonstrates it is properly licensed and in compliance with applicable DOT regulations, as well as a copy of its contingency and spill control plans describing measures to be implemented in the event of spills or discharges during material handling and transporting.

1.4 CONTRACTOR RESPONSIBILITY

Furnish all labor, equipment, supplies, and materials necessary to perform the remedial excavation activities associated with the work under this Contract.

1.5 SUBMITTALS

A. Prepare and submit for Owner's approval an Excavation and Disposal Plan as a component of the CQAP described in Section 01330 that includes details of Contractor's methods and equipment to accomplish the work under this section.

B. Prepare and submit to the Owner a list of proposed material suppliers, referencing the materials to be provided and used in the work.

C. Submit to Owner for approval prior to transporting any contaminated soil off-site a list of proposed permitted RCRA Subtitle D disposal facilities. Owner will coordinate submitting any required documentation or soil samples to the facilities for waste disposal approval.

PART 2 – PRODUCTS

Provide all necessary equipment to accomplish the work in this Section, including the excavation, handling, loading, and transportation of excavated materials.

PART 3 – EXECUTION

3.1 GENERAL

A. Conduct all required activities associated with excavation, handling, transportation, and disposal of soil required to meet the site cleanup goals in accordance with the requirements of the Contract Documents and as otherwise directed by the Owner to complete the Work under this Contract. Coordinate the Work with the Owner to limit adverse effects of the work on the activities of the Owner, MJB and its tenants, and other owners of properties within the project Site, other adjacent public and privately owned areas and the public.

B. Clearing and grubbing shall be completed in accordance with Section 2-01.3 of the WSDOT Standard Specifications.

C. Contractor operations will require work in a potentially hazardous environment. Ensure adequate protection for all personnel, comply with all health and safety requirements of Contractor's site-specific health and safety plan, and perform construction equipment decontamination and other environmental controls, as specified. Modified Level D protection may be assumed for work associated with excavation and handling of contaminated soil and debris, excavation dewatering and water handling, and other activities with a potential for exposure to contaminated materials

D. Implement environmental protection measures, site access and traffic control, and utility protection, air emissions control, dust control, drainage and erosion control, spill prevention and pollution control, and all other controls needed to protect environmental quality during the work.

E. The Owner's representative will direct the soil excavation activities for the purposes of achieving the site cleanup objectives. The Contractor shall assist the Owner's representative in the survey controls and confirmatory sample collection, as needed. The Contractor shall strictly adhere to Owner's procedures and instructions on establishing excavation limits. Contractor will maintain excavated areas before backfilling while confirmatory testing is conducted.

F. The Owner's representative will observe soil excavation activities for the purposes of cultural artifact monitoring in all areas where excavations extend greater than 3 feet bgs. The Contractor shall assist the Owner's representative in the cultural artifact monitoring activities as needed. The Contractor shall strictly adhere to Owner's procedures and instructions in the event that cultural artifacts are encountered during excavation activities.

G. All excavated soil shall be loaded and transported directly to the off-site disposal facility.

H. To facilitate loading for off-site disposal, the Contractor may request to temporarily stockpile excavated materials within MJB1. If Owner approves use of stockpiles, the soil placed in stockpiles shall be protected from the weather and other disturbances by covering with an impervious material. Contractor shall remove water within the stockpile area by pumping to a containment vessel for analysis to determine proper disposal. Contractor shall be responsible for properly disposing of water collected within the stockpile areas.

I. The Contractor shall select an appropriate permitted RCRA Subtitle D disposal facility for the disposal of contaminated soil, to be approved by the Owner, and shall coordinate arrangements for hauling such materials to the selected facility. Contractor shall comply with all transportation and disposal requirements set forth in state and federal regulations.

J. Backfilling of excavated areas shall be performed in accordance with the Contract Drawings and the procedures outlined in Section 02310 of these Specifications.

3.2 TEMPORARY EXCAVATION SHORING AND SAFETY SYSTEMS

A. Construction site safety is the sole responsibility of the Contractor, who also is solely responsible for the means, methods, and sequencing of the construction operations and choices regarding temporary excavations and shoring.

B. Temporary slopes and shoring shall be in accordance with Washington State Administrative Code (WAC) 296-155, Part N. The stability of open-cut slopes is a function of soil type, groundwater level, slope inclination and nearby surface loads. The use of inadequately designed open cuts could impact the stability of adjacent structures and existing utilities and endanger personnel.

C. The existing site soils are classified as “Type C” by these regulations. The state regulations allow temporary slopes of 1.5H:1V (Horizontal:Vertical). The regulations assume that surface loads such as construction equipment and storage loads will be kept a sufficient distance away from the top of the cut so that the stability of the excavation is not affected. The regulations assume that no groundwater is present. It should be expected that unsupported cut slopes would experience some sloughing and raveling if exposed to surface water. Berms, hay bales, plastic sheeting, fencing laid over the slope or other provisions could be installed along the top and sides of the excavation to reduce the potential for sloughing and erosion of cut slopes during wet weather, as appropriate.

D. Where excavation limits infringe on or potentially endanger or compromise an existing site facility or feature, provide temporary shoring, sheeting, and bracing as required to complete the excavations. All required temporary shoring, sheeting, and bracing systems needed to complete the work shall be designed and stamped by a structural engineer licensed to practice in the State of Washington. Unless otherwise specified or approved by the Owner, repair and make good any damage to any facility or feature caused by Contractor’s work under this Specification at no additional cost to the Owner.

3.3 SURVEYING AND DOCUMENTATION

A. Complete all surveys as required for controlling the work, developing as-built survey records, and confirming measurement for payment in accordance with Sections 01400 and 01730.

3.4 SITE CLEANUP AND MANAGEMENT OF DEBRIS AND WASTE MATERIALS

A. Contractor shall be responsible for preventing the offsite movement of all waste materials, spills, etc., resulting from the work under this Contract, and shall be responsible for any consequences of any such offsite movement of material.

B. Contractor shall clean up soil tracked from the site onto public roadways on a daily basis or more frequently, as directed by the Owner.

C. Periodically clean up wastes, debris and leftover materials resulting from the earthwork activities. Clear the work areas of all debris and waste materials which may have accumulated during execution of the work, and dispose of such materials in accordance with all applicable regulations.

END OF SECTION

SECTION 02210

TEMPORARY EROSION CONTROL AND WATER POLLUTION CONTROL

PART 1 – GENERAL

1.1 DESCRIPTION:

Work under this item includes the development of a Temporary Erosion and Sediment Control and Stormwater Pollution Prevention Plan (EC-SWPPP). Work under this item also includes installing furnishing, maintaining, removing, and disposing of temporary erosion control and water pollution control items, in accordance with the Contract Drawings and Specifications, and the Contractor's TESC Plan.

1.2 REFERENCES

All references to the WSDOT Standard Specifications shall refer to the *2008 Standard* Specifications *for Road, Bridge, and Municipal Construction* of the Washington State Department of Transportation.

PART 2 – PRODUCTS

Materials shall meet the requirements of Section 8-01.2 of the WSDOT Standard Specifications.

PART 3 – EXECUTION

3.1 EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLAN

This project is covered by a Department of Ecology Construction Stormwater Permit. The Owner will provide a copy of the permit to the Contractor. The Contractor shall keep a copy of the permit on site at all times.

As a condition of this permit, the Contractor shall modify and update the existing Phase 1 Erosion Control and Stormwater Pollution Prevention Plan (EC-SWPPP) to include Phase 4 work activities. The Contractor shall submit the modified EC-SWPPP to the owner for approval a minimum of 5 working days prior to commencing construction activities on site.

3.2 EROSION AND SEDIMENT CONTROL LEAD

Contractor shall provide an ESC Lead to implement the EC-SWPPP.

3.3 CONSTRUCTION REQUIREMENTS

Construction of Temporary Erosion Control and Water Pollution Control items shall be in accordance with Section 8-01.3 of the WSDOT Standard Specifications.

END OF SECTION

SECTION 02230

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

PART 1 – GENERAL

1.1 DESCRIPTION:

Work under this item includes the removal and off-site disposal of material identified in the Drawings, or as identified by the Owner's representative.

1.2 REFERENCES

All references to the WSDOT Standard Specifications shall refer to the *2008 Standard* Specifications *for Road, Bridge, and Municipal Construction* of the Washington State Department of Transportation.

PART 2 – PRODUCTS

All labor and equipment necessary to perform removal of drainage pipes, drainage structures, pavement, and other structures and obstructions that may prohibit remedial excavation activities. All labor, equipment, and materials necessary to repair or replace drainage pipes and structures in accordance with Sections 9-03.12(3), 9-05, and 9-12.5 of the WSDOT Standards Specifications and WSDOT Std. Plans B-5.20-00 and B-55.20-00.

PART 3 – EXECUTION

3.1 GENERAL

The limits of removal shown in the Drawings are approximate, and dependent on the extent of remedial excavation.

3.2 DRAINAGE PIPES

If required to facilitate remedial excavation, the Contractor shall remove and dispose of existing drainage pipes, as necessary to facilitate excavation in the initial excavation areas shown on the Drawings, or as directed by the Owner's Representative. Upon completion and approval of remedial excavations, pipe bedding and pipes shall be restored in accordance with Section 7-08 of the WSDOT Standards Specifications, WSDOT Std. Plan I-55.20-00, and Section 02310 of these Specifications.

3.3 DRAINAGE STRUCTURES

If required to facilitate remedial excavation, removal of existing drainage structures, such as catch basins, shall be in accordance with Section 2-02.3(2) of the WSDOT Standard Specifications. Upon completion and approval of remedial excavations, catch basins shall be restored in accordance with Section 7-05 of the WSDOT Standards Specifications and WSDOT Std. Plan B-55.20-00.

3.4 REMOVE EXISTING PAVEMENT

In removing pavement, the Contractor shall:

1) Make a vertical full depth saw cut between any existing pavement that is to remain and the portion to be removed. For Portland Cement Concrete Pavement removal, a second vertical full depth relief saw cut offset 12-inches to 18-inches from and parallel to the initial saw cut is also required, unless the Owner's representative approves otherwise.
2) Replace at no expense to the Owner, any existing pavement designated to remain that is damaged during the removal of other pavement.

END OF SECTION

SECTION 02310

EARTHWORK

PART 1 – GENERAL

1.1 DESCRIPTION

This section specifies earthwork requirements for the project, including material handling, grading, backfilling and compaction of soil, and other work incidental to the earthwork shown on the Drawings or required to accomplish the Work under this Contract. Earthwork covered under this section includes, but is not limited to, the following elements:

1) Purchasing, placing and compacting imported quarry spalls.
2) Purchasing, placing and compacting imported crushed rock.
3) Purchasing and placing excavation marker material.
4) Purchasing, placing and compacting gravel backfill for pipe zone bedding.

1.2 REFERENCE STANDARDS

The following standards and test methods are included as a part of this Section insofar as specified and modified herein. In case of conflict between the requirements of this Section and the listed standards and test methods, the requirements of this Section shall prevail.

Reference	Title or Description
ASTM D 422	Test Method for Particle-Size Analysis of Soil
WSDOT T 606	Method of Test for Compaction Control of Granular Materials
ASTM D 2216	Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock
WSDOT SOP 615	Determination of the % Compaction for Embankment & Untreated Surfacing Materials using the Nuclear Moisture-Density Gauge
WSDOT FOP for AASHTO T 310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

1.3 REFERENCES

A. All references to WSDOT shall refer to *2008 Standard Specifications for Road, Bridge,* and Municipal Construction of the Washington State Department of Transportation.

B. 29 CFR 1910 - Occupational Safety and Health Regulations.

C. WAC 296-155, Safety Standards for Construction Work, including Part N, Excavations, Trenches, and Shoring.

D. 29 CFR 1926 - Safety and Health Regulations for Construction.

E. R.C.W. Chapter 49.17 WISHA.

F. R.C.W. Chapter 39.04.180 Public Works/Trench Excavations - Safety Systems Required

1.4 QUALIFICATIONS

Personnel engaged in hazardous materials work shall be Hazmat, OSHA, and WISHA trained and certified. Conduct earthwork associated with known or potentially contaminated materials in accordance with Contractor's site-specific health and safety plan prepared in accordance with Section 01330.

1.5 CONTRACTOR RESPONSIBILITY

Furnish all labor, equipment, supplies, and materials necessary to perform the earthwork activities associated with the work under this Contract.

1.6 SUBMITTALS

A. Prepare and submit to the Owner a list of proposed material suppliers, referencing the materials to be provided and used in the work.

B. Submit to Owner for approval and prior to importing any backfill material to the site:

1) Certification of gradation and material compliance with these Specifications, along with copies of associated laboratory test results.

2) Material gradation and moisture-density compaction curve reports as appropriate for each type and source of imported fill material.

3) No less than 10 working days, samples of each import material shall be provided to the Owner to facilitate laboratory testing to demonstrate that the import fill complies with MTCA A Cleanup Levels as specified in WAC 173-340-740. Testing will be performed by Owner.

4) Certification that the imported fill materials were obtained from a commercial quarry or pit permitted by the State of Washington.

C. Whenever the source from which the imported fill materials are obtained is changed, certificates of compliance and the required laboratory test results from these new sources shall be furnished by Contractor at no additional cost to the Owner.

PART 2 – PRODUCTS

2.1 GENERAL REQUIREMENTS FOR IMPORTED MATERIALS

A. Imported materials shall be natural, native, virgin materials, free of debris or recycled materials, tested and certified to be free of contaminants above MTCA A Cleanup Levels, including petroleum hydrocarbons and priority pollutant metals, and meet the appropriate Specifications. The Owner maintains the right to reject any materials that have been determined to be substandard for any reason. In the event of rejection, it shall be the responsibility of Contractor to remove all rejected material from the site at its sole expense.

B. Visually inspect each load of imported material upon delivery. Material shall be inspected for presence of foreign, recycled, or reprocessed material. The Owner may at any time perform an independent inspection and Contractor shall notify Owner prior to use of any imported materials on site. Material may be rejected due to identification of any such material or as a result of substandard test results. Materials may be segregated for testing by Contractor based on appearance or odor.

2.2 QUARRY SPALLS

Material shall meet the requirements under Section 9-13.6, Quarry Spalls, in the WSDOT Standard Specifications.

2.3 CRUSHED ROCK

Material shall meet the requirements under Section 9-03.9(3), Crushed Surfacing Base Course, in the WSDOT Standard Specifications.

2.4 GRAVEL BEDDING

Material shall meet the requirements under Section 9-03.12(3), Gravel Backfill for Pipe Zone Bedding, in the WSDOT Standard Specifications.

2.5 EXCAVATION MARKER

A lightweight geotextile (e.g., non-woven 4 oz/yd^2) or construction safety fencing shall be placed at the base of the remedial excavation areas where soil greater than Site cleanup levels has been left in place in accordance with the Cleanup Action Plan, as determined by the Owner. Other alternatives may be proposed by the Contractor for Owner approval.

2.6 EQUIPMENT

Provide all necessary equipment to accomplish the work in this Section, including the handling, placement, moisture conditioning, backfilling, grading, and compaction of materials. Compaction equipment shall be properly sized and suitable to the type and location of material being compacted and shall be used in the manner needed to achieve the degree of compaction required. It is expected that an 8-ton vibratory Smooth drum roller, or equivalent, would be used to compact quarry spalls.

PART 3 – EXECUTION

3.1 GENERAL

A. Conduct all required earthwork activities in accordance with the requirements of the Contract Documents and as otherwise directed by the Owner to complete the work under this Contract. Coordinate the work with the Owner to limit adverse effects of the work on the activities of the Owner, the Owner's tenants, and other owners of properties within the project Site, other adjacent public and privately owned areas and the public.

B. Contractor operations will require work in a potentially hazardous environment. Ensure adequate protection for all personnel, comply with all health and safety requirements of Contractor's site-specific health and safety plan, and perform construction equipment decontamination as specified.

C. Implement environmental protection measures, site access and traffic control, and utility protection, air emissions control, dust control, drainage and erosion control, spill prevention and pollution control, and all other controls needed to protect environmental quality during the work.

3.2 MOISTURE CONDITIONING AND REWORKING OF BACKFILL MATERIALS

A. Fill materials that contain excess moisture or otherwise cannot be readily compacted shall be moisture conditioned and reworked until the specified compaction criteria can be achieved. Moisture conditioning and reworking of such material shall be conducted in a manner approved by the Owner.

B. When necessary, add water to increase the moisture content of dry materials to near its optimum moisture content as determined by WSDOT T 606.

C. Quarry Spalls shall be thoroughly wetted prior to placement and compaction.

3.3 BACKFILLING AND COMPACTION

A. The Owner will collect confirmation soil samples from various locations in the excavations prior to backfilling and the samples will be analyzed at an off-site analytical laboratory. Excavated areas must be maintained during confirmatory testing period. Contractor shall obtain the approval of the Owner prior to placing any backfill materials in the excavations to ensure that confirmatory testing has been completed. The Owner will request expedited analytical services and will provide the Contractor feedback regarding the need for additional excavation within 7 days of collecting samples.

B. Contractor shall survey the excavation limits prior to any backfilling for the purpose of development of as-built drawings and for determination of measurement for payment.

C. Prior to backfilling remedial excavation areas, Contractor shall place an excavation marker where required at the final limits of excavation at the Owner's direction.

D. Quarry Spalls shall be placed in lifts no greater than 18 inches. Crushed Rock may be placed in a single lift in accordance with the Drawings. Each lift shall be compacted with a minimum of 4 passes with an 8-ton vibratory smooth drum roller. Additional passes may be required to establish non-yielding conditions.

E. Gravel Bedding used as pipe zone bedding and backfill shall be placed and compacted in accordance with Sections 7-08.3(1)C and 7-08.3(3) in the WSDOT Standard Specifications.

F. The Contractor shall be responsible for any damage to roads, highways, underground facilities or other property caused by the Work, whether the damage is at the site of the Work or caused by transportation to or from the Work site. The Contractor shall repair all such damage to the satisfaction of the Owner and/or responsible agency.

G. Finish graded surfaces shall be smooth and free from irregular surface changes so as to promote drainage toward the appropriate storm drain facility (if present) and prevent any ponding of storm water.

3.4 FILL COMPACTION QUALITY CONTROL

A. The Owner and Owner's Representative will perform quality control monitoring and testing activities associated with quality control of backfill material and compaction.

B. Quarry Spalls and Crushed Rock shall be compacted until non-yielding conditions can be demonstrated as approved by the Owner's Representative. The Contractor shall demonstrate non-yielding conditions through proof-rolling with a fully loaded 10-ton dump truck.

C. Gravel Bedding shall meet the compaction requirements of Section 7-08.3(1)C in the WSDOT Standard Specifications. The Contractor shall provide the Owner with the results of laboratory density testing performed in accordance with WSDOT T 606. The Contractor shall also contract with a geotechnical testing contractor, at the Owner's approval, to perform field density documentation in accordance with WSDOT SOP 615.

3.5 SURVEYING AND DOCUMENTATION

A. Complete all surveys as required for controlling the work, as-built survey records, and measurement for payment in accordance with Sections 01400 and 01730.

3.6 SITE CLEANUP AND MANAGEMENT OF DEBRIS AND WASTE MATERIALS

A. Contractor shall be responsible for preventing the offsite movement of all waste materials, spills, etc., resulting from the work under this Contract, and shall be responsible for any consequences of any such offsite movement of material.

B. Contractor shall clean up soil tracked from the site onto public roadways on a daily basis or more frequently, as directed by the Owner.

C. Periodically clean up wastes, debris and leftover materials resulting from the earthwork activities. Clear the work areas of all debris and waste materials which may have accumulated during execution of the work, and dispose of such materials in accordance with all applicable regulations.

END OF SECTION

ATTACHMENT A
GRADING PERMIT

0927804-1 0003 10/05/2009 002 4
Permit Fees 008468 $272.75

City of Anacortes
904 6th Street
P.O.Box 547
Anacortes, WA 98221-0547
(360) 293-1901

Permit #: BLD-2009-0362
Issue date: 10/05/2009
Expire date: 04/03/2011

Job Address:

Permit Type: Grading Permit
Project:

APN:

Remarks: Excavation and off site disposal of approx 3,000 cubic yards; import clean soils and backfill and compact within excavated areas restoring grading for pre-construction conditions Q between 17th and 20

Owner: KIMBERLY CLARK CORPORATION

Address: 1423 THIRD AVE
300
SEATTLE WA 98101

Phone: (206) 287-9130

Contractor:

Address:

Phone:

License #:

General Information:

CUBIC _YARDS	3000

Fees:

Grading Plan Review Fee	49.25
Grade and Fill	223.50
Total Calculated:	272.75
Deposits/Receipts:	0.00
Total Due:	272.75

THIS PERMIT BECOMES NULL AND VOID IF WORK OR CONSTRUCTION AUTHORIZED IS NOT COMMENCED WITHIN 180 DAYS, OR IF CONSTRUCTION OR WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AT ANY TIME AFTER WORK IS COMMENCED. I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT, THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF ANY OTHER STATE OR LOCAL LAW REGULATING CONSTRUCTION OR THE PERFORMANCE OF CONSTRUCTION.

SIGNATURE OF OWNER OR AUTHORIZED AGENT

Anchor QEA, LLC

By Mail Michelle Deaton
ISSUED BY

ATTACHMENT B
CONSTRUCTION STORMWATER PERMIT

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

4 May 2009

Becky Darden
Port of Anacortes
P.O. Box 297
Anacortes, WA 98221

Dear Ms. Darden:

RE: Construction Stormwater General Permit
Permit Number: **WAR-011650**

Site Name:	Former Scott Paper Mill Cleanup
Location:	20th St & Q Ave
	Anacortes, WA Skagit Co.
Disturbed Acres:	16.0
Receiving Water:	Fidalgo Bay

The Washington Department of Ecology (Ecology) has reviewed your application for coverage under the Construction Stormwater General Permit, and has decided to issue permit coverage effective 5/04/2009. **Please retain this permit coverage letter with your permit (enclosed), stormwater pollution prevention plan (SWPPP), and site log book. These form the official record of permit coverage for your site.**

This letter explains some of the requirements in the permit. Please take time to read the permit, and contact Ecology if you have any questions.

Inspections (Special Condition S4, pages 10-12 for additional information)

- A Certified Erosion and Sediment Control Lead (CESCL) must conduct weekly inspections of your site to ensure that you have installed and properly maintained the appropriate best management practices (BMPs).
- Ecology's website has a list of training classes to obtain CESCL certification on its website: http://www.ecy.wa.gov/programs/wq/stormwater/cescl.htm.
- You must keep the inspection results in your site log book and make them available for Ecology or the local jurisdiction to review. You may use the enclosed inspection report template. You must keep these results in your site log book.

Sampling and Analysis (Special Condition S4, pages 10-15 for additional information)

- Permittees must sample stormwater and non-stormwater discharges for turbidity using a turbidity meter.

- Permittees must sample all locations where stormwater or non-stormwater (dewatering, etc.) drains or discharges from the site (including any discharges into surfaces waters (wetlands, creeks, and/or ditches) located within the property.
- Permittees must sample stormwater discharges for pH if the project involves any amount of engineered soils (cement treated base, cement kiln dust, fly ash, etc.) or more than 1,000 cubic yards of poured and/or recycled concrete.
- The permit sets benchmark (target) levels for turbidity, transparency, and pH. When discharge samples exceed a benchmark, you must follow additional permit requirements.
- Submit all sampling data to Ecology each month on the enclosed discharge monitoring report (DMR). The DMR includes instructions on how to perform sampling and reporting. You must submit a DMR to Ecology even if you do not collect any samples.

High Turbidity Phone Reporting (Special Condition S5.A, page 15 for more information)

- If your site discharges stormwater with a turbidity result greater than or equal to 250 NTUs, you must notify Ecology by phone within 24 hours. Call the Ecology regional office and state, "I'm reporting a high turbidity construction stormwater discharge of (your sample result) NTUs." Include all of the following information in your phone message:

1. Your Name / Phone Number
2. Permit Number
3. City / County of Project
4. Date / Time of Call
5. Date / Time of Sample
6. Project Name

Ecology Regional Office & Phone Number
Northwest Region (Kitsap, Snohomish, Island, King, San Juan, Skagit, Whatcom): (425) 649-7000

Discharge Monitoring Reports (Special Condition S5.B, page for additional information)

- Permittees must submit DMRs to Ecology each month, even if there is no discharge to report.
- You must ensure that the DMRs arrive at Ecology by the 15th of each month. Please plan accordingly to meet this requirement.

Discharges to Impaired Waterbodies (Special Condition S8, pages 18-21 for more information)

- If your site discharges to a water body that is on the impaired waterbodies list (i.e., 303(d) list) for turbidity, fine sediment, high pH, or phosphorus, you must sample for more parameters. Ecology will notify you if any additional sampling requirements apply.

Stormwater Pollution Prevention Plan (Special Condition S9, pages 21-29 for more information)

- Your site must have a complete Stormwater Pollution Prevention Plan (SWPPP). You must keep it on site (or within reasonable access to the site) prior to the start of construction to protect water quality. The SWPPP describes the erosion and sediment control measures you will use based on the site conditions.
- Remember to keep your SWPPP updated. The permit contains specific timelines for SWPPP updates based on inspection results by the CECSL or an Ecology inspector.

Permit Transfer

- When you sell or transfer operational control of all or a portion of your site to one or more new operator(s), you must also transfer permit coverage.
- To transfer permit coverage, submit a Transfer of Coverage form to Ecology. You can download the form from our website listed at the end of this letter.

Notice of Termination (Special Condition S10, page 29 for additional information)

- You may terminate (cancel) permit coverage when your site is stabilized with permanent vegetation or equivalent measures that prevent erosion. You may also terminate coverage if all unstabilized areas have been sold or transferred.
- To request termination of permit coverage, submit a Notice of Termination (NOT) to Ecology. If you do not submit an NOT, you will remain responsible for permit compliance and permit fees. You can download the form from our website listed at the end of this letter.

Appeal of Permit Coverage

You may appeal the terms and conditions of a general permit, as they apply to an individual discharger, within 30 days of the effective date of coverage of that discharger (see Chapter 43.21B RCW). This appeal is limited to the general permit's applicability or non-applicability to a specific discharger.

The Revised Code of Washington (RCW) 43.21.B310, contains procedures and requirements for the appeal process. Appeals should be directed to:

Pollution Control Hearings Board
PO Box 40903
Olympia, Washington 98504-0903

Department of Ecology
Appeals Coordinator
P.O. Box 47608
Olympia, Washington 98504-7608

Additional Information

Ecology is committed to providing assistance to you. Please review our web page at http://www.ecy.wa.gov/programs/wq/stormwater/construction/. Now available — a stormwater sampling video that demonstrates appropriate sampling methods!

Questions
For questions about transfers, terminations, and other administrative issues, please contact Charles Gilman at 360-407-6437 or chgi461@ecy.wa.gov.

Ecology Regional Assistance
If you have questions regarding stormwater management issues at your construction site, please contact Mak Kaufman (360-715-5221) of Ecology's Bellingham Field Office.

If you have questions regarding this letter, please call Charles Gilman at 360-407-6437

Sincerely,

Bill Moore, P.E., Manager
Program Development Services Section
Water Quality Program

Enclosure: Construction Stormwater General Permit
Inspection Report Template

cc: Ecology Permit Fee Unit, HQ
Stormwater File, HQ

Construction Stormwater
SITE INSPECTION CHECKLIST

Project_____ Permit No._____ Inspector_____ Date_____ Time_____

Will existing BMPs need to be modified or removed, or other BMPs installed? YES NO
IF YES, list the action items to be completed on the following table:

Actions to be Completed	Date Completed/ Initials
1.	
2.	
3.	
4.	
5.	
6.	

Describe current weather conditions

Approximate amount of precipitation since last inspection: _____ inches
and precipitation in the past 24 hours*: _____ inches
**based on an on-site rain gauge or local weather data.*

Describe discharging stormwater, if present. Note the presence of suspended sediment, "cloudiness", discoloration, or oil sheen.

Was water quality sampling part of this inspection? YES NO
If yes, record results below (attach separate sheet, if necessary):

Parameter:	Method (circle one)	Result	Units
Turbidity	tube, meter, laboratory		NTU (cm, if tube used)
pH	paper, kit, meter		pH standard units

Is the site in compliance with the SWPPP and the permit requirements? YES NO
If no, indicate tasks necessary to bring site into compliance on the "Actions to be Completed" table above, and include dates each job WILL BE COMPLETED.
If no, has the non-compliance been reported to Dept. of Ecology? YES NO
If no, should the SWPPP be modified: YES NO

Sign the following certification:
"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Inspection completed on:_____ by: (print+signature)_____

Title/Qualification of Inspector:_____

Excerpt from *How to do Stormwater Monitoring,* Publication # 06-10-020

Construction Stormwater
SITE INSPECTION CHECKLIST

Project_____ Permit No._____ Inspector_____ Date_____ Time_____

Site BMPs	Overall Condition	Need Repair?	Comments/Observations
Clearing Limits			
• *Buffer Zones around sensitive areas*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Construction Access/Roads			
• *Stabilized site entrance*	G F P	Y N	
• *Stabilized roads/parking area*	G F P	Y N	
•	G F P	Y N	
Control Flow Rates			
• *Swale*	G F P	Y N	
• *Dike*	G F P	Y N	
• *Sediment pond*	G F P	Y N	
• *Sediment trap*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Install Sediment Controls			
• *Sediment pond/trap*	G F P	Y N	
• *Silt fence*	G F P	Y N	
• *Straw bale barriers*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Preserve Vegetation/Stabilize Soils			
• *Nets and blankets*	G F P	Y N	
• *Mulch*	G F P	Y N	
• *Seeding*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Protect Slopes			
• *Terrace*	G F P	Y N	
• *Pipe slope drains*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Protect Drain Inlets			
• *Inserts*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Stabilize Channels and Outlets			
• *Conveyance channels*	G F P	Y N	
• *Energy dissipators*	G F P	Y N	
•	G F P	Y N	
Control Pollutants			
• *Chemical Storage Area covered*	G F P	Y N	
• *Concrete handling*	G F P	Y N	
•	G F P	Y N	
Control De-watering			
•	G F P	Y N	

G=Good F=Fair P=Poor Y=Yes N=No

Excerpt from *How to do Stormwater Monitoring,* Publication # 06-10-020

PERMIT NUMBER WAR-011650

CONSTRUCTION STORMWATER GENERAL PERMIT
DISCHARGE MONITORING REPORT (DMR)

PROJECT INFORMATION

Site Name: Former Scott Paper Mill Cleanup
Disturbed Acreage: 16.0
Location: 20th St & Q Ave, Anacortes, WA
County: Skagit

Owner Name: Port of Anacortes
Permittee/Operator: Becky Darden
Mailing Address: P.O. Box 297
Anacortes, WA 98221

MONITORING DOCUMENTATION

Unique Discharge/Monitoring Point: _____
(Use same description each month, use one DMR for each monitoring point)

Monitoring Period: _____
(Month/Year)

Please send your Discharge Monitoring Report (DMR) to Ecology every month, even if there is no discharge. Also, read the attached instructions before completing the DMR. If a section does not apply, please annotate "N/A", leaving no blanks.

Weekly Monitoring	Sampling Date (Month/Day/Year)	Turbidity (NTU's-Nephelometric Turbidity Units)	Transparency (Centimeters)	pH (If applicable)	Treatment BMPs Used Prior to Discharge from Site (List all that apply) P = Sediment Pond/Trap/Tank/Vault C = Chemical Treatment/Sand Filter S = Silt Fence W = Straw Wattles/Coir Wattles D = Check Dam/Triangular Silt Dike O = Other	No Discharge This Week (Check if applicable)
Example	10/06/06	32	N/A	N/A	P, S, W	
Week 1						
Week 2						
Week 3						
Week 4						
Week 5						

☐ No soil disturbing construction activities have taken place on the site yet. Construction is expected to begin on _____

☐ There was no discharge during normal working hours this month (provide comments or explanation below)

COMMENTS / EXPLANATIONS (ATTACH EXTRA SHEET IF NECESSARY):

NAME / PHONE NUMBER OF ON-SITE CONTACT PERSON WHO CAN ANSWER QUESTIONS RELATED TO THIS REPORT:

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY JUDGEMENT OR MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION; I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. *(PENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO $10,000.00 AND/ OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)*

NAME/TITLE OF PERSON WITH SIGNATORTY AUTHORITY (SEE INSTRUCTIONS)	DATE: MONTH DAY YEAR
SIGNATURE OF PERSON WITH SIGNATORY AUTHORITY	PHONE NUMBER OF PERSON WITH SIGNATORY AUTHORITY

MAIL YOUR DMR (WITHOUT INSTRUCTIONS PAGE) TO:
DEPARTMENT OF ECOLOGY, WATER QUALITY PROGRAM – CONSTRUCTION STORMWATER, P.O. BOX 47696, OLYMPIA, WA 98504-7696

PERMIT NUMBER WAR-011650

DAILY TURBIDITY/TRANSPARENCY SAMPLING LOG

Note: Daily sampling is triggered by turbidity sampling results over 250 NTU's, or transparency results less than 6 cm.

S	M	T	W	T	F	S

MAIL YOUR DMR (WITHOUT INSTRUCTIONS PAGE) TO:
DEPARTMENT OF ECOLOGY, WATER QUALITY PROGRAM – CONSTRUCTION STORMWATER, P.O. BOX 47696, OLYMPIA, WA 98504-7696

INSTRUCTIONS AND FREQUENTLY ASKED QUESTIONS FOR COMPLETING THE DMR FORM

PROJECT INFORMATION

1. How can I update contact information and/or mailing addresses? You can update any project information by submitting a Notice of Intent (NOI) Application Form and checking the box in the upper right hand corner next to "Change/Update Permit Information". Complete only the boxes that are being updated and submit the signed form to the same address as the DMR.

MONITORING DOCUMENTATION

1. How often do I sample? Once you disturb the soil, you must conduct sampling at least once every calendar week when stormwater (or authorized non-stormwater) flows off of the site.

2. Where do I sample? You must take samples from all discharge points where stormwater (or authorized non-stormwater such as de-watering water) flows off-site.

3. When stormwater leaves my site from more than one location, what do I need to do?
   a. Use a separate DMR sheet for each location where stormwater is discharged from the site.
   b. Enter a unique name or description of the monitoring location (for example: Pond 1; or West Ditch). You must use the **same** monitoring location name each month.
   c. Identify all sampling point(s) on the map in your Storm Water Pollution Prevention Plan (SWPPP). You must also clearly mark each sample point in the field with a flag, tape, stake or other visible marker.

4. What if I don't have a discharge off site for an entire week? If there was no discharge during **a calendar week**, you need not take a sample. Mark an X in the "No Discharge" column for that week on the DMR form. If there was no discharge **during a calendar month**, mark the "No Discharge" box at the bottom of the table.

5. If it rains at 3 AM on my site, do I have to get up and sample at that hour? You need not sample outside of normal working hours or during unsafe conditions. If you are unable to sample during a monitoring period, you must include a brief explanation in the "Comment/Explanation" box of the DMR.

6. What kind of stormwater turbidity/transparency sampling do I have to do? If construction activity disturbs 5 acres or more, the permit requires you to conduct turbidity sampling, using a turbidity meter. If construction activity disturbs greater than or equal to 1 acre, but less than 5 acres, you may use either a transparency tube **or** a turbidity meter. You must enter turbidity or transparency values collected each week on the DMR.

7. What if my turbidity result is greater than 250 NTU or my transparency is less than 6 centimeters (cm)? If any discharge is greater than 250 NTU or less than 6 centimeters (cm) transparency, you must begin daily sampling. You must also record the values in the attached sampling log (on page 2). Write the date, sampling result (value), and unit (NTU or cm). Continue to sample daily until:
   a. Turbidity is 25 NTU (or lower); or
   b. Transparency is 31 cm (or greater); or
   c. The CESCL has determined compliance with the water quality standard for turbidity:
      1. No more than 5 NTU over background turbidity, if background is less than 50 NTU, or
      2. No more than 10% over background turbidity, if background is 50 NTU or greater; or
   d. The discharge stops or is eliminated.

8. When do I have to sample for pH? If construction activity will result in the disturbance of 1 acre or more, **and** involves *significant concrete work* or the use of *engineered soils*, **and** stormwater from the affected area drains to surface waters of the state or to a storm sewer system, the Permittee must conduct *pH* monitoring:
   a. Definitions:
      - *Significant Concrete Work* means greater than 1,000 cubic yards poured or recycled concrete.
        - For poured concrete, the 1,000 cubic yard threshold is met if a single or multiple concrete pours on the site results in greater than 1,000 cubic yards of concrete curing at the same time. Typical curing time is less than 30 days. If individual concrete pours smaller than 1,000 cubic yards occur more than 30 days apart, pH sampling is not required unless required by Ecology order.
        - For recycled concrete, the 1,000 cubic yard threshold is met if greater than 1,000 cubic yards of concrete is recycled or crushed on-site.
      - *Engineered Soils* means the use of soil amendments including, but not limited to, Portland cement treated base (CTB), cement kiln dust (CKD), or fly ash to achieve certain desirable soil characteristics.

b. For *significant concrete work*, pH monitoring begins when the concrete is first exposed to precipitation and continues weekly until stormwater pH is 8.5 or less prior to discharge.
c. For sites with engineered soils, the pH monitoring period commences when the soil amendments are first exposed to precipitation and continues until the area of engineered soils is fully stabilized.
d. During the pH monitoring period, the Permittee must obtain a representative sample of stormwater and conduct pH analysis at least once per week.
e. The Permittee must monitor pH in the sediment trap/pond(s) or other locations prior to discharge from the site.
f. The benchmark value for pH is 8.5 standard units. Any time sampling indicates that pH is 8.5 or greater, the Permittee must:
    1. Prevent the high pH water (8.5 or above) from entering the storm sewer systems or surface waters; and
    2. If necessary, adjust or neutralize the high pH water using an appropriate treatment BMP such as carbon dioxide (CO_2) sparging or dry ice. The permittee must obtain written approval from Ecology prior to using any form of chemical treatment other than CO_2 sparging or dry ice. Information on CO_2 sparging / dry ice BMP can be found on Ecology's web site at: www.ecy.wa.gov/programs/wq/stormwater.
g. The Permittee shall perform pH analysis on-site with a calibrated pH meter, pH test kit, or wide range pH indicator paper. The Permittee must record pH monitoring results in the site log book.

9. What do the treatment BMP letter codes on the form mean? For any discharge, report the type of treatment Best Management Practice(s) (BMPs) applied to the stormwater (or non-stormwater) prior to discharge from the site. Use the letter code (e.g., P for Pond) that corresponds to the type of BMP used for the specific discharge. BMP codes are listed on the DMR. If multiple treatment BMPs are used, list the letter code for each type of BMP.

9. What if I haven't started clearing or grading my site? If you have not began initial soil disturbing activity yet, mark an X in the applicable box. Indicate estimated construction start date, and continue to submit the DMR each month.

10. Who should sign the report?
    A. This report must be signed as follows:
        1. Corporations, by a responsible corporate officer of at least the level of vice president of a corporation or a duly authorized representative;
        2. Partnerships, by a general partner of a partnership or a duly authorized representative;
        3. Sole proprietorships, by the proprietor or a duly authorized representative; or
        4. Municipal, state, or other public facility, by either a principal executive officer, ranking elected official or a duly authorized representative.
    B. A person is a duly authorized representative only if:
        1. The authorization is made in writing by a person described above and submitted to the Ecology.
        2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or having overall responsibility for environmental matters.
    C. Changes to authorization:
        If an authorization is no longer accurate, submit a new authorization to Ecology prior to (or together with) any reports, information, or applications to be signed by an authorized representative.

ADDITIONAL SAMPLING

1. What if I take additional samples or have more information to submit than will fit on the provided forms? You can submit any additional information on separate sheets of paper. You may also attach lab sheets, if you use a lab for analysis. Please sign, date, and document the site information on those sheets so that they can be included in your file.

ADDITIONAL INFORMATION

1. Mail the DMR to: **Department of Ecology, Water Quality Program- Construction Stormwater, P.O. Box 47696, Olympia, WA 98504-7696**

2. Who can I call for assistance? If you have questions or concerns, please contact Ecology's Water Quality Reception Desk at (360) 407-6600. Please have your site name, location, and permit number available when calling.

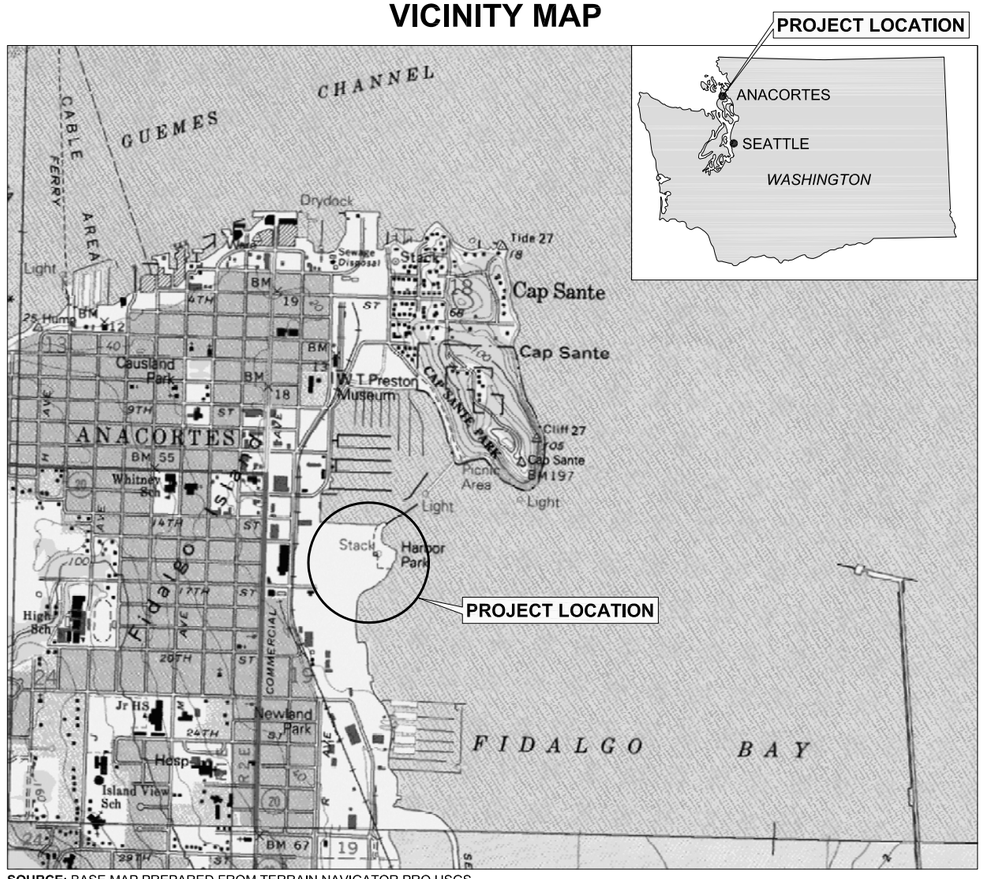
For more information, additional forms and/or additional copies of the permit; please visit our web site: http://www.ecy.wa.gov/programs/wq/stormwater/construction.

FINAL

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

KIMBERLY-CLARK CORPORATION

VICINITY MAP



SOURCE: BASE MAP PREPARED FROM TERRAIN NAVIGATOR PRO USGS 7.5 MINUTE QUADRANGLE MAP OF ANACORTES NORTH, WASHINGTON.

DRAWING INDEX

ANCHOR QEA

1423 3RD AVENUE, SUITE 300 | SEATTLE, WA 98101 | (206) 287-9130

KIMBERLY-CLARK

KIMBERLY-CLARK CORPORATION

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

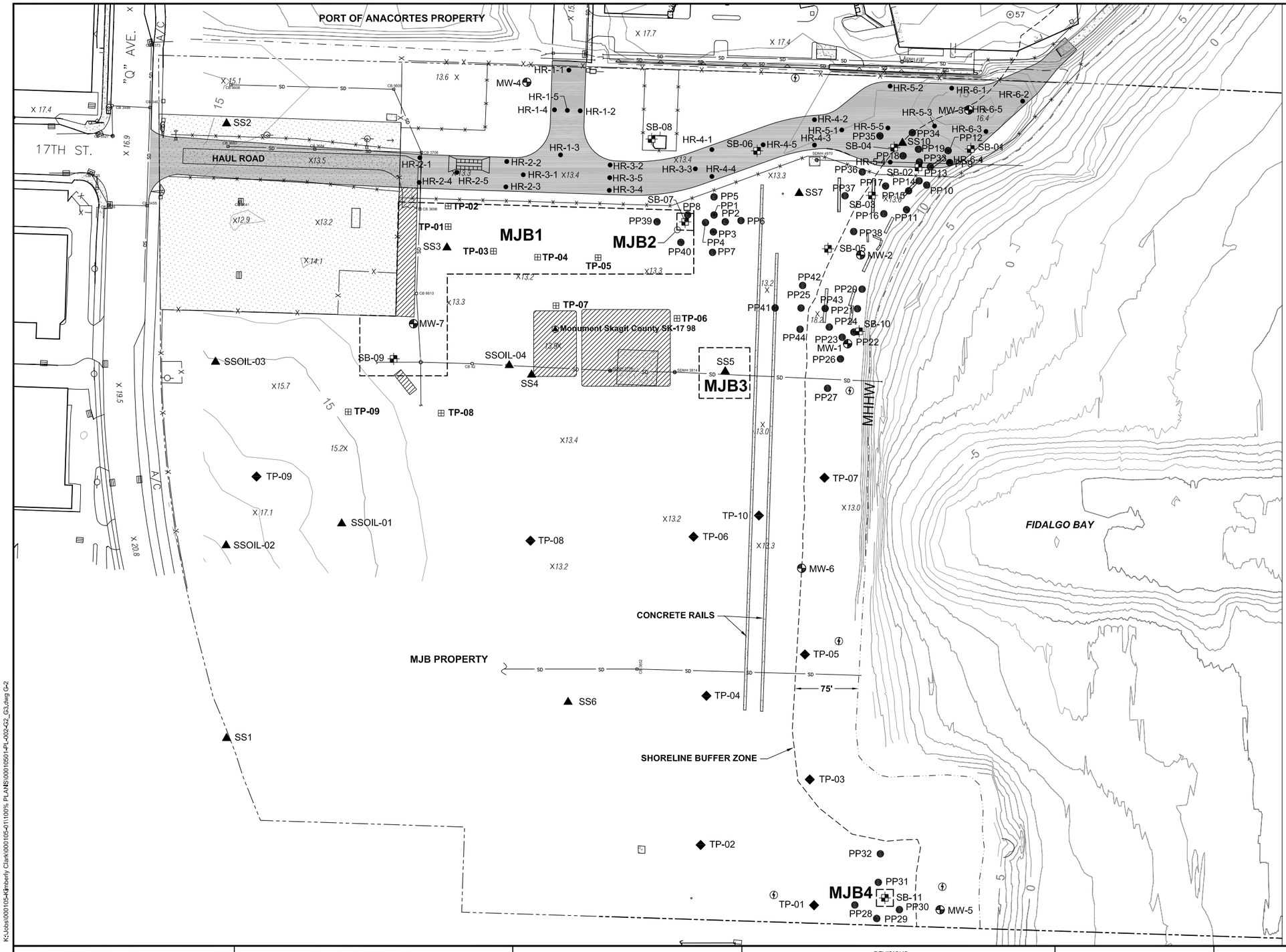
FINAL SUBMITTAL

ONE INCH AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

G-1

SHEET NO. 1 OF 6



LEGEND:

- MONITORING WELL LOCATION
- PUSH PROBE SOIL SAMPLE LOCATION
- TEST PIT SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- SOIL BORING LOCATION
- SKAGIT COUNTY MONUMENT
- STORM DRAIN
- CATCH BASIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD (BY OTHERS)
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- TRUCK WASH (BY OTHERS)
- MJB4 INITIAL EXCAVATION AREAS

0 60 120
SCALE IN FEET

NOTES:

1. ELEVATION CONTOURS GENERATED FROM SPOT ELEVATIONS PROVIDED IN MAPPING BY DAVID C. SMITH AND ASSOCIATES, PORTLAND, OREGON, DATED 07/17/03.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

K:\Jobs\0001054\Kimberly Clark\000105-01\100% PLANS\000105001-PL-002-G2_G3.dwg G-2

Oct 13, 2009 1:39pm heriksen

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION

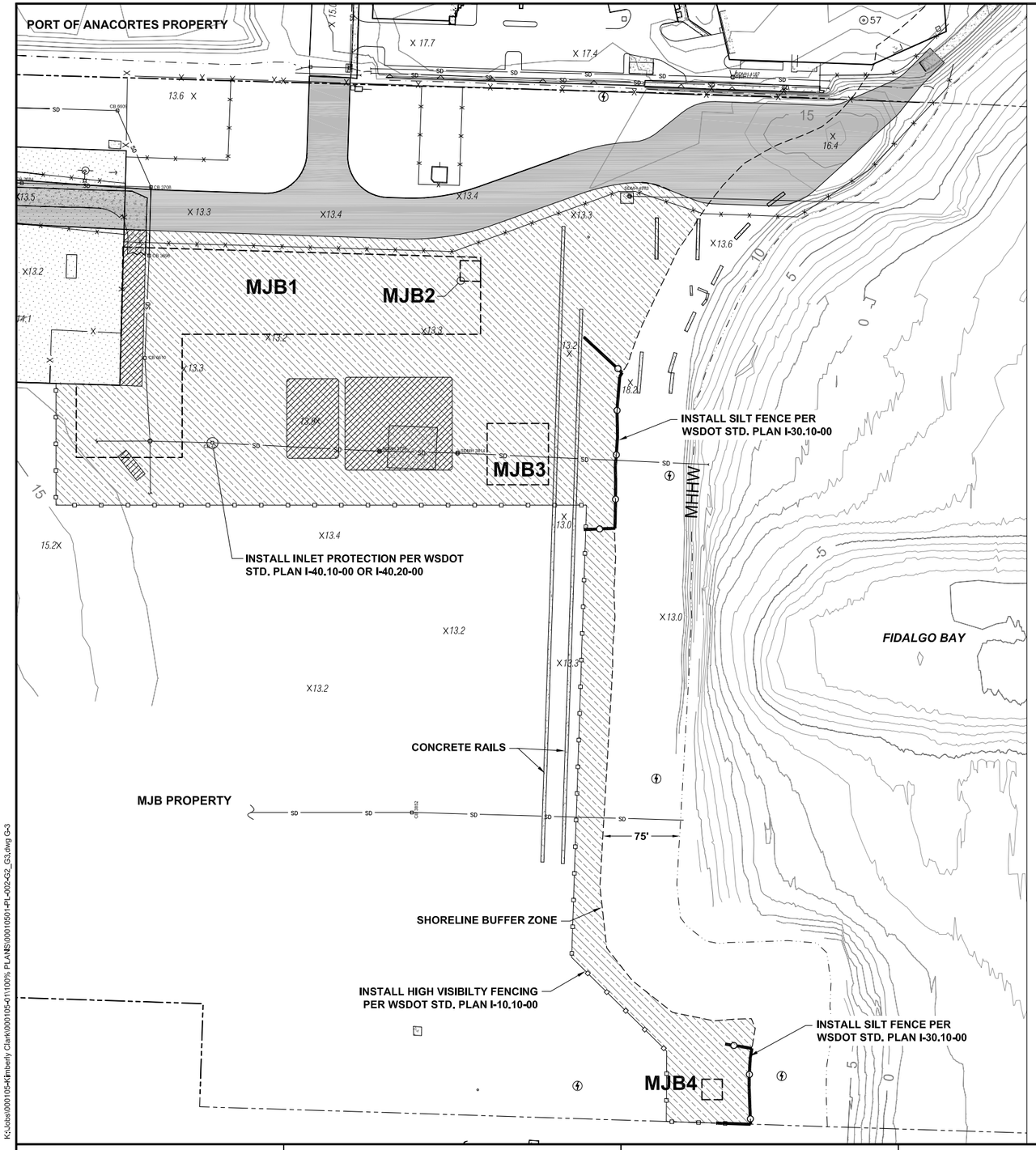
DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

EXISTING CONDITIONS AND PHASE 4A REMEDIAL ACTION OVERVIEW

G-2

SHEET NO. 2 OF 6



LEGEND:

- STORM DRAIN
- CATCH BASIN
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD (BY OTHERS)
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- MJB4 INITIAL EXCAVATION AREAS
- PHASE 4A WORK AREA
- SILT FENCE (INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00)
- HIGH VISIBILITY FENCE (INSTALL HIGH VISIBILITY FENCE PER WSDOT STD. PLAN I-10.10-00)

0 60 120

SCALE IN FEET

NOTES:

1. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTY OR WATERWAY, ALL CONSTRUCTION WORK WITHIN THE WORK AREA THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.
4. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS EROSION CONTROL PLAN NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
5. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON SITE TO PREVENT DEBRIS, DUST, AND MUD FROM ACCUMULATING ON PUBLIC RIGHT-OF-WAYS.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL DEVICES UPON FINAL SITE STABILIZATION AND APPROVAL BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION/WATER POLLUTION CONTROLS FOR CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREAS, AS NEEDED.
8. INLET PROTECTION SHALL BE INSTALLED PER WSDOT STD. PLAN I-40.10-00 OR I-40.20-00, AS PRACTICABLE, TO PROTECT ALL CATCH BASINS LOCATED WITHIN THE WORK AREA. CATCH BASINS LOCATED WITHIN EXCAVATION AREAS REQUIRING REMOVAL SHALL BE REPLACED WITH EQUIVALENT STRUCTURES CONFORMING TO WSDOT STD. PLANS AND AS APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

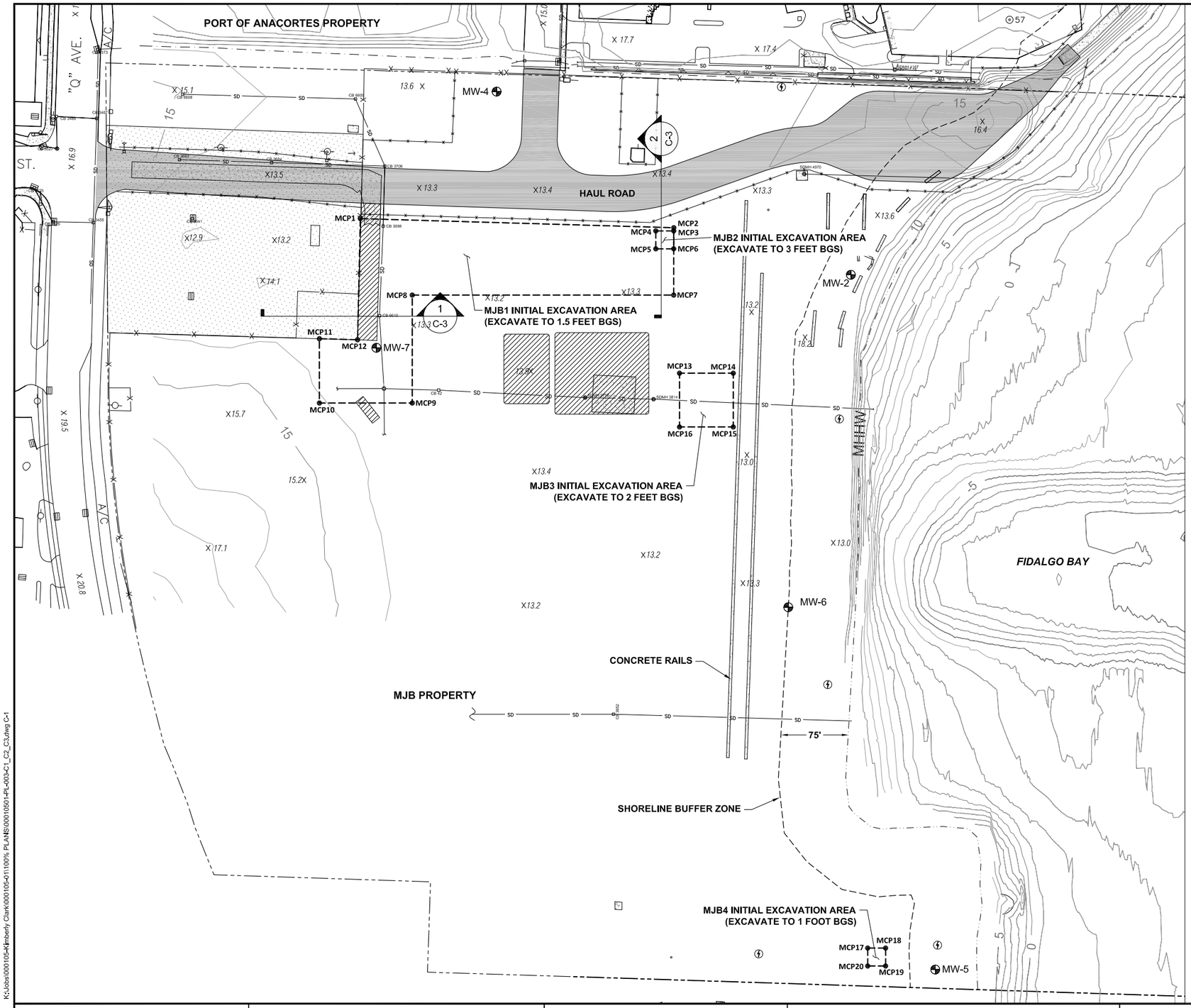
FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PHASE 4A WORK AREA AND EROSION CONTROL PLAN

G-3

SHEET NO. 3 OF 6

K:\Jobs\0001054\Kimberly Clark\0001054-011\100% PLANS\0001054-011-PL-002-G2_G3.dwg G-3
Oct 13, 2009 1:40pm herikseh



LEGEND:

- MW-2 — MONITORING WELL LOCATION
- SD — STORM DRAIN
- CB 42 — CATCH BASIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 — SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- INITIAL EXCAVATION AREAS
- MCP1 — PHASE 4A EXCAVATION CONTROL POINT
- 1 / C-3 — CROSS SECTION LOCATION AND DESIGNATION; CROSS SECTION IDENTIFICATION SHEET FOUND ON

POINT ID	EASTING	NORTHING
MCP1	1209829.00	555204.42
MCP2	1210178.95	555194.28
MCP3	1210178.85	555190.72
MCP4	1210158.85	555190.72
MCP5	1210158.85	555170.72
MCP6	1210178.85	555170.72
MCP7	1210178.85	555119.07
MCP8	1209886.94	555119.07
MCP9	1209886.94	554998.60
MCP10	1209783.32	554998.60

POINT ID	EASTING	NORTHING
MCP11	1209783.32	555070.38
MCP12	1209825.91	555069.21
MCP13	1210185.34	555031.86
MCP14	1210245.34	555031.86
MCP15	1210245.34	554971.86
MCP16	1210185.34	554971.86
MCP17	1210395.40	554390.20
MCP18	1210415.40	554390.20
MCP19	1210415.40	554370.20
MCP20	1210395.40	554370.20

0 60 120
SCALE IN FEET

NOTES:

1. EXTENT OF CONTAMINATED SOIL AND ESTIMATED LIMITS OF REMEDIAL EXCAVATION ARE BASED ON REGULATORY REQUIREMENTS AND THE EXISTING CHEMICAL ANALYTICAL AND FIELD SCREENING DATA FOR SOIL COLLECTED AT THE SAMPLE LOCATIONS SHOWN ON DRAWING G-2.
2. REMEDIAL EXCAVATION SHALL BE INITIATED AT THE DESIGNATED LOCATIONS USING APPROPRIATE SIDE SLOPES. COMPLETE SOIL EXCAVATION WITHIN THE DESIGNATED START LOCATIONS SHALL BE COMPLETED TO THE SPECIFIED LIMITS PRIOR TO ANY SIDEWALL CONFIRMATION SAMPLING. EXCAVATION SHALL PROCEED DEEPER AND/OR RADIALLY AWAY FROM THE DESIGNATED START LOCATION AT DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE BASED ON FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS. NO SOIL EXCAVATION SHALL EXPAND WATERWARD OF THE SHORELINE BUFFER ZONE OR DEEPER THAN 6 FEET BGS.
3. SEE DRAWING C-3 FOR EXCAVATION CROSS SECTIONS.
4. EXCAVATIONS MUST BE MAINTAINED OPEN UNTIL VERIFICATION IS COMPLETE AND FILLING IS APPROVED BY OWNER.
5. ALL EXCAVATION ACTIVITIES THAT EXTEND DEEPER THAN 3-FEET BELOW GROUND SURFACE AT ANY LOCATION ON MJB PROPERTY SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
6. ALL MONITORING WELLS WITHIN EXCAVATION AREAS SHALL BE ABANDONED IN ACCORDANCE WITH WASHINGTON DEPARTMENT OF ECOLOGY REQUIREMENTS (WAC 173-160-381) .
7. ALL SOIL SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH RCRA AND MTCA REQUIREMENTS.
8. DISPOSAL FACILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO USE.
9. SOIL TRANSPORTATION TRUCKS AND TRAILERS SHALL BE COVERED DURING ALL OFF-SITE HAULING.
10. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO WORK. IN THE EVENT THAT THE WATER SUPPLY OR STORM DRAIN PIPES ARE ENCOUNTERED DURING EXCAVATION AND REQUIRE REMOVAL TO FACILITATE REMEDIAL WORK, ALL REMOVED OR DAMAGED STRUCTURES SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND WSDOT STD. PLAN B-55.20-00.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

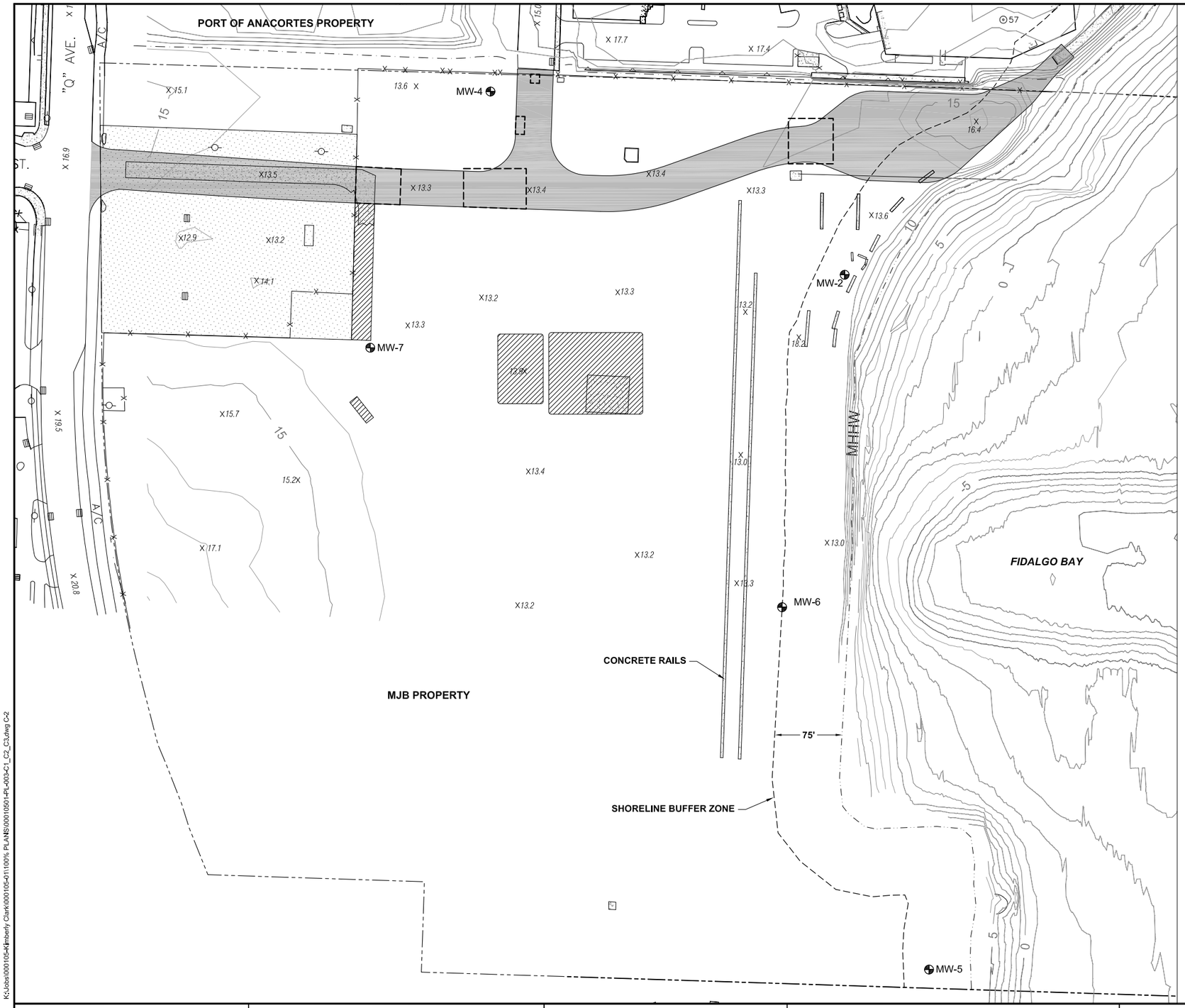
PHASE 4A SOIL REMEDIAL EXCAVATION PLAN

C-1

SHEET NO. 4 OF 6

K:\Jobs\000105-K\Kimberly Clark\000105-011\100% PLANS\000105011-PL-003-C1_C2_C3.dwg C-1

Oct 13, 2009 1:41pm herlksen



LEGEND:

- MW-2 — MONITORING WELL LOCATION
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 — SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- ANTICIPATED INITIAL EXCAVATION AREAS

N

0 60 120

SCALE IN FEET

NOTES:

1. PHASE 4B SHALL NOT COMMENCE UNTIL THE HAUL ROAD HAS BEEN REMOVED BY OTHERS. POST EXCAVATION SAMPLING HAS BEEN COMPLETED AND APPROVED BY THE PORT OF ANACORTES, AND REFINEMENTS TO THE EXCAVATION AREAS SHOWN HAVE BEEN MADE.
2. EXTENT OF CONTAMINATED SOIL AND ESTIMATED LIMITS OF REMEDIAL EXCAVATION ARE BASED ON REGULATORY REQUIREMENTS AND THE EXISTING CHEMICAL ANALYTICAL AND FIELD SCREENING DATA FOR SOIL COLLECTED AT THE SAMPLE LOCATIONS SHOWN ON DRAWING G-2. ADDITIONAL EVALUATIONS ARE NECESSARY TO COMPLETE THE DELINEATION.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

K:\Jobs\000105-Kimberly Clark\000105-011\100% PLANS\000105011-PL-003-C1_C2_C3.dwg C-2

Oct 13, 2009 1:43pm herlksen

ANCHOR QEA

KIMBERLY-CLARK

DRAFT - NOT FOR CONSTRUCTION

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION

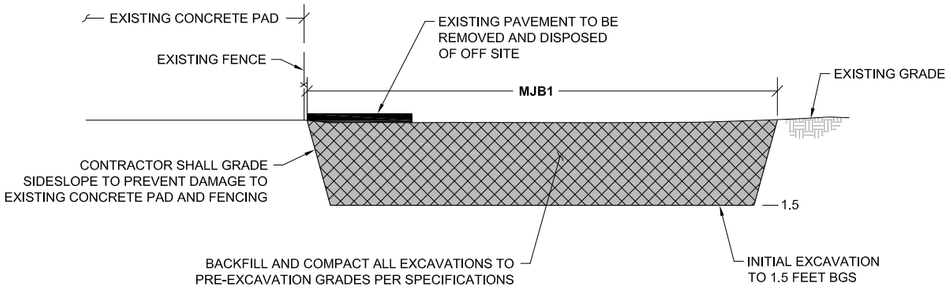
DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

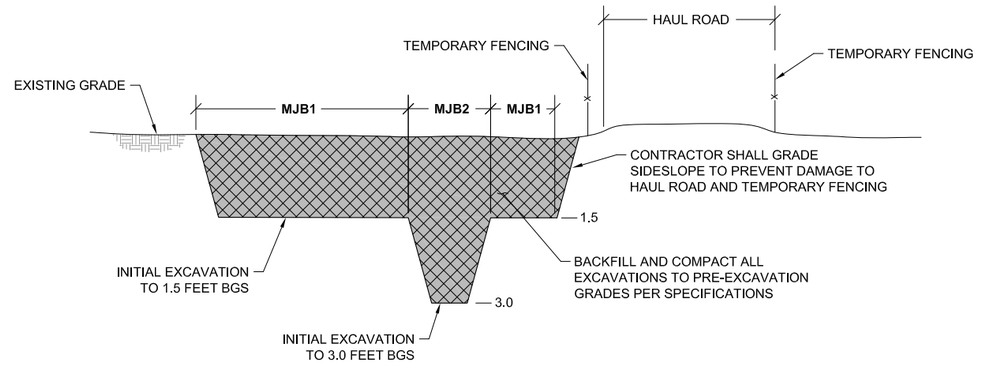
PRELIMINARY PHASE 4B SOIL REMEDIAL EXCAVATION AREAS - NOT FOR CONSTRUCTION

C-2

SHEET NO. 5 OF 7



1 / C-1 TYPICAL EXCAVATION SECTION
SCALE: NOT TO SCALE



2 / C-1 TYPICAL EXCAVATION SECTION
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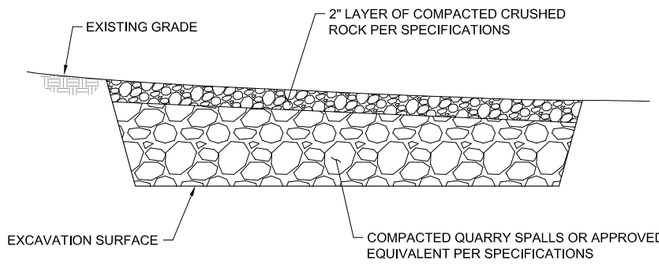


3 / C-3 TYPICAL BACKFILL SECTION
SCALE: NOT TO SCALE

NOTES:

1. ALL EXCAVATIONS MAY EXTEND DEEPER THAN THE INITIAL DEPTHS SHOWN.
2. EXCAVATIONS DEEPER THAN 3.0 FEET BGS SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
3. ALL EXCAVATIONS SHALL EXTEND NO DEEPER THAN 6.0 FEET BGS.

ONE INCH
AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

EXCAVATION SECTIONS

C-3

SHEET NO. 6 OF 6

K:\Jobs\000105-Kimberly Clark\000105-011\100% PLANS\000105011-PL-003-C1_C2_C3.dwg C-3
Oct 13, 2009 1:41pm heriksen

ANCHOR QEA

1423 Third Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287-9131
www.anchorqea.com

DESIGN BULLETIN

To: Lou Ivcevic and Mike Hammes, Ram Construction General Contractors, Inc. (Ram)

From: Rebecca Desrosiers, P.E.

Cc: Brian Martin, Kimberly-Clark Corporation (KCC)
John Laplante, Anchor QEA, LLC

Date: June 7, 2010

Project: 000105-01.10

Subject: Supplemental MJB-2 and RA-11 Remedial Excavation Areas

Comments:

The following transmittal includes information regarding supplemental excavation, disposal, and backfilling within the MJB-2 and RA-11 Remedial Excavation areas. All work shall be conducted in accordance with the Phase 4A Specifications and other requirements described in the contract between Ram and KCC. The attached drawings (C-3 and C-4) provide the new limits of excavation. The upper 1.5 feet of material below the pre-construction grade shall be excavated and segregated in a lined stockpile for testing prior to potential reuse on-site as fill. Material found to exceed site cleanup levels will be hauled to a Subtitle D landfill for disposal per the Phase 4A Specifications. Material excavated from between 1.5 to 6 feet below the pre-construction grade (bpg) shall be excavated and bunkered for TCLP testing (to be performed by Owner's Representative) to determine if on-site treatment is required. Material not requiring treatment will be hauled to a Subtitle D landfill for disposal per the project Specifications. We estimate the following excavation quantities:

Excavation Area	Volume (cubic yards)	
	0 – 1.5 feet bpg	1.5 – 6 feet bpg
MJB-2	500	1,500
RA-11a/RA-11b	100	200

Backfill and compaction of MJB-2 excavations shall be per the Phase 4A Specifications, with the exception that Ram may propose a Select Structural Fill (see material specification after this paragraph) for use between 1.5 and 6 feet below the pre-construction grade in lieu of quarry spalls. Any new materials not previously approved for on-site use as part of the Phase 4A project shall be formally submitted for approval prior to transport to the site in accordance with the Phase 4A Specifications and subject to Ecology approval (if not already obtained).

SELECT STRUCTURAL FILL

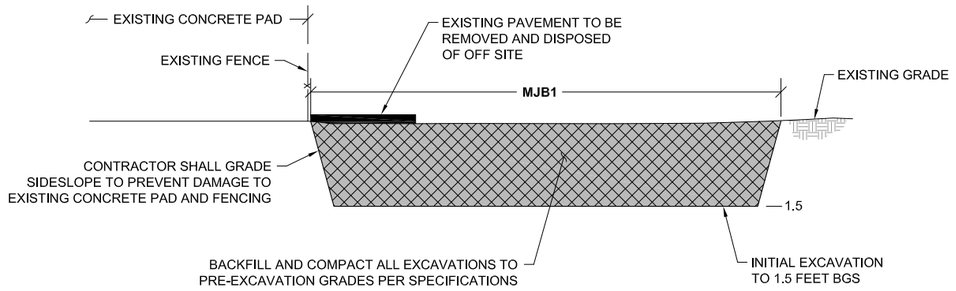
Imported structural fill used for backfilling portions of the excavations shall be an imported, clean, granular fill material free of roots, organic material, contaminants, recycled concrete or asphalt, and all other deleterious and objectionable material. The fill material shall be granular material, shall have such characteristics of size and shape that it will compact readily, and shall conform to WSDOT Section 9-03.14(1) for gravel borrow, except the maximum particle size shall be 2½ inches and the percent passing the U.S. No. 200 sieve shall be 5 percent maximum based on a wet sieve analysis of material passing the ¾-inch sieve.

Please let us know if you have any questions or require clarification of the information provided herein.

Attachments:

Drawing C-3: Excavation Sections (Revision 1)

Drawing C-4: Phase 4A and RA-11 Soil Remedial Excavation Plan



1 / C-1 TYPICAL EXCAVATION SECTION
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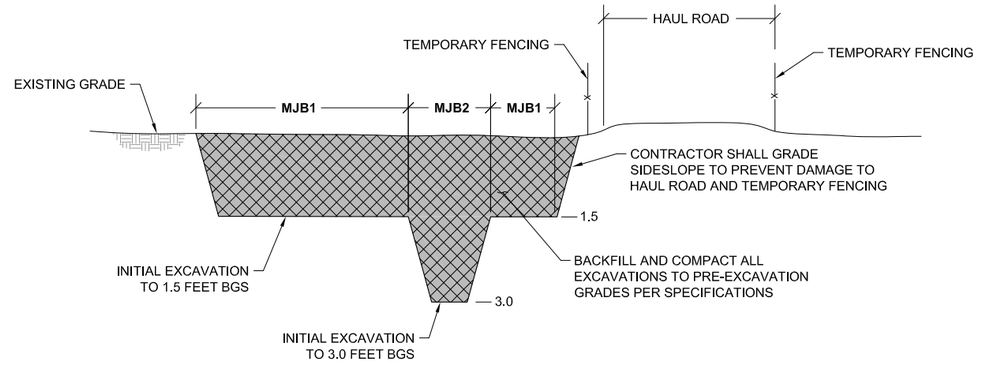
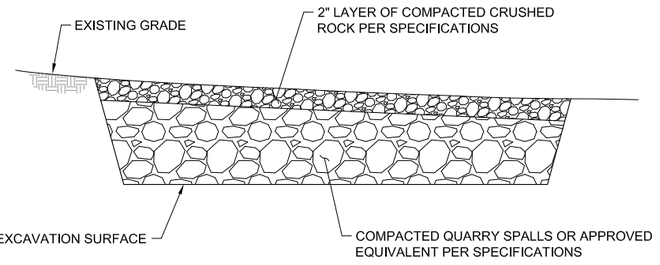


2 / C-1 TYPICAL EXCAVATION SECTION
SCALE: NOT TO SCALE



3 / C-3 TYPICAL BACKFILL SECTION
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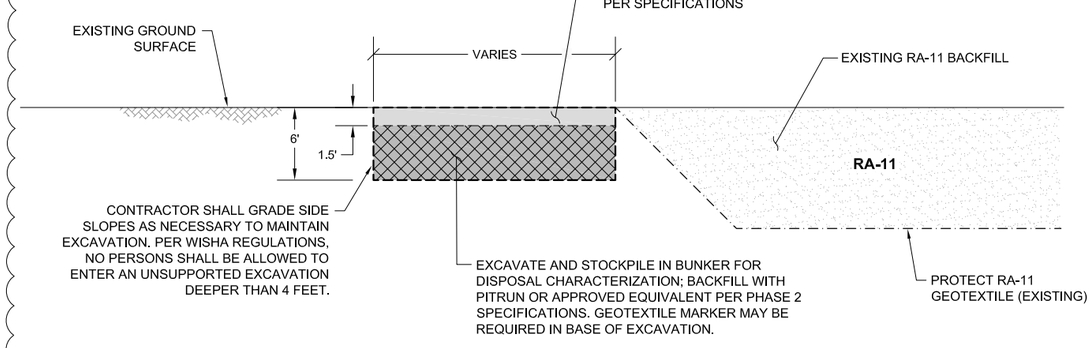


4 / C-4 TYPICAL RA-11 SECTION
SCALE: NOT TO SCALE

NOTES:

1. ALL EXCAVATIONS MAY EXTEND DEEPER THAN THE INITIAL DEPTHS SHOWN.
2. EXCAVATIONS DEEPER THAN 3.0 FEET BGS SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
3. ALL EXCAVATIONS SHALL EXTEND NO DEEPER THAN 6.0 FEET BGS UNLESS DIRECTED BY ENGINEER OR OWNER'S FIELD REPRESENTATIVE.

ONE INCH
AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	6/3/10	RD	JPL	ADDED TYPICAL SECTION 4

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

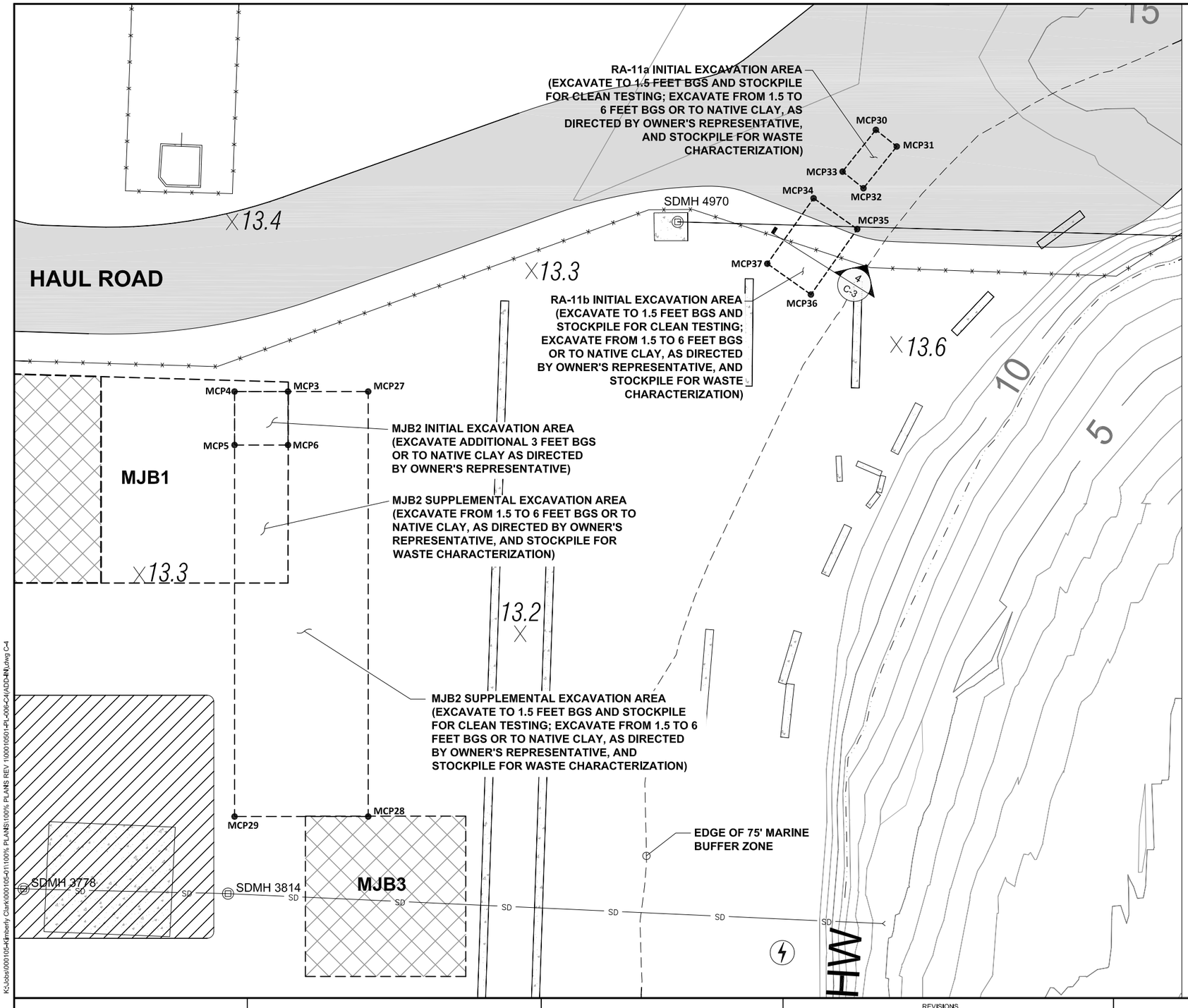
FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

EXCAVATION SECTIONS

C-3

SHEET NO. 6 OF 6

K:\Jobs\000105-Kimberly Clark\000105-011\100% PLANS\100% PLANS REV 1\000105011-PL-003-C3(REV1).dwg C-3
Jun 08, 2010 1:03pm rdesrosiers



LEGEND:

- STORM DRAIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- 13.2 X SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- INITIAL EXCAVATION AREAS
- COMPLETED EXCAVATION AREAS
- MCP3 ● PHASE 4A EXCAVATION CONTROL POINT
- 4 / C-3 CROSS SECTION LOCATION AND DESIGNATION; CROSS SECTION IDENTIFICATION; SHEET FOUND ON

POINT ID	EASTING	NORTHING
MCP3	1210178.85	555190.72
MCP4	1210158.85	555190.72
MCP5	1210158.85	555170.72
MCP6	1210178.85	555170.72
MCP27	1210208.85	555190.72
MCP28	1210208.85	555031.72
MCP29	1210158.85	555031.72
MCP30	1210398.77	555288.65

POINT ID	EASTING	NORTHING
MCP31	1210406.59	555282.43
MCP32	1210394.14	555266.78
MCP33	1210386.32	555273.00
MCP34	1210375.49	555263.06
MCP35	1210391.81	555251.51
MCP36	1210374.49	555227.01
MCP37	1210358.16	555238.56

N

0 20 40

SCALE IN FEET

NOTES:

1. EXTENT OF CONTAMINATED SOIL AND ESTIMATED LIMITS OF REMEDIAL EXCAVATION ARE BASED ON REGULATORY REQUIREMENTS AND THE EXISTING CHEMICAL ANALYTICAL AND FIELD SCREENING DATA FOR SOIL COLLECTED AT THE SAMPLE LOCATIONS SHOWN ON DRAWING G-2.
2. REMEDIAL EXCAVATION SHALL BE INITIATED AT THE DESIGNATED LOCATIONS USING APPROPRIATE SIDE SLOPES. COMPLETE SOIL EXCAVATION WITHIN THE DESIGNATED START LOCATIONS SHALL BE COMPLETED TO THE SPECIFIED LIMITS PRIOR TO ANY SIDEWALL CONFIRMATION SAMPLING. EXCAVATION SHALL PROCEED DEEPER AND/OR RADIALLY AWAY FROM THE DESIGNATED START LOCATION AT DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE BASED ON FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS. NO SOIL EXCAVATION SHALL EXPAND WATERWARD OF THE SHORELINE BUFFER ZONE OR DEEPER THAN 6 FEET BGS.
3. SEE DRAWING C-3 FOR EXCAVATION CROSS SECTIONS.
4. EXCAVATIONS MUST BE MAINTAINED OPEN UNTIL VERIFICATION IS COMPLETE AND FILLING IS APPROVED BY OWNER.
5. ALL EXCAVATION ACTIVITIES THAT EXTEND DEEPER THAN 3-FEET BELOW GROUND SURFACE AT ANY LOCATION ON MJB PROPERTY SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
6. ALL MONITORING WELLS WITHIN EXCAVATION AREAS SHALL BE ABANDONED IN ACCORDANCE WITH WASHINGTON DEPARTMENT OF ECOLOGY REQUIREMENTS (WAC 173-160-381) .
7. ALL SOIL SHALL BE STOCKPILED FOR TESTING PRIOR TO DISPOSAL OR TREATMENT. QUARRY SPALLS WITHIN THE UPPER 1.5 FEET BGS SHALL BE SEGREGATED FROM DEEPER SOIL. CONCRETE DEBRIS MAY ALSO BE SEGREGATED AND TESTED FOR ON-SITE USE AS FILL.
8. DISPOSAL FACILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO USE.
9. SOIL TRANSPORTATION TRUCKS AND TRAILERS SHALL BE COVERED DURING ALL OFF-SITE HAULING.
10. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO WORK. IN THE EVENT THAT THE WATER SUPPLY OR STORM DRAIN PIPES ARE ENCOUNTERED DURING EXCAVATION AND REQUIRE REMOVAL TO FACILITATE REMEDIAL WORK, ALL REMOVED OR DAMAGED STRUCTURES SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND WSDOT STD. PLAN B-55.20-00.
11. CONTRACTOR SHALL NOTIFY OWNER 3 DAYS PRIOR TO ESTABLISHING STOCKPILE AREAS.

ONE INCH AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	6/3/10	RD	JPL	NEW DRAWING IN ORIGINAL PHASE 4 SET

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: JUNE 2010

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

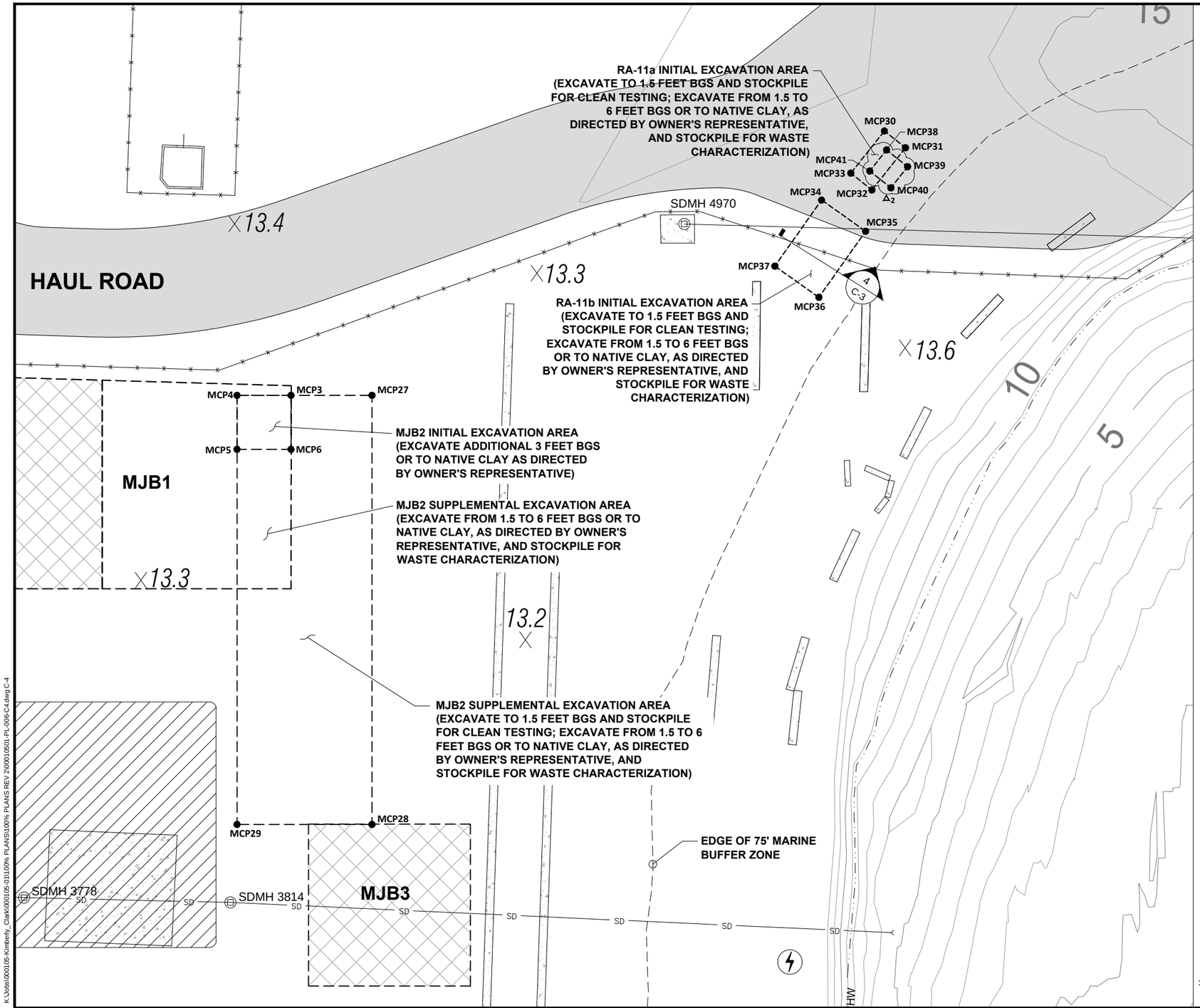
PHASE 4A AND RA11 SOIL REMEDIAL EXCAVATION PLAN

C-4

SHEET NO. 1 OF 1

K:\Jobs\000105-Kimberly Clark\000105-011\100% PLANS\100% PLANS REV 1\000105011-PL-006-C4(ADD-HN).dwg C-4

Jun 03, 2010 3:18pm herlksen



LEGEND:

- STORM DRAIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- 13.2 SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- INITIAL EXCAVATION AREAS
- COMPLETED EXCAVATION AREAS
- MCP3 PHASE 4A EXCAVATION CONTROL POINT
- CROSS SECTION LOCATION AND DESIGNATION (4 / C-3: CROSS SECTION IDENTIFICATION / SHEET FOUND ON)

POINT ID	EASTING	NORTHING
MCP3	1210178.85	555190.72
MCP4	1210158.85	555190.72
MCP5	1210158.85	555170.72
MCP6	1210178.85	555170.72
MCP27	1210208.85	555190.72
MCP28	1210208.85	555031.72
MCP29	1210158.85	555031.72
MCP30	1210398.77	555288.65
MCP31	1210406.59	555282.43
MCP32	1210394.14	555266.78

POINT ID	EASTING	NORTHING
MCP33	1210386.32	555273.00
MCP34	1210375.49	555263.06
MCP35	1210391.81	555251.51
MCP36	1210374.49	555227.01
MCP37	1210358.16	555238.56
MCP38	1210399.57	555281.63
MCP39	1210407.39	555275.40
MCP40	1210401.17	555267.58
MCP41	1210393.34	555273.80

0 20 40
SCALE IN FEET

NOTES:

1. EXTENT OF CONTAMINATED SOIL AND ESTIMATED LIMITS OF REMEDIAL EXCAVATION ARE BASED ON REGULATORY REQUIREMENTS AND THE EXISTING CHEMICAL ANALYTICAL AND FIELD SCREENING DATA FOR SOIL COLLECTED AT THE SAMPLE LOCATIONS SHOWN ON DRAWING G-2.
2. REMEDIAL EXCAVATION SHALL BE INITIATED AT THE DESIGNATED LOCATIONS USING APPROPRIATE SIDE SLOPES. COMPLETE SOIL EXCAVATION WITHIN THE DESIGNATED START LOCATIONS SHALL BE COMPLETED TO THE SPECIFIED LIMITS PRIOR TO ANY SIDEWALL CONFIRMATION SAMPLING. EXCAVATION SHALL PROCEED DEEPER AND/OR RADIALLY AWAY FROM THE DESIGNATED START LOCATION AT DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE BASED ON FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS. NO SOIL EXCAVATION SHALL EXPAND WATERWARD OF THE SHORELINE BUFFER ZONE OR DEEPER THAN 6 FEET BGS.
3. SEE DRAWING C-3 FOR EXCAVATION CROSS SECTIONS.
4. EXCAVATIONS MUST BE MAINTAINED OPEN UNTIL VERIFICATION IS COMPLETE AND FILLING IS APPROVED BY OWNER.
5. ALL EXCAVATION ACTIVITIES THAT EXTEND DEEPER THAN 3-FEET BELOW GROUND SURFACE AT ANY LOCATION ON MJB PROPERTY SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
6. ALL MONITORING WELLS WITHIN EXCAVATION AREAS SHALL BE ABANDONED IN ACCORDANCE WITH WASHINGTON DEPARTMENT OF ECOLOGY REQUIREMENTS (WAC 173-160-381) .
7. ALL SOIL SHALL BE STOCKPILED FOR TESTING PRIOR TO DISPOSAL OR TREATMENT. QUARRY SPALLS WITHIN THE UPPER 1.5 FEET BGS SHALL BE SEGREGATED FROM DEEPER SOIL. CONCRETE DEBRIS MAY ALSO BE SEGREGATED AND TESTED FOR ON-SITE USE AS FILL.
8. DISPOSAL FACILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO USE.
9. SOIL TRANSPORTATION TRUCKS AND TRAILERS SHALL BE COVERED DURING ALL OFF-SITE HAULING.
10. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO WORK. IN THE EVENT THAT THE WATER SUPPLY OR STORM DRAIN PIPES ARE ENCOUNTERED DURING EXCAVATION AND REQUIRE REMOVAL TO FACILITATE REMEDIAL WORK, ALL REMOVED OR DAMAGED STRUCTURES SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND WSDOT STD. PLAN B-55.20-00.
11. CONTRACTOR SHALL NOTIFY OWNER 3 DAYS PRIOR TO ESTABLISHING STOCKPILE AREAS.

ONE INCH AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	6/3/10	RD	JPL	NEW DRAWING IN ORIGINAL PHASE 4 SET
2	1/31/11	RD	JPL	UPDATE RA-11A

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: JUNE 2010

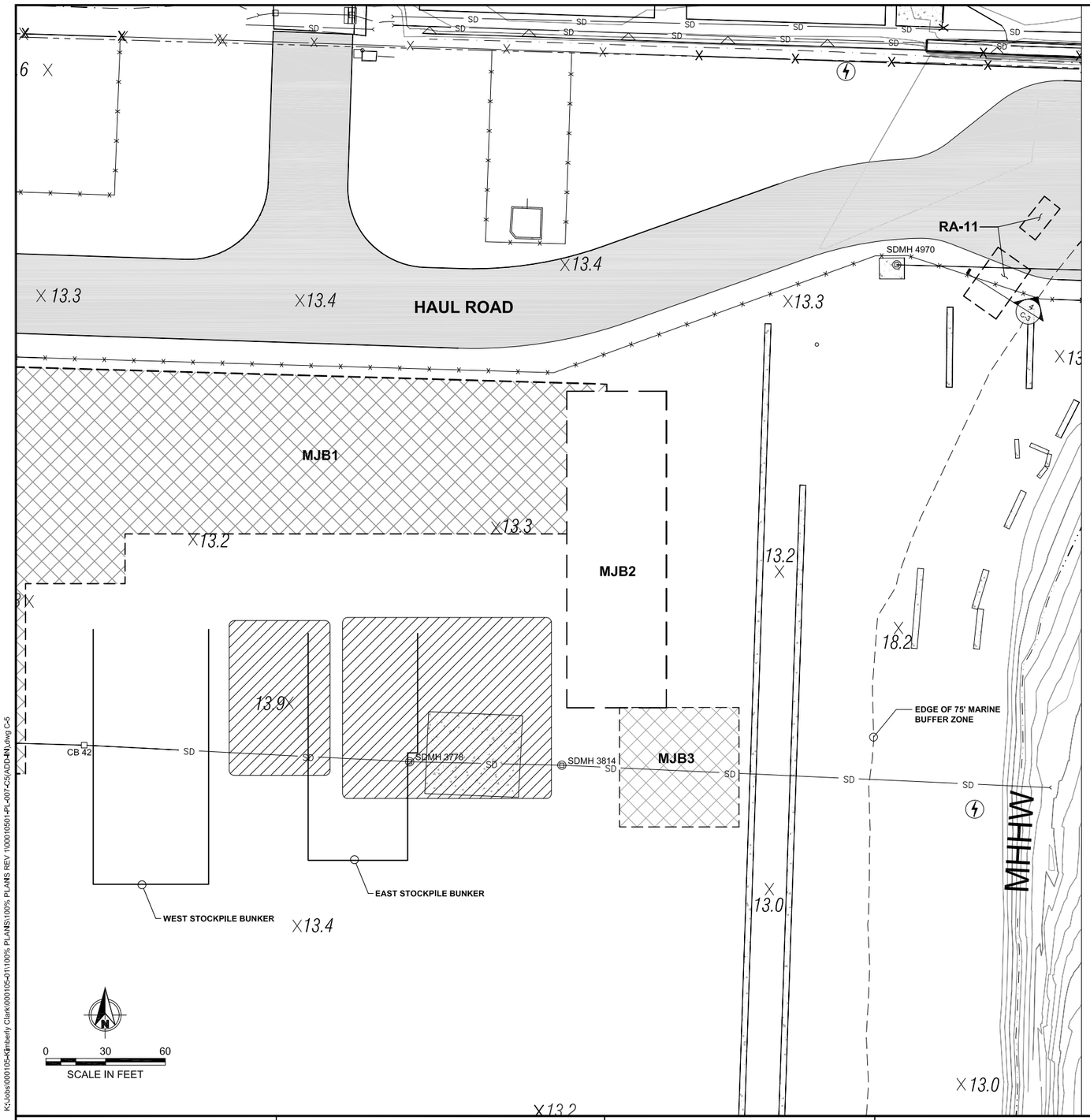
FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PHASE 4A AND RA11 SOIL REMEDIAL EXCAVATION PLAN

C-4

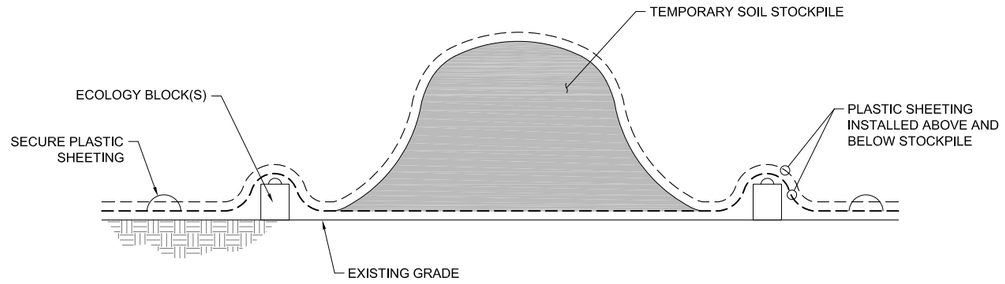
SHEET NO. 1 OF 1

K:\Jobs\0001\05-Kimberly_Clark\0001\05-011\100% PLANS\100% PLANS REV 2\0001\0501.PL-006-C4.dwg C-4
Jan 31, 2011 9:20am henksen



LEGEND:

- STORM DRAIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- INITIAL EXCAVATION AREAS
- COMPLETED EXCAVATION AREAS



1 / G-3 TYPICAL TEMPORARY EXCAVATION BUNKER DETAIL
SCALE: NOT TO SCALE

NOTES:

1. STOCKPILED SOIL WILL BE COVERED AND SECURED FROM WIND, RAIN, AND OTHER DISTURBANCES AT ALL TIMES EXCEPT DURING ACTIVE SOIL LOADING AND UNLOADING.
2. CONTRACTOR SHALL MANAGE PONDED WATER WITHIN THE STOCKPILE AREAS TO ENSURE THAT RUNOFF WATER DOES NOT MIGRATE OUTSIDE OF THE BUNKER FOOTPRINT. WATER THAT CANNOT EVAPORATE WITHIN A REASONABLE TIME, AS DETERMINED BY THE OWNER, SHALL BE PUMPEDAND RETURNED TO THE MJB2 EXCAVATION AREA FOR INFILTRATION.
3. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. EXCAVATION BUNKERS SHALL BE ESTABLISHED WITHIN THE FOOTPRINTS SHOWN.
5. SEE DRAWINGS C-1 AND C-4 FOR EXCAVATION PLANS. SEE DRAWING C-3 FOR EXCAVATION CROSS SECTIONS.
6. ALL STOCKPILES MUST BE MAINTAINED OPEN SAMPLING IS COMPLETE AND TREATMENT OR DISPOSAL IS APPROVED BY OWNER.
7. ALL SOIL SHALL BE STOCKPILED FOR TESTING PRIOR TO DISPOSAL OR TREATMENT. QUARRY SPALLS WITHIN THE UPPER 1.5 FEET BGS SHALL BE SEGREGATED FROM DEEPER SOIL. CONCRETE DEBRIS MAY ALSO BE SEGREGATED AND TESTED FOR ON-SITE USE AS FILL.
8. DISPOSAL FACILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO USE.
9. SOIL TRANSPORTATION TRUCKS AND TRAILERS SHALL BE COVERED DURING ALL OFF-SITE HAULING.
10. CONTRACTOR SHALL NOTIFY OWNER 3 DAYS PRIOR TO ESTABLISHING STOCKPILE AREAS.

ONE INCH
AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	6/23/10	RD	JPL	NEW DRAWING IN ORIGINAL PHASE 4 SET

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: JUNE 2010

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

EXCAVATION BUNKER PLAN AND DETAIL

C-5

SHEET NO. 1 OF 1

K:\Jobs\000105-Kimberly Clark\000105-011\100% PLANS\100% PLANS REV 1\000105011-PL-007-C5(ADD-IN).dwg C-5
Jun 25, 2010 3:51pm rdesrosiers

ANCHOR QEA

1423 Third Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287-9131
www.anchorqea.com

DESIGN BULLETIN

To:	Lou Ivcevic and Mike Hammes, Ram Construction General Contractors, Inc. (Ram)	**From:**	Rebecca Gardner, P.E.
Cc:	Brian Martin, Kimberly-Clark Corporation (KCC) John Laplante, Anchor QEA, LLC	**Date:**	February 10, 2011
		Project:	000105-01.09

Subject: Phase 4B MJB Remedial Excavation Areas

Comments:

The following transmittal provides information regarding Phase 4B Remedial Excavation areas for the MJB property in Anacortes, Washington.

All work shall be conducted in accordance with the technical requirements provided in the revised Phase 4A Drawings and Specifications and other requirements described in the contract between Ram and KCC. Prior to excavation, silt fences shall be installed as shown on Drawing G-4. Drawing C-3 designates the new limits of the Phase 4B excavation. Excavated material shall be directly loaded to trucks and hauled to a Subtitle D landfill for disposal per the project Specifications. We estimate a Phase 4B excavation quantities of 500 to 600 cubic yards – however this volume could increase depending on the results of confirmation sampling. All haul road remedial excavation areas (designated with an HR prefix on Drawing C-3) will be excavated to approximately 1.5 feet below existing ground surface after the haul route aggregate and geotextile is removed. Excavation depths for MJB-5 and MJB-6 are shown on Drawing C-3.

Backfill and compaction of Phase 4B excavations shall be per the Phase 4A Specifications, with the exception that Ram may propose a Select Structural Fill (see material specification after this paragraph) for use between 1.5 and 6 feet below the pre-construction grade in lieu of quarry spalls. Any new materials not previously approved for on-site use as part of the Phase 4 project

shall be formally submitted for approval prior to transport to the site in accordance with the Phase 4A Specifications and subject to Ecology approval (if not already obtained).

SELECT STRUCTURAL FILL

Imported structural fill used for backfilling portions of the excavations shall be an imported, clean, granular fill material free of roots, organic material, contaminants, recycled concrete or asphalt, and all other deleterious and objectionable material. The fill material shall be granular material, shall have such characteristics of size and shape that it will compact readily, and shall conform to WSDOT Section 9-03.14(1) for gravel borrow, except the maximum particle size shall be 2½ inches and the percent passing the U.S. No. 200 sieve shall be 5 percent maximum based on a wet sieve analysis of material passing the ¾-inch sieve.

Please let us know if you have any questions or require clarification of the information provided herein.

Attachments:

Revised Phase 4B Bid Form and Descriptions

Former Scott Paper Mill Cleanup Project - Phase 4B Revised Drawings

BID DESCRIPTIONS

Item 1: Mobilization

Not used

Item 2: Construction Surveying

Work under this item includes all construction surveying required to layout the Work, document the final extent of remedial excavation, and perform volume calculations to compute of payment quantities, in accordance with the Contract Drawings and Specification 02050. Work under this item shall also include all material and labor necessary to stake utilities located by the Owner's utility locating subcontractor. Surveys of final excavation limits shall be performed by a Professional Surveyor licensed in Washington.

No specific method of measurement will apply to the lump sum item of "Construction Surveying".

Payment will be made for the following Bid item, at the unit price shown in the bid form:

- "Construction Surveying", lump sum.

Item 3: ESC Lead

Work under this item includes providing an Erosion and Sediment Control (ESC) Lead to the implement the Erosion Control and Stormwater Pollution Prevention Plan.

ESC Lead will be measured per day for each day that an inspection is made and a report is filed.

Payment will be made for the following bid item, at the unit price shown in the bid form:

- "ESC Lead", per day.

Item 4: Silt Fence

Work under this item includes furnishing, installing, maintaining, removing, and disposing of erosion control items, in accordance with the Drawings and Specifications.

Payment will be made for the following Bid items, at the unit price shown in the Bid Form:

- "Silt Fence", per linear foot

Item 5: Inlet Protection

Not used

Item 6: Storm Drain Repair

Not used

Item 7: Well Abandonment

Not used

Item 8: Phase 4B Remedial Excavation

Work under this item includes all required activities to excavate and handle contaminated soil from within the proposed remedial excavation areas, as designated by the Owner and the Drawings. Item 8 includes a base amount of soil excavation calculated using existing site data from chemical analytical testing. The Owner's estimated amount of soil to be removed is 500 to 700 cubic yards. Additional excavation may be required to meet the cleanup requirements for the Site, as directed by Owner.

Work under this item also includes, but is not limited to, the following components associated with remedial excavation: clearing of vegetation; removal of existing pavement areas, installing and maintaining dewatering systems and water disposal; installing and maintaining shoring systems; diverting, maintaining, and replacing (if necessary, other than those noted in Item 6) all utilities encountered within excavation areas; and installing all other control measures needed to protect partially completed work and prevent sediment transport from exposed soil surfaces to surface water or adjacent non-work areas.

Payment for remedial excavation activities associated with Item 8 shall be made on a cubic yards of excavated material basis at the unit price stated in the Contractor's bid price for this pay item. The final limits of excavation will be determined by the Owner. Contingent soil beyond the estimated 500 to 700 cubic yard excavation may be elected by the Owner to complete the remedial action. Contingent soil excavation will be paid on a per cubic yard basis at the Contractor's bid price for this item (Item 9).

Measurement for this pay item shall be determined on the basis of excavation-limit surveying performed by the Contractor as approved by Owner.

Item 9: Phase 4B Transportation and Off-site disposal of Debris and Subtitle D Soil.

Work under this item includes all handling, amendment, loading, and transporting contaminated soil for disposal at an Owner-approved RCRA Subtitle D Landfill. Item 9 includes transportation and disposal of an estimated 1,250 tons of contaminated soil. All materials must meet all transportation and disposal requirements including, but not limited to allowable limits on free liquids. This amount of contaminated soil is an estimate, and the actual amount of contaminated soil to be disposed of under Item 9 may be more or less than this estimate, based on actual field conditions.

Payment for transport and disposal of all contaminated soil, including the estimated base tonnage (1,250 tons) and any contingent contaminated soil that may require transport and disposal, shall be on the basis of tons of such material, at the unit price stated in the Contractor's bid price for this pay item.

Measurement for this pay item shall be determined on the basis of disposal records (e.g., weight tickets) provided by Owner-approved landfill.

Item 10: Phase 4B Purchase, Deliver, and Place Excavation Marker

Work under this item includes furnishing and placing an Owner-approved marker (e.g., geotextile or construction safety fencing) at the base of the remedial excavation areas where soil greater than Site cleanup levels has been left in place in accordance with the Cleanup Action Plan.

Measurement for this item shall be determined on the basis of excavation-limit surveying performed by the Contractor as approved by Owner. Payment will be made for the following Bid item, at the unit price shown in the Bid Form:

- "Phase 4A Purchase, Deliver, and Place Excavation Marker", per square foot

Item 11: Phase 4B Purchase, Deliver, Place, Compact, and Grade Imported Quarry Spalls

Work under this item includes all activities associated with the purchase and transport of imported backfill to the site as described in the Drawings and Specifications. This work includes purchasing and transporting certified clean material, as approved by the Owner, in accordance with the Drawings and Specifications. The quantity estimate for Item 11 is 1,150 tons of quarry spalls, but the actual amount of material that may be required to achieve the designated final grade may be more or less than this estimate.

Payment for backfilling activities shall be on the basis of tons of quarry spalls purchased and transported to the site, including the estimated base tonnage (1,150 tons) and any contingent backfilling that may be required, at the unit price stated in the Contractor's bid price for this pay item. Measurement for this pay item shall be determined on the basis of purchase records.

Item 12: Phase 4B Purchase, Deliver, Place, Compact, and Grade Imported Crushed Rock

Work under this item includes all activities associated with the purchase and transport of imported backfill to the site as described in the Drawings and Specifications. This work includes purchasing and transporting certified clean material, as approved by the Owner, in accordance with the Drawings and Specifications. The quantity estimate for Item 12 is 100 tons of crushed, but the actual amount of material that may be required to achieve the designated final grade may be more or less than this estimate.

Payment for backfilling activities shall be on the basis of tons of crushed rock purchased and transported to the site, including the estimated base tonnage (100 tons) and any contingent backfilling that may be required, at the unit price stated in the Contractor's bid price for this pay item. Measurement for this pay item shall be determined on the basis of purchase records.

Item 13: Excavate, Stockpile, and Load Haul Route Aggregate and Geotextile

Work under this item includes all activities associated with the excavation of the remaining haul road aggregate installed by the Port, removing the geotextile underlying the haul route, temporarily stockpiling this material (if necessary due to schedule constraints) and loading of Port-supplied trucks for off-site disposal of the haul route aggregate and geotextile. The quantity estimate for Item 13 is 500 tons, but the actual amount of material may be more or less than this estimate. Measurement for this pay item shall be determined on the basis of weight tickets provided by the Port's shipper. This item does not include offsite transportation and disposal, which will be performed by the Port.

Item 14: Maintain Wheel Wash

Work under this item includes all labor, equipment, and materials required to maintain the existing wheel wash for the duration of the Phase 4B and RA-11 work.

Payment will be made at the unit rate shown on the bid form, for each maintenance event that is required based on usage of the wheel wash during the Phase 4B and RA-11 work. The quantity estimate for Item 14 is 2 events, but the actual number of maintenance events necessary may be more or less than this

estimate based on the usage of the wheel wash during the work. The Contractor shall notify the Engineer in advance of planned maintenance for approval of payment for this bid item.

Item 15: Move Wheel Wash to Port of Anacortes Pier 2 Facility

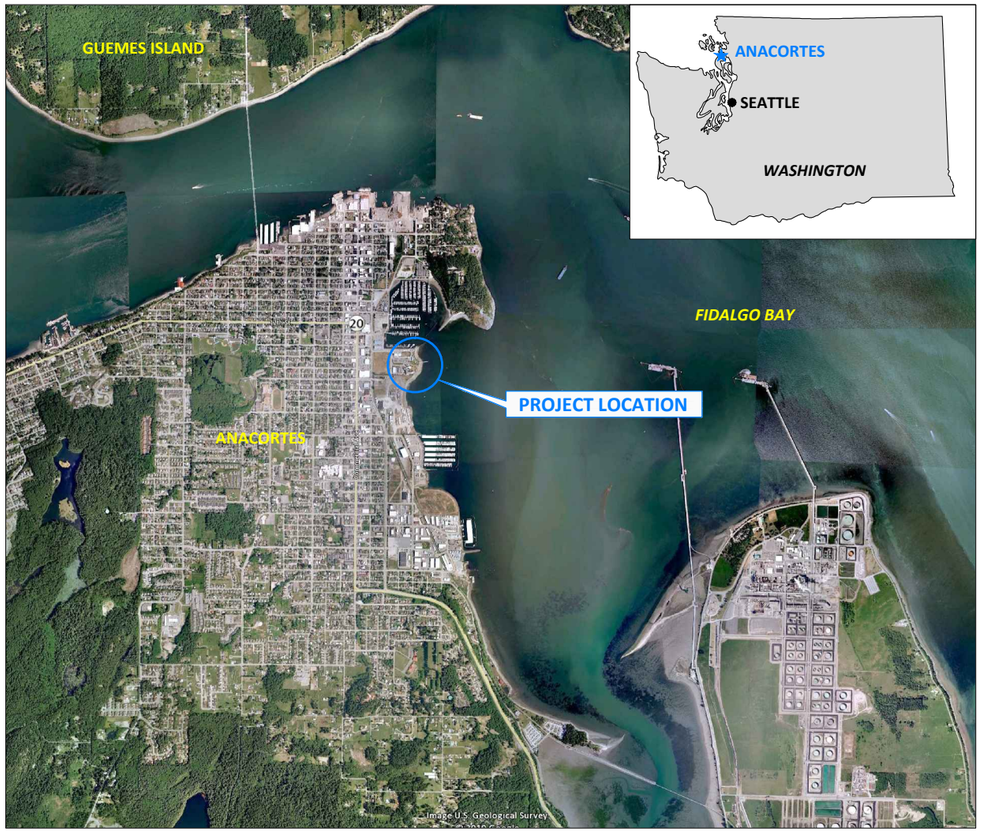
Work under this item includes all labor, equipment, and materials required to disconnect and remove the wheel wash from its current location on the MJB haul road, and to move the wheel wash and unload it at a Port of Anacortes-specified location at the Port's Pier 2 facility. Work will be performed at the direction of the Engineer once it has been determined that the wheel wash will no longer be used for Phase 4B or RA-11 construction activities.

FINAL

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4B

KIMBERLY-CLARK CORPORATION

VICINITY MAP



AERIAL SOURCE : Google Earth Pro, 2010.

0 2000 4000
SCALE IN FEET

DRAWING INDEX

SHEET SEQUENCE	SHEET NO.	SHEET TITLE
1	G-1	COVER SHEET
2	G-2	EXISTING CONDITIONS
3	G-3	PHASE 4A WORK AREA AND EROSION CONTROL PLAN
4	G-4	PHASE 4B WORK AREA AND EROSION CONTROL PLAN
5	C-1	PHASE 4A SOIL REMEDIAL EXCAVATION PLAN
6	C-2	PHASE 4B SOIL REMEDIAL EXCAVATION PLAN
7	C-3	EXCAVATION SECTIONS

ANCHOR QEA
1423 3RD AVENUE, SUITE 300 | SEATTLE, WA 98101 | (206) 287-9130

KIMBERLY-CLARK

KIMBERLY-CLARK CORPORATION

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4B

FINAL SUBMITTAL

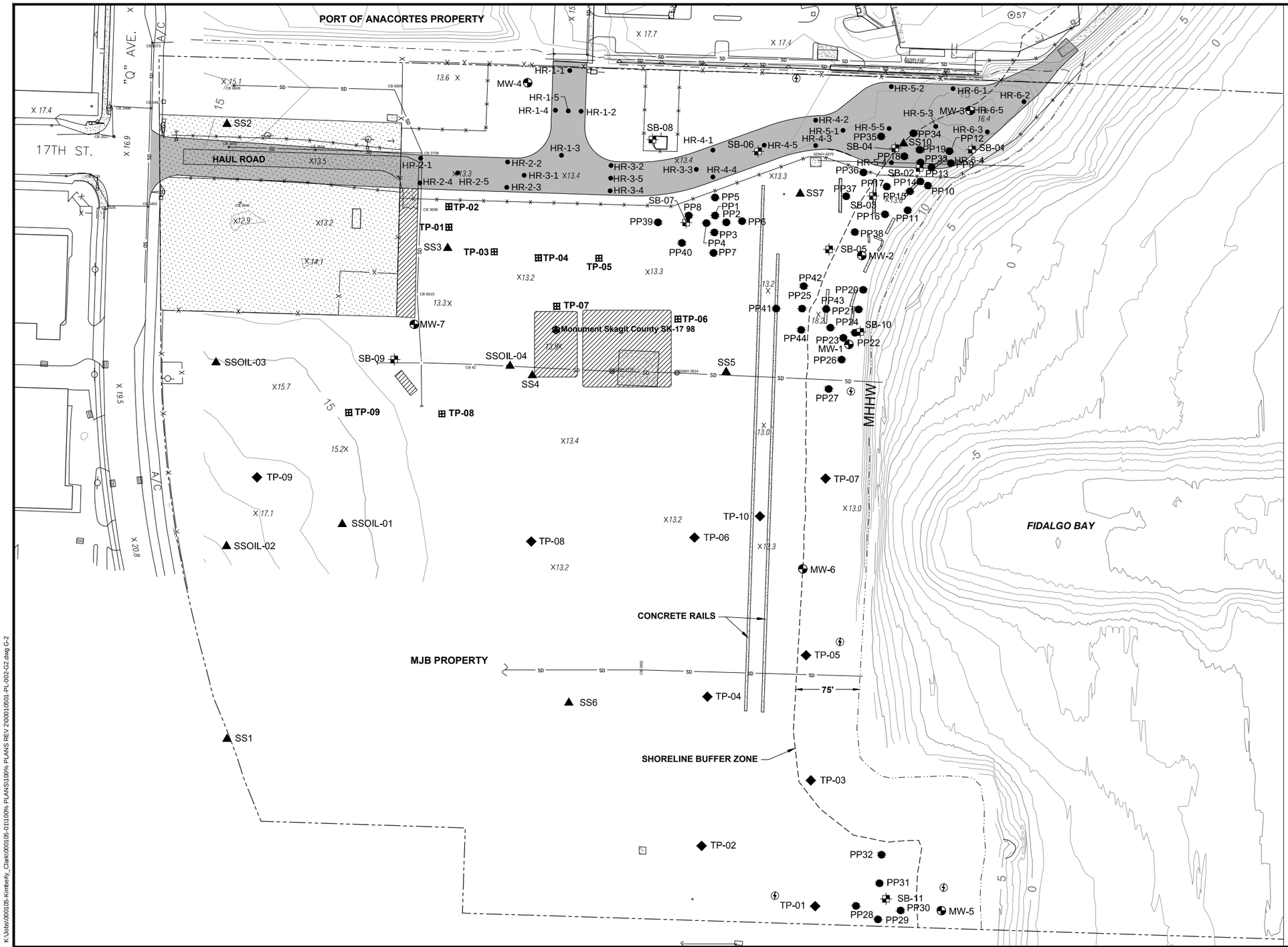
ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

DESIGNED BY: R. GARDNER
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

G-1

SHEET NO. 1 OF 7

Jan 28, 2011 2:01pm heriksen K:\Jobs\000105-Kimberly_Clark\000105-011\100% PLANS\100% PLANS REV 2\00010501-PL-001-G1.dwg G-1



LEGEND:

- MONITORING WELL LOCATION
- PUSH PROBE SOIL SAMPLE LOCATION
- TEST PIT SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- SOIL BORING LOCATION
- SKAGIT COUNTY MONUMENT
- STORM DRAIN
- CATCH BASIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD (BY OTHERS)
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- TRUCK WASH (BY OTHERS)
- MJB4 INITIAL EXCAVATION AREAS

0 60 120
SCALE IN FEET

NOTES:

1. ELEVATION CONTOURS GENERATED FROM SPOT ELEVATIONS PROVIDED IN MAPPING BY DAVID C. SMITH AND ASSOCIATES, PORTLAND, OREGON, DATED 07/17/03.

ONE INCH AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/2009	RD	RD	UPDATE UTILITIES

DESIGNED BY: R. DEBOOSER
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL
CLEANUP PROJECT - PHASE 4

EXISTING CONDITIONS

G-2

SHEET NO. 2 OF 7

K:\Jobs\000105-Kimberly_Clark\000105-011\100% PLANS\100% PLANS REV 2\000105001-PL-002-G2.dwg G-2
Jan 28, 2011 2:02pm herlksen

PORT OF ANACORTES PROPERTY

MJB1

MJB2

MJB3

MJB4

INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00

INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.10-00 OR I-40.20-00

CONCRETE RAILS

MJB PROPERTY

75'

SHORELINE BUFFER ZONE

INSTALL HIGH VISIBILTY FENCING PER WSDOT STD. PLAN I-10.10-00

INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00

MHHW

FIDALGO BAY

LEGEND:

- STORM DRAIN
- CATCH BASIN
- BATHYMETRIC CONTOUR IN FEET
- SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD (BY OTHERS)
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- MJB4 INITIAL EXCAVATION AREAS
- PHASE 4A WORK AREA
- SILT FENCE (INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00)
- HIGH VISIBILITY FENCE (INSTALL HIGH VISIBILITY FENCE PER WSDOT STD. PLAN I-10.10-00)

0 60 120

SCALE IN FEET

NOTES:

1. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTY OR WATERWAY, ALL CONSTRUCTION WORK WITHIN THE WORK AREA THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.
4. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS EROSION CONTROL PLAN NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
5. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON SITE TO PREVENT DEBRIS, DUST, AND MUD FROM ACCUMULATING ON PUBLIC RIGHT-OF-WAYS.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL DEVICES UPON FINAL SITE STABILIZATION AND APPROVAL BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION/WATER POLLUTION CONTROLS FOR CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREAS, AS NEEDED.
8. INLET PROTECTION SHALL BE INSTALLED PER WSDOT STD. PLAN I-40.10-00 OR I-40.20-00, AS PRACTICABLE, TO PROTECT ALL CATCH BASINS LOCATED WITHIN THE WORK AREA. CATCH BASINS LOCATED WITHIN EXCAVATION AREAS REQUIRING REMOVAL SHALL BE REPLACED WITH EQUIVALENT STRUCTURES CONFORMING TO WSDOT STD. PLANS AND AS APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

K:\Jobs\000105-Kimberly_Clark\000105-011\09% PLANS\100% PLANS REV 2\000105101-PL-002-G3.dwg G-3

Jan 28, 2011 2:17pm heriksen

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/2009	RD	RD	UPDATE UTILITIES

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PHASE 4A WORK AREA AND EROSION CONTROL PLAN

G-3

SHEET NO. 3 OF 7

PORT OF ANACORTES PROPERTY

INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00

INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.10-00 OR I-40.20-00

CONCRETE RAILS

MJB PROPERTY

75'

SHORELINE BUFFER ZONE

INSTALL HIGH VISIBILTY FENCING PER WSDOT STD. PLAN I-10.10-00

MHHW

FIDALGO BAY

LEGEND:

- STORM DRAIN
- CATCH BASIN
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD (BY OTHERS)
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- MJB4 INITIAL EXCAVATION AREAS
- PHASE 4A WORK AREA
- SILT FENCE (INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00)
- HIGH VISIBILITY FENCE (INSTALL HIGH VISIBILITY FENCE PER WSDOT STD. PLAN I-10.10-00)

0 60 120

SCALE IN FEET

NOTES:

1. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTY OR WATERWAY, ALL CONSTRUCTION WORK WITHIN THE WORK AREA THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.
4. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS EROSION CONTROL PLAN NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
5. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON SITE TO PREVENT DEBRIS, DUST, AND MUD FROM ACCUMULATING ON PUBLIC RIGHT-OF-WAYS.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL DEVICES UPON FINAL SITE STABILIZATION AND APPROVAL BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION/WATER POLLUTION CONTROLS FOR CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREAS, AS NEEDED.
8. INLET PROTECTION SHALL BE INSTALLED PER WSDOT STD. PLAN I-40.10-00 OR I-40.20-00, AS PRACTICABLE, TO PROTECT ALL CATCH BASINS LOCATED WITHIN THE WORK AREA. CATCH BASINS LOCATED WITHIN EXCAVATION AREAS REQUIRING REMOVAL SHALL BE REPLACED WITH EQUIVALENT STRUCTURES CONFORMING TO WSDOT STD. PLANS AND AS APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

K:\Jobs\000105-Kimberly_Clark\000105-011\00% PLANS\100% PLANS REV 2\000105101-PL-002-G4.dwg G-4

Jan 31, 2011 9:45am herikSen

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	11/2009	RD	RD	UPDATE UTILITIES

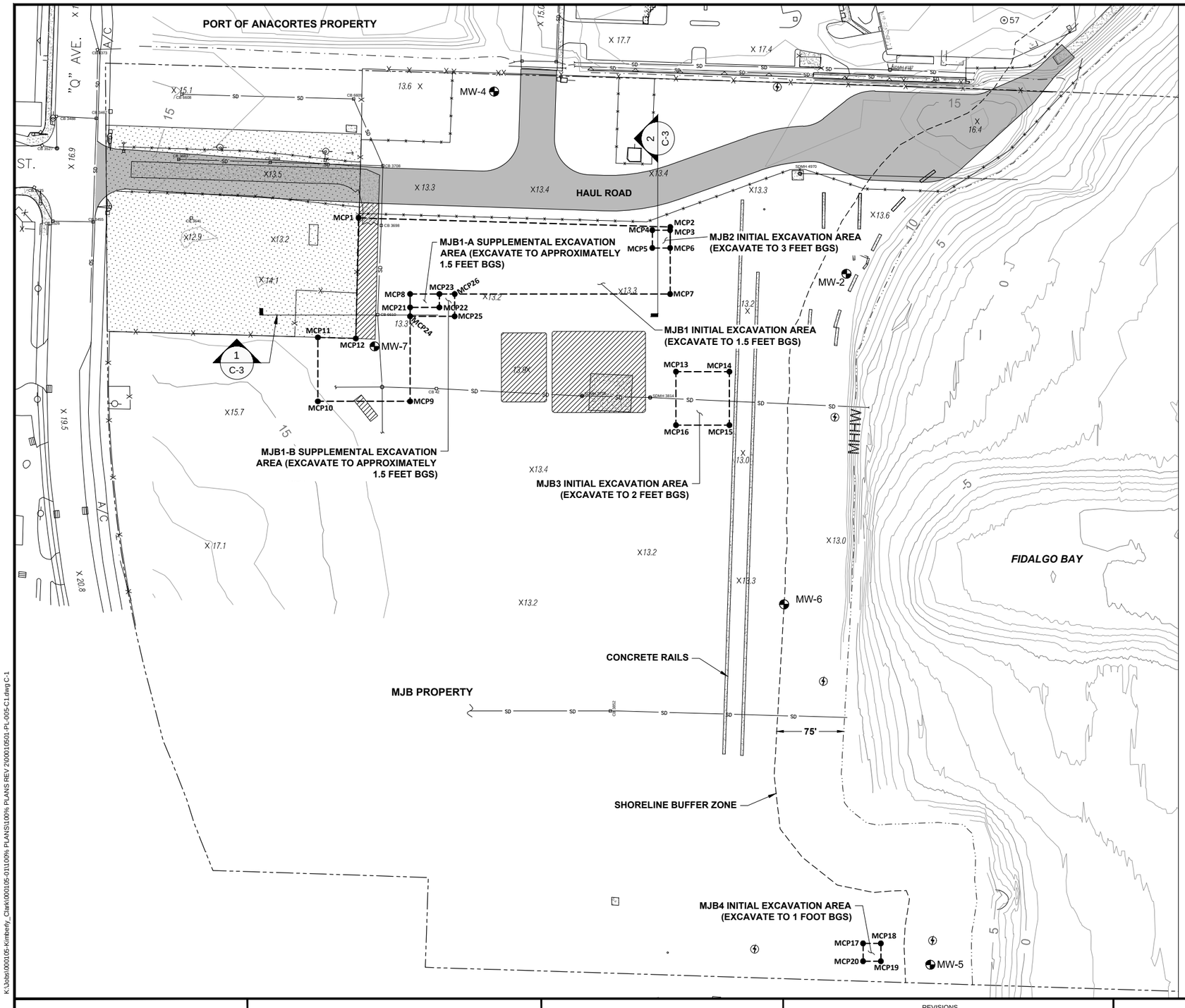
DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PHASE 4B WORK AREA AND EROSION CONTROL PLAN

G-4

SHEET NO. 4 OF 7



LEGEND:

- MW-2 — MONITORING WELL LOCATION
- SD — STORM DRAIN
- CB 42 — CATCH BASIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 — SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- INITIAL EXCAVATION AREAS
- MCP1 — PHASE 4A EXCAVATION CONTROL POINT
- 1 / C-3 — CROSS SECTION LOCATION AND DESIGNATION; CROSS SECTION IDENTIFICATION SHEET FOUND ON

POINT ID	EASTING	NORTHING
MCP1	1209829.00	555204.42
MCP2	1210178.95	555194.28
MCP3	1210178.85	555190.72
MCP4	1210158.85	555190.72
MCP5	1210158.85	555170.72
MCP6	1210178.85	555170.72
MCP7	1210178.85	555119.07
MCP8	1209886.94	555119.07
MCP9	1209886.94	554998.60
MCP10	1209783.32	554998.60
MCP11	1209783.32	555070.38
MCP12	1209825.91	555069.21
MCP13	1210185.34	555031.86

POINT ID	EASTING	NORTHING
MCP14	1210245.34	555031.86
MCP15	1210245.34	554971.86
MCP16	1210185.34	554971.86
MCP17	1210395.40	554390.20
MCP18	1210415.40	554390.20
MCP19	1210415.40	554370.20
MCP20	1209886.94	554370.20
MCP21	1210395.40	555104.07
MCP22	1209919.74	555104.07
MCP23	1209919.74	555119.07
MCP24	1209886.94	555094.07
MCP25	1209936.94	555094.07
MCP26	1209936.94	555119.07

0 60 120
SCALE IN FEET

NOTES:

1. EXTENT OF CONTAMINATED SOIL AND ESTIMATED LIMITS OF REMEDIAL EXCAVATION ARE BASED ON REGULATORY REQUIREMENTS AND THE EXISTING CHEMICAL ANALYTICAL AND FIELD SCREENING DATA FOR SOIL COLLECTED AT THE SAMPLE LOCATIONS SHOWN ON DRAWING G-2.
2. REMEDIAL EXCAVATION SHALL BE INITIATED AT THE DESIGNATED LOCATIONS USING APPROPRIATE SIDE SLOPES. COMPLETE SOIL EXCAVATION WITHIN THE DESIGNATED START LOCATIONS SHALL BE COMPLETED TO THE SPECIFIED LIMITS PRIOR TO ANY SIDEWALL CONFIRMATION SAMPLING. EXCAVATION SHALL PROCEED DEEPER AND/OR RADIALLY AWAY FROM THE DESIGNATED START LOCATION AT DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE BASED ON FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS. NO SOIL EXCAVATION SHALL EXPAND WATERWARD OF THE SHORELINE BUFFER ZONE OR DEEPER THAN 6 FEET BGS.
3. SEE DRAWING C-3 FOR EXCAVATION CROSS SECTIONS.
4. EXCAVATIONS MUST BE MAINTAINED OPEN UNTIL VERIFICATION IS COMPLETE AND FILLING IS APPROVED BY OWNER.
5. ALL EXCAVATION ACTIVITIES THAT EXTEND DEEPER THAN 3-FEET BELOW GROUND SURFACE AT ANY LOCATION ON MJB PROPERTY SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
6. ALL MONITORING WELLS WITHIN EXCAVATION AREAS SHALL BE ABANDONED IN ACCORDANCE WITH WASHINGTON DEPARTMENT OF ECOLOGY REQUIREMENTS (WAC 173-160-381) .
7. ALL SOIL SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH RCRA AND MTCA REQUIREMENTS.
8. DISPOSAL FACILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO USE.
9. SOIL TRANSPORTATION TRUCKS AND TRAILERS SHALL BE COVERED DURING ALL OFF-SITE HAULING.
10. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO WORK. IN THE EVENT THAT THE WATER SUPPLY OR STORM DRAIN PIPES ARE ENCOUNTERED DURING EXCAVATION AND REQUIRE REMOVAL TO FACILITATE REMEDIAL WORK, ALL REMOVED OR DAMAGED STRUCTURES SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND WSDOT STD. PLAN B-55.20-00.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	1/19/10	RD	JPL	MJB1-A EXCAVATION ADDED, POINT
2	2/4/10	RD	JPL	MJB1-B EXCAVATION ADDED, POINT

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

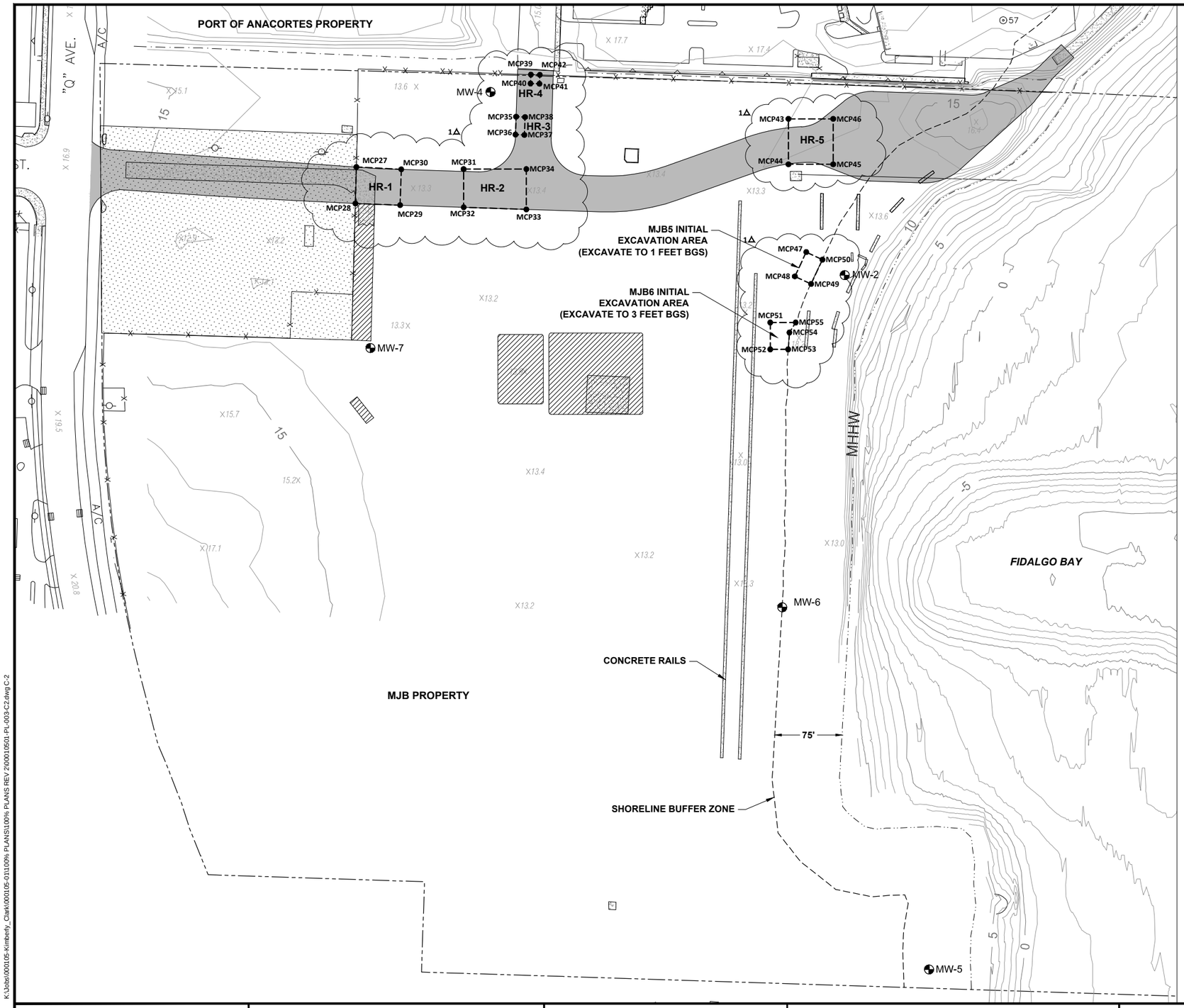
PHASE 4A SOIL REMEDIAL EXCAVATION PLAN

C-1

SHEET NO. 5 OF 6

K:\Jobs\000105-Kimberly_Clark\000105-011\00% PLANS\100% PLANS REV 2\000105101-PL-005-C1.dwg C-1

Jan 28, 2011 2:08pm heriksen



LEGEND:

- MW-2 — MONITORING WELL LOCATION
- SD — STORM DRAIN
- CB 42 — CATCH BASIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 — SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- INITIAL EXCAVATION AREAS
- 1Δ MCP1 — PHASE 4B EXCAVATION CONTROL POINT

POINT ID	EASTING	NORTHING
MCP27	1209831.25	555262.45
MCP28	1209830.12	555221.72
MCP29	1209880.09	555219.86
MCP30	1209881.43	555259.84
MCP31	1209951.05	555260.18
MCP32	1209951.08	555217.48
MCP33	1210021.09	555215.14
MCP34	1210021.09	555260.18
MCP35	1210009.64	555318.63
MCP36	1210008.96	555298.64
MCP37	1210018.95	555298.30
MCP38	1210019.63	555318.29
MCP39	1210026.09	555365.74
MCP40	1210025.76	555355.75
MCP41	1210035.75	555355.41

POINT ID	EASTING	NORTHING
MCP42	1210036.09	555365.41
MCP43	1210313.81	555316.23
MCP44	1210313.81	555265.53
MCP45	1210363.81	555265.53
MCP46	1210363.81	555316.23
MCP47	1210333.69	555167.47
MCP48	1210321.02	555140.29
MCP49	1210339.14	555131.83
MCP50	1210351.82	555159.02
MCP51	1210293.59	555088.82
MCP52	1210293.59	555058.82
MCP53	1210313.59	555058.82
MCP54	1210314.98	555077.62
MCP55	1210321.96	555088.82

0 60 120
SCALE IN FEET

NOTES:

1. EXTENT OF CONTAMINATED SOIL AND ESTIMATED LIMITS OF REMEDIAL EXCAVATION ARE BASED ON REGULATORY REQUIREMENTS AND THE EXISTING CHEMICAL ANALYTICAL AND FIELD SCREENING DATA FOR SOIL COLLECTED AT THE SAMPLE LOCATIONS SHOWN ON DRAWING G-2.
2. REMEDIAL EXCAVATION SHALL BE INITIATED AT THE DESIGNATED LOCATIONS USING APPROPRIATE SIDE SLOPES. COMPLETE SOIL EXCAVATION WITHIN THE DESIGNATED START LOCATIONS SHALL BE COMPLETED TO THE SPECIFIED LIMITS PRIOR TO ANY SIDEWALL CONFIRMATION SAMPLING. EXCAVATION SHALL PROCEED DEEPER AND/OR RADIALLY AWAY FROM THE DESIGNATED START LOCATION AT DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE BASED ON FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS. NO SOIL EXCAVATION SHALL EXPAND WATERWARD OF THE SHORELINE BUFFER ZONE OR DEEPER THAN 6 FEET BGS.
3. SEE DRAWING C-3 FOR EXCAVATION CROSS SECTIONS.
4. EXCAVATIONS MUST BE MAINTAINED OPEN UNTIL VERIFICATION IS COMPLETE AND FILLING IS APPROVED BY OWNER.
5. ALL EXCAVATION ACTIVITIES THAT EXTEND DEEPER THAN 3-FEET BELOW GROUND SURFACE AT ANY LOCATION ON MJB PROPERTY SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
6. ALL MONITORING WELLS WITHIN EXCAVATION AREAS SHALL BE ABANDONED IN ACCORDANCE WITH WASHINGTON DEPARTMENT OF ECOLOGY REQUIREMENTS (WAC 173-160-381) .
7. ALL SOIL SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH RCRA AND MTCA REQUIREMENTS.
8. DISPOSAL FACILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO USE.
9. SOIL TRANSPORTATION TRUCKS AND TRAILERS SHALL BE COVERED DURING ALL OFF-SITE HAULING.
10. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO WORK. IN THE EVENT THAT THE WATER SUPPLY OR STORM DRAIN PIPES ARE ENCOUNTERED DURING EXCAVATION AND REQUIRE REMOVAL TO FACILITATE REMEDIAL WORK, ALL REMOVED OR DAMAGED STRUCTURES SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND WSDOT STD. PLAN B-55.20-00.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

DRAFT - NOT FOR CONSTRUCTION

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

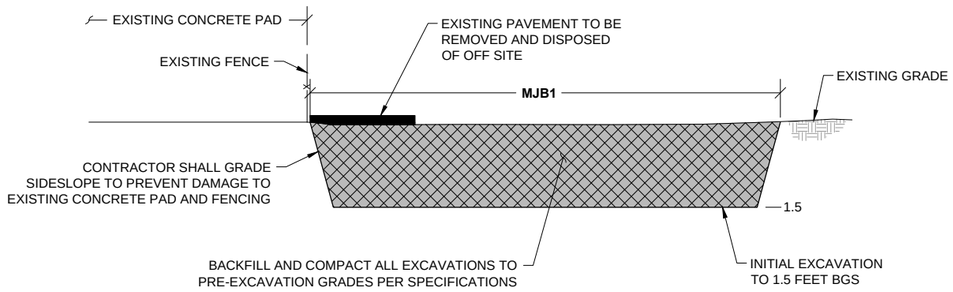
FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PRELIMINARY PHASE 4B SOIL REMEDIAL EXCAVATION AREAS - NOT FOR CONSTRUCTION

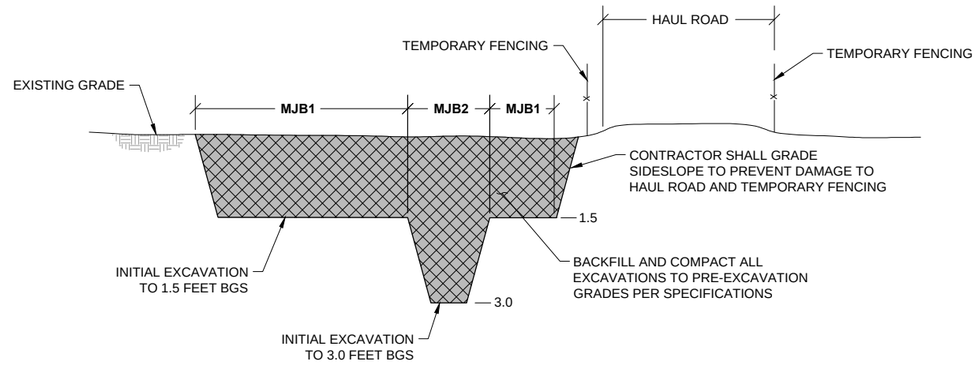
C-2

SHEET NO. 6 OF 7

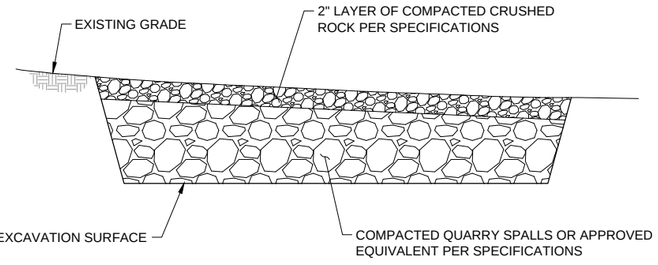
K:\Jobs\0001\05-Kimberly_Clark\0001\05-011\100% PLANS\100% PLANS REV 2\0001\0501-PL-003-C2.dwg C-2
Jan 31, 2011 9:56am hierksen



1 / C-1 TYPICAL EXCAVATION SECTION
SCALE: NOT TO SCALE



2 / C-1 TYPICAL EXCAVATION SECTION
SCALE: NOT TO SCALE



3 / C-3 TYPICAL BACKFILL SECTION
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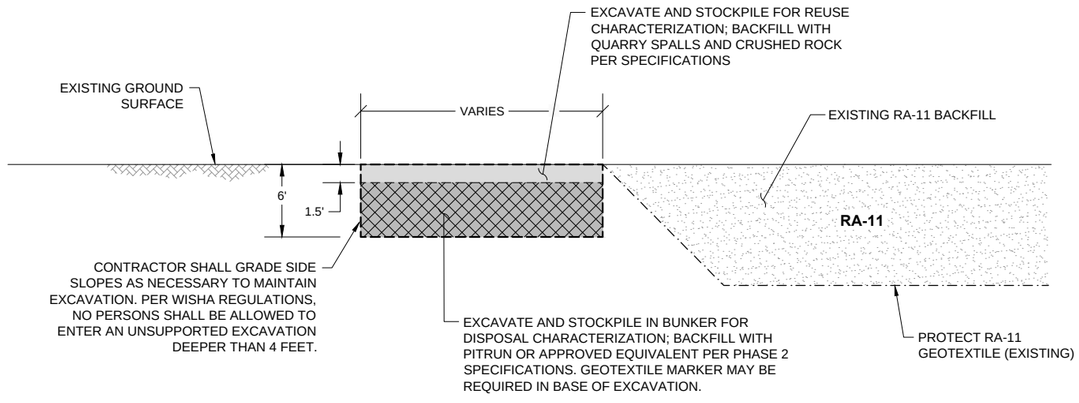

4 / C-4 TYPICAL RA-11 SECTION
SCALE: NOT TO SCALE

NOTES:

1. ALL EXCAVATIONS MAY EXTEND DEEPER THAN THE INITIAL DEPTHS SHOWN.
2. EXCAVATIONS DEEPER THAN 3.0 FEET BGS SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
3. ALL EXCAVATIONS SHALL EXTEND NO DEEPER THAN 6.0 FEET BGS UNLESS DIRECTED BY ENGINEER OR OWNER'S FIELD REPRESENTATIVE.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION
1	6/3/10	RD	JPL	ADDED TYPICAL SECTION 4

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

EXCAVATION SECTIONS

C-3

SHEET NO. 7 OF 7

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Jan 28, 2011 4:10pm lherksen

APPENDIX B
CONTRACTOR'S WORK PLANS

Waste Excavation and Disposal Plan
Former Scott Paper Mill Phase 4A
Anacortes, Washington

Prepared for:

Kimberly-Clark Corporation
1400 Holcomb Bridge Road
Roswell, GA 30076

Prepared by:

Ram Construction General Contractors Inc.
4290 Pacific Highway
Bellingham, WA 98226

December 2nd 2009

TABLE OF CONTENTS

WASTE EXCAVATION AND DISPOSAL PLAN

Former Scott Paper Mill Clean Up – Phase 4A
Anacortes, WA

1.0 INTRODUCTION

Ram Construction General Contractors Inc., (Ram) is pleased to submit this Waste Excavation and Disposal Plan (WEDP) for the Former Scott Paper Mill Phase 4 MJB Clean Up project. The purpose of this plan is to outline the process of the waste removal, waste handling and waste disposal.

1.1 Site Location

The site is located off the west shore of Fidalgo Bay in downtown Anacortes, Washington. Within Anacortes, the site is located roughly at the intersection of 17th Street and Q Avenue. The site is defined to the east by Fidalgo Bay, the north by Seafarers Way with marina buffer to the north and Q Avenue to the west. The site boundary is roughly defined tidelands and small commercial developments to approximately 20th Street.

The site is currently owned by the MJB Properties (MJB) and consists of a mostly vacant lot on the north end with remnants of old boat building molds and the southwest side is active industrial building. The entire east boundary of the site is contains tidelands and old industrial debris.

1.2 Past Uses of the Site

Based on review of the project specifications and historical data for the area the project site used to serve as a lumber mill from the late 1800's to around 1925 when it was converted into a pulp mill. The pulp mill was operated on the project site from 1925 on through the late 1970's. In 1979 POA purchased the property to be used for miscellaneous purposes consisting of; log yard, boat manufacturing plant, staging areas for oil equipment and storage. MJB purchased the southern portion of the property in 1990 and in 1998 POA sold the middle section of the property to Sun Healthcare Systems.

1.3 Evidence of Buried Materials

Based on historical and available analytical data for the site, pulp and lumber mill operations deposited or discharged the following contaminates on or within the site limits:

- Petroleum Hydrocarbons (TPH's)
- Polynuclear Aromatic Hydrocarbons (PAH's)
- Polychlorinated Biphenyls (PCB's)
- Dioxins/Furans
- Phthalates
- O-Cresol (2-methyl phenol)
- Heavy Metals

Phase 4A contaminants of concern include metals and PAH's.

2.0 PROPOSED CLEAN UP APPROACH

The proposed clean up approach for the subsurface contaminates is waste removal through conventional excavation methods. All contaminates will be removed by a Hitachi Ex 450 excavator and a Hitachi Ex 225 excavator.

3.0 PLAN FOR EXCAVATION OF CONTAMINATES

Remedial excavation of contaminates will be performed by Ram and conducted consistent with best management practices in our industry. Kimberly Clark (KC) personnel will be onsite to monitor the excavation and removal process.

3.1 Contaminate Excavation

The extent of the contaminated soil excavations are delineated inside the areas marked as MJB 1-4. These areas have been staked by a professional land surveyor and flagged in the field. The contaminate materials will be excavated to 1.5' on area 1 &3, 1' in area 4 and 3' in area 2. Additional excavation and depths will be determined by KC personnel. All materials will either be temporarily stockpiled onsite in lined bunkers awaiting transport or be directly loaded into haul trucks. KC will obtain confirmation soil samples from the contaminated soils and evaluate the chemical analytical results relative to the site-specific screening levels. The test results will determine whether or not additional excavation is needed prior to capping the excavations with quarry spalls and crushed rock.

3.2 Guidelines

The following guidelines will be in place to reduce exposure for contaminated materials.

- All site workers will be required to don all required personal protection equipment (PPE) prior to entering the site.
- Excavated materials will be hauled direct from the outlined areas to the lined bunkers or directly loaded out. At no time will trucks or equipment be allowed to leave the project site without being thoroughly cleaned of contaminate or overburden materials.
- In an effort to maintain site stabilization and cleanliness, Ram will not perform excavations during severe weather events.
- All site workers will be provided with a changing room and clean clothes to change into prior to leaving the site.
- All vehicles that enter the site and come in contact with either overburden or contaminate materials will be thoroughly cleaned prior to leaving the site to avoid track out.
- Ram will maintain a strong perimeter around the site to ensure that non site workers area kept out of the area.
- All site workers will have current 40 hr HAZWOPER training.

3.3 Backfill

Ram will provide clean quarry spall backfill in all excavation area to a depth specified in the project plans or as directed by KC. This material will then be capped with crushed rock and fine graded to match surroundings. All backfill will be placed and compacted as per the guidelines in the project specification and the geotechnical report. Additionally, all imported backfill will need to be approved prior to delivery and placement.

4.0 WASTE WATER HANDLING & DISPOSAL

Any waste water pumped from excavations shall be tested and treated, as necessary, to meet the discharge concentration levels specified by the City of Anacortes Wastewater Treatment Plant before being routed into the city sewer system. Waste water will be pumped and stored into 20,000 gallon portable storage tanks / containers or as directed by KC prior to any discharging activities.

5.0 DISPOSAL OF CONTAMINATES

Pending approval of this waste removal plan by KC, the contaminate materials will be removed from the lined bunkers by direct loading into highway trucks. From there the materials will be taken to one or both of the following waste facilities:

- Allied Waste Services – RDC (Skagit Intermodal)
- Waste Management - Wenatchee

A daily log will be kept of all waste hauled out and contaminate material disposal tickets with summary reports will be provided as documentation of disposal.

6.0 CONFIRMATION SAMPLING

Confirmation sampling will be performed by KC personnel or by a hired consultant contracted with the KC. The sampling will take place during and after excavation to assure that all contaminates in both the excavation areas 1-4 and lined bunkers have been removed from the site.

7.0 EXISTING UTILITY CONFLICTS

Utility locates will be done in advance of any excavation activities and their locations will be surveyed for as-built records. In the case any existing utilities are encountered during excavation activities, Ram will take the appropriate measures to ensure their protection. Any such utilities will be assumed to be live and hand excavation practices will be used to preserve continued integrity. Any damage to existing utilities will be repaired in a timely manner by Ram or a qualified technician for the damaged utility. It is anticipated that a portion of the existing storm drain system will be in direct conflict with the excavations. Any conflicting storm drain lines will be repaired as required per the contract pay item.

8.0 PROJECT SCHEDULE

Prior to any excavation activities, Ram will install all appropriate erosion control measures including construction entrance and safety fencing within the work zones. Ram is prepared to initiate overburden stripping and remedial excavation activities immediately following approval of this waste excavation plan by KC. Allied Waste and/or Waste Management will be notified at least 72 hrs in advance of any contaminate removal to assure all guidelines are in place. As sample testing allows, backfilling of remedial excavations will be done, but not prior to getting direction from KC personnel. At completion of backfilling operations, the site will be restored to preexisting condition and all erosion control measures and safety fencing will be removed.

9.0 AS-BUILT DRAWINGS

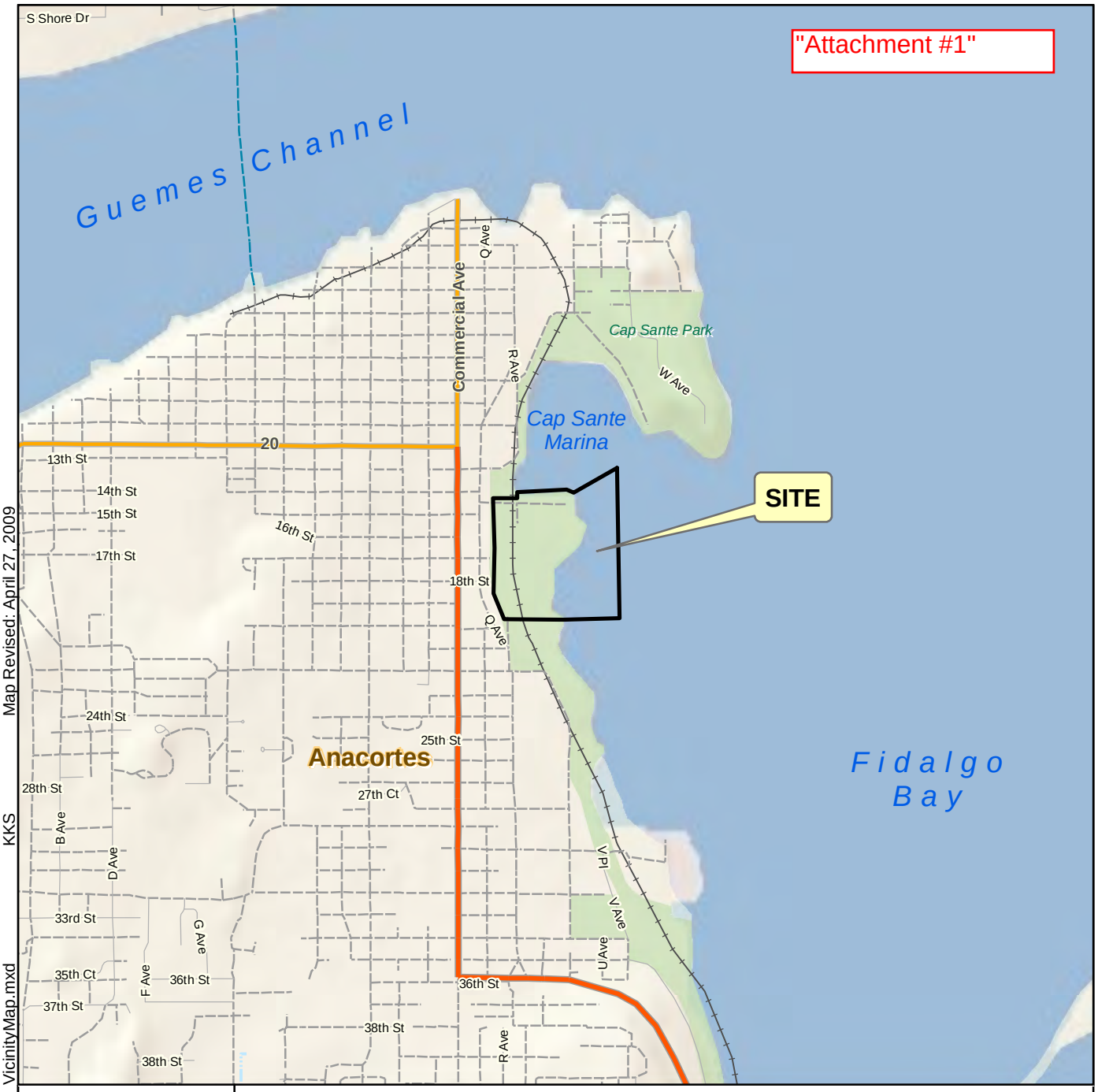
Upon completion of the excavation/disposal and confirmation sampling, Ram will provide KC red-line as-built drawings showing final excavated limits with elevations and quantities.

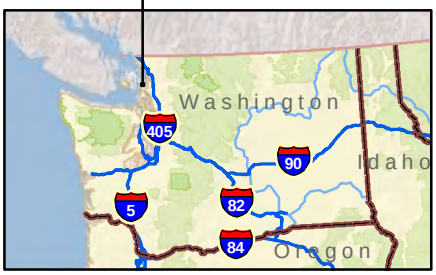
ATTACHMENTS

SITE VICINITY MAP

(Attachment #1)

"Attachment #1"





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Feet

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: ESRI Data & Maps, Street Maps 2005

Transverse Mercator, Zone 10 N North, North American Datum 1983
North arrow oriented to grid north

Vicinity Map

Scott Paper Mill
Anacortes, Washington

GeoEngineers

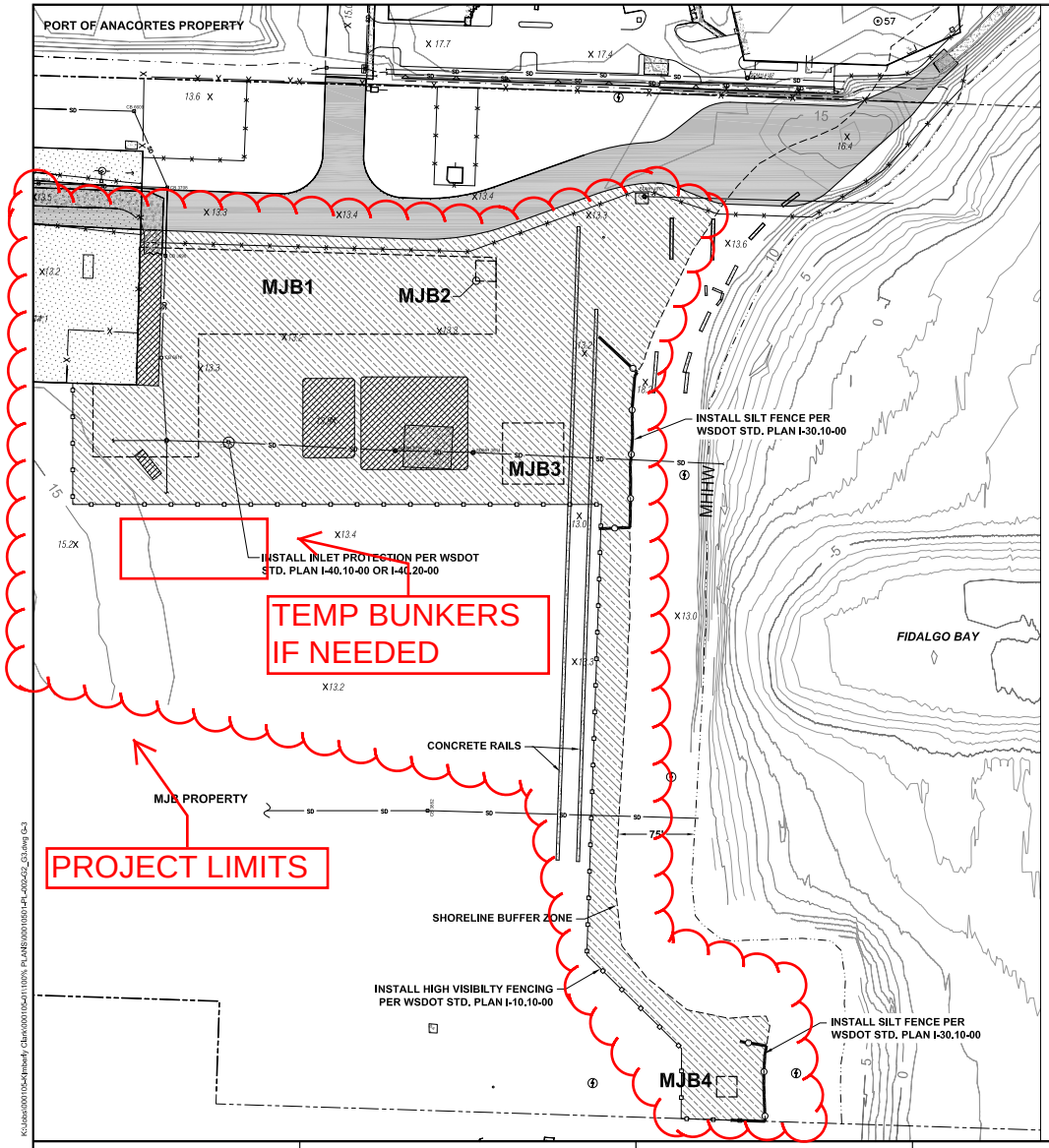
Figure 1

Office: SEA Path: P:\5\5147007\GIS\5147007l1 Fig1 VicinityMap.mxd KKS Map Revised: April 27, 2009

SITE PLAN / BUNKER LAYOUT

(Attachment #2)

" ATTACHMENT 2"



LEGEND:

- STORM DRAIN
- CATCH BASIN
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD (BY OTHERS)
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- MJB4 INITIAL EXCAVATION AREAS
- PHASE 4A WORK AREA
- SILT FENCE (INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00)
- HIGH VISIBILITY FENCE (INSTALL HIGH VISIBILITY FENCE PER WSDOT STD. PLAN I-10.10-00)

0 60 120
SCALE IN FEET

NOTES:

1. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTY OR WATERWAY, ALL CONSTRUCTION WORK WITHIN THE WORK AREA THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.
4. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS EROSION CONTROL PLAN NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
5. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON SITE TO PREVENT DEBRIS, DUST, AND MUD FROM ACCUMULATING ON PUBLIC RIGHT-OF-WAYS.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL DEVICES UPON FINAL SITE STABILIZATION AND APPROVAL BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION/WATER POLLUTION CONTROLS FOR CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREAS, AS NEEDED.
8. INLET PROTECTION SHALL BE INSTALLED PER WSDOT STD. PLAN I-40.10-00 OR I-40.20-00, AS PRACTICABLE, TO PROTECT ALL CATCH BASINS LOCATED WITHIN THE WORK AREA. CATCH BASINS LOCATED WITHIN EXCAVATION AREAS REQUIRING REMOVAL SHALL BE REPLACED WITH EQUIVALENT STRUCTURES CONFORMING TO WSDOT STD. PLANS AND AS APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PHASE 4A WORK AREA AND EROSION CONTROL PLAN

G-3

SHEET NO. 3 OF 6

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Oct 13, 2009 1:45pm bwilliam

HAZWOPER CERTIFICATES

(Attachment #3)

CEM Training Associates

Lewis Ivcevic

Has satisfactorily completed 8-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

Practical, Common Sense, Hands-on Training

Signature: *Chuck Mitchell* Date: May 26, 2009

CEM Training Associates

Michael Hammes

Has satisfactorily completed 8-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

Practical, Common Sense, Hands-on Training

Signature: *Chuck Mitchell* Date: May 26, 2009

CEM Training Associates

Matthew Erholm

Has satisfactorily completed 8-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

Practical, Common Sense, Hands-on Training

Signature: *Chuck Mitchell* Date: May 26, 2009

CEM Training Associates

Milt Unick

Has satisfactorily completed 8-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

Practical, Common Sense, Hands-on Training

Signature: *Chuck Mitchell* Date: May 26, 2009

CEM Training Associates

Dustin Allison

Has satisfactorily completed 8-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

Practical, Common Sense, Hands-on Training

Signature: *Chuck Mitchell* Date: May 26, 2009

CEM Training Associates

Rick Nicolaas

Has satisfactorily completed 8-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

Practical, Common Sense, Hands-on Training

Signature: *Chuck Mitchell* Date: May 26, 2009

CEM Training Associates

Britton Lukes

Has satisfactorily completed 40-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

Practical, Common Sense, Hands-on Training

Signature: *Chuck Mitchell* Date: May 29, 2009

CEM Training Associates

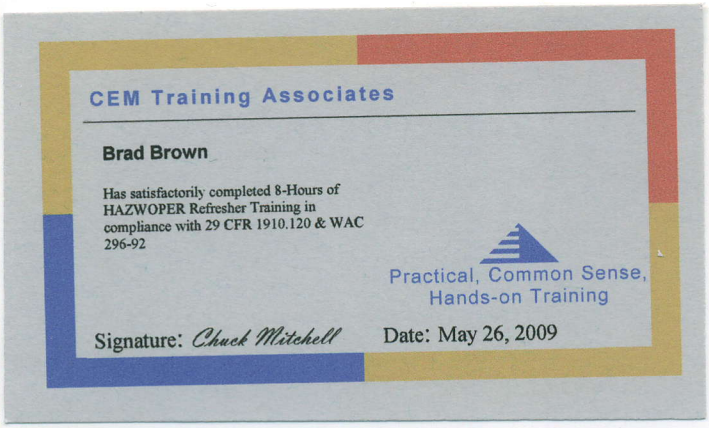
Mike Conour

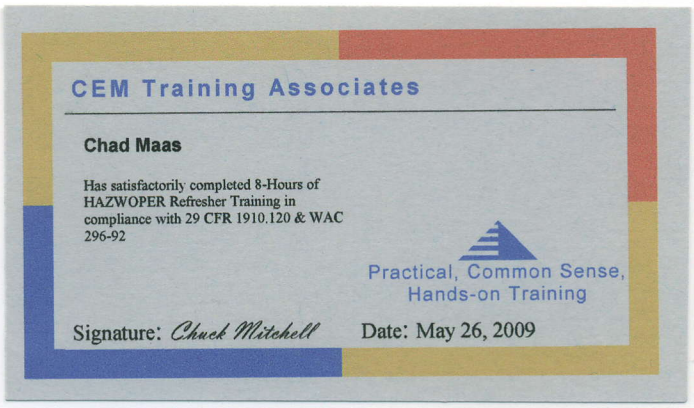
Has satisfactorily completed 8-Hours of HAZWOPER Refresher Training in compliance with 29 CFR 1910.120 & WAC 296-92

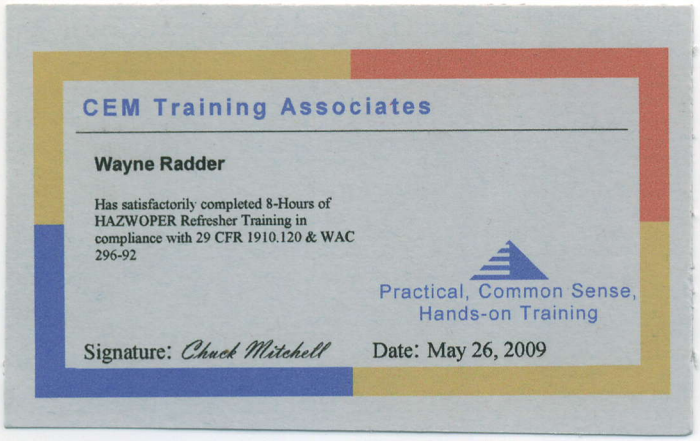
Practical, Common Sense, Hands-on Training

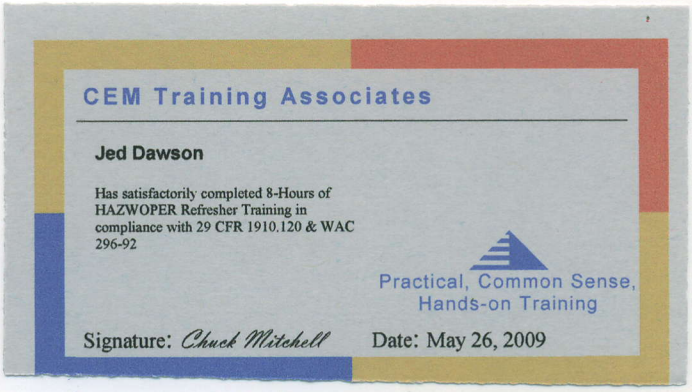
Signature: *Chuck Mitchell* Date: May 26, 2009

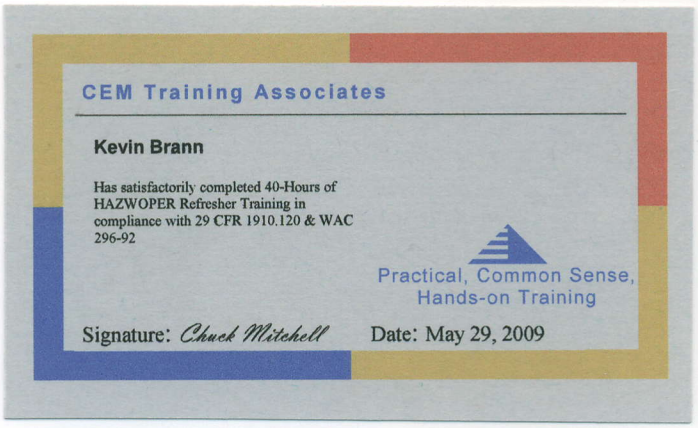
"Attachment #3A"











"Attachment #3B"

SITE-SPECIFIC HEALTH AND SAFETY PLAN
Version 2

RAM CONSTRUCTION GENERAL CONTRACTORS, INC.
FORMER SCOTT PAPER MILL CLEANUP PROJECT
PHASE IV – MJB PROPERTY
17TH STREET AND Q AVENUE
ANACORTES, WASHINGTON

PREPARED BY:
ELISABETH BLACK, CIH
ARGUS PACIFIC
1900 W. NICKERSON STREET
SUITE #315
SEATTLE, WASHINGTON

PREPARED FOR:

RAM CONSTRUCTION GENERAL CONTRACTORS, INC.
4290 PACIFIC HIGHWAY
BELLINGHAM, WASHINGTON

RAM CONSTRUCTION GENERAL CONTRACTORS, INC.
SITE-SPECIFIC HEALTH AND SAFETY PLAN
Version 2

Former Scott Paper Mill Cleanup Project
Phase IV – MJB Property
17th Street and Q Avenue
Anacortes, Washington

Plan Approval

This site-specific health and safety plan was written for use by Ram Construction General Contractors, Inc. (Ram Construction) and its subcontractors for use at the Former Scott Paper Mill site in Anacortes, Washington. Ram Construction claims no responsibility for its use by others. The plan is written for the specific site conditions, scope of work, purposes, dates and personnel specified and must be amended if the conditions change. The intent of this plan is to meet the requirements of the Washington State Division of Occupational Safety and Health (DOSH) Hazardous Waste Operations Regulation (WAC 296-843). It is not intended to address normal safety practices on construction sites, such as those covered in the DOSH Safety Standards for Construction Work (WAC 296-155). These activities are addressed in the Ram Construction Accident Prevention Program and Safety Manual.

ORIGINAL PLAN PREPARED BY:

QuickTime™ and a TIFF (LZW) decompressor are needed to see this picture.

January 19, 2010

Elisabeth Black, CIH — Date
Argus Pacific, Inc.

PLAN ACCEPTED FOR RAM CONSTRUCTION BY:

Michael Hammes — Date
President
Ram Construction

EMERGENCY CONTINGENCY INFORMATION

SITE LOCATION	Scott Paper Company Mill Site 17th Street and Q Avenue Anacortes, Washington
NEAREST HOSPITAL	Island Hospital 1211 24th Street Anacortes, Washington (360) 299-1300 The route from the facility to the hospital is depicted on Figure 1.
EMERGENCY RESPONDERS	**Anacortes Police, Fire, and Ambulance 911**
EMERGENCY CONTACTS	Michael Hammes (360) 715-8643 President, Ram Construction (360) 815-1144 Site Safety Officer Lou Ivcevic (360) 715-8643 Alternative Site Safety Officer (360) 815-1145 Safety Manager, Ram Construction Brit Lukes (360) 715-8343 Project Foreman, Ram Construction (360) 815-3489 Elisabeth Black, CIH (206) 518-6089 Certified Industrial Hygienist, Argus Pacific
IN EVENT OF EMERGENCY, CALL FOR HELP AS SOON AS POSSIBLE	**Give the following information:** **Where You Are**. Address, cross streets, or landmarks **Phone Number** you are calling from **What Happened**. Type of injury, accident **How many persons** need help **What is being done** for the victim(s) **You hang up last.** Let whomever you called hang up first

1.0 Site Information

SITE LOCATION: Former Scott Paper Mill Site
17th Street and Q Avenue
Anacortes, Washington

*Note:
All workers entering a designated **exclusion zone,** as described below, must have a current 40-hour training certificate in Hazardous Waste Operations or current 8-hour refresher, as appropriate. All workers on site will be required to have read and signed the Site-Specific Health and Safety Plan.

Type of Work Involved	Minimum Level of Training
Workers and Equipment Operators in the Exclusion Zones (areas with contaminated media).	• 40-Hour Hazardous Waste Operations Training and Current 8-Hour Refresher, as appropriate • Site-Specific Health and Safety Orientation • Read/Sign Site-Specific Health and Safety Plan (see Figure 2)
Workers onsite in clean zones, such as laborers, repair persons, etc.	• Site-Specific Health and Safety Orientation • Read/Sign Site-Specific Health and Safety Plan (see Figure 2)

2. 0 Purpose

This Site-Specific Health and Safety Plan provides guidance to Ram Construction personnel and subcontractors conducting work at the Scott Paper Company Mill Site at 17th Street and Q Avenue in Anacortes, Washington. This plan discusses potential chemical and physical hazards anticipated on site and includes control measures to ensure individual safety. This Site-Specific Health and Safety Plan applies only to Ram Construction and their subcontractors.

This plan was developed based upon the information provided to Argus Pacific by Michael Hammes and Josh Erholm of Ram Construction. Because of the nature of environmental cleanup actions, it is not possible to address in advance all specific situations that might occur. As new information is discovered, it is intended that this Site-Specific Health and Safety Plan will be modified and/or

amended to address that information. Ram Construction and Argus Pacific must jointly approve all modifications and amendments.

Any questions about the applicability of this plan should be addressed to the Certified Industrial Hygienist, Elisabeth Black, CIH (Argus Pacific).

3.0 Subcontractor Distributions and Acknowledgment

As required by regulation, the Project Site Safety Officer will make available a copy of this Site-Specific Health and Safety Plan to subcontractors hired by Ram Construction working in contaminated areas. Subcontractors must read, sign, and return the attached acknowledgment form (Figure 2) and follow these provisions, as minimum requirements.

4. 0 Description of Site Tasks

This Site-Specific Health and Safety Plan is intended to cover the following activities, as described by Ram Construction. These activities include:

- Set up of erosion control and containment;
- Excavation, testing, and disposal of contaminated soil impacted by metals above MTCA Method A Cleanup Levels at sites designated MJB1, MJB2, MJB3, and MJB4;
- Stockpiling of excavated soil impacted by metals above MTCA Method A Cleanup Levels at site MJB2 to be followed by disposal of stockpiled soil;
- Backfilling, grading, and restoration of all designated excavation areas; and
- Site cleanup and demobilization of equipment.

5.0 Site Characteristics

5.1 Site Location and Description

The site is located on the west shore of Fidalgo Bay in downtown Anacortes, Washington. Within Anacortes, the site is located roughly to the southeast of the intersection of 17th Street and Q Avenue. The site is defined to the east by Fidalgo Bay. The northern site boundary is defined by the property line shared with the Port of Anacortes. Q Avenue defines the western boundary. The south site boundary is roughly defined by tidelands and small commercial developments to approximately 20th Street. The site is owned by MJB Properties, LLC (MJB).

5.2 Site History

According to Washington State Department of Ecology documents, the Scott Paper Company Mill site was first developed in 1890 as a lumber mill operation. In 1925, a pulp mill operation began on the site. The Scott Paper Company (Scott) purchased the property in 1940 for lumber and pulp operations. Scott owned and operated on the site until 1979. In 1995, Scott merged with Kimberly Clark, LLC.

The property housed the original pulp mill building, which was constructed on site in 1925. After 1979, the south part of the site was used for holding oil field equipment, boat manufacturing, and storage. MJB purchased the site in 1990.

6.0 Work Activities

6.1 Training

Following is a brief description of the training required of Ram Construction employees and their subcontractors who will enter the site.

- All workers on site who enter or participate in tasks in the exclusion zone will have completed the 40-hour Hazardous Waste Operations Class. The training must have been completed within the last year, or an 8-hour refresher must have been completed within the last year. The 24-hour training may be sufficient for individuals entering the exclusion zone for observation or non-physical work, as long as respiratory protection is not required.

- These workers all must also have attended a Site-Specific Health and Safety Orientation and read and signed the Site-Specific Health and Safety Plan (Figure 2).

- Individuals working on the site occasionally, but who do not enter the exclusion zone, must have attended a Site-Specific Health and Safety Orientation and read and signed the Site-Specific Health and Safety Plan (Figure 2).

6.2 Worker Protection

When working in the exclusion zones, all workers shall be protected by level D protective gear, which consists of the following personal protective equipment (PPE):

- sturdy construction clothes (coveralls or rubber rain gear);

- hard hat;
- safety glasses with side shields or splash goggles;
- high-visibility traffic vests;
- hard-toed safety boots;
- gloves;
- hearing protection (if necessary, as determined by the Site Safety Officer).

During the initial negative exposure assessment, if monitoring action levels are exceeded, or if site conditions are different than what is anticipated, Ram Construction and its subcontractors will wear a half-face air-purifying respirator with P-100 cartridges. All activities surrounding the use of respirators on site must be in compliance with the Ram Construction Respiratory Protection Program and WAC 296-841, Respiratory Hazards.

Additionally, if level C PPE is deemed necessary by the Site Safety Officer or Safety Manager based on site contaminant concentrations in specific locations and individual work assignments, workers will wear the following PPE:

- all PPE included in level D;
- disposable Tyvek protective coveralls; and
- half-face air-purifying respirators with P-100 cartridges.

6.3 Decontamination

Workers shall use proper decontamination procedures (clothing, boot, and glove wash) in the contaminant reduction zone.

- Coveralls or rain gear that may be potentially contaminated shall be disposed of or thoroughly cleaned at the end of each day. Rain gear can be cleaned with water, brushes, and a mild detergent solution.

- Boots should be thoroughly cleaned prior to leaving the site for lunch, breaks, or at the end of the day. Install a boot wash with water, brushes, and a mild detergent solution, such as Alconox.

- Gloves should be disposed of or left on site for the duration of the project and then disposed of to minimize the potential to track contaminated dirt into trucks, offices, or homes.

- Heavy equipment, such as dump trucks and excavators, should be cleaned and decontaminated prior to leaving the site. At a minimum, the tires should be cleaned with water and brushes to remove potentially contaminated dirt from the site.

6.4 Air Monitoring

A negative exposure assessment for the heavy metals identified in site soils should be conducted at the start-up of project activities. Workers should wear half-face respirators with P-100 filters until it has been determined that metals are not present at or above DOSH action limits for those metals.

7.0 Hazard Evaluation

7.1 Site Contaminants

Based on available analytical data for the site, project activities may expose workers to heavy metals, including:

- arsenic;
- chromium;
- copper;
- lead;
- mercury;
- nickel; and
- zinc.

7.2 Potential Exposure Routes

7.2.1 Inhalation

Exposure via this route could occur if gases, vapors, or dusts are generated during site activities. The air monitoring action levels and associated activities provided in Table 1 are intended to protect this route of exposure.

7.2.2 Skin and Eye Contact

Exposure via this route could occur if contaminated soil or water contacts the skin, clothing, or eyes. Protective clothing, safety glasses/splash goggles, and decontamination activities specified in this plan will minimize the potential for skin or eye contact with site contaminants.

7.2.3 Ingestion

The inadvertent transfer of site contaminants from hands or other objects to the mouth could occur if site workers engage in eating, drinking, smoking, or chewing gum or tobacco in contaminated areas. This could result in accidental ingestion of site contaminants, potentially leading to illness. For this reason, eating, drinking, smoking, chewing gum or tobacco, or similar activities are not allowed in the work area and especially the support, contaminant reduction, and exclusion zones.

7.3 Hazard Assessment

Heavy Metals. Heavy metals have been detected in the soils at varying concentrations. Metals detected include arsenic, chromium, copper, lead, mercury, nickel, and zinc. Each of these metals has varying effects on the body. The primary route of exposure in all cases is inhalation of contaminated soil (dust). Contact with the skin does not pose significant health hazard, however, the settled dust may be ingested or inhaled during routine activities. Therefore the controls to prevent exposure to heavy metals focus on the reduction of airborne particulate matter and the removal of particulate matter from clothing and skin.

7.4 Products Brought on Site

Other hazards may be posed by chemicals brought on site by Ram Construction. In accordance with DOSH requirements for hazard communication, Material Safety Data Sheets (MSDS) are available for all products brought on site and attached to the end of this plan.

Ram Construction will bring on site only those materials required to perform work on site. The following procedures will be followed to optimize use of the MSDSs.

1. All Ram Construction employees will be briefed on materials safety procedures, use of MSDSs for employee health information, and use of MSDSs for mishap response during safety meetings.

2. Selected MSDSs are reviewed as a normal part of the safety briefing. Daily meetings will be required for those working in the exclusion zones.

3. In the event of a spill or other emergency event involving a material brought on site by Ram Construction, if safe, the MSDS will be brought to the mishap location for use by the Site Safety Officer, Project Manager, and any other response personnel.

7.5 Job Hazard Analysis

A job hazard analysis for all project tasks is included with this SSHSP as Figure 3.

8.0 Site Personnel

No one is allowed on site without prior approval of the Ram Construction Site Safety Officer or their designee if the visit is unanticipated or not previously approved.

8.1 Site Organization Structure

Team Member	**Function**
Michael Hammes	Site Safety Officer
Lou Ivcevic	Project Manager/Alternate Site Safety Officer
Brit Lukes	Project Foreman
Elisabeth Black, CIH	Project Certified Industrial Hygienist

8.2 Lines of Authority and Communication

Duties of the Project Site Safety Officer Include:

- Ensure employer's responsibilities for safety and health are being implemented by daily inspections.
- Implement Site Safety and Health requirements in the field.
- Monitor site conditions during work activities where hazardous compounds may be present.
- Record any variances in conditions.
- Record any illness, disease, injury, pulmonary disorder, or death of any person on the site.
- Determine appropriate monitoring, if necessary, so that employees are not exposed to levels that exceed established Permissible Exposure Limits (PEL) for hazardous substances or action levels per this plan.
- Communicate requirements to field personnel and subcontractors.
- Consult with CIH regarding new or unanticipated site hazards.
- Perform safety record keeping.
- Verify that medical monitoring and training have been performed.

Duties of the Certified Industrial Hygienist include:

- Develop and coordinate Site-Specific Health and Safety Plan.
- Communicate requirements to Site Safety Officer.
- Respond to field requests for assistance in safety and health from Ram Construction and the Project Site Safety Officers.

Duties of the Project Foreman and Site Workers include:

- Read and follow the Site-Specific Health and Safety Plan.
- Check all personal safety equipment to ensure it is in good working condition prior to entering the exclusion zone.
- Immediately report any accidents/illness, spills, unsafe conditions, any unusual smells or chemical smell to the Project Site Safety Officers.
- Incidents must be reported on a daily basis in detail for spills or accidents.
- Immediately report any symptoms of exposure.

9.0 Engineering Controls and Work Practices

9.1 Engineering Controls

- Exclusion zones will be clearly marked with cones or barrier tape to avoid accidental entry.

- Decontamination areas (contaminant reduction zones) will be established at all entrances and exits to/from exclusion zones.

- Decontamination areas (contaminant reduction zones) will be marked and equipped with buckets and brushes for decontamination. Disposable contaminated clothing will be placed in drums for disposal and re-usable clothing (i.e. hard hats, rubber rain gear, etc.) will be washed and reused.

- All barricades and tapes will be inspected and maintained daily prior to commencement of operations.

- In the event excavated soil is stockpiled onsite, concrete ecology blocks and a 20-mil poly sheeting liner will be placed between the ground and stockpiled material to avoid leaching of contaminated water or soil. The excavated soil will be stored in a predetermined location inside the Exclusion Zone.

- Ram will ensure the stockpiled material remains damp, covered, or otherwise sheltered from wind to prevent contaminated soil becoming airborne.

9.2 Work Practices

- No eating, drinking, smoking, chewing gum or tobacco, or applying of cosmetics is permitted on site, except in designated areas.

- No facial hair that would interfere with respirator fit is allowed on site on days when a respirator may be required.

- Employees are to report to the Site Safety Officer any symptoms of exposure they might experience and all accidents/incidents.

9.3 Exclusion Areas

Site control will be maintained by establishing clearly identified work zones. These will include the exclusion zone, decontamination zone (contaminant reduction zone), and support zone, as discussed before.

9.3.1 Exclusion Zone

Only persons with appropriate training (40-hour Hazardous Waste Operations/8-hour Refresher) and authorization from the Site Safety Officer will enter this zone. Traffic cones, barrier tapes, and warning signs will be used, as necessary, to establish the zone boundary.

9.3.2 Decontamination Zone

A decontamination zone (contaminant reduction zone) will be established just outside each temporary exclusion zone to decontaminate equipment and personnel, as discussed below. This zone will be clearly delineated from the exclusion zone and support zone using traffic cones, barrier tapes, and warning signs. The decontamination zone shall have boot, glove, and rain gear wash and rinse buckets/wading pools, brushes, and a source of additional water (hose or water buckets) for cleaning. Used wash water will be collected for removal as contaminated water. Care will be taken to prevent contact with used wash water on a daily basis. Damaged or disposable PPE will be placed in plastic garbage bags for interim storage and disposal, as appropriate.

9.3.3 Support Zone

A support zone will be established outside the contamination reduction area to stage clean equipment, don protective clothing, take rest breaks, rehydrate, etc. This zone will be clearly delineated from the decontamination zone and exclusion zone using the means noted above.

9.3.4 Minimization of Contamination

In order to make the work zone procedure function effectively, the amount of equipment and number of personnel allowed in contaminated areas must be minimized. Do not perform any practice that increases the probability of hand-to-mouth transfer of contaminated materials. Use plastic drop cloths and equipment covers where possible.

10.0 Site Control

- A safety meeting shall be conducted daily before starting field activities to inform workers of changing conditions. Record attendance of each safety briefing on safety briefing attendance rosters.

- Set-up decontamination facilities. Run through a mock decontamination to ensure that site personnel are familiar with the procedures.

- Personnel working in the exclusion zone will maintain line of sight contact or communications with the site support facilities.

- Ensure that the site is secured from the general public, during and after work hours. For this project, this will be ensured by the use of fencing that will be put in place by the owner.

11.0 Emergency Response Plan

11.1 Pre-Emergency Planning

The Site Safety Officer is to perform the following activities:

- Post emergency telephone numbers and route to the hospital in the field job office or vehicle.
- Establish local response teams.
- Ensure the keys to vehicles are kept in ignition during field activities.
- Weekly inventory and check-out site emergency equipment, spill response and supplies.
- Be familiar with emergency procedures for personnel injury or suspected overexposures, fires, explosions or releases.
- Listing of names of all personnel on site certified in CPR and first aid.
- Notification procedures for contacting Ram Construction's physician and employee families.
- Brief new employees on the emergency response plan before they perform fieldwork.

11.2 Emergency Equipment and Supplies

The following emergency equipment and supplies are available on site:

- Fire extinguishers (in each truck and on each piece of heavy equipment).
- Industrial first aid kit (in each vehicle).
- Eye wash.

11.3 Emergency Recognition and Prevention

Prevention of emergencies will be aided by the effective implementation of the health and safety procedures specified in the SSHSP. The following hazards which could lead to emergency situations have been identified as being potentially present during the course of field activities:

- Traumatic injury from heavy equipment accidents, rusty or sharp debris, and/or falling into holes or trenches; and
- Exposure to harmful chemical dusts and vapors.

11.4 Emergency Medical Treatment and First Aid

- Prevent further injury, perform appropriate decontamination and notify the Site Safety Officer.
- Depending upon the type and severity of the injury, the Site Safety Officer will call 911 for an ambulance.
- Notify Ram Construction personnel.
- Prepare an incident report.

11.5 Emergency Decontamination

Personnel will be decontaminated to the extent feasible but life saving and first aid procedures take priority over decontamination efforts. Workers shall grossly decontaminate the injured person. The medical facility and ambulance service will be contacted prior to the start of the project to define procedures for transporting potentially contaminated injured workers.

11.6 Evacuation Routes and Procedures

In case of emergencies, evacuation routes will be designated. Personnel will exit the site and assemble at the designated point in the support zone. The Site Safety Officer will account for personnel at the on site assembly point and notify local emergency responders. The Project Superintendent will assess the need for site evacuation based on the degree of hazard posed to personnel in the support zone.

Evacuation Routes will be determined during the first project daily safety meeting. Assembly Points will be determined at the same time.

11.7 Critique of Response and Follow-up

The Site Safety Officer will evaluate the effectiveness of the emergency response and recommend procedures for improving emergency response to the SSHSP preparer. Follow-up activities include notification of Ram Construction within 24 hours of the injury, investigation of cause and implementation of measures to

prevent reoccurrence. Incidents involving suspected chemical exposures will require notification of Ram Construction's company physician so that they may provide assistance and relevant information to the emergency room physician.

12.0 Medical Monitoring

Employees assigned to duties on hazardous waste sites or that require them to wear respirators will, prior to work, be assessed by a physician to determine if they are qualified to do so. Ram's Licensed Health Care Provider for hazardous waste and respiratory protection medical monitoring is:

Whatcom Occupational Health
3015 Squalicum Parkway, Suite 220
Bellingham, Washington 98225

(360) 676-1693

1. Prior to assignment to duties requiring the use of respirators, each employee will be evaluated by a physician.

2. A description of the type of respirator, duties to be performed and any other pertinent information will be provided to the physician.

3. The examination will include, but not be limited to the following:
    a. A history of family, individual, and prior chemical exposures (either work or hobby). This is usually in the form of a written questionnaire.
    b. A "hands-on" examination by the physician.
    c. Spirometry testing (test of lung capacity).
    d. Other tests that the examining physician feels are advised.

4. A written report of findings will be made on each employee listing any restrictions.

5. The medical status of the employees will be assessed at least annually or more often if circumstances indicate the need.

6. Respirator Fit Test Certificates.

13.0 Emergency Contacts

The initial contact by Ram Construction field personnel will be to the Site Safety Officer. The Site Safety Officer will provide subsequent notification to the parties listed below. If the Site Safety Officer must be absent from the site, an assigned alternate will be responsible for establishing communications. Additional notifications will proceed in the following order:

1. Department of Ecology — Spill Response 24 hr Emergency Line **1-425-649-7000**

2. EPA — Region X Headquarters (800) 424-8802

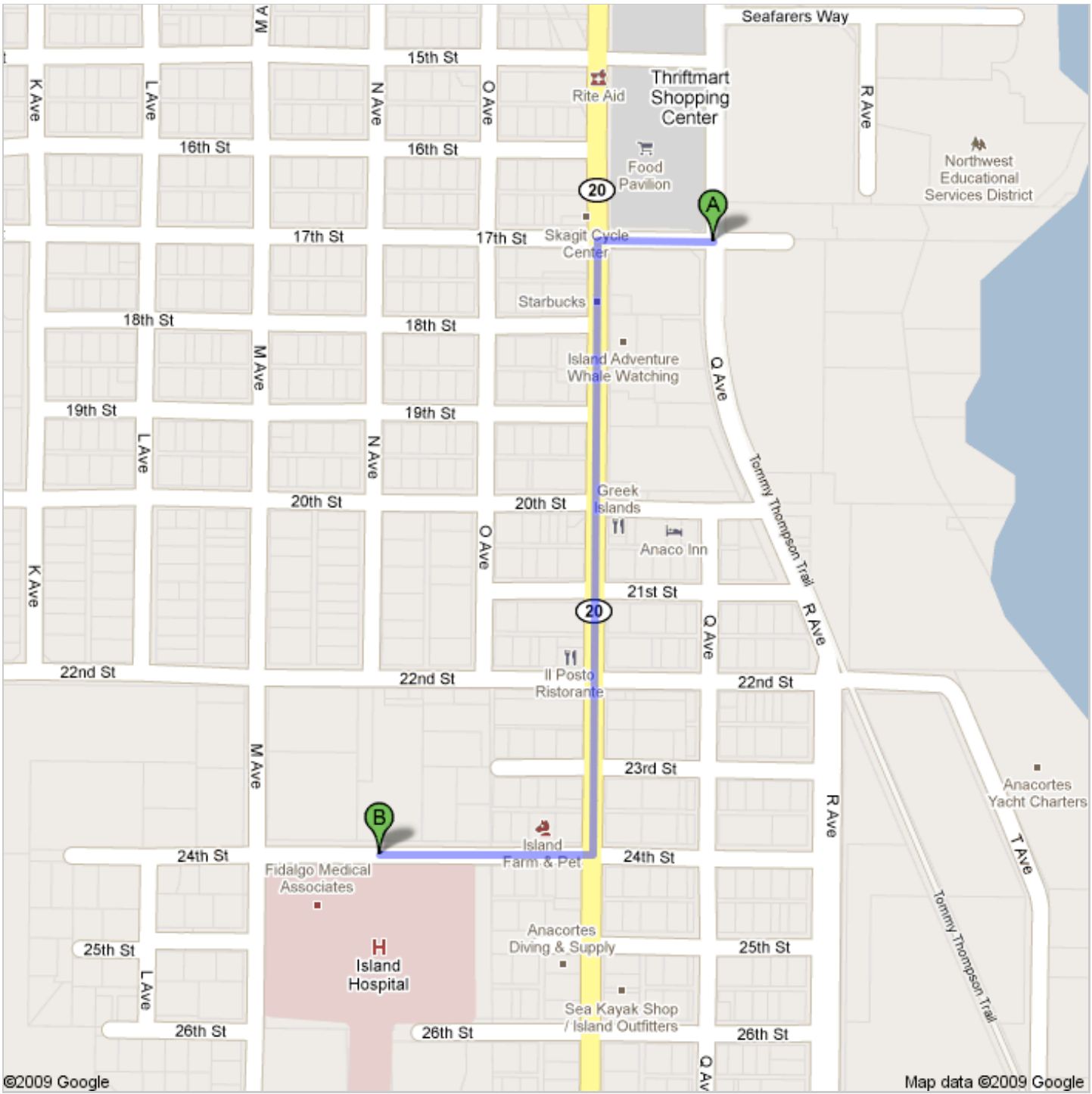
The following records shall be kept on site and available from the Site Safety Officer:

- Daily sign-in and out log.
- Health and Safety Plan Acknowledgement Form.
- Sign off sheet for Site-Specific Orientation.
- Copies of workers' 40-Hour or 8-Hour Refresher Hazardous Waste Site Training Certificates.
- Medical approval to wear respirator.
- Respirator fit test certifications.
- Air monitoring data, if available.
- Material Safety Data Sheets.

Figure 1
Route to Hospital Map

Google maps

Directions to Island Hospital
1211 24th Street, Anacortes, WA 98221-2557 - (360) 299-1300
0.6 mi – about **2 mins**



A Q Ave & 17th St, Anacortes, WA 98221

	1. Head **west** on **17th St** toward **Commercial Ave**	go 390 ft total 390 ft
	2. Take the 1st **left** onto **Commercial Ave** About 2 mins	go 0.4 mi total 0.5 mi
	3. Turn **right** at **24th St** Destination will be on the left	go 0.1 mi total 0.6 mi

B Island Hospital
1211 24th Street, Anacortes, WA 98221-2557 - (360) 299-1300

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

Figure 2
Site-Specific Health and Safety Plan Acknowledgement Form

Site-Specific Health and Safety Plan Acknowledgment Form

I have read the Site-Specific Health and Safety Plan pertaining to work to be performed for the Scott Paper Company Mill site in Anacortes, Washington. I understand the contents of this Site-Specific Health and Safety Plan and agree to abide by its provisions. Any questions I had regarding the plan have been satisfactory answered.

Name (Print)	Signature	Date

Figure 3
Job Hazard Analysis

FIGURE 3
JOB HAZARD ANALYSIS
FORMER SCOTT PAPER MILL CLEANUP PROJECT – PHASE IV

ACTIVITY	POTENTIAL HAZARDS	RECOMMENDED CONTROLS
Set up of erosion control and containment	• Back strain • Motor vehicle/heavy equipment accidents	• Wear appropriate PPE, including high-visibility vests, leather gloves, hard hat, work clothes, steel-toed boots, and safety glasses • Use proper lifting techniques or request assistance • Be aware of vehicles and equipment and heed all warning alarms and signage
Excavation and disposal of contaminated soil	• Motor vehicle/heavy equipment accidents • Contact with potentially contaminated soil • Potential fire or explosion hazards	• Wear appropriate PPE, including high-visibility vests, nitrile gloves, work clothes, and safety glasses • Remain upwind whenever possible • Wear respirator, if indicated • Conduct thorough decontamination whenever leaving the site • Be aware of vehicles and equipment and heed all warning alarms and signage • Be aware of and comply with all trenching and excavation regulations
Backfill and grading of excavation areas	• Motor vehicle/heavy equipment accidents	• Wear appropriate PPE, including high-visibility vests, leather gloves, hard hat, work clothes, steel-toed boots, and safety glasses • Be aware of vehicles and equipment and heed all warning alarms and signage • Be aware of and comply with all trenching and excavation regulations
Backfilling, grading, and site restoration	• Back strain • Motor vehicle/heavy equipment accidents	• Wear appropriate PPE, including high-visibility vests, leather gloves, hard hat, work clothes, steel-toed boots, and safety glasses • Use proper lifting techniques or request assistance • Be aware of vehicles and equipment and heed all warning alarms and signage
Site cleanup and demobilization of equipment	• Back strain • Motor vehicle/heavy equipment accidents	• Wear appropriate PPE, including high-visibility vests, leather gloves, hard hat, work clothes, steel-toed boots, and safety glasses • Be aware of vehicles and equipment and heed all warning alarms and signage

Stormwater Pollution Prevention Plan

For
Former Scott Paper Mill Cleanup Project - Phase #4A MJB

Prepared For
Northwest Regional Office
3190 - 160th Avenue SE
Bellevue, WA 98008-5452
425-649-7000

Owner	Developer	Operator/Contractor
Kimberly Clark	~	RAM Construction General Contractors, Inc.
1400 Holcomb Bridge Road	~	4290 Pacific Highway
Roswell, GA 30076	~	Bellingham, WA 98226

Project Site Location
Anacortes, WA

Certified Erosion and Sediment Control Lead
Britt Lukes
360-815-3489
Lou Ivcevic
360-815-1145

SWPPP Prepared By
RAM Construction General Contractors, Inc.
4290 Pacific Highway
Bellingham, WA 98226
360-715-8643
Lou Ivcevic, Project Manager

SWPPP Preparation Date
December 8th 2009

Approximate Project Construction Dates
December 15th 2009
February 28th, 2010

Contents

Appendix A Site plans

- Vicinity map (Figure 1)
- Site plan (Figure 2)
- Project Overview (G1.1)
- Engineered TESC Plan (G-3)
- Remedial Excavation Plan (C-1)
-

Appendix B Construction BMPs

- TESC Plan from Contract Plans

Appendix C Alternative Construction BMP list

Appendix D General Permit

- General Permit not available

Appendix E Site Log and Inspection Forms

1.0 Introduction

This Stormwater Pollution Prevention Plan (SWPPP) has been prepared as part of the NPDES construction stormwater general permit requirements for the **Phase 4 MJB Cleanup Work on the Former Scott Paper Mill in Anacortes, Washington** (**Vicinity Map - Appendix A**). The site is located on the east side of the City of Anacortes, and is bounded on the south by 20th Street, on the west by Q Avenue, on the east by Fidalgo Bay, and on the north by Cap Sante Marina and 15th Street. The entire project site is approximately 25 acres with commercial buildings, parking lots, paved roads and a community park building. However, this SWPPP covers 5 acres of property owned by MJB Properties LLC.

The Phase 4 cleanup work will be conducted on MJB Uplands Area as shown on the **Site Map in Appendix A**. Approximately 1.5 acres will be disturbed during the excavation and backfilling of the excavation areas 1-4 shown on **Maps G1.1, C-1 and in Appendix A**. The remedial work includes the removal of 1.5 to 3 feet deep of soil from each location, hauling the soil offsite, importing clean soil to fill the excavations, and then complete with crushed rock to stabilize each excavation area. All site drainage features are to be returned to their existing conditions.

Construction activities will include site preparation, TESC installation, excavation, grading and clean up. The purpose of this SWPPP is to describe the proposed construction activities and all temporary and permanent erosion and sediment control (TESC) measures, pollution prevention measures, inspection/monitoring activities, and recordkeeping that will be implemented during the proposed construction project. The objectives of the SWPPP are to:

1. Implement Best Management Practices (BMPs) to prevent erosion and sedimentation, and to identify, reduce, eliminate or prevent stormwater contamination and water pollution from construction activity.

2. Prevent violations of surface water quality, ground water quality, or sediment management standards.

3. Prevent, during the construction phase, adverse water quality impacts including impacts on beneficial uses of the receiving water by controlling peak flow rates and volumes of stormwater runoff at the Permittee's outfalls and downstream of the outfalls.

This SWPPP was prepared using the Ecology SWPPP Template downloaded from the Ecology website on June 12, 2009. This SWPPP was prepared based on the requirements set forth in the Construction Stormwater General Permit, *Stormwater Management Manual for Western Washington* (SWMMWW 2005) and in the *Stormwater Management Manual for Eastern Washington* (SWMMEW 2004). The report is divided into seven main sections with several appendices that include stormwater related reference materials. The topics presented in the each of the main sections are:

Section 1 – INTRODUCTION. This section provides a summary description of the project, and the organization of the SWPPP document.

Section 2 – SITE DESCRIPTION. This section provides a detailed description of the existing site conditions, proposed construction activities, and calculated stormwater flow rates for existing conditions and post–construction conditions.

Section 3 – CONSTRUCTION BMPs. This section provides a detailed description of the BMPs to be implemented based on the 12 required elements of the SWPPP (SWMMEW 2004).

Section 4 – CONSTRUCTION PHASING AND BMP IMPLEMENTATION. This section provides a description of the timing of the BMP implementation in relation to the project schedule.

Section 5 – POLLUTION PREVENTION TEAM. This section identifies the appropriate contact names (emergency and non-emergency), monitoring personnel, and the onsite temporary erosion and sedimentation control inspector

Section 6 – INSPECTION AND MONITORING. This section provides a description of the inspection and monitoring requirements such as the parameters of concern to be monitored, sample locations, sample frequencies, and sampling methods for all stormwater discharge locations from the site.

Section 7 – RECORDKEEPING. This section describes the requirements for documentation of the BMP implementation, site inspections, monitoring results, and changes to the implementation of certain BMPs due to site factors experienced during construction.

Supporting documentation and standard forms are provided in the following Appendices:

Appendix A – Site plans
Appendix B – Construction BMPs
Appendix C – Alternative Construction BMP list
Appendix D – General Permit N/A
Appendix E – Site Log and Inspection Forms

2.0 Site Description

2.1 Existing Conditions

The proposed site is located on the east side of the City of Anacortes, and is bounded on the south by 20th Street, on the west by Q Avenue, on the east by Fidalgo Bay, and on the north by Cap Sante Marina and 15th Street as shown on the vicinity map in Appendix A. The Phase 4A project is approximately 5 acres of formerly developed land with few paved areas and active/inactive underground utilities. The topography of the site and surrounding properties is relatively flat with a gentle slope towards the southeast. The site is well drained and groundwater lies approximately 9 feet deep and is generally affected by the tide.

Runoff from the site generally drains from south to north through a series of catch basins. The catch basins convey runoff to a storm drain system that flows to the east of the project area and discharges into Fidalgo Bay.

There are no critical areas on the site such as high erosion risk areas, wetlands, streams, or steep slopes (potential landslide areas).

2.2 Proposed Construction Activities

Land areas to be disturbed include the excavation areas 1-4 shown on **Maps G1.1, C-3 and in Appendix A**. The remedial work includes the removal of 1.5 to 3 feet deep of soil from each location, hauling the soil offsite, importing clean soil to fill the excavations, and then complete with crushed rock and/or proper cover to stabilize each excavation area. All site drainage features are to be returned to their existing conditions.

It should be noted; **no stormwater detention, treatment, or permanent conveyance structures where proposed for the project**. Upon completion of the project, the constructed grade will be equivalent to the pre-excavation surface elevations. In short, no runoff calculations were conducted.

Construction activities will include site preparation, TESC installation, demolition, remedial excavation, grading and cleanup work. The schedule and phasing of BMPs during construction is provided in Section 4.0.

After the remedial excavation is complete, the site will be stabilized with Quarry Spalls and Crushed Surfacing Top Course.

The following summarizes details regarding site areas:

The following summarizes details regarding site areas:

Total Phase 4A area:	**5 acres**
Percent impervious area before construction:	**< 8 %**
Percent impervious area after Phase 4A construction:	**7 %**
Disturbed area during construction:	**1.5 acres**
Disturbed area that is characterized as impervious (i.e., access roads, staging, parking):	**< 0.08 acres**
2-year stormwater runoff peak flow prior to construction (existing):	(NA – No Treatment or Detention)
10-year stormwater runoff peak flow prior to construction (existing):	(NA – No Treatment or Detention)
2-year stormwater runoff peak flow during construction:	(NA – No Treatment or Detention)
10-year stormwater runoff peak flow during construction:	(NA – No Treatment or Detention)
2-year stormwater runoff peak flow after construction:	(NA – No Treatment or Detention)
10-year stormwater runoff peak flow after construction:	(NA – No Treatment or Detention)

3.0 Construction Stormwater BMPs

3.1 The 12 BMP Elements

3.1.1 Element #1 – Mark Clearing Limits

To protect adjacent properties and to reduce the area of soil exposed to construction, the limits of construction will be clearly marked before land-disturbing activities begin. Trees that are to be preserved, as well as all sensitive areas and their buffers, shall be clearly delineated, both in the field and on the plans. In general, natural vegetation and native topsoil shall be retained in an undisturbed state to the maximum extent possible. The BMPs relevant to marking the clearing limits that will be applied for this project include:

- Preserving Natural Vegetation (BMP C101)
- Buffer Zones (BMP C102)
- High Visibility Plastic or Metal Fence (BMP C103)
- Stake and Wire Fence (BMP C104)

Alternate BMPs for marking clearing limits are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

3.1.2 Element #2 – Establish Construction Access

Construction access or activities occurring on unpaved areas shall be minimized, yet where necessary, access points shall be stabilized to minimize the tracking of sediment onto public roads, and wheel washing, street sweeping, and street cleaning shall be employed to prevent sediment from entering state waters. All wash wastewater shall be controlled on site. The specific BMPs related to establishing construction access that will be used on this project include:

- Stabilized Construction Entrance (BMP C105)
- Wheel Wash (BMP C106)

Alternate construction access BMPs are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

3.1.3 Element #3 – Control Flow Rates

In order to protect the properties and waterways downstream of the project site, stormwater discharges from the site will be controlled. The specific BMPs for flow control that shall be used on this project include:

- No BMPs to be implemented

It should be noted that this project there is no proposed significant net change in impervious surface area; therefore **no stormwater detention, treatment, or permanent conveyance structures where proposed for the project**. In short, no runoff calculations were conducted.

Alternate flow control BMPs are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

The project site is located west of the Cascade Mountain Crest. As such, the project must comply with Minimum Requirement 7 (Ecology 2005). In general, discharge rates of stormwater from the site will be controlled where increases in impervious area or soil compaction during construction could lead to downstream erosion, or where necessary to meet local agency stormwater discharge requirements (e.g. discharge to combined sewer systems).

3.1.4 Element #4 – Install Sediment Controls

All stormwater runoff from disturbed areas shall pass through an appropriate sediment removal BMP before leaving the construction site or prior to being discharged to an infiltration facility. The specific BMPs to be used for controlling sediment on this project include:

- Silt Fence (BMP C233)

- Straw Wattles (BMP C235)

- Storm Drain Inlet Protection (BMP C220)

Alternate sediment control BMPs are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

In addition, sediment will be removed from paved areas in and adjacent to construction work areas manually or using mechanical sweepers, as needed, to minimize tracking of sediments on vehicle tires away from the site and to minimize wash off of sediments from adjacent streets in runoff.

- Whenever possible, sediment laden water shall be discharged into onsite, relatively level, vegetated areas (BMP C240 paragraph 5, page 4-102).

In some cases, sediment discharge in concentrated runoff can be controlled using permanent stormwater BMPs (e.g., infiltration swales, ponds, trenches). Sediment loads can limit the effectiveness of some permanent stormwater BMPs, such as those used for infiltration or biofiltration; however, those BMPs designed to remove solids by settling (wet ponds or detention ponds) can be used during the construction phase. When permanent stormwater BMPs will be used to control sediment discharge during construction, the structure will be protected from excessive sedimentation with adequate erosion and sediment control BMPs. Any accumulated sediment shall be removed after construction is complete and the permanent stormwater BMP will be restabilized with vegetation per applicable design requirements once the remainder of the site has been stabilized.

The following BMPs will be implemented as end-of-pipe sediment controls as required to meet permitted turbidity limits in the site discharge(s). Prior to the implementation of these technologies, sediment sources and erosion control and soil stabilization BMP efforts will be maximized to reduce the need for end-of-pipe sedimentation controls.

- Temporary Sediment Pond (BMP C241)

- Construction Stormwater Filtration (BMP C251)

- Construction Stormwater Chemical Treatment (BMP C 250) (implemented only with prior written approval from Ecology).

3.1.5 Element #5 – Stabilize Soils

Exposed and unworked soils shall be stabilized with the application of effective BMPs to prevent erosion throughout the life of the project. The specific BMPs for soil stabilization that shall be used on this project include:

- Temporary and Permanent Seeding (BMP C120)
- Dust Control (BMP C140)
- Early application of gravel base on areas to be paved

Alternate soil stabilization BMPs are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

The project site is located west of the Cascade Mountain Crest. As such, no soils shall remain exposed and unworked for more than 7 days during the dry season (May 1 to September 30) and 2 days during the wet season (October 1 to April 30). Regardless of the time of year, all soils shall be stabilized at the end of the shift before a holiday or weekend if needed based on weather forecasts.

In general, cut and fill slopes will be stabilized as soon as possible and soil stockpiles will be temporarily covered with plastic sheeting. All stockpiled soils shall be stabilized from erosion, protected with sediment trapping measures, and where possible, be located away from storm drain inlets, waterways, and drainage channels.

3.1.6 Element #6 – Protect Slopes

All cut and fill slopes will be designed, constructed, and protected in a manner than minimizes erosion. The following specific BMPs will be used to protect slopes for this project:

- Temporary and Permanent Seeding (BMP C120)
- Check Dams (BMP C207)
- Straw Wattles (BMP C235)

Alternate slope protection BMPs are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate

during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

3.1.7 Element #7 – Protect Drain Inlets

All storm drain inlets and culverts made operable during construction shall be protected to prevent unfiltered or untreated water from entering the drainage conveyance system. However, the first priority is to keep all access roads clean of sediment and keep street wash water separate from entering storm drains until treatment can be provided. Storm Drain Inlet Protection (BMP C220) will be implemented for all drainage inlets and culverts that could potentially be impacted by sediment-laden runoff on and near the project site. The following inlet protection measures will be applied on this project:

Drop Inlet Protection

- Excavated Drop Inlet Protection
- Block and Gravel Drop Inlet Protection
- Gravel and Wire Drop Inlet Protection
- Catch Basin Filters
- Alternative BMP not included in the SWMMWW (2005) or SWMMEW (2004)
- Culvert Inlet Sediment Trap
- Alternative BMP not included in the SWMMWW (2005) or SWMMEW (2004)

If the BMP options listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D), or if no BMPs are listed above but deemed necessary during construction, the Certified Erosion and Sediment Control Lead shall implement one or more of the alternative BMP inlet protection options listed in Appendix C.

3.1.8 Element #8 – Stabilize Channels and Outlets

Where site runoff is to be conveyed in channels, or discharged to a stream or some other natural drainage point, efforts will be taken to prevent downstream erosion. The specific BMPs for channel and outlet stabilization that shall be used on this project include:

- Check Dams (BMP C207)

Alternate channel and outlet stabilization BMPs are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

The project site is located west of the Cascade Mountain Crest. As such, all temporary on-site conveyance channels shall be designed, constructed, and stabilized to prevent erosion from the expected peak 10 minute velocity of flow from a Type 1A, 10-year, 24-hour recurrence interval storm for the developed condition. Alternatively, the 10-year, 1-hour peak flow rate indicated by an approved continuous runoff simulation model, increased by a factor of 1.6, shall be used. Stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent streambanks, slopes, and downstream reaches shall be provided at the outlets of all conveyance systems.

3.1.9 Element #9 – Control Pollutants

All pollutants, including waste materials and demolition debris, that occur onsite shall be handled and disposed of in a manner that does not cause contamination of stormwater. Good housekeeping and preventative measures will be taken to ensure that the site will be kept clean, well organized, and free of debris. If required, BMPs to be implemented to control specific sources of pollutants are discussed below.

Vehicles, construction equipment, and/or petroleum product storage/dispensing:

- All vehicles, equipment, and petroleum product storage/dispensing areas will be inspected regularly to detect any leaks or spills, and to identify maintenance needs to prevent leaks or spills.

- On-site fueling tanks and petroleum product storage containers shall include secondary containment.

- Spill prevention measures, such as drip pans, will be used when conducting maintenance and repair of vehicles or equipment.

- In order to perform emergency repairs on site, temporary plastic will be placed beneath and, if raining, over the vehicle.

- Contaminated surfaces shall be cleaned immediately following any discharge or spill incident.

- Excavation and tunneling spoils dewatering waste:

- Dewatering BMPs and BMPs specific to the excavation and tunneling (including handling of contaminated soils) are discussed under Element 10.

Other:

- Other BMPs will be administered as necessary to address any additional pollutant sources on site.

The facility is not transportation-related and therefore subject to the criteria for determining if a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required under the Federal regulations of the Clean Water Act (CWA).

3.1.10 Element #10 – Control Dewatering

Groundwater may be encountered in some of the remedial excavations, in which case dewatering of the excavations may be required to maintain side slopes. Water collected during excavation dewatering will be treated by settling and filtration prior to discharging into the City of Anacortes sewer system.

3.1.11 Element #11 – Maintain BMPs

All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance of their intended function. Maintenance and repair shall be conducted in accordance with each particular BMPs specifications (attached). Visual monitoring of the BMPs will be conducted at least once every calendar week and within 24 hours of any stormwater or non-stormwater discharge from the site. If the site becomes inactive, and is temporarily stabilized, the inspection frequency will be reduced to once every month.

All temporary erosion and sediment control BMPs shall be removed within 30 days after the final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on site. Disturbed soil resulting from removal of BMPs or vegetation shall be permanently stabilized.

3.1.12 Element #12 – Manage the Project

Erosion and sediment control BMPs for this project have been designed based on the following principles:

- Design the project to fit the existing topography, soils, and drainage patterns.
- Emphasize erosion control rather than sediment control.
- Minimize the extent and duration of the area exposed.
- Keep runoff velocities low.
- Retain sediment on site.
- Thoroughly monitor site and maintain all ESC measures.
- Schedule major earthwork during the dry season.

As this project site is located west of the Cascade Mountain Crest, the project will be managed according to the following key project components:

- Phasing of Construction
- The construction project is being phased to the extent practicable in order to prevent soil erosion, and, to the maximum extent possible, the transport of sediment from the site during construction.
- Revegetation of exposed areas and maintenance of that vegetation shall be an integral part of the clearing activities during each phase of construction, per the Scheduling BMP (C 162).
- Seasonal Work Limitations. From October 1 through April 30, clearing, grading, and other soil disturbing activities shall only be permitted if shown to the satisfaction of the local permitting authority that silt-laden runoff will be prevented from leaving the site through a combination of the following:
    - □ Site conditions including existing vegetative coverage, slope, soil type, and proximity to receiving waters; and
    - □ Limitations on activities and the extent of disturbed areas; and
    - □ Proposed erosion and sediment control measures.

- Based on the information provided and/or local weather conditions, the local permitting authority may expand or restrict the seasonal limitation on site disturbance.

The following activities are exempt from the seasonal clearing and grading limitations:

- Routine maintenance and necessary repair of erosion and sediment control BMPs;

- Routine maintenance of public facilities or existing utility structures that do not expose the soil or result in the removal of the vegetative cover to soil; and

- Activities where there is 100 percent infiltration of surface water runoff within the site in approved and installed erosion and sediment control facilities.

Coordination with Utilities and Other Jurisdictions:

- Care has been taken to coordinate with utilities, other construction projects, and the local jurisdiction in preparing this SWPPP and scheduling the construction work.

Inspection and Monitoring - All BMPs shall be inspected, maintained, and repaired as needed to assure continued performance of their intended function. Site inspections shall be conducted by a person who is knowledgeable in the principles and practices of erosion and sediment control. This person has the necessary skills to:

- Assess the site conditions and construction activities that could impact the quality of stormwater, and

- Assess the effectiveness of erosion and sediment control measures used to control the quality of stormwater discharges.

- A Certified Erosion and Sediment Control Lead shall be on-site or on-call at all times.

- Whenever inspection and/or monitoring reveals that the BMPs identified in this SWPPP are inadequate, due to the actual discharge of or potential to discharge a significant amount of any pollutant, appropriate BMPs or design changes shall be implemented as soon as possible.

Maintaining an Updated Construction SWPPP:

- This SWPPP shall be retained on-site or within reasonable access to the site.
- The SWPPP shall be modified whenever there is a change in the design, construction, operation, or maintenance at the construction site that has, or could have, a significant effect on the discharge of pollutants to waters of the state.
- The SWPPP shall be modified if, during inspections or investigations conducted by the owner/operator, or the applicable local or state regulatory authority, it is determined that the SWPPP is ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site. The SWPPP shall be modified as necessary to include additional or modified BMPs designed to correct problems identified. Revisions to the SWPPP shall be completed within seven (7) days following the inspection. ---

Alternate dewatering control BMPs are included in Appendix C as a quick reference tool for the onsite inspector in the event the BMP(s) listed above are deemed ineffective or inappropriate during construction to satisfy the requirements set forth in the General NPDES Permit (Appendix D). To avoid potential erosion and sediment control issues that may cause a violation(s) of the NPDES Construction Stormwater permit (as provided in Appendix D), the Certified Erosion and Sediment Control Lead will promptly initiate the implementation of one or more of the alternative BMPs listed in Appendix C after the first sign that existing BMPs are ineffective or failing.

3.2 Site Specific BMPs

Site specific BMPs are shown on the TESC Plan Sheets and Details in Appendix A.

4.0 Construction Phasing and BMP Implementation

The BMP implementation schedule will be driven by the construction schedule. The following provides a sequential list of the proposed construction schedule milestones and the corresponding BMP implementation schedule.

The BMP implementation schedule listed below is keyed to proposed phases of the construction project, and reflects differences in BMP installations and inspections that relate to dry season construction. The project site is located west of the Cascade Mountain Crest. As such, the dry season is considered to be from May 1 to September 30.

- Estimate of Construction start date: 12-11-2009
- Estimate of Construction completion date: 2-28-2009
- Mobilize equipment on site: 12-10-2009 – 12-18-2009
- Mobilize & store ESC and soil stabilization materials: 12-10-2009 – 12-18-2009
- Install ESC measures: 12-11-2009 – 12-18-2009
- Install wheel wash: Done
- Install Haul Road (stabilized construction entrance): Done
- Excavate soils: 12-11-2009 – 1-14-2010
- Backfill excavations: 12-18-2010 – 2-5-2010
- Project Completion: 2-28-2010

5.0 Pollution Prevention Team

5.1 Roles and Responsibilities

The pollution prevention team consists of personnel responsible for implementation of the SWPPP, including the following:

- **Certified Erosion and Sediment Control Lead (CESCL) –** primary contractor contact, responsible for site inspections (BMPs, visual monitoring, sampling, etc.); to be called upon in case of failure of any ESC measures.

- **Resident Engineer** – For projects with engineered structures only (sediment ponds/traps, sand filters, etc.): site representative for the owner that is the project's supervising engineer responsible for inspections and issuing instructions and drawings to the contractor's site supervisor or representative

- **Emergency Ecology Contact** – individual to be contacted at Ecology in case of emergency.

- **Emergency Owner Contact** – individual that is the site owner or representative of the site owner to be contacted in the case of an emergency.

- **Non-Emergency Owner Contact** – individual that is the site owner or representative of the site owner than can be contacted if required.

- **Monitoring Personnel** – personnel responsible for conducting water quality monitoring; for most sites this person is also the Certified Erosion and Sediment Control Lead.

5.2 Team Members

Names and contact information for those identified as members of the pollution prevention team are provided in the following table.

Title	Name(s)	Phone Number
Certified Erosion and Sediment Control Lead (CESCL)	Lou Ivcevic, RAM	360-815-1145
Resident Engineer	Rebecca Desrosiers, Anchor QEA	206-669-7333
Emergency Ecology Contact	Mark Kaufman, Ecology	360-715-5221
Emergency Owner Contact	Bud Whitaker, Anchor QEA	253-381-8013
Non-Emergency Owner Contact	Brian Martin, Kimberly-Clark	360-303-2151
Monitoring Personnel	Lou Ivcevic, RAM	360-815-1145

6.0 Site Inspections and Monitoring

Monitoring includes visual inspection, monitoring for water quality parameters of concern, and documentation of the inspection and monitoring findings in a site log book. A site log book will be maintained for all on-site construction activities and will include:

- A record of the implementation of the SWPPP and other permit requirements;
- Site inspections; and,
- Stormwater quality monitoring.

For convenience, the inspection form and water quality monitoring forms included in this SWPPP include the required information for the site log book. This SWPPP may function as the site log book if desired, or the forms may be separated and included in a separate site log book. However, if separated, the site log book but must be maintained on-site or within reasonable access to the site and be made available upon request to Ecology or the local jurisdiction.

6.1 Site Inspection

All BMPs will be inspected, maintained, and repaired as needed to assure continued performance of their intended function. The inspector will be a Certified Erosion and Sediment Control Lead (CESCL) per BMP C160. The name and contact information for the CESCL is provided in Section 5 of this SWPPP.

Site inspection will occur in all areas disturbed by construction activities and at all stormwater discharge points. Stormwater will be examined for the presence of suspended sediment, turbidity, discoloration, and oily sheen. The site inspector will evaluate and document the effectiveness of the installed BMPs and determine if it is necessary to repair or replace any of the BMPs to improve the quality of stormwater discharges. All maintenance and repairs will be documented in the site log book or forms provided in this document. All new BMPs or design changes will be documented in the SWPPP as soon as possible.

6.1.1 Site Inspection Frequency

Site inspections will be conducted at least once a week and within 24 hours following any discharge from the site. For sites with temporary stabilization measures, the site inspection frequency can be reduced to once every month.

6.1.2 Site Inspection Documentation

The site inspector will record each site inspection using the site log inspection forms provided in Appendix E. The site inspection log forms may be separated from this SWPPP document, but will be maintained on-site or within reasonable access to the site and be made available upon request to Ecology or the local jurisdiction.

6.2 Stormwater Quality Monitoring

6.2.1 Turbidity Sampling

Monitoring requirements for the proposed project will include either turbidity or water transparency sampling to monitor site discharges for water quality compliance with the 2005 Construction Stormwater General Permit (Appendix D). Sampling will be conducted at all discharge points at least once per calendar week.

Turbidity or transparency monitoring will follow the analytical methodologies described in Section S4 of the 2005 Construction Stormwater General Permit (Appendix D). The key benchmark values that require action are 25 NTU for turbidity (equivalent to 32 cm transparency) and 250 NTU for turbidity (equivalent to 6 cm transparency). If the 25 NTU benchmark for turbidity (equivalent to 32 cm transparency) is exceeded, the following steps will be conducted:

1. Ensure all BMPs specified in this SWPPP are installed and functioning as intended.

2. Assess whether additional BMPs should be implemented, and document revisions to the SWPPP as necessary.

3. Sample discharge location daily until the analysis results are less than 25 NTU (turbidity) or greater than 32 cm (transparency).

If the turbidity is greater than 25 NTU (or transparency is less than 32 cm) but less than 250 NTU (transparency greater than 6 cm) for more than 3 days, additional treatment BMPs will be implemented within 24 hours of the third consecutive sample that exceeded the benchmark value. Additional treatment BMPs to be considered will include, but are not limited to, off-site treatment, infiltration, filtration and chemical treatment.

If the 250 NTU benchmark for turbidity (or less than 6 cm transparency) is exceeded at any time, the following steps will be conducted:

1. Notify Ecology by phone within 24 hours of analysis (see Section 5.0 of this SWPPP for contact information).

2. Continue daily sampling until the turbidity is less than 25 NTU (or transparency is greater than 32 cm).
3. Initiate additional treatment BMPs such as off-site treatment, infiltration, filtration and chemical treatment within 24 hours of the first 250 NTU exceedance.
4. Implement additional treatment BMPs as soon as possible, but within 7 days of the first 250 NTU exceedance.
5. Describe inspection results and remedial actions taken in the site log book and in monthly discharge monitoring reports as described in Section 7.0 of this SWPPP.

6.2.2 pH Sampling

Stormwater runoff will be monitored for pH starting on the first day of any activity that includes more than 40 yards of poured or recycled concrete, or after the application of "Engineered Soils" such as, Portland cement treated base, cement kiln dust, or fly ash. This does not include fertilizers. For concrete work, pH monitoring will start the first day concrete is poured and continue until 3 weeks after the last pour. For engineered soils, the pH monitoring period begins when engineered soils are first exposed to precipitation and continue until the area is fully stabilized.

Stormwater samples will be collected daily from all points of discharge from the site and measured for pH using a calibrated pH meter, pH test kit, or wide range pH indicator paper. If the measured pH is 8.5 or greater, the following steps will be conducted:

1. Prevent the high pH water from entering storm drains or surface water.
2. Adjust or neutralize the high pH water if necessary using appropriate technology such as CO_2 sparging (liquid or dry ice).
3. Contact Ecology if chemical treatment other than CO_2 sparging is planned.

7.0 Reporting and Recordkeeping

7.1 Recordkeeping

7.1.1 Site Log Book

A site log book will be maintained for all on-site construction activities and will include:

- A record of the implementation of the SWPPP and other permit requirements;
- Site inspections; and,
- Stormwater quality monitoring.

This SWPPP will function as the site log book as the project has minimal monitoring requirements and the construction duration is shorter than 3 months. The appendices include multiple copies of the blank checklists and inspection forms to be used as a site log book. **In short, this SWPPP shall be used as the log book for this project.**

7.1.2 Records Retention

Records of all monitoring information (site log book, inspection reports/checklists, etc.), this Stormwater Pollution Prevention Plan, and any other documentation of compliance with permit requirements will be retained during the life of the construction project and for a minimum of three years following the termination of permit coverage in accordance with permit condition S5.C.

7.1.3 Access to Plans and Records

The SWPPP, General Permit, Notice of Authorization letter, and Site Log Book will be retained on site or within reasonable access to the site and will be made immediately available upon request to Ecology or the local jurisdiction. A copy of this SWPPP will be provided to Ecology within 14 days of receipt of a written request for the SWPPP from Ecology. Any other information requested by Ecology will be submitted within a reasonable time. A copy of the SWPPP or access to the SWPPP will be provided to the public when requested in writing in accordance with permit condition S5.G.

7.1.4 Updating the SWPPP

In accordance with Conditions S3, S4.B, and S9.B.3 of the General Permit, this SWPPP will be modified if the SWPPP is ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site or there has been a change in design, construction, operation,

or maintenance at the site that has a significant effect on the discharge, or potential for discharge, of pollutants to the waters of the State. The SWPPP will be modified within seven days of determination based on inspection(s) that additional or modified BMPs are necessary to correct problems identified, and an updated timeline for BMP implementation will be prepared.

7.2 Reporting

7.2.1 Discharge Monitoring Reports

Water quality sampling results will be submitted on the 15th of each month to Ecology on Discharge Monitoring Report (DMR) forms in accordance with permit condition S5.B. If there was no discharge during a given monitoring period, the form will be submitted with the words "no discharge" entered in place of the monitoring results. If a benchmark was exceeded, a brief summary of inspection results and remedial actions taken will be included. If sampling could not be performed during a monitoring period, a DMR will be submitted with an explanation of why sampling could not be performed.

7.2.2 Notification of Noncompliance

If any of the terms and conditions of the permit are not met, and it causes a threat to human health or the environment, the following steps will be taken in accordance with permit section S5.F:

1. Ecology will be immediately notified of the failure to comply.

2. Immediate action will be taken to control the noncompliance issue and to correct the problem. If applicable, sampling and analysis of any noncompliance will be repeated immediately and the results submitted to Ecology within five (5) days of becoming aware of the violation.

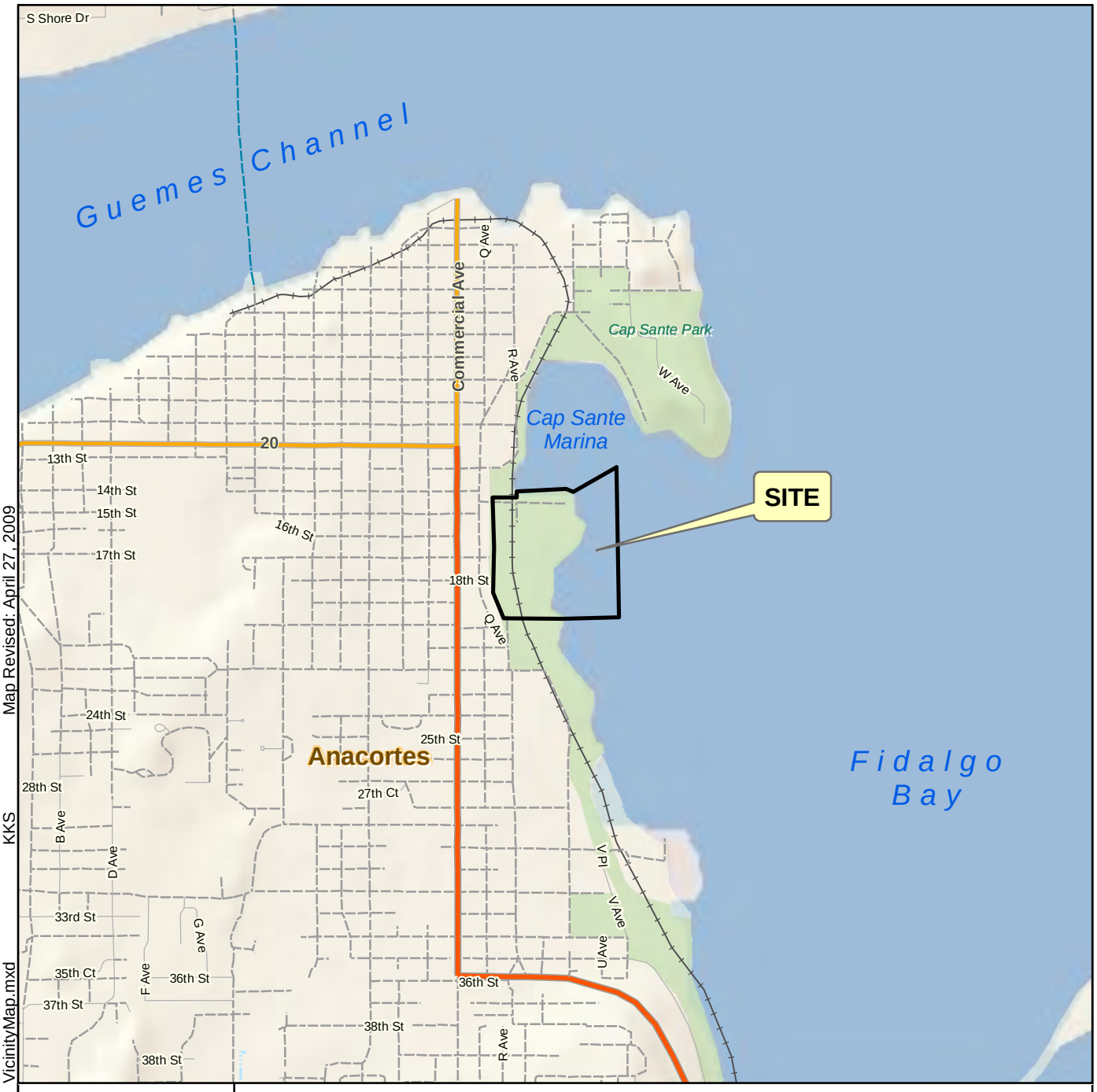
3. A detailed written report describing the noncompliance will be submitted to Ecology within five (5) days, unless requested earlier by Ecology.

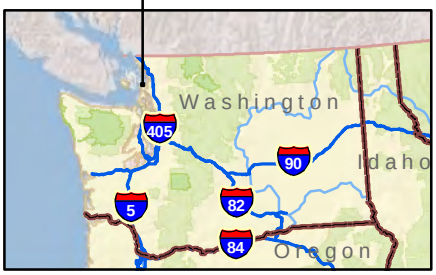
Any time turbidity sampling indicates turbidity is 250 nephelometric turbidity units (NTU) or greater or water transparency is 6 centimeters or less, the Ecology regional office will be notified by phone within 24 hours of analysis as required by permit condition S5.A (see Section 5.0 of this SWPPP for contact information).

In accordance with permit condition S4.F.6.b, the Ecology regional office will be notified if chemical treatment other than CO_2 sparging is planned for adjustment of high pH water (see Section 5.0 of this SWPPP for contact information).

Appendix A – Site Plans

Several maps which have been cited earlier in this SWPPP have been attached on the following pages. A listing of these maps are as follows:





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Feet

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: ESRI Data & Maps, Street Maps 2005

Transverse Mercator, Zone 10 N North, North American Datum 1983
North arrow oriented to grid north

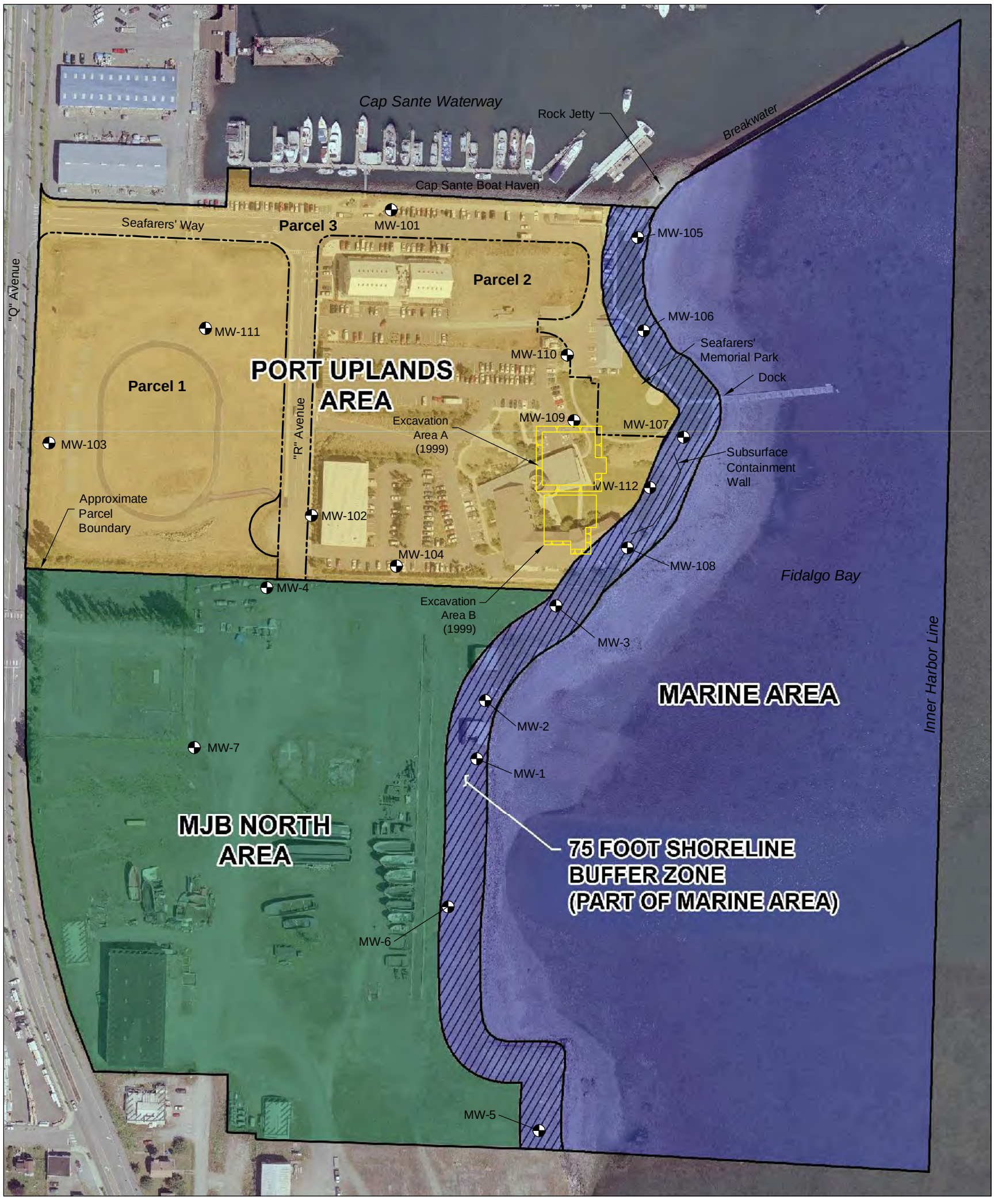
Vicinity Map

Scott Paper Mill
Anacortes, Washington

GeoEngineers

Figure 1

Office: SEA Path: P:\5\5147007\GIS\5147007l1 Fig1 VicinityMap.mxd KKS Map Revised: April 27, 2009



Source: AutoCAD figure provided by Landau Associates, dated September 2006. Base map source: David C. Smith and Associates, July 2004.

Legend

MW-111 — Monitoring Well with Designation

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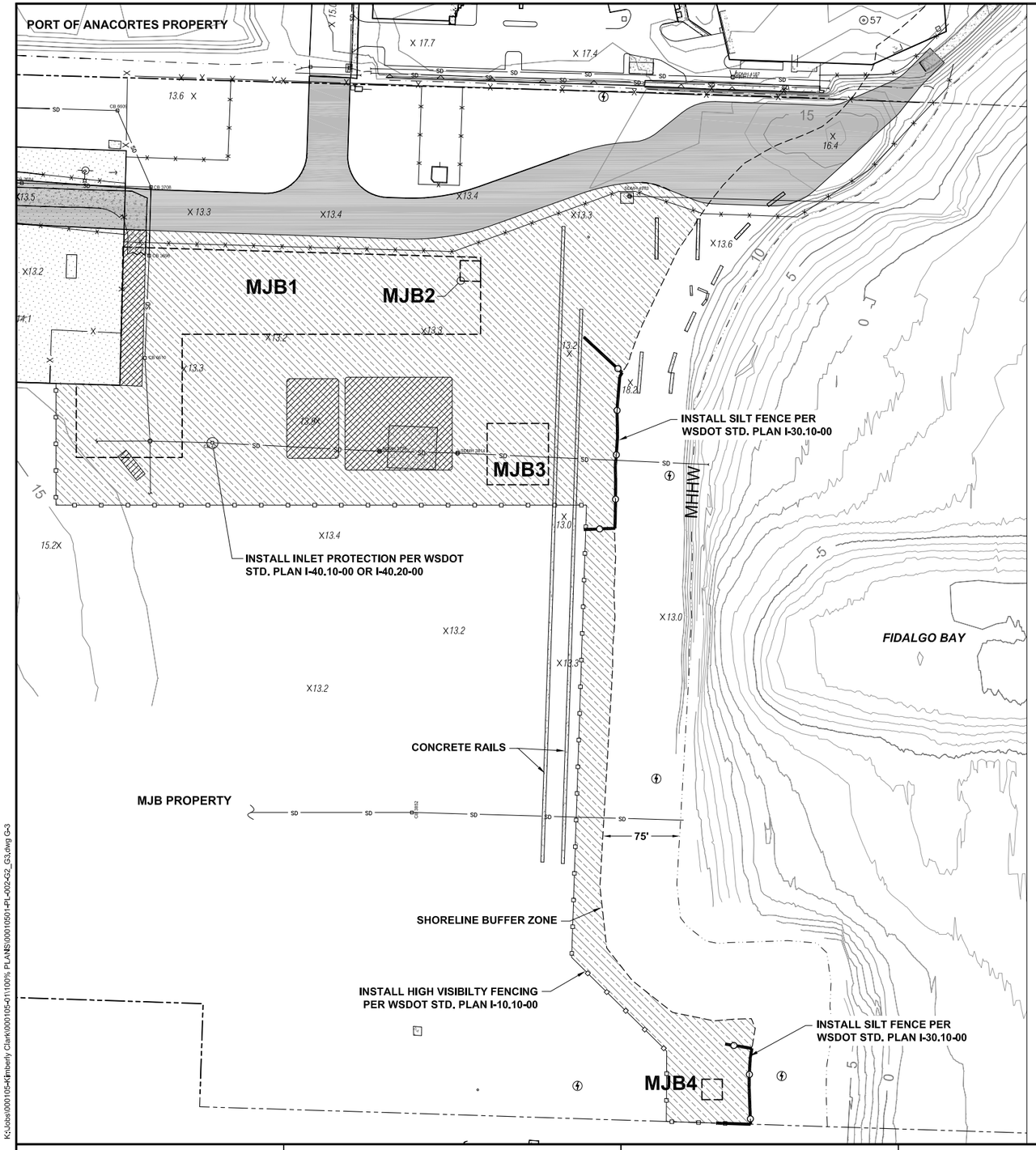
Scale in Feet

Site Plan

Scott Paper Mill
Anacortes, Washington

Figure 2



LEGEND:

- STORM DRAIN
- CATCH BASIN
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD (BY OTHERS)
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- MJB4 INITIAL EXCAVATION AREAS
- PHASE 4A WORK AREA
- SILT FENCE (INSTALL SILT FENCE PER WSDOT STD. PLAN I-30.10-00)
- HIGH VISIBILITY FENCE (INSTALL HIGH VISIBILITY FENCE PER WSDOT STD. PLAN I-10.10-00)

0 60 120

SCALE IN FEET

NOTES:

1. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTY OR WATERWAY, ALL CONSTRUCTION WORK WITHIN THE WORK AREA THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
3. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.
4. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS EROSION CONTROL PLAN NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
5. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON SITE TO PREVENT DEBRIS, DUST, AND MUD FROM ACCUMULATING ON PUBLIC RIGHT-OF-WAYS.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL DEVICES UPON FINAL SITE STABILIZATION AND APPROVAL BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION/WATER POLLUTION CONTROLS FOR CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREAS, AS NEEDED.
8. INLET PROTECTION SHALL BE INSTALLED PER WSDOT STD. PLAN I-40.10-00 OR I-40.20-00, AS PRACTICABLE, TO PROTECT ALL CATCH BASINS LOCATED WITHIN THE WORK AREA. CATCH BASINS LOCATED WITHIN EXCAVATION AREAS REQUIRING REMOVAL SHALL BE REPLACED WITH EQUIVALENT STRUCTURES CONFORMING TO WSDOT STD. PLANS AND AS APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PHASE 4A WORK AREA AND EROSION CONTROL PLAN

G-3

SHEET NO. 3 OF 6

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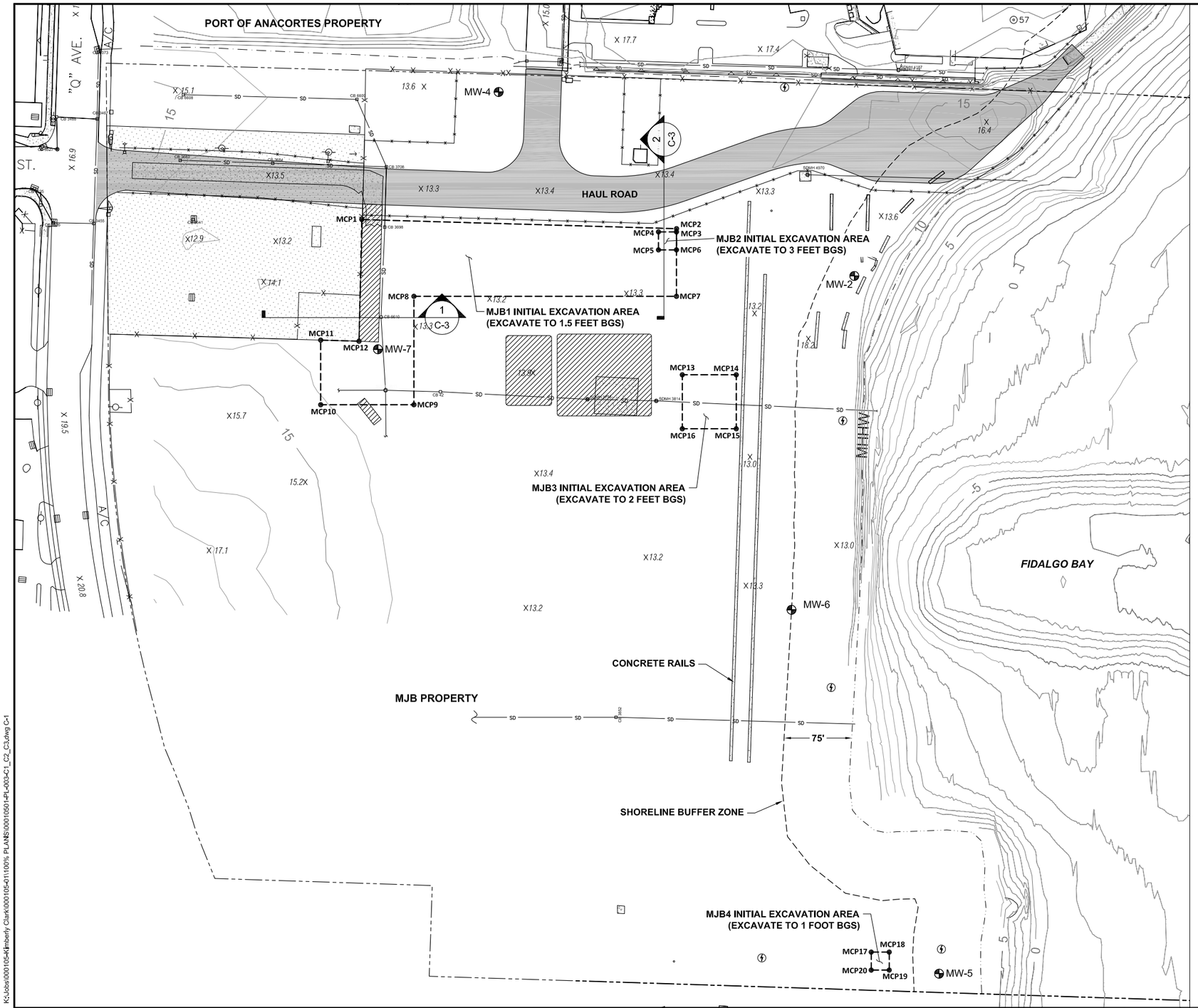

LEGEND:

- MW-2 — MONITORING WELL LOCATION
- SD — STORM DRAIN
- CB 42 — CATCH BASIN
- ELECTRICAL PANEL
- BATHYMETRIC CONTOUR IN FEET
- X 13.2 — SPOT ELEVATION IN FEET
- PROPERTY LINE
- SECURITY FENCE
- HAUL ROAD FENCE
- EXISTING CONCRETE PAD
- HAUL ROAD
- APPROXIMATE LIMITS OF EXISTING PAVEMENT
- INITIAL EXCAVATION AREAS
- MCP1 — PHASE 4A EXCAVATION CONTROL POINT
- 1 / C-3 — CROSS SECTION LOCATION AND DESIGNATION; CROSS SECTION IDENTIFICATION SHEET FOUND ON

POINT ID	EASTING	NORTHING
MCP1	1209829.00	555204.42
MCP2	1210178.95	555194.28
MCP3	1210178.85	555190.72
MCP4	1210158.85	555190.72
MCP5	1210158.85	555170.72
MCP6	1210178.85	555170.72
MCP7	1210178.85	555119.07
MCP8	1209886.94	555119.07
MCP9	1209886.94	554998.60
MCP10	1209783.32	554998.60

POINT ID	EASTING	NORTHING
MCP11	1209783.32	555070.38
MCP12	1209825.91	555069.21
MCP13	1210185.34	555031.86
MCP14	1210245.34	555031.86
MCP15	1210245.34	554971.86
MCP16	1210185.34	554971.86
MCP17	1210395.40	554390.20
MCP18	1210415.40	554390.20
MCP19	1210415.40	554370.20
MCP20	1210395.40	554370.20

0 60 120
SCALE IN FEET

NOTES:

1. EXTENT OF CONTAMINATED SOIL AND ESTIMATED LIMITS OF REMEDIAL EXCAVATION ARE BASED ON REGULATORY REQUIREMENTS AND THE EXISTING CHEMICAL ANALYTICAL AND FIELD SCREENING DATA FOR SOIL COLLECTED AT THE SAMPLE LOCATIONS SHOWN ON DRAWING G-2.
2. REMEDIAL EXCAVATION SHALL BE INITIATED AT THE DESIGNATED LOCATIONS USING APPROPRIATE SIDE SLOPES. COMPLETE SOIL EXCAVATION WITHIN THE DESIGNATED START LOCATIONS SHALL BE COMPLETED TO THE SPECIFIED LIMITS PRIOR TO ANY SIDEWALL CONFIRMATION SAMPLING. EXCAVATION SHALL PROCEED DEEPER AND/OR RADIALLY AWAY FROM THE DESIGNATED START LOCATION AT DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE BASED ON FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS. NO SOIL EXCAVATION SHALL EXPAND WATERWARD OF THE SHORELINE BUFFER ZONE OR DEEPER THAN 6 FEET BGS.
3. SEE DRAWING C-3 FOR EXCAVATION CROSS SECTIONS.
4. EXCAVATIONS MUST BE MAINTAINED OPEN UNTIL VERIFICATION IS COMPLETE AND FILLING IS APPROVED BY OWNER.
5. ALL EXCAVATION ACTIVITIES THAT EXTEND DEEPER THAN 3-FEET BELOW GROUND SURFACE AT ANY LOCATION ON MJB PROPERTY SHALL BE MONITORED BY OWNER'S ARCHEOLOGICAL RESOURCES SPECIALIST.
6. ALL MONITORING WELLS WITHIN EXCAVATION AREAS SHALL BE ABANDONED IN ACCORDANCE WITH WASHINGTON DEPARTMENT OF ECOLOGY REQUIREMENTS (WAC 173-160-381) .
7. ALL SOIL SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH RCRA AND MTCA REQUIREMENTS.
8. DISPOSAL FACILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO USE.
9. SOIL TRANSPORTATION TRUCKS AND TRAILERS SHALL BE COVERED DURING ALL OFF-SITE HAULING.
10. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO WORK. IN THE EVENT THAT THE WATER SUPPLY OR STORM DRAIN PIPES ARE ENCOUNTERED DURING EXCAVATION AND REQUIRE REMOVAL TO FACILITATE REMEDIAL WORK, ALL REMOVED OR DAMAGED STRUCTURES SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND WSDOT STD. PLAN B-55.20-00.

ONE INCH
AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

ANCHOR QEA

KIMBERLY-CLARK

REVISIONS

REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. DESROSIERS
DRAWN BY: H. ERIKSEN
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS SHOWN
DATE: SEPTEMBER 2009

FORMER SCOTT PAPER MILL CLEANUP PROJECT - PHASE 4

PHASE 4A SOIL REMEDIAL EXCAVATION PLAN

C-1

SHEET NO. 4 OF 6

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Appendix B – Construction BMPs

Several BMPs have been cited earlier in this SWPPP and detail sheets have been attached on the following pages. A listing of these BMPs are as follows:

- Preserving Natural Vegetation (BMP C101)
- Buffer Zones (BMP C102)
- High Visibility Plastic or Metal Fence (BMP C103)
- Stake and Wire Fence (BMP C104)
- Stabilized Construction Entrance (BMP C105)
- Wheel Wash (BMP C106)
- Temporary and Permanent Seeding (BMP C120)
- Dust Control (BMP C140)
- Early application of gravel base on areas to be paved
- Grass-Lined Channels (BMP C201)
- Check Dams (BMP C207)
- Storm Drain Inlet Protection (BMP C220)
- Silt Fence (BMP C233)
- Straw Wattles (BMP C235)

4.1 Source Control BMPs

BMP C101: Preserving Natural Vegetation

Purpose

The purpose of preserving natural vegetation is to reduce erosion wherever practicable. Limiting site disturbance is the single most effective method for reducing erosion. For example, conifers can hold up to about 50 percent of all rain that falls during a storm. Up to 20-30 percent of this rain may never reach the ground but is taken up by the tree or evaporates. Another benefit is that the rain held in the tree can be released slowly to the ground after the storm.

Conditions of Use

- Natural vegetation should be preserved on steep slopes, near perennial and intermittent watercourses or swales, and on building sites in wooded areas.
- As required by local governments.

Design and Installation Specifications

Natural vegetation can be preserved in natural clumps or as individual trees, shrubs and vines.

The preservation of individual plants is more difficult because heavy equipment is generally used to remove unwanted vegetation. The points to remember when attempting to save individual plants are:

- Is the plant worth saving? Consider the location, species, size, age, vigor, and the work involved. Local governments may also have ordinances to save natural vegetation and trees.
- Fence or clearly mark areas around trees that are to be saved. It is preferable to keep ground disturbance away from the trees at least as far out as the dripline.

Plants need protection from three kinds of injuries:

- *Construction Equipment* - This injury can be above or below the ground level. Damage results from scarring, cutting of roots, and compaction of the soil. Placing a fenced buffer zone around plants to be saved prior to construction can prevent construction equipment injuries.
- *Grade Changes* - Changing the natural ground level will alter grades, which affects the plant's ability to obtain the necessary air, water, and minerals. Minor fills usually do not cause problems although sensitivity between species does vary and should be checked. Trees can tolerate fill of 6 inches or less. For shrubs and other plants, the fill should be less.

  When there are major changes in grade, it may become necessary to supply air to the roots of plants. This can be done by placing a layer of gravel and a tile system over the roots before the fill is made. A tile

system protects a tree from a raised grade. The tile system should be laid out on the original grade leading from a dry well around the tree trunk. The system should then be covered with small stones to allow air to circulate over the root area.

Lowering the natural ground level can seriously damage trees and shrubs. The highest percentage of the plant roots are in the upper 12 inches of the soil and cuts of only 2-3 inches can cause serious injury. To protect the roots it may be necessary to terrace the immediate area around the plants to be saved. If roots are exposed, construction of retaining walls may be needed to keep the soil in place. Plants can also be preserved by leaving them on an undisturbed, gently sloping mound. To increase the chances for survival, it is best to limit grade changes and other soil disturbances to areas outside the dripline of the plant.

- *Excavations* - Protect trees and other plants when excavating for drainfields, power, water, and sewer lines. Where possible, the trenches should be routed around trees and large shrubs. When this is not possible, it is best to tunnel under them. This can be done with hand tools or with power augers. If it is not possible to route the trench around plants to be saved, then the following should be observed:

  Cut as few roots as possible. When you have to cut, cut clean. Paint cut root ends with a wood dressing like asphalt base paint.

  Backfill the trench as soon as possible.

  Tunnel beneath root systems as close to the center of the main trunk to preserve most of the important feeder roots.

Some problems that can be encountered with a few specific trees are:

- Maple, Dogwood, Red alder, Western hemlock, Western red cedar, and Douglas fir do not readily adjust to changes in environment and special care should be taken to protect these trees.
- The windthrow hazard of Pacific silver fir and madronna is high, while that of Western hemlock is moderate. The danger of windthrow increases where dense stands have been thinned. Other species (unless they are on shallow, wet soils less than 20 inches deep) have a low windthrow hazard.
- Cottonwoods, maples, and willows have water-seeking roots. These can cause trouble in sewer lines and infiltration fields. On the other hand, they thrive in high moisture conditions that other trees would not.
- Thinning operations in pure or mixed stands of Grand fir, Pacific silver fir, Noble fir, Sitka spruce, Western red cedar, Western hemlock,

Pacific dogwood, and Red alder can cause serious disease problems. Disease can become established through damaged limbs, trunks, roots, and freshly cut stumps. Diseased and weakened trees are also susceptible to insect attack.

Maintenance Standards

- Inspect flagged and/or fenced areas regularly to make sure flagging or fencing has not been removed or damaged. If the flagging or fencing has been damaged or visibility reduced, it shall be repaired or replaced immediately and visibility restored.
- If tree roots have been exposed or injured, "prune" cleanly with an appropriate pruning saw or lopers directly above the damaged roots and recover with native soils. Treatment of sap flowing trees (fir, hemlock, pine, soft maples) is not advised as sap forms a natural healing barrier.

BMP C102: Buffer Zones

Purpose

An undisturbed area or strip of natural vegetation or an established suitable planting that will provide a living filter to reduce soil erosion and runoff velocities.

Conditions of Use

Natural buffer zones are used along streams, wetlands and other bodies of water that need protection from erosion and sedimentation. Vegetative buffer zones can be used to protect natural swales and can be incorporated into the natural landscaping of an area.

Critical-areas buffer zones should not be used as sediment treatment areas. These areas shall remain completely undisturbed. The local permitting authority may expand the buffer widths temporarily to allow the use of the expanded area for removal of sediment.

Design and Installation Specifications

- Preserving natural vegetation or plantings in clumps, blocks, or strips is generally the easiest and most successful method.
- Leave all unstable steep slopes in natural vegetation.
- Mark clearing limits and keep all equipment and construction debris out of the natural areas. Steel construction fencing is the most effective method in protecting sensitive areas and buffers. Alternatively, wire-backed silt fence on steel posts is marginally effective. Flagging alone is typically not effective.
- Keep all excavations outside the dripline of trees and shrubs.
- Do not push debris or extra soil into the buffer zone area because it will cause damage from burying and smothering.
- Vegetative buffer zones for streams, lakes or other waterways shall be established by the local permitting authority or other state or federal permits or approvals.

Maintenance Standards

- Inspect the area frequently to make sure flagging remains in place and the area remains undisturbed.

BMP C103: High Visibility Plastic or Metal Fence

Purpose

Fencing is intended to: (1) restrict clearing to approved limits; (2) prevent disturbance of sensitive areas, their buffers, and other areas required to be left undisturbed; (3) limit construction traffic to designated construction entrances or roads; and, (4) protect areas where marking with survey tape may not provide adequate protection.

Conditions of Use

To establish clearing limits, plastic or metal fence may be used:

- At the boundary of sensitive areas, their buffers, and other areas required to be left uncleared.
- As necessary to control vehicle access to and on the site.

Design and Installation Specifications

- High visibility plastic fence shall be composed of a high-density polyethylene material and shall be at least four feet in height. Posts for the fencing shall be steel or wood and placed every 6 feet on center (maximum) or as needed to ensure rigidity. The fencing shall be fastened to the post every six inches with a polyethylene tie. On long continuous lengths of fencing, a tension wire or rope shall be used as a top stringer to prevent sagging between posts. The fence color shall be high visibility orange. The fence tensile strength shall be 360 lbs./ft. using the ASTM D4595 testing method.
- Metal fences shall be designed and installed according to the manufacturer's specifications.
- Metal fences shall be at least 3 feet high and must be highly visible.
- Fences shall not be wired or stapled to trees.

Maintenance Standards

- If the fence has been damaged or visibility reduced, it shall be repaired or replaced immediately and visibility restored.

BMP C104: Stake and Wire Fence

Purpose

Fencing is intended to: (1) restrict clearing to approved limits; (2) prevent disturbance of sensitive areas, their buffers, and other areas required to be left undisturbed; (3) limit construction traffic to designated construction entrances or roads; and, (4) protect any areas where marking with survey tape may not provide adequate protection.

Conditions of Use

To establish clearing limits, stake or wire fence may be used:

- At the boundary of sensitive areas, their buffers, and other areas required to be left uncleared.
- As necessary, to control vehicle access to and on the site.

Design and Installation Specifications

- See Figure 4.1 for details.
- More substantial fencing shall be used if the fence does not prevent encroachment into those areas that are not to be disturbed.

Maintenance Standards

- If the fence has been damaged or visibility reduced, it shall be repaired or replaced immediately and visibility restored.

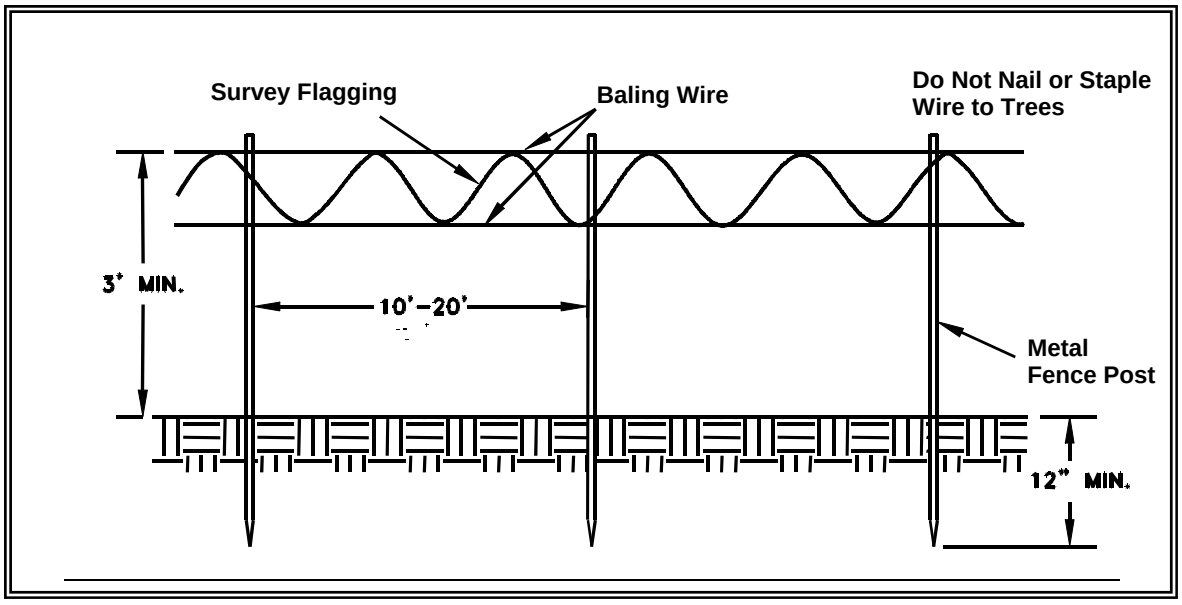


Figure 4.1 – Stake and Wire Fence

BMP C105: Stabilized Construction Entrance

Purpose

Construction entrances are stabilized to reduce the amount of sediment transported onto paved roads by vehicles or equipment by constructing a stabilized pad of quarry spalls at entrances to construction sites.

Conditions of Use

Construction entrances shall be stabilized wherever traffic will be leaving a construction site and traveling on paved roads or other paved areas within 1,000 feet of the site.

On large commercial, highway, and road projects, the designer should include enough extra materials in the contract to allow for additional stabilized entrances not shown in the initial Construction SWPPP. It is difficult to determine exactly where access to these projects will take place; additional materials will enable the contractor to install them where needed.

Design and Installation Specifications

- See Figure 4.2 for details. Note: the 100' minimum length of the entrance shall be reduced to the maximum practicable size when the size or configuration of the site does not allow the full length (100').
- A separation geotextile shall be placed under the spalls to prevent fine sediment from pumping up into the rock pad. The geotextile shall meet the following standards:

Grab Tensile Strength (ASTM D4751)	200 psi min.
Grab Tensile Elongation (ASTM D4632)	30% max.
Mullen Burst Strength (ASTM D3786-80a)	400 psi min.
AOS (ASTM D4751)	20-45 (U.S. standard sieve size)

- Consider early installation of the first lift of asphalt in areas that will paved; this can be used as a stabilized entrance. Also consider the installation of excess concrete as a stabilized entrance. During large concrete pours, excess concrete is often available for this purpose.
- Hog fuel (wood-based mulch) may be substituted for or combined with quarry spalls in areas that will not be used for permanent roads. Hog fuel is generally less effective at stabilizing construction entrances and should be used only at sites where the amount of traffic is very limited. Hog fuel is not recommended for entrance stabilization in urban areas. The effectiveness of hog fuel is highly variable and it generally requires more maintenance than quarry spalls. The inspector may at any time require the use of quarry spalls if the hog fuel is not preventing sediment from being tracked onto pavement or if the hog fuel is being carried onto pavement. Hog fuel is prohibited in permanent roadbeds because organics in the subgrade soils cause degradation of the subgrade support over time.
- Fencing (see BMPs C103 and C104) shall be installed as necessary to restrict traffic to the construction entrance.

- Whenever possible, the entrance shall be constructed on a firm, compacted subgrade. This can substantially increase the effectiveness of the pad and reduce the need for maintenance.

Maintenance Standards

- Quarry spalls (or hog fuel) shall be added if the pad is no longer in accordance with the specifications.
- If the entrance is not preventing sediment from being tracked onto pavement, then alternative measures to keep the streets free of sediment shall be used. This may include street sweeping, an increase in the dimensions of the entrance, or the installation of a wheel wash.
- Any sediment that is tracked onto pavement shall be removed by shoveling or street sweeping. The sediment collected by sweeping shall be removed or stabilized on site. The pavement shall not be cleaned by washing down the street, except when sweeping is ineffective and there is a threat to public safety. If it is necessary to wash the streets, the construction of a small sump shall be considered. The sediment would then be washed into the sump where it can be controlled.
- Any quarry spalls that are loosened from the pad, which end up on the roadway shall be removed immediately.
- If vehicles are entering or exiting the site at points other than the construction entrance(s), fencing (see BMPs C103 and C104) shall be installed to control traffic.
- Upon project completion and site stabilization, all construction accesses intended as permanent access for maintenance shall be permanently stabilized.

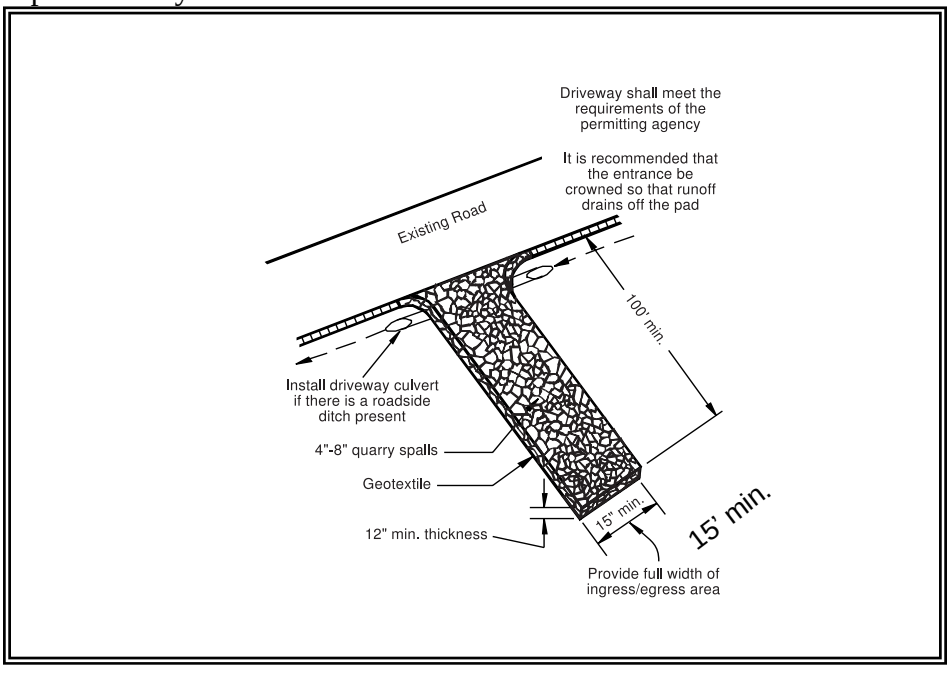


Figure 4.2 – Stabilized Construction Entrance

BMP C106: Wheel Wash

Purpose

Wheel washes reduce the amount of sediment transported onto paved roads by motor vehicles.

Conditions of Use

When a stabilized construction entrance (see BMP C105) is not preventing sediment from being tracked onto pavement.

- Wheel washing is generally an effective BMP when installed with careful attention to topography. For example, a wheel wash can be detrimental if installed at the top of a slope abutting a right-of-way where the water from the dripping truck can run unimpeded into the street.
- Pressure washing combined with an adequately sized and surfaced pad with direct drainage to a large 10-foot x 10-foot sump can be very effective.

Design and Installation Specifications

Suggested details are shown in Figure 4.3. The Local Permitting Authority may allow other designs. A minimum of 6 inches of asphalt treated base (ATB) over crushed base material or 8 inches over a good subgrade is recommended to pave the wheel wash.

Use a low clearance truck to test the wheel wash before paving. Either a belly dump or lowboy will work well to test clearance.

Keep the water level from 12 to 14 inches deep to avoid damage to truck hubs and filling the truck tongues with water.

Midpoint spray nozzles are only needed in extremely muddy conditions.

Wheel wash systems should be designed with a small grade change, 6 to 12 inches for a 10-foot-wide pond, to allow sediment to flow to the low side of pond to help prevent re-suspension of sediment. A drainpipe with a 2- to 3-foot riser should be installed on the low side of the pond to allow for easy cleaning and refilling. Polymers may be used to promote coagulation and flocculation in a closed-loop system. Polyacrylamide (PAM) added to the wheel wash water at a rate of 0.25 - 0.5 pounds per 1,000 gallons of water increases effectiveness and reduces cleanup time. If PAM is already being used for dust or erosion control and is being applied by a water truck, the same truck can be used to change the wash water.

Maintenance Standards

The wheel wash should start out the day with fresh water.

The wash water should be changed a minimum of once per day. On large earthwork jobs where more than 10-20 trucks per hour are expected, the wash water will need to be changed more often.

Wheel wash or tire bath wastewater shall be discharged to a separate on-site treatment system, such as closed-loop recirculation or land application, or to the sanitary sewer with proper local sewer district approval.

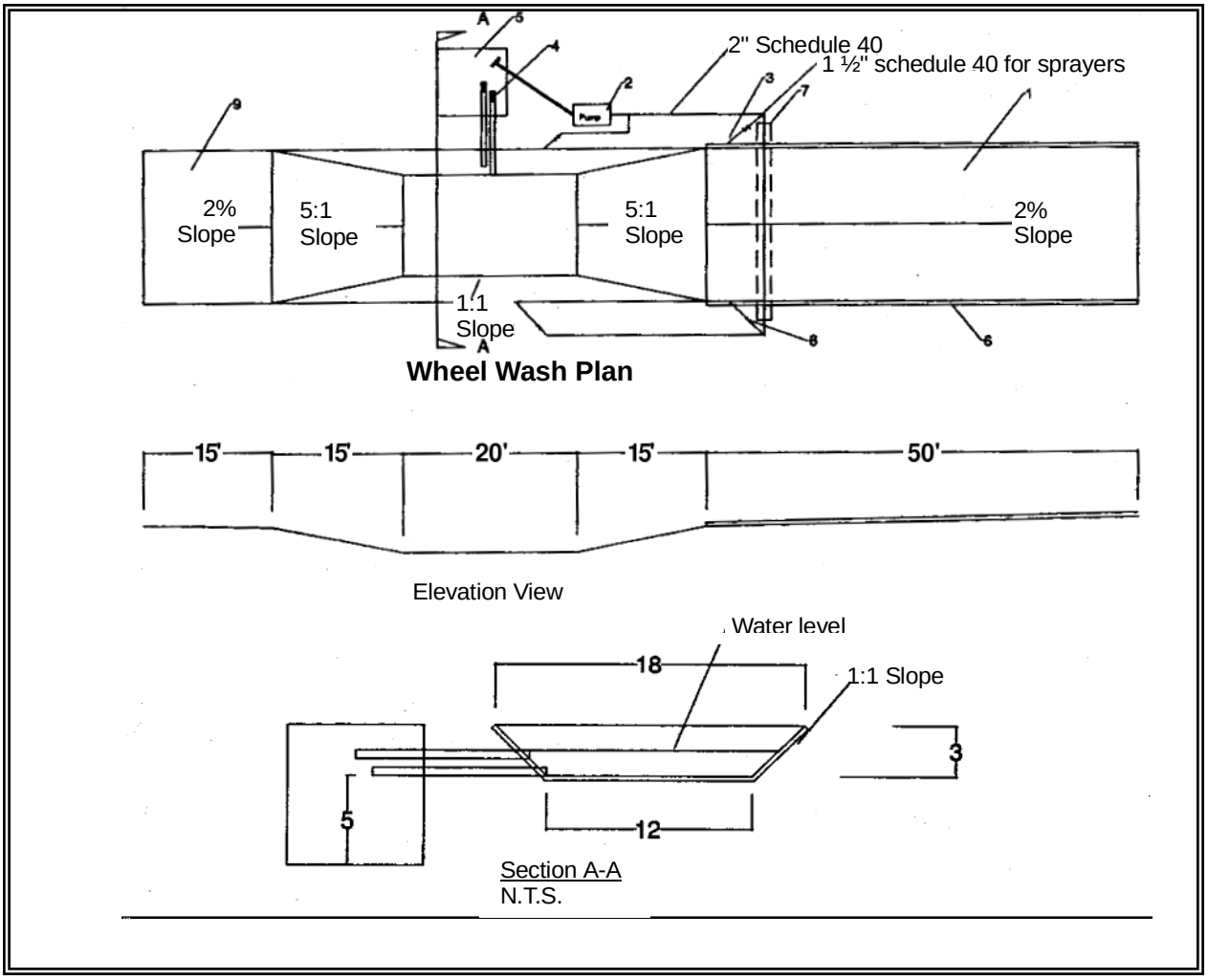


Figure 4.3 Wheel Wash

Notes:

1. Asphalt construction entrance 6 in. asphalt treated base (ATB).
2. 3-inch trash pump with floats on the suction hose.
3. Midpoint spray nozzles, if needed.
4. 6-inch sewer pipe with butterfly valves. Bottom one is a drain. Locate top pipe's invert 1 foot above bottom of wheel wash.
5. 8 foot x 8 foot sump with 5 feet of catch. Build so can be cleaned with trackhoe.
6. Asphalt curb on the low road side to direct water back to pond.
7. 6-inch sleeve under road.
8. Ball valves.
9. 15 foot. ATB apron to protect ground from splashing water.

BMP C107: Construction Road/Parking Area Stabilization

Purpose

Stabilizing subdivision roads, parking areas, and other onsite vehicle transportation routes immediately after grading reduces erosion caused by construction traffic or runoff.

Conditions of Use

- Roads or parking areas shall be stabilized wherever they are constructed, whether permanent or temporary, for use by construction traffic.
- Fencing (see BMPs C103 and C104) shall be installed, if necessary, to limit the access of vehicles to only those roads and parking areas that are stabilized.

Design and Installation Specifications

- On areas that will receive asphalt as part of the project, install the first lift as soon as possible.
- A 6-inch depth of 2- to 4-inch crushed rock, gravel base, or crushed surfacing base course shall be applied immediately after grading or utility installation. A 4-inch course of asphalt treated base (ATB) may also be used, or the road/parking area may be paved. It may also be possible to use cement or calcium chloride for soil stabilization. If cement or cement kiln dust is used for roadbase stabilization, pH monitoring and BMPs are necessary to evaluate and minimize the effects on stormwater. If the area will not be used for permanent roads, parking areas, or structures, a 6-inch depth of hog fuel may also be used, but this is likely to require more maintenance. Whenever possible, construction roads and parking areas shall be placed on a firm, compacted subgrade.
- Temporary road gradients shall not exceed 15 percent. Roadways shall be carefully graded to drain. Drainage ditches shall be provided on each side of the roadway in the case of a crowned section, or on one side in the case of a super-elevated section. Drainage ditches shall be directed to a sediment control BMP.
- Rather than relying on ditches, it may also be possible to grade the road so that runoff sheet-flows into a heavily vegetated area with a well-developed topsoil. Landscaped areas are not adequate. If this area has at least 50 feet of vegetation, then it is generally preferable to use the vegetation to treat runoff, rather than a sediment pond or trap. The 50 feet shall not include wetlands. If runoff is allowed to sheetflow through adjacent vegetated areas, it is vital to design the roadways and parking areas so that no concentrated runoff is created.
- Storm drain inlets shall be protected to prevent sediment-laden water entering the storm drain system (see BMP C220).

Maintenance Standards

- Inspect stabilized areas regularly, especially after large storm events.
- Crushed rock, gravel base, hog fuel, etc. shall be added as required to maintain a stable driving surface and to stabilize any areas that have eroded.
- Following construction, these areas shall be restored to pre-construction condition or better to prevent future erosion.

BMP C120: Temporary and Permanent Seeding

Purpose

Seeding is intended to reduce erosion by stabilizing exposed soils. A well-established vegetative cover is one of the most effective methods of reducing erosion.

Conditions of Use

- Seeding may be used throughout the project on disturbed areas that have reached final grade or that will remain unworked for more than 30 days.
- Channels that will be vegetated should be installed before major earthwork and hydroseeded with a Bonded Fiber Matrix. The vegetation should be well established (i.e., 75 percent cover) before water is allowed to flow in the ditch. With channels that will have high flows, erosion control blankets should be installed over the hydroseed. If vegetation cannot be established from seed before water is allowed in the ditch, sod should be installed in the bottom of the ditch over hydromulch and blankets.
- Retention/detention ponds should be seeded as required.
- Mulch is required at all times because it protects seeds from heat, moisture loss, and transport due to runoff.
- All disturbed areas shall be reviewed in late August to early September and all seeding should be completed by the end of September. Otherwise, vegetation will not establish itself enough to provide more than average protection.
- At final site stabilization, all disturbed areas not otherwise vegetated or stabilized shall be seeded and mulched. Final stabilization means the completion of all soil disturbing activities at the site and the establishment of a permanent vegetative cover, or equivalent permanent stabilization measures (such as pavement, riprap, gabions or geotextiles) which will prevent erosion.

Design and Installation Specifications

- Seeding should be done during those seasons most conducive to growth and will vary with the climate conditions of the region. Local experience should be used to determine the appropriate seeding periods.
- The optimum seeding windows for western Washington are April 1 through June 30 and September 1 through October 1. Seeding that occurs between July 1 and August 30 will require irrigation until 75 percent grass cover is established. Seeding that occurs between October 1 and March 30 will require a mulch or plastic cover until 75 percent grass cover is established.
- To prevent seed from being washed away, confirm that all required surface water control measures have been installed.

- The seedbed should be firm and rough. All soil should be roughened no matter what the slope. If compaction is required for engineering purposes, slopes must be track walked before seeding. Backblading or smoothing of slopes greater than 4:1 is not allowed if they are to be seeded.
- New and more effective restoration-based landscape practices rely on deeper incorporation than that provided by a simple single-pass rototilling treatment. Wherever practical the subgrade should be initially ripped to improve long-term permeability, infiltration, and water inflow qualities. At a minimum, permanent areas shall use soil amendments to achieve organic matter and permeability performance defined in engineered soil/landscape systems. For systems that are deeper than 8 inches the rototilling process should be done in multiple lifts, or the prepared soil system shall be prepared properly and then placed to achieve the specified depth.
- Organic matter is the most appropriate form of "fertilizer" because it provides nutrients (including nitrogen, phosphorus, and potassium) in the least water-soluble form. A natural system typically releases 2-10 percent of its nutrients annually. Chemical fertilizers have since been formulated to simulate what organic matter does naturally.
- In general, 10-4-6 N-P-K (nitrogen-phosphorus-potassium) fertilizer can be used at a rate of 90 pounds per acre. Slow-release fertilizers should always be used because they are more efficient and have fewer environmental impacts. It is recommended that areas being seeded for final landscaping conduct soil tests to determine the exact type and quantity of fertilizer needed. This will prevent the over-application of fertilizer. Fertilizer should not be added to the hydromulch machine and agitated more than 20 minutes before it is to be used. If agitated too much, the slow-release coating is destroyed.
- There are numerous products available on the market that take the place of chemical fertilizers. These include several with seaweed extracts that are beneficial to soil microbes and organisms. If 100 percent cottonseed meal is used as the mulch in hydroseed, chemical fertilizer may not be necessary. Cottonseed meal is a good source of long-term, slow-release, available nitrogen.
- Hydroseed applications shall include a minimum of 1,500 pounds per acre of mulch with 3 percent tackifier. Mulch may be made up of 100 percent: cottonseed meal; fibers made of wood, recycled cellulose, hemp, and kenaf; compost; or blends of these. Tackifier shall be plant-based, such as guar or alpha plantago, or chemical-based such as polyacrylamide or polymers. Any mulch or tackifier product used shall be installed per manufacturer's instructions. Generally, mulches come in 40-50 pound bags. Seed and fertilizer are added at time of application.

- Mulch is always required for seeding. Mulch can be applied on top of the seed or simultaneously by hydroseeding.
- On steep slopes, Bonded Fiber Matrix (BFM) or Mechanically Bonded Fiber Matrix (MBFM) products should be used. BFM/MBFM products are applied at a minimum rate of 3,000 pounds per acre of mulch with approximately 10 percent tackifier. Application is made so that a minimum of 95 percent soil coverage is achieved. Numerous products are available commercially and should be installed per manufacturer's instructions. Most products require 24-36 hours to cure before a rainfall and cannot be installed on wet or saturated soils. Generally, these products come in 40-50 pound bags and include all necessary ingredients except for seed and fertilizer.

BFMs and MBFMs have some advantages over blankets:

- No surface preparation required;
- Can be installed via helicopter in remote areas;
- On slopes steeper than 2.5:1, blanket installers may need to be roped and harnessed for safety;
- They are at least $1,000 per acre cheaper installed.

In most cases, the shear strength of blankets is not a factor when used on slopes, only when used in channels. BFMs and MBFMs are good alternatives to blankets in most situations where vegetation establishment is the goal.

- When installing seed via hydroseeding operations, only about 1/3 of the seed actually ends up in contact with the soil surface. This reduces the ability to establish a good stand of grass quickly. One way to overcome this is to increase seed quantities by up to 50 percent.
- Vegetation establishment can also be enhanced by dividing the hydromulch operation into two phases:
    1. Phase 1- Install all seed and fertilizer with 25-30 percent mulch and tackifier onto soil in the first lift;
    2. Phase 2- Install the rest of the mulch and tackifier over the first lift.

An alternative is to install the mulch, seed, fertilizer, and tackifier in one lift. Then, spread or blow straw over the top of the hydromulch at a rate of about 800-1000 pounds per acre. Hold straw in place with a standard tackifier. Both of these approaches will increase cost moderately but will greatly improve and enhance vegetative establishment. The increased cost may be offset by the reduced need for:

1. Irrigation
2. Reapplication of mulch
3. Repair of failed slope surfaces

This technique works with standard hydromulch (1,500 pounds per acre minimum) and BFM/MBFMs (3,000 pounds per acre minimum).

- Areas to be permanently landscaped shall provide a healthy topsoil that reduces the need for fertilizers, improves overall topsoil quality, provides for better vegetal health and vitality, improves hydrologic characteristics, and reduces the need for irrigation. This can be accomplished in a number of ways:

  Recent research has shown that the best method to improve till soils is to amend these soils with compost. The optimum mixture is approximately two parts soil to one part compost. This equates to 4 inches of compost mixed to a depth of 12 inches in till soils. Increasing the concentration of compost beyond this level can have negative effects on vegetal health, while decreasing the concentrations can reduce the benefits of amended soils. Please note: The compost should meet specifications for Grade A quality compost in Ecology Publication 94-038.

  Other soils, such as gravel or cobble outwash soils, may require different approaches. Organics and fines easily migrate through the loose structure of these soils. Therefore, the importation of at least 6 inches of quality topsoil, underlain by some type of filter fabric to prevent the migration of fines, may be more appropriate for these soils.

  Areas that already have good topsoil, such as undisturbed areas, do not require soil amendments.

- Areas that will be seeded only and not landscaped may need compost or meal-based mulch included in the hydroseed in order to establish vegetation. Native topsoil should be re-installed on the disturbed soil surface before application.
- Seed that is installed as a temporary measure may be installed by hand if it will be covered by straw, mulch, or topsoil. Seed that is installed as a permanent measure may be installed by hand on small areas (usually less than 1 acre) that will be covered with mulch, topsoil, or erosion blankets. The seed mixes listed below include recommended mixes for both temporary and permanent seeding. These mixes, with the exception of the wetland mix, shall be applied at a rate of 120 pounds per acre. This rate can be reduced if soil amendments or slow-release fertilizers are used. Local suppliers or the local conservation district should be consulted for their recommendations because the appropriate mix depends on a variety of factors, including location, exposure, soil type, slope, and expected foot traffic. Alternative seed mixes approved by the local authority may be used.

Table 4.1 represents the standard mix for those areas where just a temporary vegetative cover is required.

Table 4.1
Temporary Erosion Control Seed Mix

	% Weight	% Purity	% Germination
Chewings or annual blue grass *Festuca rubra var. commutata* or *Poa anna*	40	98	90
Perennial rye - *Lolium perenne*	50	98	90
Redtop or colonial bentgrass *Agrostis alba* or *Agrostis tenuis*	5	92	85
White dutch clover *Trifolium repens*	5	98	90

Table 4.2 provides just one recommended possibility for landscaping seed.

Table 4.2
Landscaping Seed Mix

	% Weight	% Purity	% Germination
Perennial rye blend *Lolium perenne*	70	98	90
Chewings and red fescue blend *Festuca rubra var. commutata* or *Festuca rubra*	30	98	90

This turf seed mix in Table 4.3 is for dry situations where there is no need for much water. The advantage is that this mix requires very little maintenance.

Table 4.3
Low-Growing Turf Seed Mix

	% Weight	% Purity	% Germination
Dwarf tall fescue (several varieties) *Festuca arundinacea var.*	45	98	90
Dwarf perennial rye (Barclay) *Lolium perenne var. barclay*	30	98	90
Red fescue *Festuca rubra*	20	98	90
Colonial bentgrass *Agrostis tenuis*	5	98	90

Table 4.4 presents a mix recommended for bioswales and other intermittently wet areas.

Table 4.4
Bioswale Seed Mix*

	% Weight	% Purity	% Germination
Tall or meadow fescue *Festuca arundinacea* or *Festuca elatior*	75-80	98	90
Seaside/Creeping bentgrass *Agrostis palustris*	10-15	92	85
Redtop bentgrass *Agrostis alba* or *Agrostis gigantea*	5-10	90	80

** Modified Briargreen, Inc. Hydroseeding Guide Wetlands Seed Mix*

The seed mix shown in Table 4.5 is a recommended low-growing, relatively non-invasive seed mix appropriate for very wet areas that are not regulated wetlands. Other mixes may be appropriate, depending on the soil type and hydrology of the area. Recent research suggests that bentgrass (agrostis sp.) should be emphasized in wet-area seed mixes. Apply this mixture at a rate of 60 pounds per acre.

Table 4.5
Wet Area Seed Mix*

	% Weight	% Purity	% Germination
Tall or meadow fescue *Festuca arundinacea* or *Festuca elatior*	60-70	98	90
Seaside/Creeping bentgrass *Agrostis palustris*	10-15	98	85
Meadow foxtail *Alepocurus pratensis*	10-15	90	80
Alsike clover *Trifolium hybridum*	1-6	98	90
Redtop bentgrass *Agrostis alba*	1-6	92	85

** Modified Briargreen, Inc. Hydroseeding Guide Wetlands Seed Mix*

The meadow seed mix in Table 4.6 is recommended for areas that will be maintained infrequently or not at all and where colonization by native plants is desirable. Likely applications include rural road and utility right-of-way. Seeding should take place in September or very early October in order to obtain adequate establishment prior to the winter months. The appropriateness of clover in the mix may need to be considered, as this can be a fairly invasive species. If the soil is amended, the addition of clover may not be necessary.

Table 4.6
Meadow Seed Mix

	% Weight	% Purity	% Germination
Redtop or Oregon bentgrass *Agrostis alba* or *Agrostis oregonensis*	20	92	85
Red fescue *Festuca rubra*	70	98	90
White dutch clover *Trifolium repens*	10	98	90

Maintenance Standards

- Any seeded areas that fail to establish at least 80 percent cover (100 percent cover for areas that receive sheet or concentrated flows) shall be reseeded. If reseeding is ineffective, an alternate method, such as sodding, mulching, or nets/blankets, shall be used. If winter weather prevents adequate grass growth, this time limit may be relaxed at the discretion of the local authority when sensitive areas would otherwise be protected.

- After adequate cover is achieved, any areas that experience erosion shall be reseeded and protected by mulch. If the erosion problem is drainage related, the problem shall be fixed and the eroded area reseeded and protected by mulch.
- Seeded areas shall be supplied with adequate moisture, but not watered to the extent that it causes runoff.

BMP C140: Dust Control

Purpose

Dust control prevents wind transport of dust from disturbed soil surfaces onto roadways, drainage ways, and surface waters.

Conditions of Use

- In areas (including roadways) subject to surface and air movement of dust where on-site and off-site impacts to roadways, drainage ways, or surface waters are likely.

Design and Installation Specifications

- Vegetate or mulch areas that will not receive vehicle traffic. In areas where planting, mulching, or paving is impractical, apply gravel or landscaping rock.
- Limit dust generation by clearing only those areas where immediate activity will take place, leaving the remaining area(s) in the original condition, if stable. Maintain the original ground cover as long as practical.
- Construct natural or artificial windbreaks or windscreens. These may be designed as enclosures for small dust sources.
- Sprinkle the site with water until surface is wet. Repeat as needed. To prevent carryout of mud onto street, refer to Stabilized Construction Entrance (BMP C105).
- Irrigation water can be used for dust control. Irrigation systems should be installed as a first step on sites where dust control is a concern.
- Spray exposed soil areas with a dust palliative, following the manufacturer's instructions and cautions regarding handling and application. Used oil is prohibited from use as a dust suppressant. Local governments may approve other dust palliatives such as calcium chloride or PAM.
- PAM (BMP C126) added to water at a rate of 0.5 lbs. per 1,000 gallons of water per acre and applied from a water truck is more effective than water alone. This is due to the increased infiltration of water into the soil and reduced evaporation. In addition, small soil particles are bonded together and are not as easily transported by wind. Adding PAM may actually reduce the quantity of water needed for dust control, especially in eastern Washington. Since the wholesale cost of PAM is about $ 4.00 per pound, this is an extremely cost-effective dust control method.

Techniques that can be used for unpaved roads and lots include:

- Lower speed limits. High vehicle speed increases the amount of dust stirred up from unpaved roads and lots.
- Upgrade the road surface strength by improving particle size, shape, and mineral types that make up the surface and base materials.

- Add surface gravel to reduce the source of dust emission. Limit the amount of fine particles (those smaller than .075 mm) to 10 to 20 percent.
- Use geotextile fabrics to increase the strength of new roads or roads undergoing reconstruction.
- Encourage the use of alternate, paved routes, if available.
- Restrict use by tracked vehicles and heavy trucks to prevent damage to road surface and base.
- Apply chemical dust suppressants using the admix method, blending the product with the top few inches of surface material. Suppressants may also be applied as surface treatments.
- Pave unpaved permanent roads and other trafficked areas.
- Use vacuum street sweepers.
- Remove mud and other dirt promptly so it does not dry and then turn into dust.
- Limit dust-causing work on windy days.
- Contact your local Air Pollution Control Authority for guidance and training on other dust control measures. Compliance with the local Air Pollution Control Authority constitutes compliance with this BMP.

Maintenance Standards Respray area as necessary to keep dust to a minimum.

BMP C201: Grass-Lined Channels

Purpose

To provide a channel with a vegetative lining for conveyance of runoff. See Figure 4.7 for typical grass-lined channels.

Conditions of Use

This practice applies to construction sites where concentrated runoff needs to be contained to prevent erosion or flooding.

- When a vegetative lining can provide sufficient stability for the channel cross section and at lower velocities of water (normally dependent on grade). This means that the channel slopes are generally less than 5 percent and space is available for a relatively large cross section.
- Typical uses include roadside ditches, channels at property boundaries, outlets for diversions, and other channels and drainage ditches in low areas.
- Channels that will be vegetated should be installed before major earthwork and hydroseeded with a bonded fiber matrix (BFM). The vegetation should be well established (i.e., 75 percent cover) before water is allowed to flow in the ditch. With channels that will have high flows, erosion control blankets should be installed over the hydroseed. If vegetation cannot be established from seed before water is allowed in the ditch, sod should be installed in the bottom of the ditch in lieu of hydromulch and blankets.

Design and Installation Specifications

Locate the channel where it can conform to the topography and other features such as roads.

- Locate them to use natural drainage systems to the greatest extent possible.
- Avoid sharp changes in alignment or bends and changes in grade.
- Do not reshape the landscape to fit the drainage channel.
- The maximum design velocity shall be based on soil conditions, type of vegetation, and method of revegetation, but at no times shall velocity exceed 5 feet/second. The channel shall not be overtopped by the peak runoff from a 10-year, 24-hour storm, assuming a Type 1A rainfall distribution." Alternatively, use 1.6 times the 10-year, 1-hour flow indicated by an approved continuous runoff model to determine a flow rate which the channel must contain.
- Where the grass-lined channel will also function as a permanent stormwater conveyance facility, consultant the drainage conveyance requirements of the local government with jurisdiction.
- An **established** grass or vegetated lining is required before the channel can be used to convey stormwater, unless stabilized with nets or blankets.

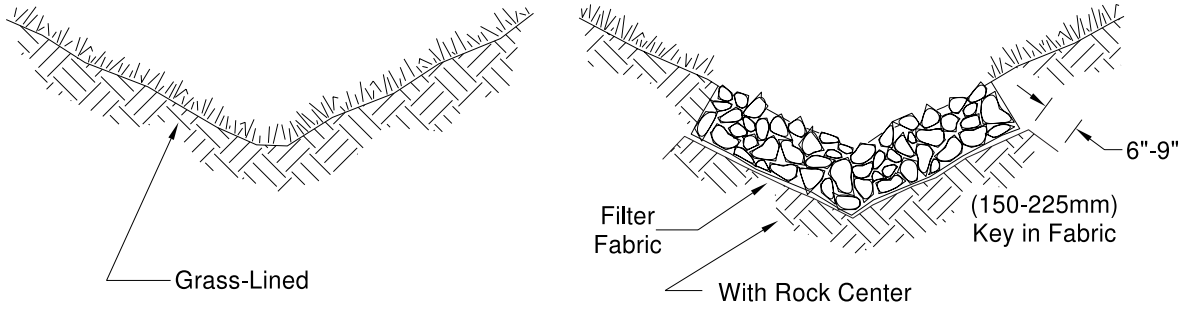
- If design velocity of a channel to be vegetated by seeding exceeds 2 ft/sec, a temporary channel liner is required. Geotextile or special mulch protection such as fiberglass roving or straw and netting provide stability until the vegetation is fully established. See Figure 4.9.
- Check dams shall be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4 percent. The area beneath the check dams shall be seeded and mulched immediately after dam removal.
- If vegetation is established by sodding, the permissible velocity for established vegetation may be used and no temporary liner is needed.
- Do not subject grass-lined channel to sedimentation from disturbed areas. Use sediment-trapping BMPs upstream of the channel.
- **V-shaped grass channels** generally apply where the quantity of water is small, such as in short reaches along roadsides. The V-shaped cross section is least desirable because it is difficult to stabilize the bottom where velocities may be high.
- **Trapezoidal grass channels** are used where runoff volumes are large and slope is low so that velocities are nonerosive to vegetated linings. (Note: it is difficult to construct small parabolic shaped channels.)
- Subsurface drainage, or riprap channel bottoms, may be necessary on sites that are subject to prolonged wet conditions due to long duration flows or a high water table.
- Provide outlet protection at culvert ends and at channel intersections.
- Grass channels, at a minimum, should carry peak runoff for temporary construction drainage facilities from the 10-year, 24-hour storm without eroding. Where flood hazard exists, increase the capacity according to the potential damage.
- Grassed channel side slopes generally are constructed 3:1 or flatter to aid in the establishment of vegetation and for maintenance.
- Construct channels a minimum of 0.2 foot larger around the periphery to allow for soil bulking during seedbed preparations and sod buildup.

Maintenance Standards

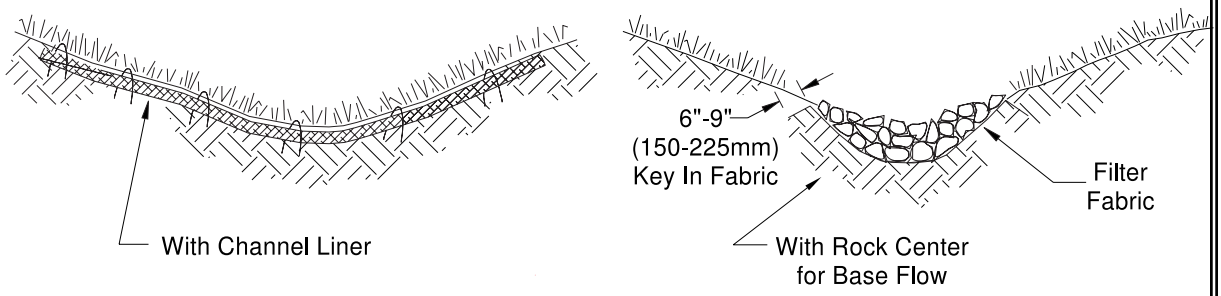
During the establishment period, check grass-lined channels after every rainfall.

- After grass is established, periodically check the channel; check it after every heavy rainfall event. Immediately make repairs.
- It is particularly important to check the channel outlet and all road crossings for bank stability and evidence of piping or scour holes.
- Remove all significant sediment accumulations to maintain the designed carrying capacity. Keep the grass in a healthy, vigorous condition at all times, since it is the primary erosion protection for the channel.

Typical V-Shaped Channel Cross-section



Typical Parabolic Channel Cross-Section



Typical Trapezoidal Channel Cross-Section

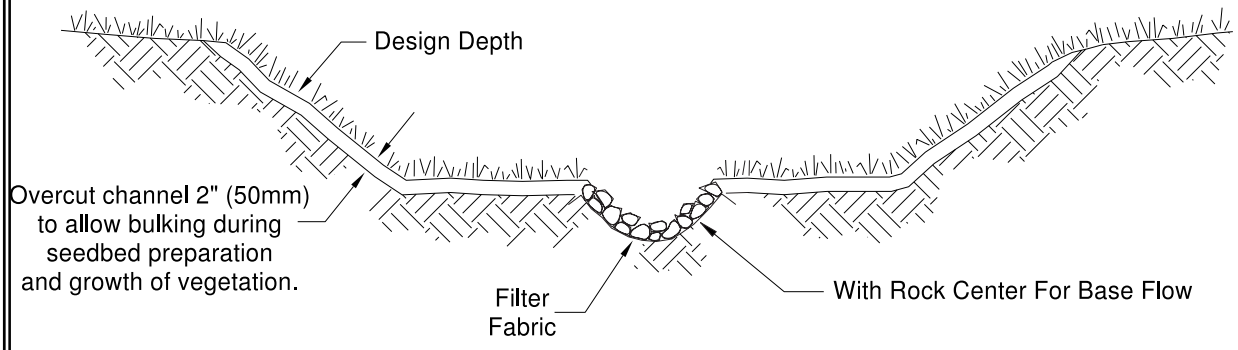
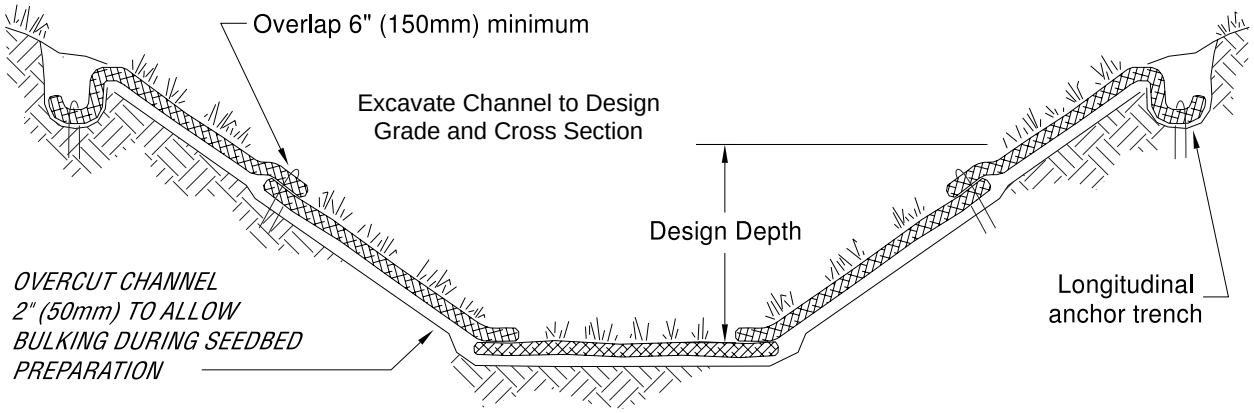
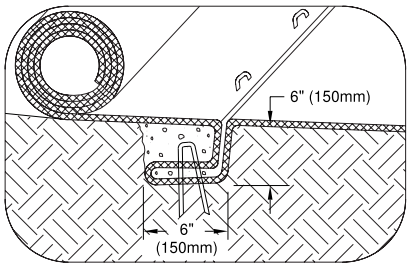


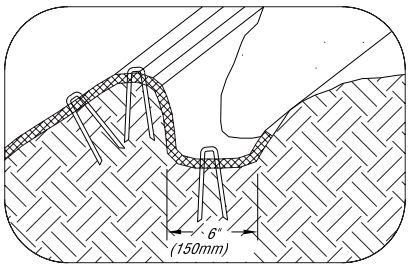
Figure 4.8 – Typical Grass-Lined Channels



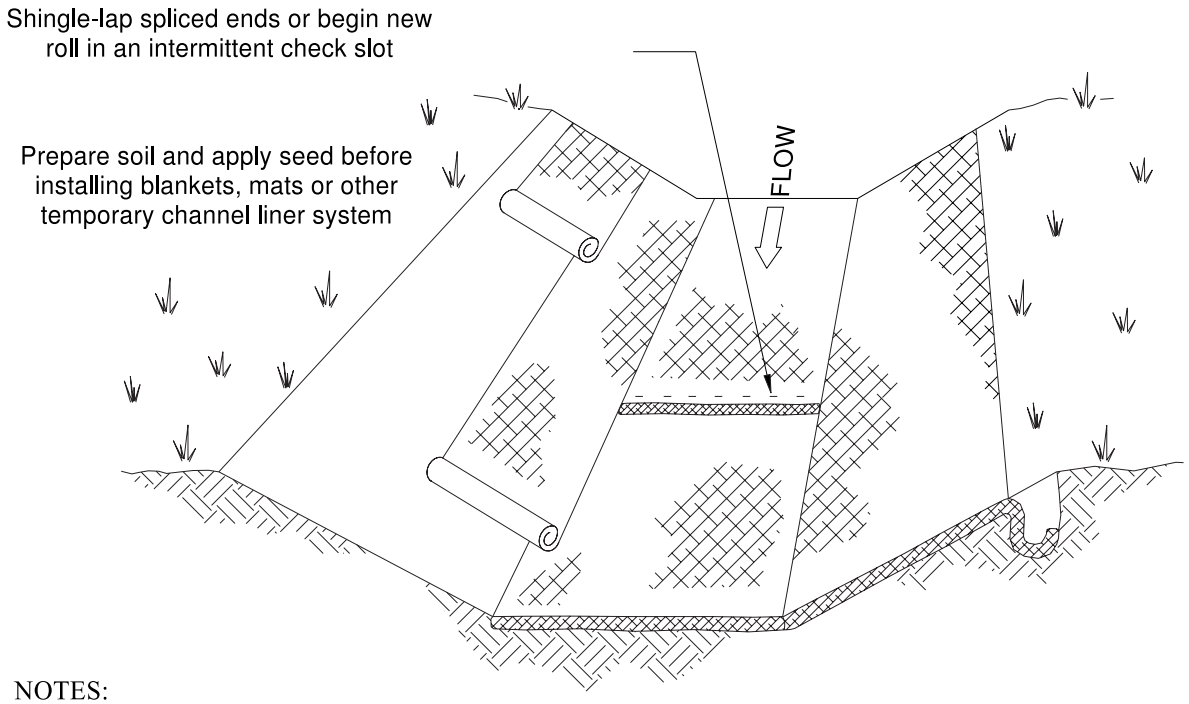


Intermittent Check Slot

TYPICAL INSTALLATION WITH EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS



Longitudinal Anchor Trench



NOTES:
1. Design velocities exceeding 2 ft/sec (0.5m/sec) require temporary blankets, mats or similar liners to protect seed and soil until vegetation becomes established.
2. Grass-lined channels with design velocities exceeding 6 ft/sec (2m/sec) should include turf reinforcement mats.

Figure 4.9 – Temporary Channel Liners

BMP C207: Check Dams

Purpose

Construction of small dams across a swale or ditch reduces the velocity of concentrated flow and dissipates energy at the check dam.

Conditions of Use

Where temporary channels or permanent channels are not yet vegetated, channel lining is infeasible, and velocity checks are required.

- Check dams may not be placed in streams unless approved by the State Department of Fish and Wildlife. Check dams may not be placed in wetlands without approval from a permitting agency.
- Check dams shall not be placed below the expected backwater from any salmonid bearing water between October 1 and May 31 to ensure that there is no loss of high flow refuge habitat for overwintering juvenile salmonids and emergent salmonid fry.

Design and Installation Specifications

Whatever material is used, the dam should form a triangle when viewed from the side. This prevents undercutting as water flows over the face of the dam rather than falling directly onto the ditch bottom.

Check dams in association with sumps work more effectively at slowing flow and retaining sediment than just a check dam alone. A deep sump should be provided immediately upstream of the check dam.

- In some cases, if carefully located and designed, check dams can remain as permanent installations with very minor regrading. They may be left as either spillways, in which case accumulated sediment would be graded and seeded, or as check dams to prevent further sediment from leaving the site.
- Check dams can be constructed of either rock or pea-gravel filled bags. Numerous new products are also available for this purpose. They tend to be re-usable, quick and easy to install, effective, and cost efficient.
- Check dams should be placed perpendicular to the flow of water.
- The maximum spacing between the dams shall be such that the toe of the upstream dam is at the same elevation as the top of the downstream dam.
- Keep the maximum height at 2 feet at the center of the dam.
- Keep the center of the check dam at least 12 inches lower than the outer edges at natural ground elevation.
- Keep the side slopes of the check dam at 2:1 or flatter.
- Key the stone into the ditch banks and extend it beyond the abutments a minimum of 18 inches to avoid washouts from overflow around the dam.

- Use filter fabric foundation under a rock or sand bag check dam. If a blanket ditch liner is used, this is not necessary. A piece of organic or synthetic blanket cut to fit will also work for this purpose.
- Rock check dams shall be constructed of appropriately sized rock. The rock must be placed by hand or by mechanical means (no dumping of rock to form dam) to achieve complete coverage of the ditch or swale and to ensure that the center of the dam is lower than the edges. The rock used must be large enough to stay in place given the expected design flow through the channel.
- In the case of grass-lined ditches and swales, all check dams and accumulated sediment shall be removed when the grass has matured sufficiently to protect the ditch or swale - unless the slope of the swale is greater than 4 percent. The area beneath the check dams shall be seeded and mulched immediately after dam removal.
- Ensure that channel appurtenances, such as culvert entrances below check dams, are not subject to damage or blockage from displaced stones. Figure 4.13 depicts a typical rock check dam.

Maintenance Standards

Check dams shall be monitored for performance and sediment accumulation during and after each runoff producing rainfall. Sediment shall be removed when it reaches one half the sump depth.

- Anticipate submergence and deposition above the check dam and erosion from high flows around the edges of the dam.
- If significant erosion occurs between dams, install a protective riprap liner in that portion of the channel.

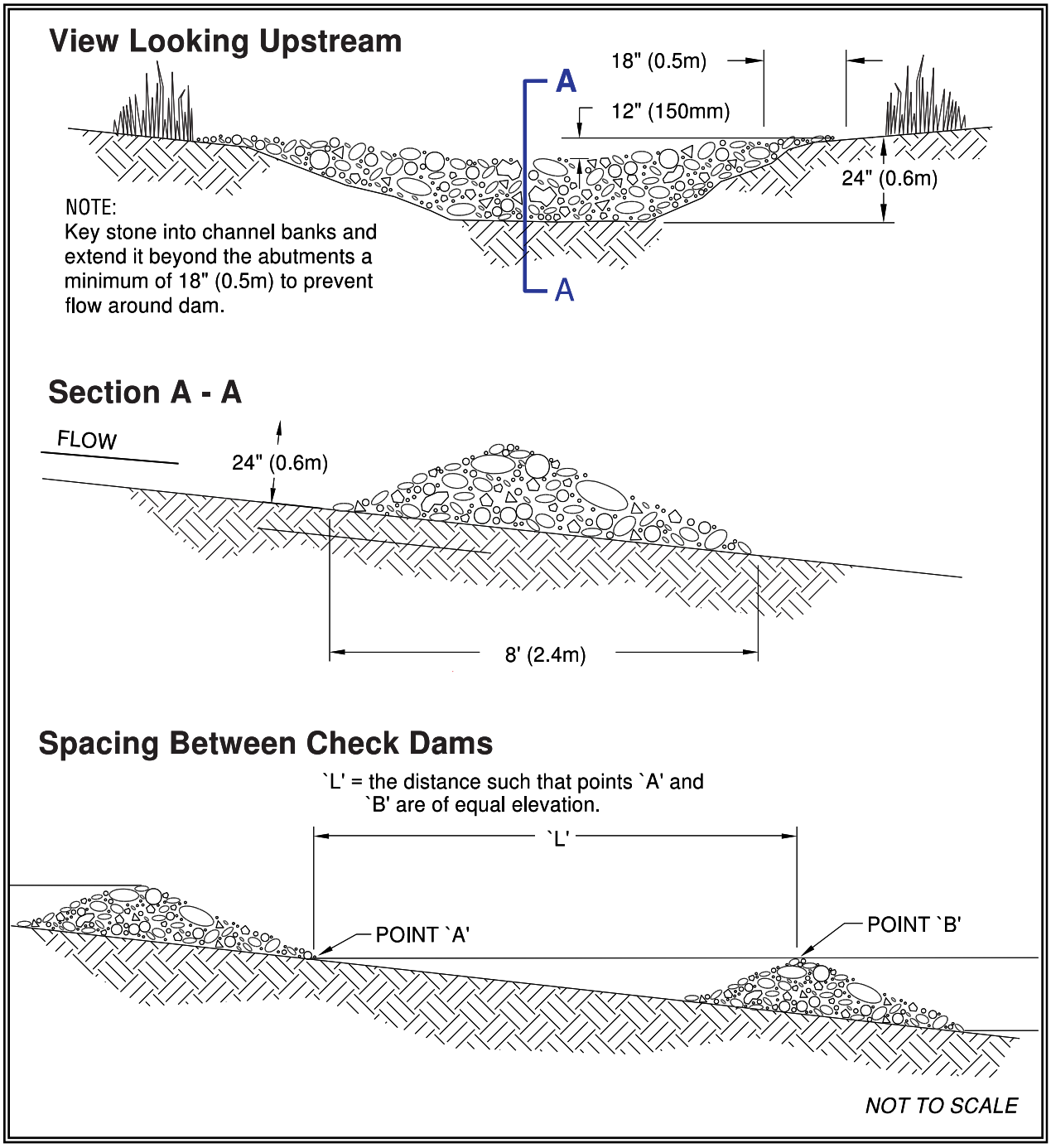


Figure 4.13 – Check Dams

BMP C220: Storm Drain Inlet Protection

Purpose To prevent coarse sediment from entering drainage systems prior to permanent stabilization of the disturbed area.

Conditions of Use Where storm drain inlets are to be made operational before permanent stabilization of the disturbed drainage area. Protection should be provided for all storm drain inlets downslope and within 500 feet of a disturbed or construction area, unless the runoff that enters the catch basin will be conveyed to a sediment pond or trap. Inlet protection may be used anywhere to protect the drainage system. It is likely that the drainage system will still require cleaning.

Table 4.9 lists several options for inlet protection. All of the methods for storm drain inlet protection are prone to plugging and require a high frequency of maintenance. Drainage areas should be limited to 1 acre or less. Emergency overflows may be required where stormwater ponding would cause a hazard. If an emergency overflow is provided, additional end-of-pipe treatment may be required.

Table 4.9
Storm Drain Inlet Protetion

Type of Inlet Protection	Emergency Overflow	Applicable for Paved/ Earthen Surfaces	Conditions of Use
Drop Inlet Protection			
Excavated drop inlet protection	Yes, temporary flooding will occur	Earthen	Applicable for heavy flows. Easy to maintain. Large area Requirement: 30' X 30'/acre
Block and gravel drop inlet protection	Yes	Paved or Earthen	Applicable for heavy concentrated flows. Will not pond.
Gravel and wire drop inlet protection	No		Applicable for heavy concentrated flows. Will pond. Can withstand traffic.
Catch basin filters	Yes	Paved or Earthen	Frequent maintenance required.
Curb Inlet Protection			
Curb inlet protection with a wooden weir	Small capacity overflow	Paved	Used for sturdy, more compact installation.
Block and gravel curb inlet protection	Yes	Paved	Sturdy, but limited filtration.
Culvert Inlet Protection			
Culvert inlet sediment trap			18 month expected life.

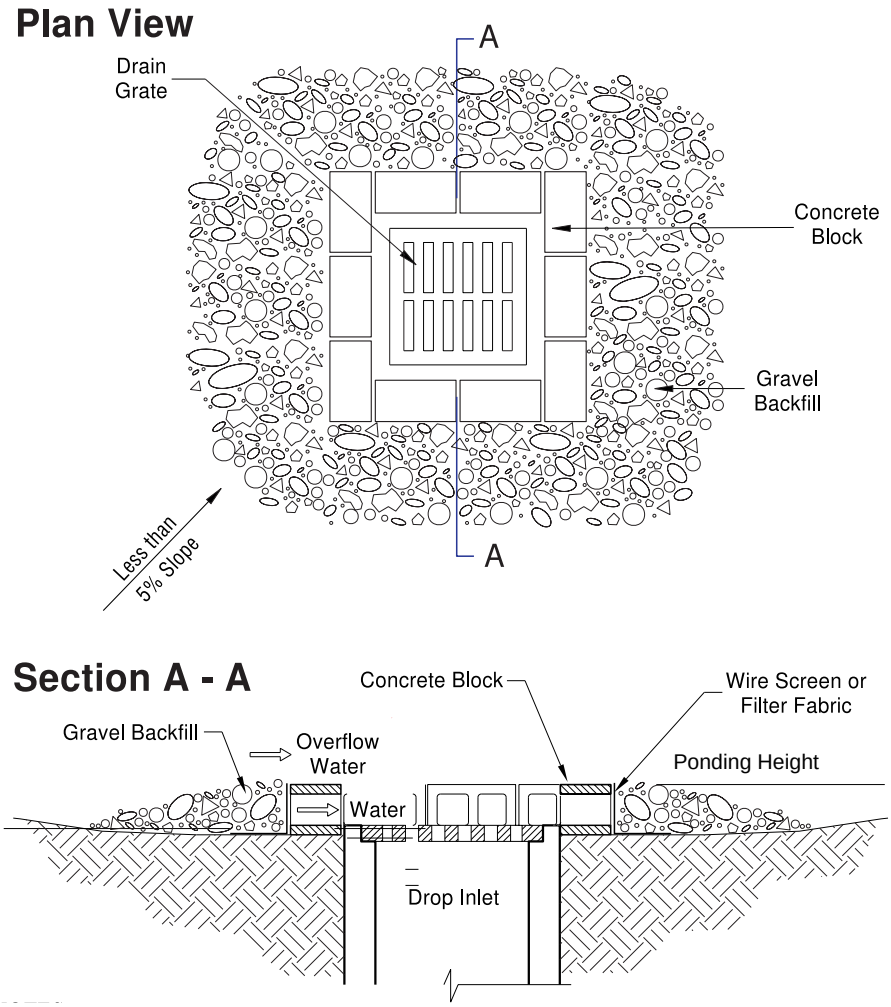
Design and Installation Specifications

Excavated Drop Inlet Protection - An excavated impoundment around the storm drain. Sediment settles out of the stormwater prior to entering the storm drain.

- Depth 1-2 ft as measured from the crest of the inlet structure.
- Side Slopes of excavation no steeper than 2:1.
- Minimum volume of excavation 35 cubic yards.
- Shape basin to fit site with longest dimension oriented toward the longest inflow area.
- Install provisions for draining to prevent standing water problems.
- Clear the area of all debris.
- Grade the approach to the inlet uniformly.
- Drill weep holes into the side of the inlet.
- Protect weep holes with screen wire and washed aggregate.
- Seal weep holes when removing structure and stabilizing area.
- It may be necessary to build a temporary dike to the down slope side of the structure to prevent bypass flow.

Block and Gravel Filter - A barrier formed around the storm drain inlet with standard concrete blocks and gravel. See Figure 4.14.

- Height 1 to 2 feet above inlet.
- Recess the first row 2 inches into the ground for stability.
- Support subsequent courses by placing a 2x4 through the block opening.
- Do not use mortar.
- Lay some blocks in the bottom row on their side for dewatering the pool.
- Place hardware cloth or comparable wire mesh with ½-inch openings over all block openings.
- Place gravel just below the top of blocks on slopes of 2:1 or flatter.
- An alternative design is a gravel donut.
- Inlet slope of 3:1.
- Outlet slope of 2:1.
- 1-foot wide level stone area between the structure and the inlet.
- Inlet slope stones 3 inches in diameter or larger.
- Outlet slope use gravel ½- to ¾-inch at a minimum thickness of 1-foot.



Notes:
1. Drop inlet sediment barriers are to be used for small, nearly level drainage areas. (less than 5%)
2. Excavate a basin of sufficient size adjacent to the drop inlet.
3. The top of the structure (ponding height) must be well below the ground elevation downslope to prevent runoff from bypassing the inlet. A temporary dike may be necessary on the dowslope side of the structure.

Figure 4.14 – Block and Gravel Filter

Gravel and Wire Mesh Filter - A gravel barrier placed over the top of the inlet. This structure does not provide an overflow.

- Hardware cloth or comparable wire mesh with ½-inch openings.
- Coarse aggregate.
- Height 1-foot or more, 18 inches wider than inlet on all sides.
- Place wire mesh over the drop inlet so that the wire extends a minimum of 1-foot beyond each side of the inlet structure.
- If more than one strip of mesh is necessary, overlap the strips.
- Place coarse aggregate over the wire mesh.
- The depth of the gravel should be at least 12 inches over the entire inlet opening and extend at least 18 inches on all sides.

Catchbasin Filters - Inserts should be designed by the manufacturer for use at construction sites. The limited sediment storage capacity increases the amount of inspection and maintenance required, which may be daily for heavy sediment loads. The maintenance requirements can be reduced by combining a catchbasin filter with another type of inlet protection. This type of inlet protection provides flow bypass without overflow and therefore may be a better method for inlets located along active rights-of-way.

- 5 cubic feet of storage.
- Dewatering provisions.
- High-flow bypass that will not clog under normal use at a construction site.
- The catchbasin filter is inserted in the catchbasin just below the grating.

Curb Inlet Protection with Wooden Weir – Barrier formed around a curb inlet with a wooden frame and gravel.

- Wire mesh with ½-inch openings.
- Extra strength filter cloth.
- Construct a frame.
- Attach the wire and filter fabric to the frame.
- Pile coarse washed aggregate against wire/fabric.
- Place weight on frame anchors.

Block and Gravel Curb Inlet Protection – Barrier formed around an inlet with concrete blocks and gravel. See Figure 4.14.

- Wire mesh with ½-inch openings.
- Place two concrete blocks on their sides abutting the curb at either side of the inlet opening. These are spacer blocks.
- Place a 2x4 stud through the outer holes of each spacer block to align the front blocks.
- Place blocks on their sides across the front of the inlet and abutting the spacer blocks.
- Place wire mesh over the outside vertical face.
- Pile coarse aggregate against the wire to the top of the barrier.

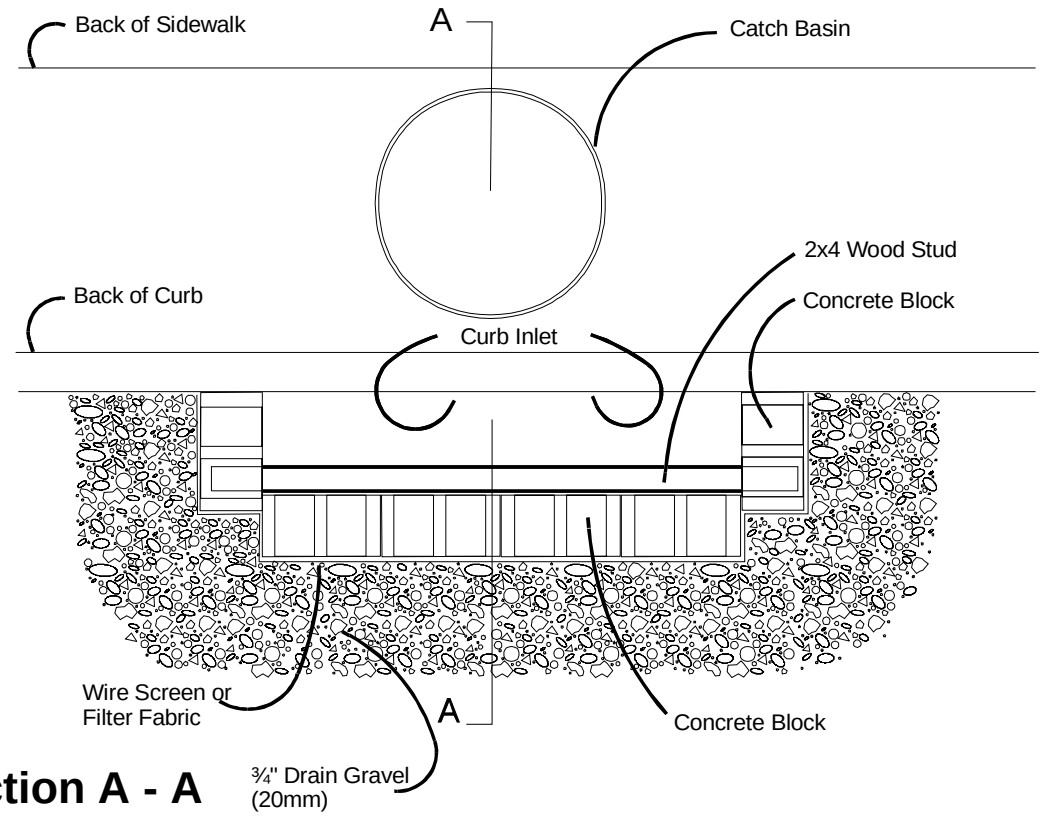
Curb and Gutter Sediment Barrier – Sandbag or rock berm (riprap and aggregate) 3 feet high and 3 feet wide in a horseshoe shape. See Figure 4.16.

- Construct a horseshoe shaped berm, faced with coarse aggregate if using riprap, 3 feet high and 3 feet wide, at least 2 feet from the inlet.
- Construct a horseshoe shaped sedimentation trap on the outside of the berm sized to sediment trap standards for protecting a culvert inlet.

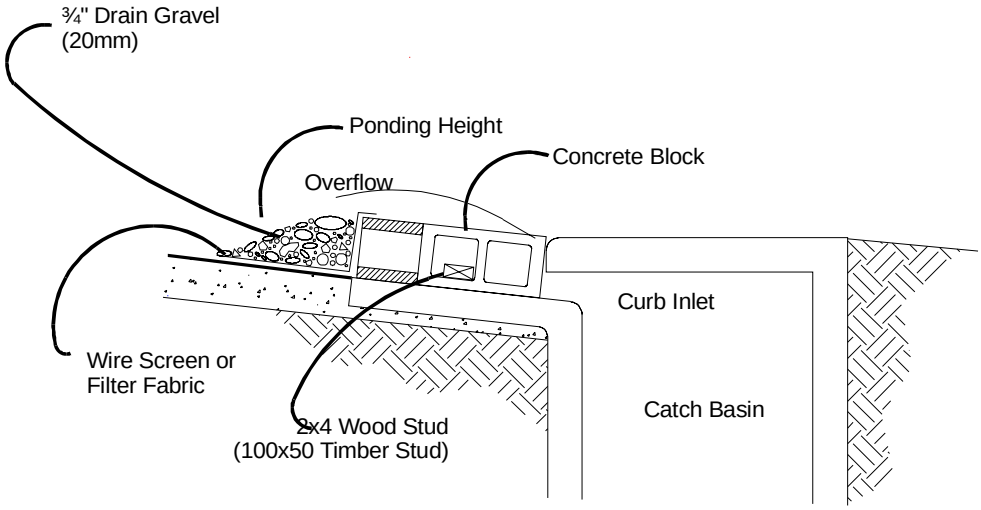
Maintenance Standards

- Catch basin filters should be inspected frequently, especially after storm events. If the insert becomes clogged, it should be cleaned or replaced.
- For systems using stone filters: If the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill and put fresh stone around the inlet.
- Do not wash sediment into storm drains while cleaning. Spread all excavated material evenly over the surrounding land area or stockpile and stabilize as appropriate.

Plan View



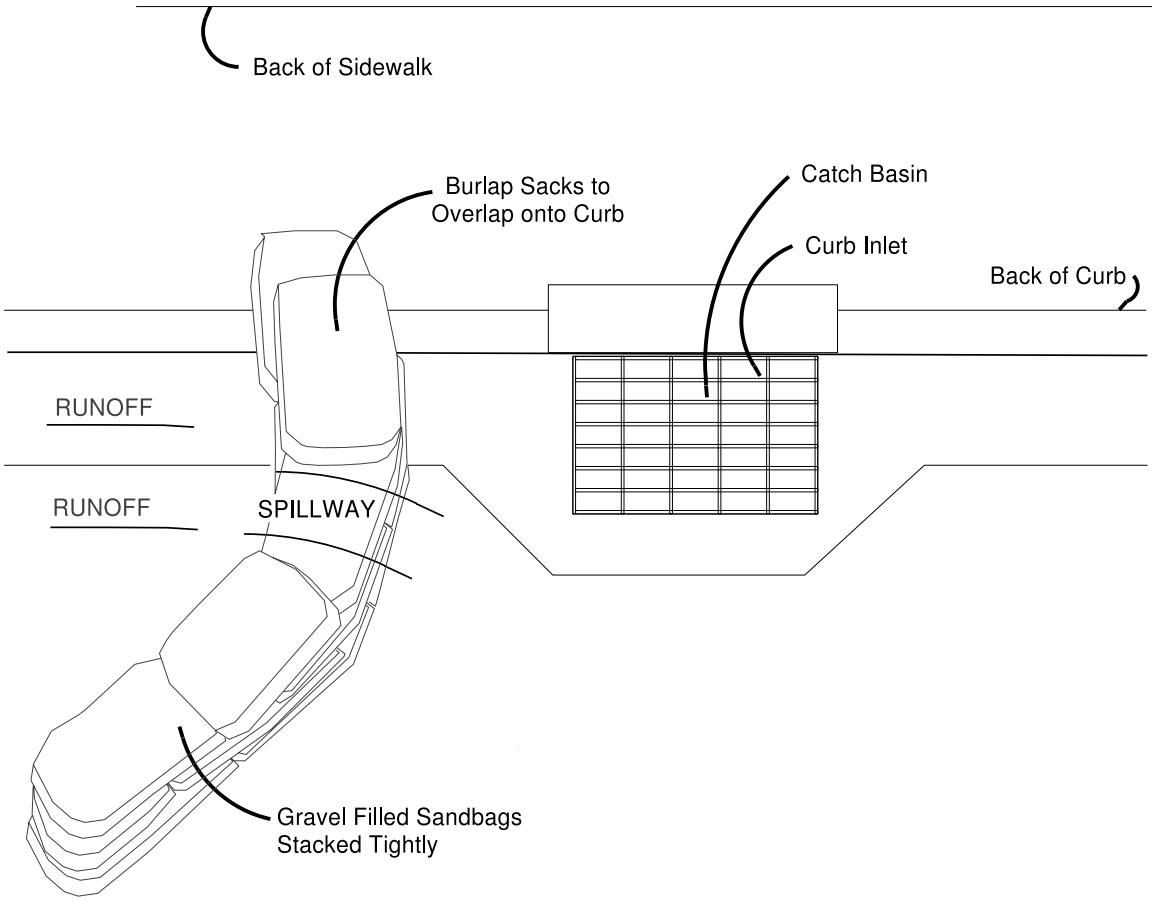
Section A - A



NOTES:
1. Use block and gravel type sediment barrier when curb inlet is located in gently sloping street segment, where water can pond and allow sediment to separate from runoff.
2. Barrier shall allow for overflow from severe storm event.
3. Inspect barriers and remove sediment after each storm event. Sediment and gravel must be removed from the traveled way immediately.

Figure 4.15 – Block and Gravel Curb Inlet Protection

Plan View



NOTES:
1. Place curb type sediment barriers on gently sloping street segments, where water can pond and allow sediment to separate from runoff.
2. Sandbags of either burlap or woven `geotextile' fabric, are filled with gravel, layered and packed tightly.
3. Leave a one sandbag gap in the top row to provide a spillway for overflow.
4. Inspect barriers and remove sediment after each storm event. Sediment and gravel must be removed from the traveled way immediately.

Figure 4.16 – Curb and Gutter Barrier

BMP C233: Silt Fence

Purpose

Use of a silt fence reduces the transport of coarse sediment from a construction site by providing a temporary physical barrier to sediment and reducing the runoff velocities of overland flow. See Figure 4.19 for details on silt fence construction.

Conditions of Use

Silt fence may be used downslope of all disturbed areas.

- Silt fence is not intended to treat concentrated flows, nor is it intended to treat substantial amounts of overland flow. Any concentrated flows must be conveyed through the drainage system to a sediment pond. The only circumstance in which overland flow can be treated solely by a silt fence, rather than by a sediment pond, is when the area draining to the fence is one acre or less and flow rates are less than 0.5 cfs.
- Silt fences should not be constructed in streams or used in V-shaped ditches. They are not an adequate method of silt control for anything deeper than sheet or overland flow.

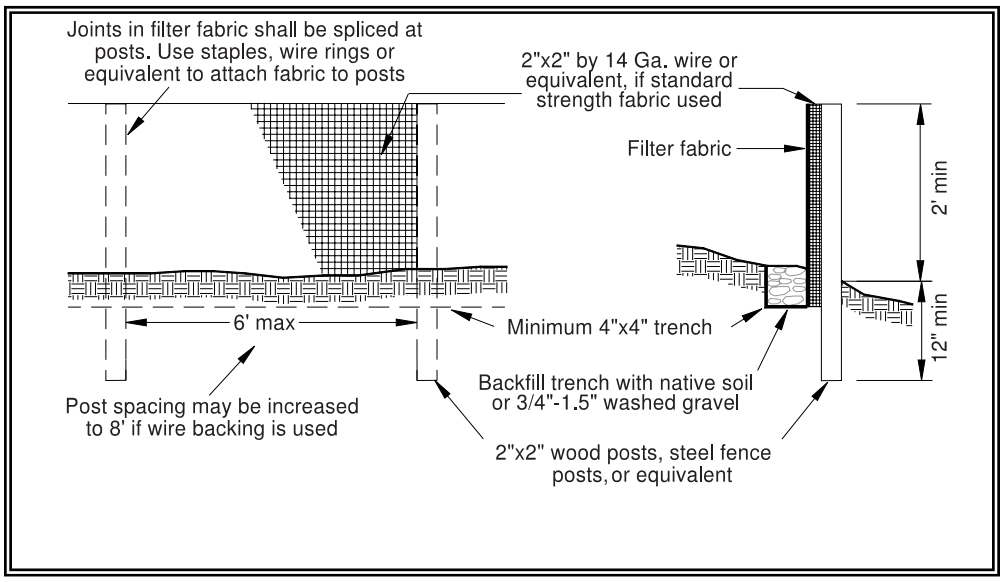


Figure 4.19 – Silt Fence

Design and Installation Specifications

- Drainage area of 1 acre or less or in combination with sediment basin in a larger site.
- Maximum slope steepness (normal (perpendicular) to fence line) 1:1.
- Maximum sheet or overland flow path length to the fence of 100 feet.
- No flows greater than 0.5 cfs.
- The geotextile used shall meet the following standards. All geotextile properties listed below are minimum average roll values (i.e., the test result for any sampled roll in a lot shall meet or exceed the values shown in Table 4.10):

Table 4.10 Geotextile Standards	
Polymeric Mesh AOS (ASTM D4751)	0.60 mm maximum for slit film wovens (#30 sieve). 0.30 mm maximum for all other geotextile types (#50 sieve). 0.15 mm minimum for all fabric types (#100 sieve).
Water Permittivity (ASTM D4491)	0.02 sec^{-1} minimum
Grab Tensile Strength (ASTM D4632)	180 lbs. Minimum for extra strength fabric. 100 lbs minimum for standard strength fabric.
Grab Tensile Strength (ASTM D4632)	30% maximum
Ultraviolet Resistance (ASTM D4355)	70% minimum

- Standard strength fabrics shall be supported with wire mesh, chicken wire, 2-inch x 2-inch wire, safety fence, or jute mesh to increase the strength of the fabric. Silt fence materials are available that have synthetic mesh backing attached.
- Filter fabric material shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life at a temperature range of 0°F. to 120°F.
- 100 percent biodegradable silt fence is available that is strong, long lasting, and can be left in place after the project is completed, if permitted by local regulations.
- Standard Notes for construction plans and specifications follow. Refer to Figure 4.19 for standard silt fence details.

  The contractor shall install and maintain temporary silt fences at the locations shown in the Plans. The silt fences shall be constructed in the areas of clearing, grading, or drainage prior to starting those activities. A silt fence shall not be considered temporary if the silt fence must function beyond the life of the contract. The silt fence shall prevent soil carried by runoff water from going beneath, through, or over the top of the silt fence, but shall allow the water to pass through the fence.

  The minimum height of the top of silt fence shall be 2 feet and the maximum height shall be 2½ feet above the original ground surface.

  The geotextile shall be sewn together at the point of manufacture, or at an approved location as determined by the Engineer, to form geotextile lengths as required. All sewn seams shall be located at a support post. Alternatively, two sections of silt fence can be overlapped, provided the Contractor can demonstrate, to the satisfaction of the Engineer, that the overlap is long enough and that the adjacent fence sections are close enough together to prevent silt laden water from escaping through the fence at the overlap.

The geotextile shall be attached on the up-slope side of the posts and support system with staples, wire, or in accordance with the manufacturer's recommendations. The geotextile shall be attached to the posts in a manner that reduces the potential for geotextile tearing at the staples, wire, or other connection device. Silt fence back-up support for the geotextile in the form of a wire or plastic mesh is dependent on the properties of the geotextile selected for use. If wire or plastic back-up mesh is used, the mesh shall be fastened securely to the up-slope of the posts with the geotextile being up-slope of the mesh back-up support.

The geotextile at the bottom of the fence shall be buried in a trench to a minimum depth of 4 inches below the ground surface. The trench shall be backfilled and the soil tamped in place over the buried portion of the geotextile, such that no flow can pass beneath the fence and scouring can not occur. When wire or polymeric back-up support mesh is used, the wire or polymeric mesh shall extend into the trench a minimum of 3 inches.

The fence posts shall be placed or driven a minimum of 18 inches. A minimum depth of 12 inches is allowed if topsoil or other soft subgrade soil is not present and a minimum depth of 18 inches cannot be reached. Fence post depths shall be increased by 6 inches if the fence is located on slopes of 3:1 or steeper and the slope is perpendicular to the fence. If required post depths cannot be obtained, the posts shall be adequately secured by bracing or guying to prevent overturning of the fence due to sediment loading.

Silt fences shall be located on contour as much as possible, except at the ends of the fence, where the fence shall be turned uphill such that the silt fence captures the runoff water and prevents water from flowing around the end of the fence.

If the fence must cross contours, with the exception of the ends of the fence, gravel check dams placed perpendicular to the back of the fence shall be used to minimize concentrated flow and erosion along the back of the fence. The gravel check dams shall be approximately 1-foot deep at the back of the fence. It shall be continued perpendicular to the fence at the same elevation until the top of the check dam intercepts the ground surface behind the fence. The gravel check dams shall consist of crushed surfacing base course, gravel backfill for walls, or shoulder ballast. The gravel check dams shall be located every 10 feet along the fence where the fence must cross contours. The slope of the fence line where contours must be crossed shall not be steeper than 3:1.

Wood, steel or equivalent posts shall be used. Wood posts shall have minimum dimensions of 2 inches by 2 inches by 3 feet minimum length, and shall be free of defects such as knots, splits, or gouges.

Steel posts shall consist of either size No. 6 rebar or larger, ASTM A 120 steel pipe with a minimum diameter of 1-inch, U, T, L, or C shape steel posts with a minimum weight of 1.35 lbs./ft. or other steel posts having equivalent strength and bending resistance to the post sizes listed. The spacing of the support posts shall be a maximum of 6 feet.

Fence back-up support, if used, shall consist of steel wire with a maximum mesh spacing of 2 inches, or a prefabricated polymeric mesh. The strength of the wire or polymeric mesh shall be equivalent to or greater than 180 lbs. grab tensile strength. The polymeric mesh must be as resistant to ultraviolet radiation as the geotextile it supports.

- Silt fence installation using the slicing method specification details follow. Refer to Figure 4.20 for slicing method details.

  The base of both end posts must be at least 2 to 4 inches above the top of the silt fence fabric on the middle posts for ditch checks to drain properly. Use a hand level or string level, if necessary, to mark base points before installation.

  Install posts 3 to 4 feet apart in critical retention areas and 6 to 7 feet apart in standard applications.

  Install posts 24 inches deep on the downstream side of the silt fence, and as close as possible to the fabric, enabling posts to support the fabric from upstream water pressure.

  Install posts with the nipples facing away from the silt fence fabric.

  Attach the fabric to each post with three ties, all spaced within the top 8 inches of the fabric. Attach each tie diagonally 45 degrees through the fabric, with each puncture at least 1 inch vertically apart. In addition, each tie should be positioned to hang on a post nipple when tightening to prevent sagging.

  Wrap approximately 6 inches of fabric around the end posts and secure with 3 ties.

  No more than 24 inches of a 36-inch fabric is allowed above ground level.

  The rope lock system must be used in all ditch check applications.

  The installation should be checked and corrected for any deviation before compaction. Use a flat-bladed shovel to tuck fabric deeper into the ground if necessary.

  Compaction is vitally important for effective results. Compact the soil immediately next to the silt fence fabric with the front wheel of the tractor, skid steer, or roller exerting at least 60 pounds per square inch. Compact the upstream side first and then each side twice for a total of four trips.

Maintenance Standards

- Any damage shall be repaired immediately.
- If concentrated flows are evident uphill of the fence, they must be intercepted and conveyed to a sediment pond.
- It is important to check the uphill side of the fence for signs of the fence clogging and acting as a barrier to flow and then causing channelization of flows parallel to the fence. If this occurs, replace the fence or remove the trapped sediment.
- Sediment deposits shall either be removed when the deposit reaches approximately one-third the height of the silt fence, or a second silt fence shall be installed.
- If the filter fabric (geotextile) has deteriorated due to ultraviolet breakdown, it shall be replaced.

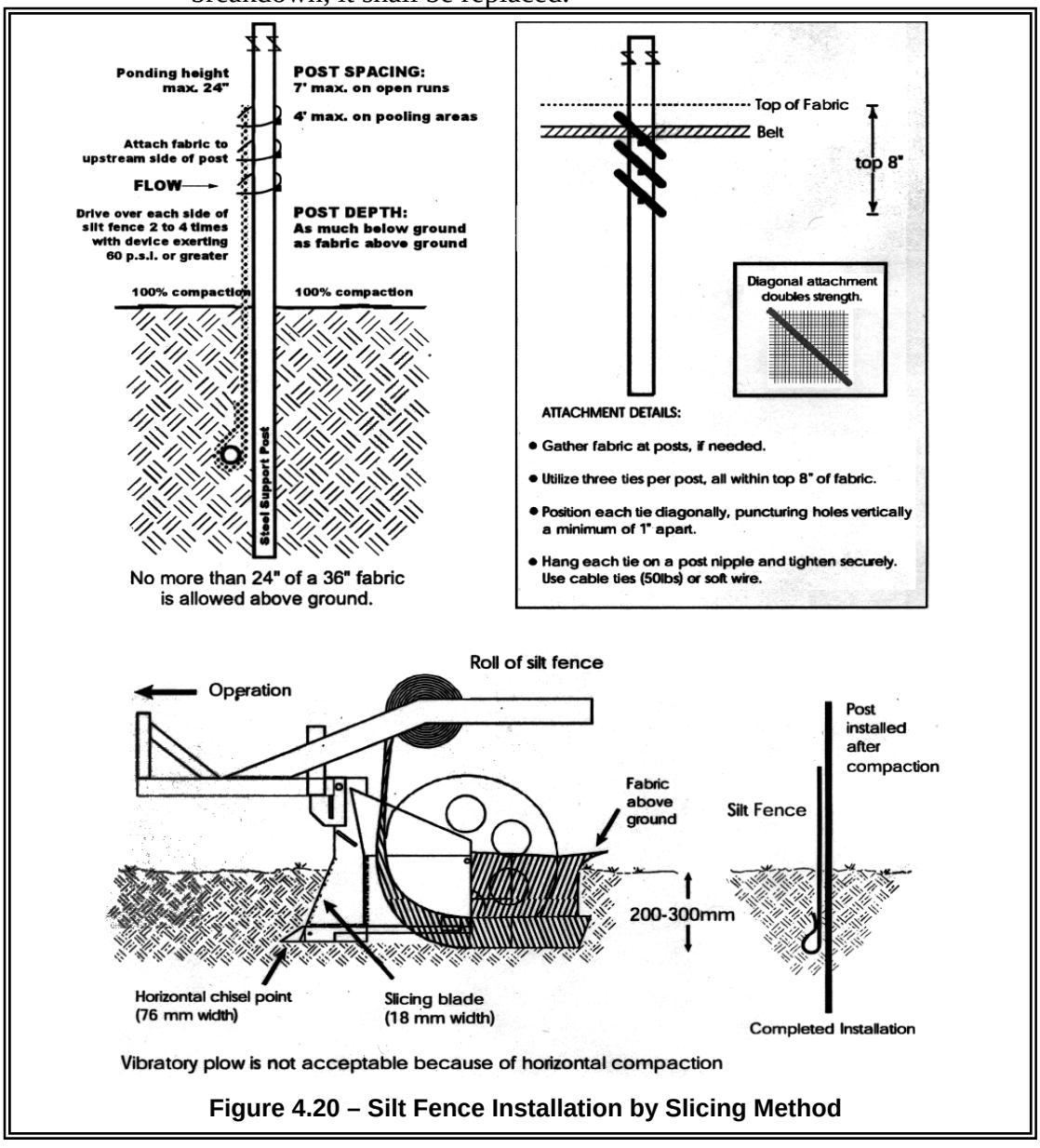


Figure 4.20 – Silt Fence Installation by Slicing Method

BMP C235: Straw Wattles

Purpose

Straw wattles are temporary erosion and sediment control barriers consisting of straw that is wrapped in biodegradable tubular plastic or similar encasing material. They reduce the velocity and can spread the flow of rill and sheet runoff, and can capture and retain sediment. Straw wattles are typically 8 to 10 inches in diameter and 25 to 30 feet in length. The wattles are placed in shallow trenches and staked along the contour of disturbed or newly constructed slopes. See Figure 4.21 for typical construction details.

Conditions of Use

- Disturbed areas that require immediate erosion protection.
- Exposed soils during the period of short construction delays, or over winter months.
- On slopes requiring stabilization until permanent vegetation can be established.
- Straw wattles are effective for one to two seasons.
- If conditions are appropriate, wattles can be staked to the ground using willow cuttings for added revegetation.
- Rilling can occur beneath wattles if not properly entrenched and water can pass between wattles if not tightly abutted together.

Design Criteria

- It is critical that wattles are installed perpendicular to the flow direction and parallel to the slope contour.
- Narrow trenches should be dug across the slope on contour to a depth of 3 to 5 inches on clay soils and soils with gradual slopes. On loose soils, steep slopes, and areas with high rainfall, the trenches should be dug to a depth of 5 to 7 inches, or 1/2 to 2/3 of the thickness of the wattle.
- Start building trenches and installing wattles from the base of the slope and work up. Excavated material should be spread evenly along the uphill slope and compacted using hand tamping or other methods.
- Construct trenches at contour intervals of 3 to 30 feet apart depending on the steepness of the slope, soil type, and rainfall. The steeper the slope the closer together the trenches.
- Install the wattles snugly into the trenches and abut tightly end to end. Do not overlap the ends.
- Install stakes at each end of the wattle, and at 4-foot centers along entire length of wattle.
- If required, install pilot holes for the stakes using a straight bar to drive holes through the wattle and into the soil.
- At a minimum, wooden stakes should be approximately 3/4 x 3/4 x 24 inches. Willow cuttings or 3/8-inch rebar can also be used for stakes.

Maintenance Standards

- Stakes should be driven through the middle of the wattle, leaving 2 to 3 inches of the stake protruding above the wattle.
- Wattles may require maintenance to ensure they are in contact with soil and thoroughly entrenched, especially after significant rainfall on steep sandy soils.
- Inspect the slope after significant storms and repair any areas where wattles are not tightly abutted or water has scoured beneath the wattles.

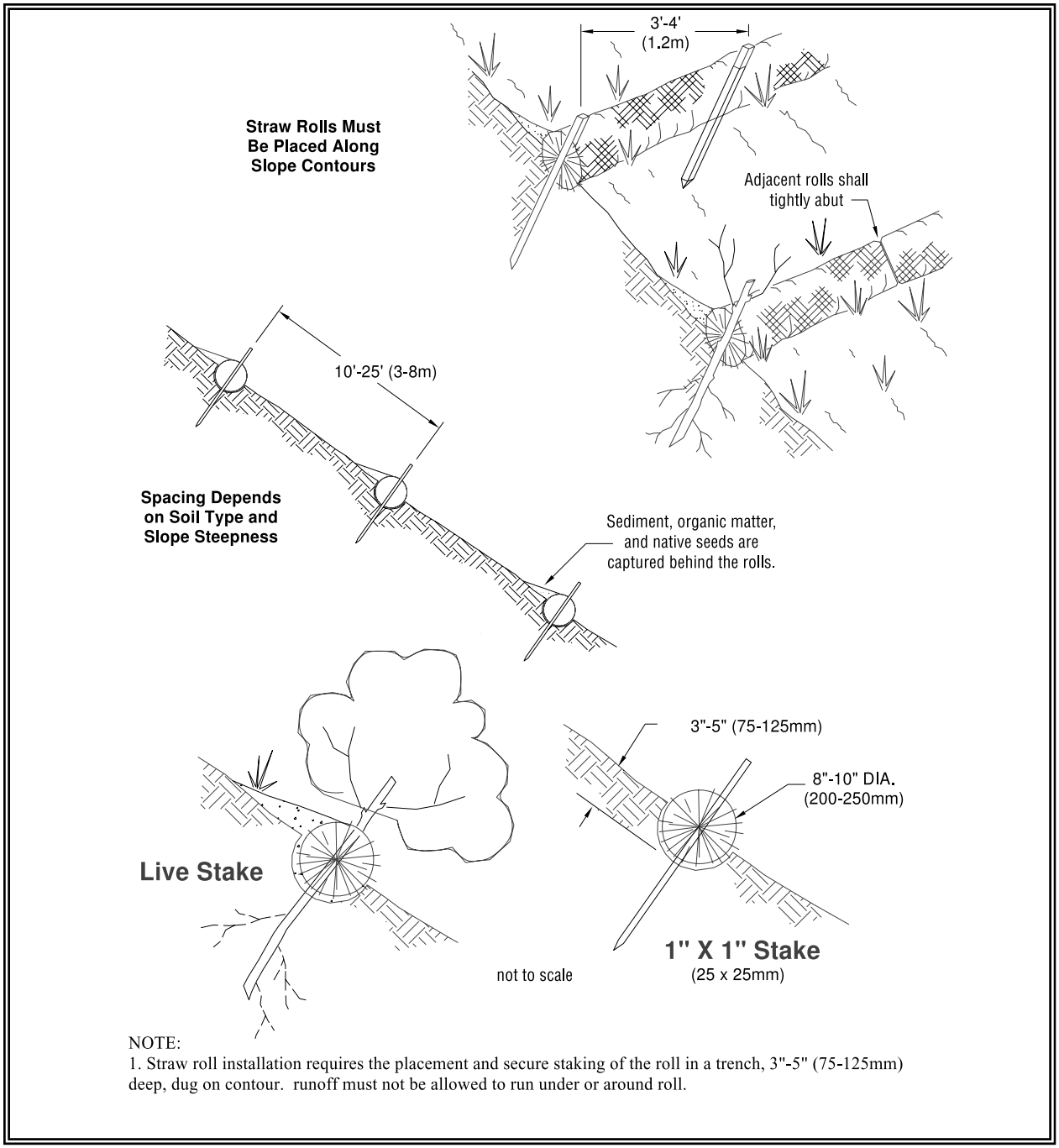


Figure 4.21 – Straw Wattles

Appendix C – Alternative BMPs

In the event that a specific BMP is not functioning as designed the CESCL of record should evaluate the site conditions and order alternative or advanced BMPs as site conditions arise to warrant their use.

The most likely element requiring alternative or advanced BMPs is **Element #10 - Control Dewatering.** However, a plan of action can be found in section 3.1.10 of this plan.

Appendix D – General Permit

The construction stormwater general permit has been cited earlier in this SWPPP and a full copy of the permit has been attached on the following pages.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

4 May 2009

Becky Darden
Port of Anacortes
P.O. Box 297
Anacortes, WA 98221

Dear Ms. Darden:

RE: Construction Stormwater General Permit
Permit Number: **WAR-011650**

Site Name: Former Scott Paper Mill Cleanup
Location: 20th St & Q Ave
Anacortes, WA Skagit Co.
Disturbed Acres: 16.0
Receiving Water: Fidalgo Bay

The Washington Department of Ecology (Ecology) has reviewed your application for coverage under the Construction Stormwater General Permit, and has decided to issue permit coverage effective 5/04/2009. **Please retain this permit coverage letter with your permit (enclosed), stormwater pollution prevention plan (SWPPP), and site log book. These form the official record of permit coverage for your site.**

This letter explains some of the requirements in the permit. Please take time to read the permit, and contact Ecology if you have any questions.

Inspections (Special Condition S4, pages 10-12 for additional information)

- A Certified Erosion and Sediment Control Lead (CESCL) must conduct weekly inspections of your site to ensure that you have installed and properly maintained the appropriate best management practices (BMPs).
- Ecology's website has a list of training classes to obtain CESCL certification on its website: http://www.ecy.wa.gov/programs/wq/stormwater/cescl.htm.
- You must keep the inspection results in your site log book and make them available for Ecology or the local jurisdiction to review. You may use the enclosed inspection report template. You must keep these results in your site log book.

Sampling and Analysis (Special Condition S4, pages 10-15 for additional information)

- Permittees must sample stormwater and non-stormwater discharges for turbidity using a turbidity meter.

- Permittees must sample all locations where stormwater or non-stormwater (dewatering, etc.) drains or discharges from the site (including any discharges into surfaces waters (wetlands, creeks, and/or ditches) located within the property.
- Permittees must sample stormwater discharges for pH if the project involves any amount of engineered soils (cement treated base, cement kiln dust, fly ash, etc.) or more than 1,000 cubic yards of poured and/or recycled concrete.
- The permit sets benchmark (target) levels for turbidity, transparency, and pH. When discharge samples exceed a benchmark, you must follow additional permit requirements.
- Submit all sampling data to Ecology each month on the enclosed discharge monitoring report (DMR). The DMR includes instructions on how to perform sampling and reporting. You must submit a DMR to Ecology even if you do not collect any samples.

High Turbidity Phone Reporting (Special Condition S5.A, page 15 for more information)

- If your site discharges stormwater with a turbidity result greater than or equal to 250 NTUs, you must notify Ecology by phone within 24 hours. Call the Ecology regional office and state, "I'm reporting a high turbidity construction stormwater discharge of (your sample result) NTUs." Include all of the following information in your phone message:

1. Your Name / Phone Number
2. Permit Number
3. City / County of Project
4. Date / Time of Call
5. Date / Time of Sample
6. Project Name

Ecology Regional Office & Phone Number
Northwest Region (Kitsap, Snohomish, Island, King, San Juan, Skagit, Whatcom): (425) 649-7000

Discharge Monitoring Reports (Special Condition S5.B, page for additional information)

- Permittees must submit DMRs to Ecology each month, even if there is no discharge to report.
- You must ensure that the DMRs arrive at Ecology by the 15th of each month. Please plan accordingly to meet this requirement.

Discharges to Impaired Waterbodies (Special Condition S8, pages 18-21 for more information)

- If your site discharges to a water body that is on the impaired waterbodies list (i.e., 303(d) list) for turbidity, fine sediment, high pH, or phosphorus, you must sample for more parameters. Ecology will notify you if any additional sampling requirements apply.

Stormwater Pollution Prevention Plan (Special Condition S9, pages 21-29 for more information)

- Your site must have a complete Stormwater Pollution Prevention Plan (SWPPP). You must keep it on site (or within reasonable access to the site) prior to the start of construction to protect water quality. The SWPPP describes the erosion and sediment control measures you will use based on the site conditions.
- Remember to keep your SWPPP updated. The permit contains specific timelines for SWPPP updates based on inspection results by the CECSL or an Ecology inspector.

Permit Transfer

- When you sell or transfer operational control of all or a portion of your site to one or more new operator(s), you must also transfer permit coverage.
- To transfer permit coverage, submit a Transfer of Coverage form to Ecology. You can download the form from our website listed at the end of this letter.

Notice of Termination (Special Condition S10, page 29 for additional information)

- You may terminate (cancel) permit coverage when your site is stabilized with permanent vegetation or equivalent measures that prevent erosion. You may also terminate coverage if all unstabilized areas have been sold or transferred.
- To request termination of permit coverage, submit a Notice of Termination (NOT) to Ecology. If you do not submit an NOT, you will remain responsible for permit compliance and permit fees. You can download the form from our website listed at the end of this letter.

Appeal of Permit Coverage

You may appeal the terms and conditions of a general permit, as they apply to an individual discharger, within 30 days of the effective date of coverage of that discharger (see Chapter 43.21B RCW). This appeal is limited to the general permit's applicability or non-applicability to a specific discharger.

The Revised Code of Washington (RCW) 43.21.B310, contains procedures and requirements for the appeal process. Appeals should be directed to:

Pollution Control Hearings Board
PO Box 40903
Olympia, Washington 98504-0903

Department of Ecology
Appeals Coordinator
P.O. Box 47608
Olympia, Washington 98504-7608

Additional Information

Ecology is committed to providing assistance to you. Please review our web page at http://www.ecy.wa.gov/programs/wq/stormwater/construction/. Now available — a stormwater sampling video that demonstrates appropriate sampling methods!

Questions
For questions about transfers, terminations, and other administrative issues, please contact Charles Gilman at 360-407-6437 or chgi461@ecy.wa.gov.

Ecology Regional Assistance
If you have questions regarding stormwater management issues at your construction site, please contact Mak Kaufman (360-715-5221) of Ecology's Bellingham Field Office.

If you have questions regarding this letter, please call Charles Gilman at 360-407-6437

Sincerely,

Bill Moore, P.E., Manager
Program Development Services Section
Water Quality Program

Enclosure: Construction Stormwater General Permit
Inspection Report Template

cc: Ecology Permit Fee Unit, HQ
Stormwater File, HQ

Construction Stormwater
SITE INSPECTION CHECKLIST

Project_____ Permit No._____ Inspector_____ Date_____ Time_____

Will existing BMPs need to be modified or removed, or other BMPs installed? YES NO
IF YES, list the action items to be completed on the following table:

Actions to be Completed	Date Completed/ Initials
1.	
2.	
3.	
4.	
5.	
6.	

Describe current weather conditions

Approximate amount of precipitation since last inspection: _____ inches
and precipitation in the past 24 hours*: _____inches
**based on an on-site rain gauge or local weather data.*

Describe discharging stormwater, if present. Note the presence of suspended sediment, "cloudiness", discoloration, or oil sheen.

Was water quality sampling part of this inspection? YES NO
If yes, record results below (attach separate sheet, if necessary):

Parameter:	Method (circle one)	Result	Units
Turbidity	tube, meter, laboratory		NTU (cm, if tube used)
pH	paper, kit, meter		pH standard units

Is the site in compliance with the SWPPP and the permit requirements? YES NO
If no, indicate tasks necessary to bring site into compliance on the "Actions to be Completed" table above, and include dates each job WILL BE COMPLETED.
If no, has the non-compliance been reported to Dept. of Ecology? YES NO
If no, should the SWPPP be modified: YES NO

Sign the following certification:
"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Inspection completed on:_____ by: (print+signature)_____

Title/Qualification of Inspector:_____

Excerpt from *How to do Stormwater Monitoring,* Publication # 06-10-020

Construction Stormwater
SITE INSPECTION CHECKLIST

Project_____ Permit No._____ Inspector_____ Date_____ Time_____

Site BMPs	Overall Condition	Need Repair?	Comments/Observations
Clearing Limits			
• *Buffer Zones around sensitive areas*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Construction Access/Roads			
• *Stabilized site entrance*	G F P	Y N	
• *Stabilized roads/parking area*	G F P	Y N	
•	G F P	Y N	
Control Flow Rates			
• *Swale*	G F P	Y N	
• *Dike*	G F P	Y N	
• *Sediment pond*	G F P	Y N	
• *Sediment trap*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Install Sediment Controls			
• *Sediment pond/trap*	G F P	Y N	
• *Silt fence*	G F P	Y N	
• *Straw bale barriers*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Preserve Vegetation/Stabilize Soils			
• *Nets and blankets*	G F P	Y N	
• *Mulch*	G F P	Y N	
• *Seeding*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Protect Slopes			
• *Terrace*	G F P	Y N	
• *Pipe slope drains*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Protect Drain Inlets			
• *Inserts*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Stabilize Channels and Outlets			
• *Conveyance channels*	G F P	Y N	
• *Energy dissipators*	G F P	Y N	
•	G F P	Y N	
Control Pollutants			
• *Chemical Storage Area covered*	G F P	Y N	
• *Concrete handling*	G F P	Y N	
•	G F P	Y N	
Control De-watering			
•	G F P	Y N	

G=Good F=Fair P=Poor Y=Yes N=No

Excerpt from *How to do Stormwater Monitoring,* Publication # 06-10-020

PERMIT NUMBER WAR-011650

CONSTRUCTION STORMWATER GENERAL PERMIT
DISCHARGE MONITORING REPORT (DMR)

PROJECT INFORMATION

Site Name: Former Scott Paper Mill Cleanup
Disturbed Acreage: 16.0
Location: 20th St & Q Ave, Anacortes, WA
County: Skagit

Owner Name: Port of Anacortes
Permittee/Operator: Becky Darden
Mailing Address: P.O. Box 297
Anacortes, WA 98221

MONITORING DOCUMENTATION

Unique Discharge/Monitoring Point: _____
(Use same description each month, use one DMR for each monitoring point)

Monitoring Period: _____
(Month/Year)

Please send your Discharge Monitoring Report (DMR) to Ecology every month, **even if there is no discharge**. Also, read the attached instructions before completing the DMR. If a section does not apply, please annotate "N/A", leaving no blanks.

Weekly Monitoring	Sampling Date (Month/Day /Year)	Turbidity (NTU's-Nephelometric Turbidity Units)	Transparency (Centimeters)	pH (If applicable)	Treatment BMPs Used Prior to Discharge from Site (List all that apply) P = Sediment Pond/Trap/Tank/Vault C = Chemical Treatment/Sand Filter S = Silt Fence W = Straw Wattles/Coir Wattles D = Check Dam/Triangular Silt Dike O = Other	No Discharge This Week (Check if applicable)
Example	10/06/06	32	N/A	N/A	P, S, W	
Week 1						
Week 2						
Week 3						
Week 4						
Week 5						

☐ No soil disturbing construction activities have taken place on the site yet. Construction is expected to begin on _____

☐ There was no discharge during normal working hours this month (provide comments or explanation below)

COMMENTS / EXPLANATIONS (ATTACH EXTRA SHEET IF NECESSARY):

NAME / PHONE NUMBER OF ON-SITE CONTACT PERSON WHO CAN ANSWER QUESTIONS RELATED TO THIS REPORT:

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY JUDGEMENT OR MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION; I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. *(PENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO $10,000.00 AND/ OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)*

NAME/TITLE OF PERSON WITH SIGNATORTY AUTHORITY (SEE INSTRUCTIONS)	DATE: MONTH DAY YEAR
SIGNATURE OF PERSON WITH SIGNATORY AUTHORITY	PHONE NUMBER OF PERSON WITH SIGNATORY AUTHORITY

MAIL YOUR DMR (WITHOUT INSTRUCTIONS PAGE) TO:
DEPARTMENT OF ECOLOGY, WATER QUALITY PROGRAM – CONSTRUCTION STORMWATER, P.O. BOX 47696, OLYMPIA, WA 98504-7696

PERMIT NUMBER WAR-011650

DAILY TURBIDITY/TRANSPARENCY SAMPLING LOG

Note: Daily sampling is triggered by turbidity sampling results over 250 NTU's, or transparency results less than 6 cm.

S	M	T	W	T	F	S

INSTRUCTIONS AND FREQUENTLY ASKED QUESTIONS FOR COMPLETING THE DMR FORM

PROJECT INFORMATION

1. How can I update contact information and/or mailing addresses? You can update any project information by submitting a Notice of Intent (NOI) Application Form and checking the box in the upper right hand corner next to "Change/Update Permit Information". Complete only the boxes that are being updated and submit the signed form to the same address as the DMR.

MONITORING DOCUMENTATION

1. How often do I sample? Once you disturb the soil, you must conduct sampling at least once every calendar week when stormwater (or authorized non-stormwater) flows off of the site.

2. Where do I sample? You must take samples from all discharge points where stormwater (or authorized non-stormwater such as de-watering water) flows off-site.

3. When stormwater leaves my site from more than one location, what do I need to do?
   a. Use a separate DMR sheet for each location where stormwater is discharged from the site.
   b. Enter a unique name or description of the monitoring location (for example: Pond 1; or West Ditch). You must use the **same** monitoring location name each month.
   c. Identify all sampling point(s) on the map in your Storm Water Pollution Prevention Plan (SWPPP). You must also clearly mark each sample point in the field with a flag, tape, stake or other visible marker.

4. What if I don't have a discharge off site for an entire week? If there was no discharge during **a calendar week**, you need not take a sample. Mark an X in the "No Discharge" column for that week on the DMR form. If there was no discharge **during a calendar month**, mark the "No Discharge" box at the bottom of the table.

5. If it rains at 3 AM on my site, do I have to get up and sample at that hour? You need not sample outside of normal working hours or during unsafe conditions. If you are unable to sample during a monitoring period, you must include a brief explanation in the "Comment/Explanation" box of the DMR.

6. What kind of stormwater turbidity/transparency sampling do I have to do? If construction activity disturbs 5 acres or more, the permit requires you to conduct turbidity sampling, using a turbidity meter. If construction activity disturbs greater than or equal to 1 acre, but less than 5 acres, you may use either a transparency tube **or** a turbidity meter. You must enter turbidity or transparency values collected each week on the DMR.

7. What if my turbidity result is greater than 250 NTU or my transparency is less than 6 centimeters (cm)? If any discharge is greater than 250 NTU or less than 6 centimeters (cm) transparency, you must begin daily sampling. You must also record the values in the attached sampling log (on page 2). Write the date, sampling result (value), and unit (NTU or cm). Continue to sample daily until:
   a. Turbidity is 25 NTU (or lower); or
   b. Transparency is 31 cm (or greater); or
   c. The CESCL has determined compliance with the water quality standard for turbidity:
      1. No more than 5 NTU over background turbidity, if background is less than 50 NTU, or
      2. No more than 10% over background turbidity, if background is 50 NTU or greater; or
   d. The discharge stops or is eliminated.

8. When do I have to sample for pH? If construction activity will result in the disturbance of 1 acre or more, **and** involves *significant concrete work* or the use of *engineered soils*, **and** stormwater from the affected area drains to surface waters of the state or to a storm sewer system, the Permittee must conduct *pH* monitoring:
   a. Definitions:
      - *Significant Concrete Work* means greater than 1,000 cubic yards poured or recycled concrete.
        - For poured concrete, the 1,000 cubic yard threshold is met if a single or multiple concrete pours on the site results in greater than 1,000 cubic yards of concrete curing at the same time. Typical curing time is less than 30 days. If individual concrete pours smaller than 1,000 cubic yards occur more than 30 days apart, pH sampling is not required unless required by Ecology order.
        - For recycled concrete, the 1,000 cubic yard threshold is met if greater than 1,000 cubic yards of concrete is recycled or crushed on-site.
      - *Engineered Soils* means the use of soil amendments including, but not limited to, Portland cement treated base (CTB), cement kiln dust (CKD), or fly ash to achieve certain desirable soil characteristics.

b. For *significant concrete work*, pH monitoring begins when the concrete is first exposed to precipitation and continues weekly until stormwater pH is 8.5 or less prior to discharge.
c. For sites with engineered soils, the pH monitoring period commences when the soil amendments are first exposed to precipitation and continues until the area of engineered soils is fully stabilized.
d. During the pH monitoring period, the Permittee must obtain a representative sample of stormwater and conduct pH analysis at least once per week.
e. The Permittee must monitor pH in the sediment trap/pond(s) or other locations prior to discharge from the site.
f. The benchmark value for pH is 8.5 standard units. Any time sampling indicates that pH is 8.5 or greater, the Permittee must:
    1. Prevent the high pH water (8.5 or above) from entering the storm sewer systems or surface waters; and
    2. If necessary, adjust or neutralize the high pH water using an appropriate treatment BMP such as carbon dioxide (CO_2) sparging or dry ice. The permittee must obtain written approval from Ecology prior to using any form of chemical treatment other than CO_2 sparging or dry ice. Information on CO_2 sparging / dry ice BMP can be found on Ecology's web site at: www.ecy.wa.gov/programs/wq/stormwater.
g. The Permittee shall perform pH analysis on-site with a calibrated pH meter, pH test kit, or wide range pH indicator paper. The Permittee must record pH monitoring results in the site log book.

9. What do the treatment BMP letter codes on the form mean? For any discharge, report the type of treatment Best Management Practice(s) (BMPs) applied to the stormwater (or non-stormwater) prior to discharge from the site. Use the letter code (e.g., P for Pond) that corresponds to the type of BMP used for the specific discharge. BMP codes are listed on the DMR. If multiple treatment BMPs are used, list the letter code for each type of BMP.

9. What if I haven't started clearing or grading my site? If you have not began initial soil disturbing activity yet, mark an X in the applicable box. Indicate estimated construction start date, and continue to submit the DMR each month.

10. Who should sign the report?
    A. This report must be signed as follows:
        1. Corporations, by a responsible corporate officer of at least the level of vice president of a corporation or a duly authorized representative;
        2. Partnerships, by a general partner of a partnership or a duly authorized representative;
        3. Sole proprietorships, by the proprietor or a duly authorized representative; or
        4. Municipal, state, or other public facility, by either a principal executive officer, ranking elected official or a duly authorized representative.
    B. A person is a duly authorized representative only if:
        1. The authorization is made in writing by a person described above and submitted to the Ecology.
        2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or having overall responsibility for environmental matters.
    C. Changes to authorization:
        If an authorization is no longer accurate, submit a new authorization to Ecology prior to (or together with) any reports, information, or applications to be signed by an authorized representative.

ADDITIONAL SAMPLING

1. What if I take additional samples or have more information to submit than will fit on the provided forms? You can submit any additional information on separate sheets of paper. You may also attach lab sheets, if you use a lab for analysis. Please sign, date, and document the site information on those sheets so that they can be included in your file.

ADDITIONAL INFORMATION

1. Mail the DMR to: **Department of Ecology, Water Quality Program- Construction Stormwater, P.O. Box 47696, Olympia, WA 98504-7696**

2. Who can I call for assistance? If you have questions or concerns, please contact Ecology's Water Quality Reception Desk at (360) 407-6600. Please have your site name, location, and permit number available when calling.

For more information, additional forms and/or additional copies of the permit; please visit our web site: http://www.ecy.wa.gov/programs/wq/stormwater/construction.

FORMER SCOTT PAPER MILL CLEANUP
WAR-011650
5/04/2009

Issuance Date: November 16, 2005
Effective Date: December 16, 2005
Expiration Date: December 16, 2010

CONSTRUCTION STORMWATER GENERAL PERMIT

National Pollutant Discharge Elimination System (NPDES) and State Waste Discharge General Permit for Stormwater Discharges Associated With Construction Activity

State of Washington
Department of Ecology
Olympia, Washington 98504-7600

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.

Until this permit expires, is modified or revoked, Permittees that have properly obtained coverage under this general permit are authorized to discharge in accordance with the special and general conditions which follow.

David C. Peeler, Manager
Water Quality Program
Washington State Department of Ecology

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S5.A	High Turbidity/Transparency Phone Reporting	As Necessary	Within 24 hours
S5.B	Discharge Monitoring Report	Monthly	Within 15 days after the applicable monitoring period
S5.F	Noncompliance Notification	As necessary	Immediately
S5.F	Noncompliance Notification – Written Report	As necessary	Within 5 Days of non-compliance
G2.	Notice of Change in Authorization	As necessary	
G6.	Permit Application for Substantive Changes to the Discharge	As necessary	
G8.	Application for Permit Renewal	1/permit cycle	No later than 180 days before expiration
G9.	Notice of Permit Transfer	As necessary	
G20.	Notice of Planned Changes	As necessary	
G22.	Reporting Anticipated Non-compliance	As necessary	

SUMMARY OF REQUIRED ON SITE DOCUMENTATION

Permit Conditions	Document Title
Conditions S2, S5	Permit Coverage Letter
Conditions S2, S5	Construction Stormwater General Permit
Conditions S4, S5	Site Log Book
Conditions S9, S5	Stormwater Pollution Prevention Plan (SWPPP)

SPECIAL CONDITIONS

S1. PERMIT COVERAGE

A. Permit Area

This general permit covers all areas of Washington State, except for federal and tribal lands specified in S1.D.3.

B. Operators Required to Seek Coverage Under this General Permit:

1. *Operators* of the following *construction activities* are required to seek coverage under this permit:

   a. Clearing, grading and/or excavation which results in the disturbance of one or more acres, and discharges *stormwater* to *surface waters of the state*; and clearing, grading and/or excavation on *sites* smaller than one acre which are part of a larger *common plan of development or sale*, if the common plan of development or sale will ultimately disturb one acre or more, and discharges stormwater to surface waters of the state.

      i. This includes forest practices that are part of a construction activity that will result in the disturbance of one or more acres, and discharges to surface waters of the state (i.e., forest practices which are preparing a site for construction activities); and

   b. Any size construction activity discharging stormwater to waters of the state which the Department of Ecology (Ecology):

      i. Determines to be a *significant contributor of pollutants* to waters of the state of Washington, or

      ii. Reasonably expects to cause a violation of any water quality standard.

2. Operators of the following activities are not required to seek coverage under this permit, unless specifically required under Condition S1.B.1.b. (Significant Contributor):

   a. Construction activities which discharge all stormwater and non-stormwater to *ground water*, and have no *point source* discharge to surface water or a *storm sewer system* that drains to surface waters of the state;

   b. Construction activities covered under an Erosivity Waiver (Condition S2.C);

   c. Routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

C. Authorized Discharges:

1. Stormwater Associated with Construction Activity. Subject to compliance with the terms and conditions of this permit, *Permittees* are authorized to discharge stormwater associated with construction activity to surface waters of the state or to a storm sewer system that drains to surface waters of the state.

2. Stormwater Associated with Construction Support Activity. This permit also authorizes stormwater discharges from support activities related to the permitted construction site (e.g., off-site equipment staging yards, material storage areas, borrow areas, etc.) provided:

   a. The support activity is directly related to the permitted construction site that is required to have an NPDES permit; and

   b. The support activity is not a commercial operation serving multiple unrelated construction projects, and does not operate beyond the completion of the construction activity; and

   c. Appropriate controls and measures are identified in the *Stormwater Pollution Prevention Plan* (SWPPP)for the discharges from the support activity areas.

3. Non-Stormwater Discharges. The categories and sources of non-stormwater discharges identified below are conditionally authorized, provided the discharge is consistent with the terms and conditions of this permit:

   a. Discharges from fire fighting activities;

   b. Fire hydrant system flushing;

   c. Potable water including uncontaminated water line flushing (de-chlorinated);

   d. Pipeline hydrostatic test water;

   e. Uncontaminated air conditioning or compressor condensate;

   f. Uncontaminated ground water or spring water;

   g. Uncontaminated excavation *de-watering* (in accordance with S9.D.10)

   h. Uncontaminated discharges from foundation or footing drains;

   i. Water used to control dust;

   j. Routine external building wash down that does not use detergents; and

   k. Landscape irrigation.

All authorized non-stormwater discharges, except for discharges from fire fighting activities, shall be adequately addressed in the SWPPP and comply with Special Condition S3.

D. Limitations on Coverage

The *Director* may require any *discharger* to apply for and obtain coverage under an individual permit or another more specific general permit. Such alternative coverage will be required when Ecology determines that this general permit does not provide adequate assurance that *water quality* will be protected; or there is a reasonable potential for the project to cause or contribute to a violation of water quality standards.

The following stormwater discharges are not covered by this permit:

1. Post-construction stormwater discharges that originate from the site after construction activities have been completed and the site has undergone *final stabilization.*

2. Nonpoint source silvicultural activities such as nursery operations, site preparation, reforestation and subsequent cultural treatment, thinning, prescribed burning, pest and fire control, harvesting operations, surface drainage, or road construction and maintenance from which there is natural runoff as excluded in 40 CFR Subpart 122.27.

3. Stormwater from any federal project or project on federal land or land within an Indian Reservation except for the Puyallup Reservation. Within the Puyallup Reservation, any project that discharges to surface water on land held in trust by the federal government may be covered by this permit.

4. Stormwater from any site covered under an existing NPDES individual permit in which stormwater management and/or treatment requirements are included for all stormwater discharges associated with construction activity.

5. Where an applicable Total Maximum Daily Load (TMDL) specifically precludes or prohibits discharges from construction activity, the operator is not eligible for coverage under this permit.

S2. APPLICATION REQUIREMENTS

A. Permit Application Forms

1. Notice of Intent Form/Timeline

a. Operators of new or previously unpermitted construction activities shall submit a complete and accurate permit application form [*Notice of Intent* (NOI)] to Ecology. *Applicants* are encouraged to use Ecology's internet-based electronic NOI to apply for permit coverage.

b. The NOI shall be submitted on or before the date of the first public notice (see Condition S2.B below) and at least 60 days prior to the discharge of stormwater

from construction activities. The 30-day public comment period required by WAC 173-226-130(5) begins on the publication date of the second public notice. Unless Ecology responds to the complete application in writing, based on public comments, or any other relevant factors, coverage under the general permit will automatically commence on the thirty-first day following receipt by Ecology of a completed NOI, or the issuance date of this permit, whichever is later; unless a later date is specified by Ecology in writing.

c. Applicants that discharge to a storm sewer system operated by Seattle, King County, Snohomish County, Tacoma, Pierce County, or Clark County shall also submit a copy of the NOI to the appropriate jurisdiction.

2. Transfer of Coverage Form
Current coverage under this permit may be transferred to one or more new operators, including operators of sites within a Common Plan of Development, by submitting a Transfer of Coverage Form in accordance with Condition G9. Transfers do not require public notice.

B. Public Notice

For new or previously unpermitted sites, the applicant shall publish a public notice at least one time each week for two consecutive weeks, with a 7-day time span between dates, in a newspaper that has general circulation in the county in which the construction is to take place. The notice shall contain the following:

1. A statement that "The applicant is seeking coverage under the Washington State Department of Ecology's Construction Stormwater NPDES and State Waste Discharge General Permit";

2. The name, address and location of the construction site;

3. The name and address of the applicant;

4. The type of construction activity that will result in a discharge, (e.g., residential construction, commercial construction, etc.) and the number of acres to be disturbed;

5. The name of the receiving water(s) (i.e., the surface water(s) that the site will discharge to), or if the discharge is through a storm sewer system, the name of the operator of the storm sewer; and

6. The statement: "Any person desiring to present their views to the Department of Ecology regarding this application, or interested in the Department's action on this application may notify the Department of Ecology in writing within 30 days of the last date of publication of this notice. Comments can be submitted to: Department of Ecology, P.O. Box 47696, Olympia, WA 98504-7696, Attn: Water Quality Program, Construction Stormwater".

C. Erosivity Waiver

Operators may qualify for a waiver from the permit if the following conditions are met:

1. The site will result in the disturbance of less than 5 acres; and the site is not a portion of a common plan of development or sale that will disturb 5 acres or greater.

2. Calculation of Erosivity "R" Factor and Regional Timeframe:

   a. The project's rainfall erosivity factor ("R" Factor) must be less than 5 during the period of construction activity, as calculated using the Texas A&M University online rainfall erosivity calculator at: http://ei.tamu.edu/. The period of construction activity begins at initial earth disturbance and ends with *final stabilization*; and, in addition:

   b. The entire period of construction activity must fall within the following timeframes:

      i. For sites west of the Cascades Crest: June 15 – September 15; or

      ii. For sites east of the Cascades Crest, excluding the Central Basin: June 15 – October 15; or

      iii. For sites east of the Cascades Crest, within the Central Basin*: no additional timeframe restrictions apply.

      *Note: The Central Basin is defined as the portions of Eastern Washington with mean annual precipitation of less than 12 inches.

3. Operators must submit a complete Erosivity Waiver Certification Form at least one week prior to commencing land disturbing activities. Certification must include:

   a. A statement that the operator will comply with applicable local stormwater requirements; and

   b. A statement that the operator will implement appropriate *erosion and sediment control BMPs* to prevent violations of water quality standards.

4. This waiver is not available for facilities declared a significant contributor of *pollutants* as defined in Condition S1.B.1.b.

5. This waiver does not apply to construction activity which includes non-stormwater discharges listed in S1.C.3.

6. If construction activity extends beyond the certified waiver period for any reason, the operator shall either:

a. Recalculate the rainfall erosivity "R" factor using the original start date and a new projected ending date and, if the "R" factor is still under 5 and the entire project falls within the applicable regional timeframe in S2.C.2.b, complete and submit an amended waiver certification form before the original waiver expires; or

b. Submit a complete permit application to Ecology in accordance with Condition S2.A and B before the end of the certified waiver period.

S3. COMPLIANCE WITH STANDARDS

A. Discharges shall not cause or contribute to a violation of surface water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC), *sediment* management standards (Chapter 173-204 WAC), and human health-based criteria in the National Toxics Rule (40 CFR Part 131.36). Discharges that are not in compliance with these standards are not authorized.

B. Prior to the discharge of stormwater and non-stormwater to *waters of the state*, the Permittee shall apply all known, available, and reasonable methods of prevention, control, and treatment (*AKART*). This includes the preparation and implementation of an adequate Stormwater Pollution Prevention Plan (SWPPP), with all appropriate *best management practices* (BMPs) installed and maintained in accordance with the SWPPP and the terms and conditions of this permit.

C. Compliance with water quality standards shall be presumed, unless discharge monitoring data or other site specific information demonstrates that a discharge causes or contributes to a violation of water quality standards, when the Permittee is:

1. In full compliance with all permit conditions, including planning, sampling, monitoring, reporting, and recordkeeping conditions; and

2. Fully implementing stormwater BMPs contained in *stormwater management manuals* published or approved by Ecology, or BMPs that are *demonstrably equivalent* to BMPs contained in stormwater technical manuals published or approved by Ecology, including the proper selection, implementation, and maintenance of all applicable and appropriate BMPs for on-site *pollution* control.

D. For sites that discharge to both surface water and ground water, all ground water discharges are also subject to the terms and conditions of this permit. Permittees who discharge to ground water through an *injection well* shall comply with any applicable requirements of the Underground Injection Control (UIC) regulations, Chapter 173-218 WAC.

S4. MONITORING REQUIREMENTS

The primary monitoring requirements are summarized in Table 3 (below):

Table 3. Summary of Monitoring Requirements[1]

Size of Soil Disturbance[2]	Weekly Site Inspections	Weekly Sampling w/ Turbidity Meter	Weekly Sampling w/ Transparency Tube	Weekly pH sampling[3]
Sites which disturb less than 1 acre	Required	Not Required	Not Required	Not Required
Sites which disturb 1 acre or more, but less than 5 acres	Required	Sampling Required – either method[4]		Required
Sites which disturb 5 acres or more	Required	Required	Not Required[5]	Required

A. Site Log Book

The Permittee shall maintain a site log book that contains a record of the implementation of the SWPPP and other permit requirements including the installation and maintenance of BMPs, site inspections, and stormwater monitoring.

B. Site Inspections

1. Site inspections shall include all areas disturbed by construction activities, all BMPs, and all stormwater discharge points. Stormwater shall be visually examined for the

[1] Additional monitoring requirements may apply for: 1) discharges to 303(d) listed waterbodies and waterbodies with applicable TMDLs for turbidity, fine sediment, high pH, or phosphorus - see Condition S8; and 2) sites required to perform additional monitoring by Ecology order – see Condition G13.

[2] Soil disturbance is calculated by adding together all areas affected by construction activity. Construction Activity means clearing, grading, excavation, and any other activity which disturbs the surface of the land, including ingress/egress from the site.

[3] Beginning October 1, 2006, if construction activity involves significant concrete work or the use of engineered soils, and stormwater from the affected area drains to a stormwater collection system or other surface water, the Permittee shall conduct pH sampling in accordance with Condition S4.D.

[4] Beginning October 1, 2008, sites with one or more acres, but less than 5 acres of soil disturbance, shall conduct turbidity or transparency sampling in accordance with Condition S4.C.

[5] Beginning October 1, 2006, sites greater than or equal to 5 acres of soil disturbance shall conduct turbidity sampling using a turbidity meter in accordance with Condition S4.C.

presence of suspended sediment, turbidity, discoloration, and oil sheen. Inspectors shall evaluate the effectiveness of BMPs and determine if it is necessary to install, maintain, or repair BMPs to improve the quality of stormwater discharges.

Based on the results of the inspection, the Permittee shall correct the problems identified as follows:

a. Review the SWPPP for compliance with Condition S9 and make appropriate revisions within 7 days of the inspection; and

b. Fully implement and maintain appropriate *source control* and/or *treatment BMPs* as soon as possible, but no later than 10 days of the inspection; and

c. Document BMP implementation and maintenance in the site log book.

2. The site inspections shall be conducted at least once every *calendar week* and within 24 hours of any discharge from the site. The inspection frequency for temporarily stabilized, inactive sites may be reduced to once every calendar month.

3. Site inspections shall be conducted by a person who is knowledgeable in the principles and practices of erosion and sediment control. The inspector shall have the skills to:

   a. Assess the site conditions and construction activities that could impact the quality of stormwater, and

   b. Assess the effectiveness of erosion and sediment control measures used to control the quality of stormwater discharges.

4. Beginning October 1, 2006, construction sites one acre or larger that discharge stormwater to surface waters of the state, shall have site inspections conducted by a *Certified Erosion and Sediment Control Lead* (CESCL). The CESCL shall be identified in the SWPPP and shall be present on-site or on-call at all times. Certification shall be obtained through an approved erosion and sediment control training program that meets the minimum training standards established by Ecology (see BMP C160 in the Manual).

5. The inspector shall summarize the results of each inspection in an inspection report or checklist and be entered into, or attached to, the site log book. At a minimum, each inspection report or checklist shall include:

   a. Inspection date and time.

   b. Weather information; general conditions during inspection and approximate amount of precipitation since the last inspection, and within the last 24 hours.

   c. A summary or list of all BMPs which have been implemented, including observations of all erosion/sediment control structures or practices.

   d. The following shall be noted:

      i. locations of BMPs inspected,

ii. locations of BMPs that need maintenance,

iii. the reason maintenance is needed,

iv. locations of BMPs that failed to operate as designed or intended, and

v. locations where additional or different BMPs are needed, and the reason(s) why.

e. A description of stormwater discharged from the site. The inspector shall note the presence of suspended sediment, turbid water, discoloration, and/or oil sheen, as applicable.

f. Any water quality monitoring performed during inspection.

g. General comments and notes, including a brief description of any BMP repairs, maintenance or installations made as a result of the inspection.

h. A statement that, in the judgment of the person conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the SWPPP and the permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance, as well as a schedule of implementation.

i. Name, title, and signature of the person conducting site inspection; and the following statement: "I certify that this report is true, accurate, and complete, to the best of my knowledge and belief".

C. Turbidity/Transparency Sampling Requirements

1. Sampling Methods/Effective Dates

a. Beginning October 1, 2006, if construction activity will involve the disturbance of 5 acres or more, the Permittee shall conduct *turbidity* sampling per Condition S4.C.

b. Beginning October 1, 2008, if construction activity will involve greater than or equal to 1 acre, but less than 5 acres of soil disturbance, the Permittee shall conduct *transparency* sampling **or** turbidity sampling per Condition S4.C.

2. Sampling Frequency

a. Sampling shall be conducted at least once every calendar week, when there is a discharge of stormwater (or authorized non-stormwater) from the site. Samples shall be *representative* of the flow and characteristics of the discharge.

b. When there is no discharge during a calendar week, sampling is not required.

c. Sampling is not required outside of normal working hours or during unsafe conditions. If a Permittee is unable to sample during a monitoring period, the Discharge Monitoring Report (DMR) shall include a brief explanation.

3. Sampling Locations

   a. Sampling is required at all discharge points where stormwater (or authorized non-stormwater) is discharged off-site.

   b. All sampling point(s) shall be identified on the SWPPP site map and be clearly marked in the field with a flag, tape, stake or other visible marker.

4. Sampling and Analysis Methods

   a. Turbidity analysis shall be performed with a calibrated turbidity meter (turbidimeter), either on-site or at an accredited lab. The results shall be recorded in the site log book in Nephelometric Turbidity Units (NTU).

   b. Transparency analysis shall be performed on-site with a 1 ¾ inch diameter, 60 centimeter (cm) long Transparency Tube. The results shall be recorded in the site log book in centimeters (cm). Transparency Tubes are available from: http://watermonitoringequip.com/pages/stream.html

Parameter	Units	Analytical Method	Sampling Frequency	Benchmark Value
Turbidity	NTU	SM2130 or EPA180.1	Weekly, if discharging	25 NTU
Transparency	cm	Manufacturer instructions, or Ecology Guidance	Weekly, if discharging	31 cm

5. Turbidity/Transparency Benchmark Values

The benchmark value for turbidity is 25 NTU (Nephelometric Turbidity Units); and the benchmark value for transparency is 31 cm.

   a. Turbidity 26 – 249 NTU, or Transparency 30 – 7 cm:

   If discharge turbidity is greater than 25 NTU, but less than 250 NTU; or if discharge transparency is less than 31 cm, but greater than 6 cm, the CESCL shall:

      i. Review the SWPPP for compliance with Condition S9 and make appropriate revisions within 7 days of the discharge that exceeded the benchmark; and

      ii. Fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, but within 10 days of the discharge that exceeded the benchmark; and

      iii. Document BMP implementation and maintenance in the site log book.

   b. Turbidity 250 NTU or greater, or Transparency 6 cm or less:

If discharge turbidity is greater than or equal to 250 NTU; or if discharge transparency is less than or equal to 6 cm, the CESCL shall:

i. Notify Ecology by phone in accordance with Condition S5.A.; and

ii. Review the SWPPP for compliance with Condition S9 and make appropriate revisions within 7 days of the discharge that exceeded the benchmark; and

iii. Fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, but within 10 days of the discharge that exceeded the benchmark;

iv. Document BMP implementation and maintenance in the site log book; and

v. Continue to sample discharges daily until:

1. turbidity is 25 NTU (or lower); or

2. transparency is 31 cm (or greater); or

3. the CESCL has demonstrated compliance with the water quality standard for turbidity:

a. no more than 5 NTU over background turbidity, if background is less than 50 NTU, or

b. no more than 10% over background turbidity, if background is 50 NTU or greater; or

4. the discharge stops or is eliminated.

D. pH Monitoring: Sites with Significant Concrete Work or Engineered Soils

Beginning October 1, 2006, if construction activity will result in the disturbance of 1 acre or more, **and** involves *significant concrete work* or the use of *engineered soils*, **and** stormwater from the affected area drains to surface waters of the state or to a storm sewer system that drains to surface waters of the state, the Permittee shall conduct *pH* monitoring as set forth below:

1. For sites with significant concrete work, the *pH monitoring period* shall commence when the concrete is first exposed to precipitation and continue weekly until stormwater pH is 8.5 or less.

a. "Significant concrete work" means greater than 1000 cubic yards poured concrete or recycled concrete.

2. For sites with engineered soils, the pH monitoring period shall commence when the soil amendments are first exposed to precipitation and shall continue until the area of engineered soils is *fully stabilized.*

a. "Engineered soils" means soil amendments including, but not limited, to Portland cement treated base (CTB), cement kiln dust (CKD), or fly ash.

3. During the pH monitoring period, the Permittee shall obtain a representative sample of stormwater and conduct pH analysis at least once per week.

4. The Permittee shall monitor pH in the sediment trap/pond(s) or other locations that receive stormwater runoff from the area of significant concrete work or engineered soils prior to discharge to surface waters.

5. The benchmark value for pH is 8.5 standard units. Any time sampling indicates that pH is 8.5 or greater, the Permittee shall:

   a. Prevent the high pH water (8.5 or above) from entering storm sewer systems or surface waters; and

   b. If necessary, adjust or neutralize the high pH water using an appropriate treatment BMP such as CO_2 sparging or dry ice. The Permittee shall obtain written approval from Ecology prior to using any form of chemical treatment other than CO_2 sparging or dry ice.

6. The Permittee shall perform pH analysis on-site with a calibrated pH meter, pH test kit, or wide range pH indicator paper. The Permittee shall record pH monitoring results in the site log book.

S5. REPORTING AND RECORDKEEPING REQUIREMENTS

A. High Turbidity Phone Reporting

Any time sampling performed in accordance with Special Condition S4.C indicates turbidity is 250 NTU or greater (or transparency is 6 cm or less) the Permittee shall notify the appropriate Ecology regional office by phone within 24 hours of analysis.

B. Discharge Monitoring Reports

1. Permittees required to conduct water quality sampling in accordance with Special Conditions S.4.C (Turbidity/Transparency), S4.D (pH) and/or S8 [303(d)/TMDL sampling] shall submit the results to Ecology monthly on Discharge Monitoring Report (DMR) forms provided by Ecology.

   Permittees are authorized and encouraged to submit electronic DMRs using the "E-DMR Form" on Ecology's Construction Stormwater web site: http://www.ecy.wa.gov/programs/wq/stormwater/construction/.

2. The Permittee shall submit DMR forms electronically or by mail to be received by Ecology within 15 days following the end of each month. If there was no discharge during a given monitoring period, the Permittee shall submit the form as required with the words "no discharge" entered in place of the monitoring results. If the Permittee is unable to submit discharge monitoring reports electronically, the Permittee may mail reports to the address listed below:

b. Fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, but within 10 days of the discharge that exceeded the standards;

c. Document BMP implementation and maintenance in the site log book;

d. Notify the appropriate Ecology Regional Office by phone within 24 hours of analysis; and

e. Continue to sample daily until discharge meets the water quality standard for pH (in the range of 6.5 – 8.5) or the discharge stops or is eliminated.

Parameter identified in 303(d) listing	Parameter/Units	Analytical Method	Sampling Frequency	Water Quality Standard
Turbidity Fine Sediment Phosphorus	Turbidity/NTU	SM2130 or EPA180.1	Weekly, if discharging	If background is 50 NTU or less: 5 NTU over background; or If background is more than 50 NTU: 10% over background
High pH	pH/Standard Units	pH meter	Weekly, if discharging	In the range of 6.5 – 8.5

D. Sampling and Limitations For Sites Discharging to Applicable TMDLs

1. Discharges to a waterbodies subject to an applicable Total Maximum Daily Load (TMDL) for turbidity, fine sediment, high pH, or phosphorus, shall be consistent with the assumptions and requirements of the TMDL.

   a. Where an *applicable TMDL* sets specific *waste load allocations* or requirements for discharges covered by this permit, discharges shall be consistent with any specific waste load allocations or requirements established by the applicable TMDL.

      ii. The Permittee shall sample discharges weekly, or as otherwise specified by the TMDL, to evaluate compliance with the specific waste load allocations or requirements.

      iii. Analytical methods used to meet the monitoring requirements shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136. Turbidity and pH methods

need not be accredited or registered unless conducted at a laboratory which must otherwise be accredited or registered.

b. Where an applicable TMDL has established a general waste load allocation for construction stormwater discharges, but no specific requirements have been identified, compliance with Conditions S4 (Monitoring) and S9 (SWPPPs) will be assumed to be consistent with the approved TMDL.

c. Where an applicable TMDL has not specified a waste load allocation for construction stormwater discharges, but has not excluded these discharges, compliance with Conditions S4 (Monitoring) and S9 (SWPPPs) will be assumed to be consistent with the approved TMDL.

d. Where an applicable TMDL specifically precludes or prohibits discharges from construction activity, the operator is not eligible for coverage under this permit.

2. Applicable TMDL means a TMDL for turbidity, fine sediment, high pH, or phosphorus, which has been completed and approved by EPA prior to November 16, 2005, or prior to the date the operator's complete permit application is received by Ecology, whichever is later. TMDLs completed after the operator's complete permit application is received by Ecology become applicable to the Permittee only if they are imposed through an administrative order by Ecology, or through a modification of permit coverage.

S9. STORMWATER POLLUTION PREVENTION PLAN

An adequate Stormwater Pollution Prevention Plan (SWPPP) for construction activity shall be prepared and implemented in accordance with the requirements of this permit beginning with initial soil disturbance and until *final stabilization*.

A. The SWPPP shall meet the following objectives:

1. To implement Best Management Practices (BMPs) to prevent erosion and *sedimentation*, and to identify, reduce, eliminate or prevent stormwater contamination and water pollution from construction activity.
2. To prevent violations of surface water quality, ground water quality, or sediment management standards.
3. To control peak volumetric flow rates and velocities of stormwater discharges.

B. General Requirements

1. The SWPPP shall include a narrative and drawings. All BMPs shall be clearly referenced in the narrative and marked on the drawings.

   The SWPPP narrative shall include documentation to explain and justify the pollution prevention decisions made for the project. Documentation shall include:

   a. Information about existing site conditions (topography, drainage, soils, vegetation, etc.);

b. Potential erosion problem areas;

c. The 12 elements of a SWPPP in S9.D.1-12, including BMPs used to address each element;

d. Construction phasing/sequence and general BMP implementation schedule;

e. The actions to be taken if BMP performance goals are not achieved; and

f. Engineering calculations for ponds and any other designed structures.

2. The Permittee shall modify the SWPPP if, during inspections or investigations conducted by the owner/operator, or the applicable local or state regulatory authority, it is determined that the SWPPP is, or would be, ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site. The Permittee shall take the following actions:

   a. Review the SWPPP for compliance with Condition S9 and make appropriate revisions within 7 days of the inspection or investigation;

   b. Fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, but no later than 10 days from the inspection or investigation; and

   c. Document BMP implementation and maintenance in the site log book.

3. The Permittee shall modify the SWPPP whenever there is a change in design, construction, operation, or maintenance at the construction site that has, or could have, a significant effect on the discharge of pollutants to waters of the state.

C. Stormwater Best Management Practices (BMPs)

BMPs shall be consistent with:

1. Stormwater Management Manual for Western Washington (most recent edition), for sites west of the crest of the Cascade Mountains;

2. Stormwater Management Manual for Eastern Washington (most recent edition), for sites east of the crest of the Cascade Mountains; or

3. Other stormwater management guidance documents or manuals which provide an equivalent level of pollution prevention and are approved by Ecology; or

4. Documentation in the SWPPP that the BMPs selected provides an equivalent level of pollution prevention, compared to the applicable Stormwater Management Manuals, including:

a. The technical basis for the selection of all stormwater BMPs (scientific, technical studies, and/or modeling) which support the performance claims for the BMPs being selected; and

b. An assessment of how the selected BMP will satisfy AKART requirements and the applicable federal technology-based treatment requirements under 40 CFR part 125.3.

D. SWPPP – Narrative Contents and Requirements

The Permittee shall include each of the 12 elements below in S9.D.1-12 in the narrative of the SWPPP and ensure that they are implemented unless site conditions render the element unnecessary and the exemption from that element is clearly justified in the SWPPP.

1. Preserve Vegetation/Mark Clearing Limits

   a. Prior to beginning land disturbing activities, including clearing and grading, clearly mark all clearing limits, *sensitive areas* and their *buffers*, and trees that are to be preserved within the construction area.

   b. The duff layer, native top soil, and natural vegetation shall be retained in an undisturbed state to the maximum degree practicable.

2. Establish Construction Access

   a. Construction vehicle access and exit shall be limited to one route, if possible.

   b. Access points shall be stabilized with a pad of quarry spalls, crushed rock, or other *equivalent BMP*, to minimize the tracking of sediment onto public roads.

   c. Wheel wash or tire baths shall be located on site, if the stabilized construction entrance is not effective in preventing sediment from being tracked onto public roads.

   d. If sediment is tracked off site, public roads shall be cleaned thoroughly at the end of each day, or more frequently during wet weather. Sediment shall be removed from roads by shoveling or pickup sweeping and shall be transported to a controlled sediment disposal area.

   e. Street washing is allowed only after sediment is removed in accordance with S9.D.2.d. Street wash wastewater shall be controlled by pumping back on site or otherwise be prevented from discharging into systems tributary to waters of the state.

3. Control Flow Rates

   a. Properties and waterways downstream from development sites shall be protected from erosion due to increases in the velocity and peak volumetric flow rate of stormwater runoff from the project site, as required by local plan approval authority.

b. Where necessary to comply with S9.D.3.a., stormwater retention or *detention* facilities shall be constructed as one of the first steps in grading. Detention facilities shall be functional prior to construction of site improvements (e.g., impervious surfaces).

c. If permanent infiltration ponds are used for flow control during construction, these facilities shall be protected from siltation during the construction phase.

4. Install Sediment Controls

a. Stormwater runoff from disturbed areas shall pass through a sediment pond or other appropriate sediment removal BMP, prior to leaving a construction site or prior to discharge to an infiltration facility. Runoff from fully stabilized areas may be discharged without a sediment removal BMP, but shall meet the flow control performance standard of S9.D.3.a.

b. Sediment control BMPs (sediment ponds, traps, filters, etc.) shall be constructed as one of the first steps in grading. These BMPs shall be functional before other land disturbing activities take place.

c. BMPs intended to trap sediment on site shall be located in a manner to avoid interference with the movement of juvenile salmonids attempting to enter off-channel areas or drainages.

5. Stabilize Soils

a. Exposed and unworked soils shall be stabilized by application of effective BMPs that prevent erosion. Applicable BMPs include, but are not limited to: temporary and permanent seeding, sodding, mulching, plastic covering, erosion control fabrics and matting, soil application of polyacrylamide (PAM), the early application of gravel base on areas to be paved, and dust control.

b. Depending on the geographic location of the project, no soils shall remain exposed and unworked for more than the time periods set forth below to prevent erosion:

West of the Cascade Mountains Crest
During the dry season (May 1 - Sept. 30): 7 days
During the wet season (October 1 - April 30): 2 days

East of the Cascade Mountains Crest, except for Central Basin*
During the dry season (July 1 - September 30): 10 days
During the wet season (October 1 - June 30): 5 days

The Central Basin*, East of the Cascade Mountains Crest
During the dry Season (July 1 - September 30): 30 days
During the wet season (October 1 - June 30): 15 days

*Note: The Central Basin is defined as the portions of Eastern Washington with mean annual precipitation of less than 12 inches.

The time period may be adjusted by a local jurisdiction, if the jurisdiction can show that local precipitation data justify a different standard.

c. Soils shall be stabilized at the end of the shift before a holiday or weekend if needed based on the weather forecast.

d. Soil stockpiles shall be stabilized from erosion, protected with sediment trapping measures, and where possible, be located away from *storm drain* inlets, waterways, and drainage channels.

6. Protect Slopes

a. Design and construct cut and fill slopes in a manner that will minimize erosion. Applicable practices include, but are not limited to, reducing continuous length of slope with terracing and diversions, reducing slope steepness, and roughening slope surfaces (e.g., track walking).

b. Off-site stormwater (run-on) or groundwater shall be diverted away from slopes and disturbed areas with interceptor dikes, pipes, and/or swales. Off-site stormwater should be managed separately from stormwater generated on the site.

c. At the top of slopes, collect drainage in pipe slope drains or protected channels to prevent erosion.

i. West of the Cascade Mountains Crest: Temporary pipe slope drains shall handle the peak 10-minute velocity of flow from a Type 1A, 10-year, 24-hour frequency storm for the developed condition. Alternatively, the 10-year, 1-hour flow rate predicted by an approved continuous runoff model, increased by a factor of 1.6, may be used. The hydrologic analysis shall use the existing land cover condition for predicting flow rates from tributary areas outside the project limits. For tributary areas on the project site, the analysis shall use the temporary or permanent project land cover condition, whichever will produce the highest flow rates. If using the WWHM to predict flows, bare soil areas should be modeled as "landscaped area."

ii. East of the Cascade Mountains Crest: Temporary pipe slope drains shall handle the expected peak flow velocity from a 6-month, 3-hour storm for the developed condition, referred to as the short duration storm.

d. Excavated material shall be placed on the uphill side of trenches, consistent with safety and space considerations.

e. Check dams shall be placed at regular intervals within constructed channels that are cut down a slope.

7. Protect Drain Inlets

a. All storm drain inlets made operable during construction shall be protected so that stormwater runoff does not enter the conveyance system without first being filtered or treated to remove sediment.

b. Inlet protection devices shall be cleaned or removed and replaced when sediment has filled one-third of the available storage (unless a different standard is specified by the product manufacturer).

8. Stabilize Channels and Outlets

a. All temporary on-site conveyance channels shall be designed, constructed, and stabilized to prevent erosion from the following expected peak flows:

i. West of the Cascade Mountains Crest: Channels shall handle the peak 10 minute velocity of flow from a Type 1A, 10-year, 24-hour frequency storm for the developed condition. Alternatively, the 10-year, 1-hour flow rate indicated by an approved continuous runoff model, increased by a factor of 1.6, may be used. The hydrologic analysis shall use the existing land cover condition for predicting flow rates from tributary areas outside the project limits. For tributary areas on the project site, the analysis shall use the temporary or permanent project land cover condition, whichever will produce the highest flow rates. If using the WWHM to predict flows, bare soil areas should be modeled as "landscaped area."

ii. East of the Cascade Mountains Crest: Channels shall handle the expected peak flow velocity from a 6-month, 3-hour storm for the developed condition, referred to as the short duration storm.

b. *Stabilization*, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches shall be provided at the outlets of all conveyance systems.

9. Control Pollutants

a. All pollutants, including waste materials and demolition debris, that occur onsite shall be handled and disposed of in a manner that does not cause contamination of stormwater.

b. Cover, containment, and protection from vandalism shall be provided for all chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment. On-site fueling tanks shall include secondary containment.

c. Maintenance, fueling, and repair of heavy equipment and vehicles shall be conducted using spill prevention and control measures. Contaminated surfaces shall be cleaned immediately following any spill incident.

d. Wheel wash or tire bath wastewater shall be discharged to a separate on-site treatment system or to the *sanitary sewer* with local sewer district approval.

e. Application of fertilizers and pesticides, shall be conducted in a manner and at application rates that will not result in loss of chemical to stormwater runoff. Manufacturers' label requirements for application rates and procedures shall be followed.

f. BMPs shall be used to prevent or treat contamination of stormwater runoff by pH modifying sources. These sources include, but are not limited to: bulk cement, cement kiln dust, fly ash, new concrete washing and curing waters, waste streams generated from concrete grinding and sawing, exposed aggregate processes, dewatering concrete vaults, concrete pumping and mixer washout waters. Permittees shall adjust the pH of stormwater if necessary to prevent violations of water quality standards.

g. Permittees shall obtain written approval from Ecology prior to using chemical treatment, other than CO_2 or dry ice to adjust pH.

10. Control De-Watering

a. Foundation, vault, and trench de-watering water, which have similar characteristics to stormwater runoff at the site, shall be discharged into a controlled conveyance system prior to discharge to a sediment trap or sediment pond.

b. Clean, non-turbid de-watering water, such as well-point ground water, can be discharged to systems tributary to, or directly into surface waters of the state, as specified in S9.D.8, provided the de-watering flow does not cause erosion or flooding of receiving waters. Clean de-watering water should not be routed through stormwater sediment ponds.

c. Other de-watering disposal options may include:

i. infiltration

ii. transport offsite in a vehicle, such as a vacuum flush truck, for legal disposal in a manner that does not pollute state waters,

iii. Ecology-approved on-site chemical treatment or other suitable treatment technologies,

iv. sanitary sewer discharge with local sewer district approval, if there is no other option, or

v. use of a sedimentation bag with *outfall* to a ditch or swale for small volumes of localized de-watering.

d. Highly turbid or contaminated dewatering water shall be handled separately from stormwater.

11. Maintain BMPs

a. All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance of their intended function in accordance with BMP specifications.

b. All temporary erosion and sediment control BMPs shall be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed.

12. Manage the Project

    a. Development projects shall be phased to the maximum degree practicable and shall take into account seasonal work limitations.

    b. Inspection and Monitoring

       All BMPs shall be inspected, maintained, and repaired as needed to assure continued performance of their intended function. Site inspections and monitoring shall be conducted in accordance with S4.

    c. Maintaining an Updated Construction SWPPP

       The SWPPP shall be maintained, updated, and implemented in accordance with Conditions S3, S4 and S9.

E. SWPPP – Map Contents and Requirements

The SWPPP shall also include a vicinity map or general location map (e.g. USGS Quadrangle map, a portion of a county or city map, or other appropriate map) with enough detail to identify the location of the construction site and receiving waters within one mile of the site.

The SWPPP shall also include a legible site map (or maps) showing the entire construction site. The following features shall be identified, unless not applicable due to site conditions:

1. The direction of north, property lines, and existing structures and roads;
2. Cut and fill slopes indicating the top and bottom of slope catch lines;
3. Approximate slopes, contours, and direction of stormwater flow before and after major grading activities;
4. Areas of soil disturbance and areas that will not be disturbed;
5. Locations of structural and nonstructural controls (BMPs) identified in the SWPPP
6. Locations of off-site material, stockpiles, waste storage, borrow areas, and vehicle/equipment storage areas;
7. Locations of all surface water bodies, including wetlands;
8. Locations where stormwater or non-stormwater discharges off-site and/or to a surface water body, including wetlands;
9. Location of water quality sampling station(s), if sampling is required by state or local permitting authority; and

10. Areas where final stabilization has been accomplished and no further construction-phase permit requirements apply.

S10. NOTICE OF TERMINATION

A. The site is eligible for termination when either of the following conditions have been met:

1. The site has undergone final stabilization, all temporary BMPs have been removed, and all stormwater discharges associated with construction activity have been eliminated; or

2. All portions of the site which have not undergone final stabilization per S10.A.1 have been sold and/or transferred (per Condition G9), and the Permittee no longer has operational control of the construction activity.

B. When the site is eligible for termination, the Permittee shall submit a complete and accurate *Notice of Termination* (NOT) form, signed in accordance with General Condition G2, to:

Department of Ecology
Water Quality Program - Construction Stormwater
PO Box 47696
Olympia, Washington 98504-7696

C. The termination is effective on the date the NOT form was received by Ecology, unless the Permittee is notified by Ecology within 30 days that termination request is denied because the eligibility requirements in Condition S10.A have not been met.

GENERAL CONDITIONS

G1. DISCHARGE VIOLATIONS

All discharges and activities authorized by this general permit shall be consistent with the terms and conditions of this general permit. Any discharge of any pollutant more frequent than or at a level in excess of that identified and authorized by the general permit shall constitute a violation of the terms and conditions of this permit.

G2. SIGNATORY REQUIREMENTS

A. All permit applications shall bear a certification of correctness to be signed:

1. In the case of corporations, by a responsible corporate officer of at least the level of vice president of a corporation;

2. In the case of a partnership, by a general partner of a partnership;

3. In the case of sole proprietorship, by the proprietor; or

4. In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.

B. All reports required by this permit and other information requested by Ecology shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above and submitted to the Ecology.

2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

C. Changes to authorization. If an authorization under paragraph G2.B.2 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph G2.B.2 above shall be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.

D. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated

the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

G3. RIGHT OF INSPECTION AND ENTRY

The Permittee shall allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law:

A. To enter upon the premises where a discharge is located or where any records shall be kept under the terms and conditions of this permit.

B. To have access to and copy - at reasonable times and at reasonable cost - any records required to be kept under the terms and conditions of this permit.

C. To inspect - at reasonable times - any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.

D. To sample or monitor - at reasonable times - any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

G4. GENERAL PERMIT MODIFICATION AND REVOCATION

This permit may be modified, revoked and reissued, or terminated in accordance with the provisions of Chapter 173-226 WAC. Grounds for modification, revocation and reissuance, or termination include, but are not limited to, the following:

A. When a change which occurs in the technology or practices for control or abatement of pollutants applicable to the category of dischargers covered under this permit;

B. When effluent limitation guidelines or standards are promulgated pursuant to the CWA or Chapter 90.48 RCW, for the category of dischargers covered under this permit;

C. When a water quality management plan containing requirements applicable to the category of dischargers covered under this permit is approved; or

D. When information is obtained which indicates that cumulative effects on the environment from dischargers covered under this permit are unacceptable.

G5. REVOCATION OF COVERAGE UNDER THE PERMIT

Pursuant with Chapter 43.21B RCW and Chapter 173-226 WAC, the Director may terminate coverage for any discharger under this permit for cause. Cases where coverage may be terminated include, but are not limited to, the following:

A. Violation of any term or condition of this permit;

B. Obtaining coverage under this permit by misrepresentation or failure to disclose fully all relevant facts;

C. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;

D. Failure or refusal of the Permittee to allow entry as required in RCW 90.48.090;

E. A determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations;

F. Nonpayment of permit fees or penalties assessed pursuant to RCW 90.48.465 and Chapter 173-224 WAC;

G. Failure of the Permittee to satisfy the public notice requirements of WAC 173-226-130(5), when applicable.

The Director may require any discharger under this permit to apply for and obtain coverage under an individual permit or another more specific general permit. Permittees who have their coverage revoked for cause according to WAC 173-226-240 may request temporary coverage under this permit during the time an individual permit is being developed, provided the request is made within ninety (90) days from the time of revocation and is submitted along with a complete individual permit application form.

G6. REPORTING A CAUSE FOR MODIFICATION

The Permittee shall submit a new application, or a supplement to the previous application, whenever a material change to the construction activity or in the quantity or type of discharge is anticipated which is not specifically authorized by this permit. This application shall be submitted at least sixty (60) days prior to any proposed changes. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G7. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in this permit shall be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G8. DUTY TO REAPPLY

The Permittee shall apply for permit renewal at least 180 days prior to the specified expiration date of this permit.

G9. TRANSFER OF GENERAL PERMIT COVERAGE

Coverage under this general permit is automatically transferred to a new discharger, including operators of lots/parcels within a common plan of development or sale, if:

A. A written, signed agreement (Transfer of Coverage Form) between the current discharger (Permittee) and new discharger containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to the Director; and

B. The Director does not notify the current discharger and new discharger of the Director's intent to revoke coverage under the general permit. If this notice is not given, the transfer is effective on the date specified in the written agreement.

When a current discharger (Permittee) transfers a portion of a permitted site, the current discharger shall also submit an updated application form (NOI) to the Director indicating the remaining permitted acreage after the transfer. When a current discharger (Permittee) transfers all portions of a permitted site to one or more new dischargers, the current discharger shall also submit a notice of termination (NOT) form to the Director.

G10. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of stormwater shall not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

G11. DUTY TO PROVIDE INFORMATION

The Permittee shall submit to Ecology, within a reasonable time, all information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee shall also submit to Ecology upon request, copies of records required to be kept by this permit [40 CFR 122.41(h)].

G12. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G13. ADDITIONAL MONITORING

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G14. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars ($10,000) and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten

thousand dollars ($10,000) for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be deemed to be a separate and distinct violation.

G15. UPSET

Definition – "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that: 1) an upset occurred and that the Permittee can identify the cause(s) of the upset; 2) the permitted facility was being properly operated at the time of the upset; 3) the Permittee submitted notice of the upset as required in condition S5.F; and 4) the Permittee complied with any remedial measures required under this permit.

In any enforcement proceeding, the Permittee seeking to establish the occurrence of an upset has the burden of proof.

G16. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

G17. DUTY TO COMPLY

The Permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

G18. TOXIC POLLUTANTS

The Permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

G19. PENALTIES FOR TAMPERING

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this Condition, punishment shall be a fine of not more than $20,000 per day of violation, or imprisonment of not more than four (4) years, or both.

G20. REPORTING PLANNED CHANGES

The Permittee shall, as soon as possible, give notice to Ecology of planned physical alterations, modifications or additions to the permitted construction activity, which will result in:

A. The permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b);

B. A significant change in the nature or an increase in quantity of pollutants discharged, including but not limited to: for sites 5 acres or larger, a 20% or greater increase in acreage disturbed by construction activity;

C. A change in or addition of surface water(s) receiving stormwater or non-stormwater from the construction activity; or

D. A change in the construction plans and/or activity that affects the Permittee's monitoring requirements in Special Condition S4.

Following such notice, permit coverage may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

G21. REPORTING OTHER INFORMATION

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to Ecology, it shall promptly submit such facts or information.

G22. REPORTING ANTICIPATED NON-COMPLIANCE

The Permittee shall give advance notice to Ecology by submission of a new application or supplement thereto at least forty-five (45) days prior to commencement of such discharges, of any facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility or activity which may result in noncompliance with permit limits or conditions. Any maintenance of facilities, which might necessitate

unavoidable interruption of operation and degradation of effluent quality, shall be scheduled during non-critical water quality periods and carried out in a manner approved by Ecology.

G23. REQUESTS TO BE EXCLUDED FROM COVERAGE UNDER THE PERMIT

Any discharger authorized by this permit may request to be excluded from coverage under the general permit by applying for an individual permit. The discharger shall submit to the Director an application as described in WAC 173-220-040 or WAC 173-216-070, whichever is applicable, with reasons supporting the request. These reasons shall fully document how an individual permit will apply to the applicant in a way that the general permit cannot. Ecology may make specific requests for information to support the request. The Director shall either issue an individual permit or deny the request with a statement explaining the reason for the denial. When an individual permit is issued to a discharger otherwise subject to the construction stormwater general permit, the applicability of the construction stormwater general permit to that Permittee is automatically terminated on the effective date of the individual permit.

G24. APPEALS

A. The terms and conditions of this general permit, as they apply to the appropriate class of dischargers, are subject to appeal by any person within 30 days of issuance of this general permit, in accordance with Chapter 43.21B RCW, and Chapter 173-226 WAC.

B. The terms and conditions of this general permit, as they apply to an individual discharger, are appealable in accordance with Chapter 43.21B RCW within 30 days of the effective date of coverage of that discharger. Consideration of an appeal of general permit coverage of an individual discharger is limited to the general permit's applicability or nonapplicability to that individual discharger.

C. The appeal of general permit coverage of an individual discharger does not affect any other dischargers covered under this general permit. If the terms and conditions of this general permit are found to be inapplicable to any individual discharger(s), the matter shall be remanded to Ecology for consideration of issuance of an individual permit or permits.

G25. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

G26. BYPASS PROHIBITED

A. Bypass Procedures
Bypass, which is the intentional diversion of waste streams from any portion of a treatment facility, is prohibited for stormwater events below the design criteria for

stormwater management. Ecology may take enforcement action against a Permittee for bypass unless one of the following circumstances (1, 2, 3 or 4) is applicable.

1. Bypass of stormwater is consistent with the design criteria and part of an approved management practice in the applicable stormwater management manual.

2. Bypass for essential maintenance without the potential to cause violation of permit limits or conditions.

   Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of this permit, or adversely impact public health.

3. Bypass of stormwater is unavoidable, unanticipated, and results in noncompliance of this permit.

   This bypass is permitted only if:

   a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass;

   b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, maintenance during normal periods of equipment downtime (but not if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance), or transport of untreated wastes to another treatment facility; and

   c. Ecology is properly notified of the bypass as required in Special Condition S5.F of this permit.

4. A planned action that would cause bypass of stormwater and has the potential to result in noncompliance of this permit during a storm event.

   The Permittee shall notify Ecology at least thirty (30) days before the planned date of bypass. The notice shall contain:

   a. a description of the bypass and its cause;

   b. an analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing;

   c. a cost-effectiveness analysis of alternatives including comparative resource damage assessment;

   d. the minimum and maximum duration of bypass under each alternative;

   e. a recommendation as to the preferred alternative for conducting the bypass;

f. the projected date of bypass initiation;

g. a statement of compliance with *SEPA*;

h. a request for modification of water quality standards as provided for in WAC 173-201A-110, if an exceedance of any water quality standard is anticipated; and

i. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.

5. For probable construction bypasses, the need to bypass is to be identified as early in the planning process as possible. The analysis required above shall be considered during preparation of the Stormwater Pollution Prevention Plan (SWPPP) and shall be included to the extent practical. In cases where the probable need to bypass is determined early, continued analysis is necessary up to and including the construction period in an effort to minimize or eliminate the bypass.

   Ecology will consider the following prior to issuing an administrative order for this type bypass:

   a. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of this permit.

   b. If there are feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.

   c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

   After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, Ecology will approve, conditionally approve, or deny the request. The public shall be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Approval of a request to bypass will be by administrative order issued by Ecology under RCW 90.48.120.

B. Duty to Mitigate

The Permittee is required to take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

APPENDIX A – DEFINITIONS

AKART is an acronym for "all known, available, and reasonable methods of prevention, control, and treatment." AKART represents the most current methodology that can be reasonably required for preventing, controlling, or abating the pollutants and controlling pollution associated with a discharge.

Applicable TMDL means a TMDL for turbidity, fine sediment, high pH, or phosphorus, which has been completed and approved by EPA prior to November 16, 2005, or prior to the date the operator's complete permit application is received by Ecology, whichever is later.

Applicant means an *operator* seeking coverage under this permit.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other physical, structural and/or managerial practices to prevent or reduce the pollution of waters of the state. BMPs include treatment systems, operating procedures, and practices to control: stormwater associated with construction activity, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Buffer means an area designated by a local jurisdiction that is contiguous to and intended to protect a sensitive area

Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

Calendar Week (same as *Week*) means a period of seven consecutive days starting on Sunday.

Certified Erosion and Sediment Control Lead (CESCL) means a person who has current certification through an approved erosion and sediment control training program that meets the minimum training standards established by Ecology (see BMP C160 in the SWMM).

Clean Water Act (CWA) means the Federal Water Pollution Control Act enacted by Public Law 92-500, as amended by Public Laws 95-217, 95-576, 96-483, and 97-117; USC 1251 et seq.

Combined Sewer means a sewer which has been designed to serve as a sanitary sewer and a storm sewer, and into which inflow is allowed by local ordinance.

Common plan of development or sale means a site where multiple separate and distinct construction activities may be taking place at different times on different schedules, but still under a single plan. Examples include: 1) phased projects and projects with multiple filings or lots, even if the separate phases or filings/lots will be constructed under separate contract or by separate owners (e.g., a development where lots are sold to separate builders); 2) a development plan that may be phased over multiple years, but is still under a consistent plan for long-term development; and 3) projects in a contiguous area that may be unrelated but still under the same contract, such as construction of a building extension and a new parking lot at the same facility.

If the project is part of a common plan of development or sale, the disturbed area of the entire plan shall be used in determining permit requirements.

Composite Sample A mixture of grab samples collected at the same sampling point at different times, formed either by continuous sampling or by mixing discrete samples. May be "time-composite" (collected at constant time intervals) or "flow-proportional" (collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquots.

Construction Activity means land disturbing operations including clearing, grading or excavation which disturbs the surface of the land. Such activities may include road construction, construction of residential houses, office buildings, or industrial buildings, and demolition activity.

Demonstrably Equivalent means that the technical basis for the selection of all stormwater BMPs is documented within a SWPPP, including:

1. The method and reasons for choosing the stormwater BMPs selected;
2. The pollutant removal performance expected from the BMPs selected;
3. The technical basis supporting the performance claims for the BMPs selected, including any available data concerning field performance of the BMPs selected;
4. An assessment of how the selected BMPs will comply with state water quality standards; and
5. An assessment of how the selected BMPs will satisfy both applicable federal technology-based treatment requirements and state requirements to use all known, available, and reasonable methods of prevention, control, and treatment (AKART).

Department means the Washington State Department of Ecology.

Detention means the temporary storage of stormwater to improve quality and/or to reduce the mass flow rate of discharge.

De-watering means the act of pumping ground water or stormwater away from an active construction site.

Director means the Director of the Washington Department of Ecology or his/her authorized representative.

Discharger means an owner or operator of any facility or activity subject to regulation under Chapter 90.48 RCW or the Federal Clean Water Act.

Domestic Wastewater means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments, or other places, together with such ground water infiltration or surface waters as may be present.

Engineered soils The use of soil amendments including, but not limited, to Portland cement treated base (CTB), cement kiln dust (CKD), or fly ash to achieve certain desirable soil characteristics.

Equivalent BMPs means operational, source control, treatment, or innovative BMPs which result in equal or better quality of stormwater discharge to surface water or to ground water than BMPs selected from the SWMM.

Erosion means the wearing away of the land surface by running water, wind, ice, or other geological agents, including such processes as gravitational creep.

Erosion and Sediment Control BMPs means BMPs that are intended to prevent erosion and sedimentation, such as preserving natural vegetation, seeding, mulching and matting, plastic covering, filter fences, sediment traps, and ponds. Erosion and sediment control BMPs are synonymous with stabilization and structural BMPs.

Final Stabilization (same as *fully stabilized* or *full stabilization*) means the establishment of a permanent vegetative cover, or equivalent permanent stabilization measures (such as riprap, gabions or geotextiles) which prevents erosion.

Ground Water means water in a saturated zone or stratum beneath the land surface or a surface water body.

Injection well means a "well" that is used for the subsurface emplacement of fluids. (see *Well*)

Jurisdiction means a political unit such as a city, town or county; incorporated for local self-government.

National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of the Federal Clean Water Act, for the discharge of pollutants to surface waters of the state from point sources. These permits are referred to as NPDES permits and, in Washington State, are administered by the Washington Department of Ecology.

Notice of Intent (NOI) means the application for, or a request for coverage under this general permit pursuant to WAC 173-226-200.

Notice of Termination (NOT) means a request for termination of coverage under this general permit as specified by Special Condition S10 of this permit.

Operator means any party associated with a construction project that meets either of the following two criteria:
1. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or

2. The party has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWPPP or comply with other permit conditions).

Outfall means the location where stormwater leaves the site. It also includes the location where stormwater is discharged to a surface waterbody within a site, but does not include discharges to on-site stormwater treatment/infiltration devices or storm sewer systems.

Permittee means individual or entity that receives notice of coverage under this general permit.

pH means a liquid's acidity or alkalinity. A pH of 7 is defined as neutral. Large variations above or below this value are considered harmful to most aquatic life.

pH Monitoring Period means the time period in which the pH of stormwater runoff from a site shall be tested a minimum of once every seven days to determine if stormwater is above pH 8.5.

Point Source means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, and container from which pollutants are or may be discharged to surface waters of the state. This term does not include return flows from irrigated agriculture. (See Fact Sheet for further explanation.)

Pollutant means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, domestic sewage sludge (biosolids), munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste. This term does not include sewage from vessels within the meaning of section 312 of the CWA, nor does it include dredged or fill material discharged in accordance with a permit issued under section 404 of the CWA.

Pollution means contamination or other alteration of the physical, chemical, or biological properties of waters of the state; including change in temperature, taste, color, turbidity, or odor of the waters; or such discharge of any liquid, gaseous, solid, radioactive or other substance into any waters of the state as will or is likely to create a nuisance or render such waters harmful, detrimental or injurious to the public health, safety or welfare; or to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial uses; or to livestock, wild animals, birds, fish or other aquatic life.

Receiving Water means the waterbody at the point of discharge. If the discharge is to a storm sewer system, either surface or subsurface, the receiving water is the waterbody that the storm sewer system discharges to. Systems designed primarily for other purposes such as for ground water drainage, redirecting stream natural flows, or for conveyance of irrigation water/return flows that coincidentally convey stormwater are considered the receiving water.

Representative means a stormwater or wastewater sample which represents the flow and characteristics of the discharge. Representative samples may be a grab sample, a time-proportionate *composite sample*, or a flow proportionate sample. Ecology's Construction Stormwater Monitoring Manual provides guidance on representative sampling.

Sanitary Sewer means a sewer which is designed to convey *domestic wastewater*.

Sediment means the fragmented material that originates from the weathering and erosion of rocks or unconsolidated deposits, and is transported by, suspended in, or deposited by water.

Sedimentation means the depositing or formation of sediment.

Sensitive area means a waterbody, wetland, stream, aquifer recharge area, or channel migration zone.

SEPA (State Environmental Policy Act) means the Washington State Law, RCW 43.21C.020, intended to prevent or eliminate damage to the environment.

Significant Amount means an amount of a pollutant in a discharge that is amenable to available and reasonable methods of prevention or treatment; or an amount of a pollutant that has a reasonable potential to cause a violation of surface or ground water quality or sediment management standards.

Significant Concrete Work means greater than 1000 cubic yards poured concrete or recycled concrete.

Significant Contributor of Pollutants means a facility determined by Ecology to be a contributor of a *significant amount*(s) of a pollutant(s) to waters of the state of Washington.

Site means the land or water area where any "facility or activity" is physically located or conducted.

Source Control BMPs means physical, structural or mechanical devices or facilities that are intended to prevent pollutants from entering stormwater. A few examples of source control BMPs are erosion control practices, maintenance of stormwater facilities, constructing roofs over storage and working areas, and directing wash water and similar discharges to the sanitary sewer or a dead end sump.

Stabilization means the application of appropriate BMPs to prevent the erosion of soils, such as, temporary and permanent seeding, vegetative covers, mulching and matting, plastic covering and sodding. See also the definition of Erosion and Sediment Control BMPs.

Storm Drain means any drain which drains directly into a *storm sewer system*, usually found along roadways or in parking lots.

Storm Sewer System means a means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains designed or used for collecting or conveying stormwater. This does not include systems which are part of a *combined sewer* or Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Stormwater means that portion of precipitation that does not naturally percolate into the ground or evaporate, but flows via overland flow, interflow, pipes, and other features of a stormwater drainage system into a defined surface water body, or a constructed infiltration facility.

Stormwater Management Manual (SWMM) or Manual means the technical manual published by Ecology for use by local governments that contain descriptions of and design criteria for BMPs to prevent, control, or treat pollutants in stormwater.

Stormwater Pollution Prevention Plan (SWPPP) means a documented plan to implement measures to identify, prevent, and control the contamination of point source discharges of stormwater.

Surface Waters of the State includes lakes, rivers, ponds, streams, inland waters, salt waters, and all other surface waters and water courses within the jurisdiction of the state of Washington.

Total Maximum Daily Load (TMDL) means a calculation of the maximum amount of a *pollutant* that a waterbody can receive and still meet state water quality standards. Percentages of the total maximum daily load are allocated to the various pollutant sources. A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. The TMDL calculations shall include a "margin of safety" to ensure that the waterbody can be protected in case there are unforeseen events or unknown sources of the pollutant. The calculation shall also account for seasonable variation in water quality.

Treatment BMPs means BMPs that are intended to remove pollutants from stormwater. A few examples of treatment BMPs are detention ponds, oil/water separators, biofiltration, and constructed wetlands.

Transparency means a measurement of water clarity in centimeters (cm), using a 60 cm. transparency tube. The transparency tube is used to estimate the relative clarity or transparency of water by noting the depth at which a black and white Secchi disc becomes visible when water is released from a value in the bottom of the tube. A transparency tube is sometimes referred to as a "turbidity tube".

Turbidity The clarity of water expressed as nephelometric turbidity units (NTU) and measured with a calibrated turbidimeter.

Waste Load Allocation (WLA) means the portion of a receiving water's loading capacity that is allocated to one of its existing or future point sources of pollution. WLAs constitute a type of water quality based effluent limitation (40 CFR 130.2(h)).

Water Quality means the chemical, physical, and biological characteristics of water, usually with respect to its suitability for a particular purpose.

Waters of the State includes those waters as defined as "waters of the United States" in 40 CFR Subpart 122.2 within the geographic boundaries of Washington State and "waters of the state" as

defined in Chapter 90.48 RCW which include lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and water courses within the jurisdiction of the state of Washington.

Well means a bored, drilled or driven shaft, or dug hole whose depth is greater than the largest surface dimension. (see *Injection Well*)

APPENDIX B – ACRONYMS

AKART	All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment
BMP	Best Management Practice
CESCL	Certified Erosion and Sediment Control Lead
CFR	Code of Federal Regulations
CKD	Cement Kiln Dust
cm	Centimeters
CTB	Cement Treated Base
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	Environmental Protection Agency
ESC	Erosion and Sediment Control
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric Turbidity Unit
RCW	Revised Code of Washington
SEPA	State Environmental Policy Act
SWMM	Stormwater Management Manual
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UIC	Underground Injection Control
USC	United States Code
USEPA	United States Environmental Protection Agency
WAC	Washington Administrative Code
WQ	Water Quality
WWHM	Western Washington Hydrology Model

Appendix E – Site Inspection Forms (and Site Log)

The results of each inspection shall be summarized in an inspection report or checklist that is entered into or attached to the site log book. It is suggested that the inspection report or checklist be included in this appendix to keep monitoring and inspection information in one document, but this is optional. However, it is mandatory that this SWPPP and the site inspection forms be kept onsite at all times during construction, and that inspections be performed and documented as outlined below.

At a minimum, each inspection report or checklist shall include:

a. Inspection date/times

b. Weather information: general conditions during inspection, approximate amount of precipitation since the last inspection, and approximate amount of precipitation within the last 24 hours.

c. A summary or list of all BMPs that have been implemented, including observations of all erosion/sediment control structures or practices.

d. The following shall be noted:

i. locations of BMPs inspected,

ii. locations of BMPs that need maintenance,

iii. the reason maintenance is needed,

iv. locations of BMPs that failed to operate as designed or intended, and

v. locations where additional or different BMPs are needed, and the reason(s) why

e. A description of stormwater discharged from the site. The presence of suspended sediment, turbid water, discoloration, and/or oil sheen shall be noted, as applicable.

f. A description of any water quality monitoring performed during inspection, and the results of that monitoring.

g. General comments and notes, including a brief description of any BMP r repairs, maintenance or installations made as a result of the inspection.

h. A statement that, in the judgment of the person conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the SWPPP and the NPDES

permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance, as well as a schedule of implementation.

i. Name, title, and signature of person conducting the site inspection; and the following statement: "I certify under penalty of law that this report is true, accurate, and complete, to the best of my knowledge and belief".

When the site inspection indicates that the site is not in compliance with any terms and conditions of the NPDES permit, the Permittee shall take immediate action(s) to: stop, contain, and clean up the unauthorized discharges, or otherwise stop the noncompliance; correct the problem(s); implement appropriate Best Management Practices (BMPs), and/or conduct maintenance of existing BMPs; and achieve compliance with all applicable standards and permit conditions. In addition, if the noncompliance causes a threat to human health or the environment, the Permittee shall comply with the Noncompliance Notification requirements in Special Condition S5.F of the permit.

Construction Stormwater
SITE INSPECTION CHECKLIST

Project - Former Scott Paper Mill Cleanup Project – Phase #4A Permit - WAR-011650
Inspector - _____ Date_____ Time_____

Site BMPs	Overall Condition			Need Repair?		Comments/Observations
Clearing Limits						
●*Buffer Zones around sensitive areas*	G	F	P	Y	N	
●	G	F	P	Y	N	
●	G	F	P	Y	N	
Construction Access/Roads						
●*Stabilized site entrance*	G	F	P	Y	N	
●*Stabilized roads/parking area*	G	F	P	Y	N	
●	G	F	P	Y	N	
Control Flow Rates						
●*Swale*	G	F	P	Y	N	
●*Dike*	G	F	P	Y	N	
●*Sediment pond*	G	F	P	Y	N	
●*Sediment trap*	G	F	P	Y	N	
●	G	F	P	Y	N	
●	G	F	P	Y	N	
Install Sediment Controls						
●*Sediment pond/trap*	G	F	P	Y	N	
●*Silt fence*	G	F	P	Y	N	
●*Straw bale barriers*	G	F	P	Y	N	
●	G	F	P	Y	N	
●	G	F	P	Y	N	
●	G	F	P	Y	N	
Preserve Vegetation/Stabilize Soils						
●*Nets and blankets*	G	F	P	Y	N	
●*Mulch*	G	F	P	Y	N	
●*Seeding*	G	F	P	Y	N	
●	G	F	P	Y	N	
●	G	F	P	Y	N	
Protect Slopes						
●*Terrace*	G	F	P	Y	N	
●*Pipe slope drains*	G	F	P	Y	N	
●	G	F	P	Y	N	
●	G	F	P	Y	N	
Protect Drain Inlets						
●*Inserts*	G	F	P	Y	N	
●	G	F	P	Y	N	
●	G	F	P	Y	N	
Stabilize Channels and Outlets						
●*Conveyance channels*	G	F	P	Y	N	
●*Energy dissipators*	G	F	P	Y	N	
●	G	F	P	Y	N	
Control Pollutants						
●*Chemical Storage Area covered*	G	F	P	Y	N	
●*Concrete handling*	G	F	P	Y	N	
●	G	F	P	Y	N	
Control De-watering						
●	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Construction Stormwater
SITE INSPECTION CHECKLIST

Project - Former Scott Paper Mill Cleanup Project – Phase #4A Permit - WAR-011650
Inspector - _____ Date_____ Time_____

Will existing BMPs need to be modified or removed, or other BMPs installed? YES NO
IF YES, list the action items to be completed on the following table:

Actions to be Completed	Date Completed/ Initials
1.	
2.	
3.	
4.	
5.	
6.	

Describe current weather conditions

Approximate amount of precipitation since last inspection: _____ inches
and precipitation in the past 24 hours*: _____inches
**based on an on-site rain gauge or local weather data.*

Describe discharging stormwater, if present. Note the presence of suspended sediment, "cloudiness", discoloration, or oil sheen.

Was water quality sampling part of this inspection? YES NO
If yes, record results below (attach separate sheet, if necessary):

Parameter:	Method (circle one)	Result	Units
Turbidity	tube, meter, laboratory		NTU (cm, if tube used)
pH	paper, kit, meter		pH standard units

Is the site in compliance with the SWPPP and the permit requirements? YES NO
If no, indicate tasks necessary to bring site into compliance on the "Actions to be Completed" table above, and include dates each job WILL BE COMPLETED.
If no, has the non-compliance been reported to Dept. of Ecology? YES NO
If no, should the SWPPP be modified: YES NO

Sign the following certification:
"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Inspection completed on:_____ by: (print+signature)_____

Title/Qualification of Inspector:_____

APPENDIX C
DAILY CONSTRUCTION OBSERVATION LOGS

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	1/2/2010
Notice to Proceed:	12/1/2009
Prepared By:	Lou Ivcevic (PM)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**12/27/2009**	**12/28/2009**	**12/29/2009**	**12/30/2009**	**12/31/2009**	**1/1/2010**	**1/2/2010**
Description -	Clear	Partly Cloudy	Clear	Overcast	Mostly Cloudy	Overcast	Overcast
Precipitation* -	-	-	-	.04"	.14"	.14"	.02"

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	-	-	-	-	-
Pacific Survey -	-	2	-	-	-	-	-
Celorie Bros Trucking-	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	x	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	x	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - PSE (Survey Crew) topo of MJB #4 re-dig excavation. Placed excavation marker and backfilled with stockpiled quarry spalls and crushed rock. MJB #4 backfilled to preexisting grades. No conflicts with Phase #2 contractor (CUI).

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - NO WORK

Friday - NEW YEARS DAY

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	0	0	0
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	4	0	4
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	0	0	0
Remedial Excavation	CY	2450	61.2	0	61.2
Contaminated Waste Transport & Disp.	TN	4040	120.17	0	120.17
Excavation Marker	SF	1000	616	374	990
Quarry Spalls	TON	3600	90.73	0	90.73
Crushed Rock	TON	440	79.28	0	79.28

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	1/9/2010
Notice to Proceed:	12/1/2009
Prepared By:	Lou Ivcevic (PM)

	Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
Weather	**1/3/2010**	**1/4/2010**	**1/5/2010**	**1/6/2010**	**1/7/2010**	**1/8/2010**	**1/9/2010**
Description -	Partly Cloudy	Rainy	Mostly Cloudy	Overcast	Clear	Mostly Cloudy	Overcast
Precipitation* -	.01"	.72"	.12"	-	-	.43"	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	2	3	2	2	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Bros Trucking-	-	13	15	13	13	8	-
Holocene Drilling -	-	-	-	1	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	x	x	x	x	x	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	x	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Re-marked survey lines & utility locates prior to excavation. Excavated MJB #3 to bottom of black rock as directed by Bud.
Started on MJB #1 excavation. Dug to bottom of black rock as directed by Bud. Didn't excavate MJB #2 in fear of excavation filling with water because of rain. Loaded waste directly into Celorie Bros. trucks and hauled to WM (26 loads total).

Tuesday - Continued excavation & haulout of MJB #1. Excavated to depth of approx. 3 ft as directed by Bud & Rebecca (bottom of black rock).
Bud & Rebecca took samples of MJB #2 & 3 @ 3:00pm (taken to lab). 15 Celorie Bros. trucks hauled 2 loads each (30 loads).

Wednesday - Continued excavation & haulout of MJB #1. Dug an additional approx. 70 cy from the south west corner of MJB #1.
Holocene Drilling onsite to decomission monitoring well in MJB #1 (completed in approx. 30 minutes around 2:30pm).
Bud directed Britt to leave concrete along the west fence line in place because no rock appeared to be underneath.
Broke up concrete with Kubota "mini" breaker (4 HRS) & stockpiled. Celorie Bros. hauled 27 loads to Waste Management.
Conducted stormwater inspection, sampled discharge (13.2 NTU) & completed inspection report.

Thursday - Continued excavation & haulout of MJB #1. Finished north end of MJB #1 and continued along west end next to fence line.
Installed 1 additional CB inlet protection. Celorie Bros hauled 23 loads to Waste Management.
Steel piping found running along north end of MJB#1. 1.5" & 2" determined to be abandond (Bud & crew) & removed.
Stockpiled steel until further direction (RFI sent via email) & cut off at northeast end of MJB #1.

Friday - Finished excavation of MJB#1. Celorie Bros. hauled 9 loads to Waste Management. Approximatley 15 tons stockpiled onsite, encased in 6 mil visqueen until further excavation is determined. Bud sampled sidewalls and will begin testing the bottom of MJB #1 on Monday. 1 additional inlet protection installed.

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	0	1	1
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	4	2	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	0	1	1
Remedial Excavation*	CY	2450	61.2	1915	1976.2
Contaminated Waste Transport & Disp.	TN	4040	120.17	3754.78	3874.95
Excavation Marker	SF	1000	990	0	990
Quarry Spalls	TON	3600	90.73	0	90.73
Crushed Rock	TON	440	79.28	0	79.28

***Remedial Excavation weekly quantity to be verified by survey (approximate quantity shown)**

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	1/16/2010
Notice to Proceed:	12/1/2009
Prepared By:	Lou Ivcevic (PM)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**1/10/2010**	**1/11/2010**	**1/12/2010**	**1/13/2010**	**1/14/2010**	**1/15/2010**	**1/16/2010**
Description -	Partly Cloudy	Rain/Wind	Overcast	Mostly Cloudy	Cloudy/Wind	Rain/Wind	Overcast
Precipitation* -	-	.18"	.04"	.04"	0.05"	.06"	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	3	2	-	1	-	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Bros Trucking-	-	1	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	x	x	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Hauled out remaining load of waste from MJB #1 with Celorie Bros. (material was left over from excavation on Friday).
Hauled out concrete debri from MJB#1 (19.33ton) to Lakeside Industries w/ Ram Dump Truck (Y85).
Crew offsite 11:30am.

Tuesday - Took stormwater sample (6.77 NTU) & completed weekly inspection report.
Imported 15 ecology block in preperation of soil containment bunker.
No excavation or hauloff.

Wednesday - NO WORK

Thursday - Repaired safety fencing from wind damage.
No excavation or hauloff.

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	1	1	2
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	1939.6	17	1956.6
Contaminated Waste Transport & Disp.	TN	4040	3805.16	32.72	3837.88
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	26	0	26
Crushed Rock	TON	440	20	0	20

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	1/23/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**1/17/2010**	**1/18/2010**	**1/19/2010**	**1/20/2010**	**1/21/2010**	**1/22/2010**	**1/23/2010**
Description -	Cloudy/Wind	Showers/Wind	Clear	Clear	Partly Cloudy	Clear	Overcast
Precipitation* -	-	.01"	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Brothers -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting
ESC- Sampled Stormwater Discharge - 2.20 NTU @ 12:45PM

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	2	1	3
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	1956.6	0	1956.6
Contaminated Waste Transport & Disp.	TN	4040	3837.88	0	3837.88
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	26	0	26
Crushed Rock	TON	440	20	0	20

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	1/30/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**1/24/2010**	**1/25/2010**	**1/26/2010**	**1/27/2010**	**1/28/2010**	**1/29/2010**	**1/30/2010**
Description -	Showers	Overcast	Clear	Clear	Clear	Clear	Cloudy/Rain
Precipitation* -	.07"	-	-	-	-	-	.11"

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	2	-	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Brothers -	-	-	-	-	2	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting
ESC- Sampled Stormwater Discharge - 8.930 NTU @ 1:30PM

Wednesday - NO WORK

Thursday - Excavated additional section from MJB #1 and overburden from additional excavation @ MJB #2.
Hauled out material directly with Celorie Bros (2 truck & trailer loads).
Dug two test pits around MJB#2 per Bud's direction to test outer limits. Bud took samples of additional excavation & test pits.

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	3	1	4
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation*	CY	2450	1956.6	35	1991.6
Contaminated Waste Transport & Disp.	TN	4040	3837.88	67.02	3904.9
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	26	0	26
Crushed Rock	TON	440	20	0	20

***Remedial Excavation weekly quantity to be verified by survey (approximate quantity shown)**

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	2/6/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**1/31/2010**	**2/1/2010**	**2/2/2010**	**2/3/2010**	**2/4/2010**	**2/5/2010**	**2/6/2010**
Description -	Overcast/Rain	Mostly Cloudy	Mostly Cloudy	Overcast	Clear	Partly Cloudy	Clear
Precipitation* -	.08"	.03"	.01"	.01"	-	.05"	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	-	-	2	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Brothers -	-	-	-	-	-	3	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	x	-	-	x	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting. ESC Lead - Discharge sample taken: 2.6 NTU
Dug another test pit along the southwest end of MJB #2 per Rebecca's direction. Samples taken by Bud.
No additional excavation activities.

Wednesday - NO WORK

Thursday - NO WORK

Friday - Continued MJB #1 excavation. Additional 50' x 25' "L" shape excavation along the central south end of the original excavation.
Hauled 3 truck & trailer loads waste to Waste Management with Celorie Bros.
Additional samples taken by Bud.

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	4	1	5
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation*	CY	2450	1991.6	48	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3904.9	91.05	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	26	0	26
Crushed Rock	TON	440	20	0	20

***Remedial Excavation weekly quantity to be verified by survey (approximate quantity shown)**

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	2/13/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**2/7/2010**	**2/8/2010**	**2/9/2010**	**2/10/2010**	**2/11/2010**	**2/12/2010**	**2/13/2010**
Description -	Overcast	Partly Cloudy	Clear	Overcast	Overcast	Mostly Cloudy	Partly Cloudy
Precipitation* -	.04"	.02"	-	.01"	.04"	.03"	.02"

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	-	-	-	-
Pacific Survey -	-	-	2	-	-	-	-
Celorie Brothers -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting. ESC Lead - Discharge sample taken: 4.11 NTU
PSE Survey crew onsite to topo MJB #1, MJB #2 & MJB #3 excavations prior to backfilling.

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	5	1	6
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation*	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	26	0	26
Crushed Rock	TON	440	20	0	20

***Quantity Verified by Survey**

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	2/20/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**2/14/2010**	**2/15/2010**	**2/16/2010**	**2/17/2010**	**2/18/2010**	**2/19/2010**	**2/20/2010**
Description -	Showers	Clear	Mostly Cloudy	Clear	Clear	Clear	Clear
Precipitation* -	.16"	-	.14"	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	3	3	-	-	-	-
Pacific Survey -	-	-	-	-	-	2	-
Celorie Brothers -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	x	x	-	-	-	-
John Deere 544H (L01)-	-	x	x	-	-	-	-
John Deere 650H (D01)-	-	x	x	-	-	-	-
Dynapac CA151 (C02)-	-	x	x	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - MJB #1 backfilling activities. 1,323.20 Ton of quarry spalls delivered, placed & compacted.
MJB #2 Test Pits w/ Rebecca (Force Account) - Britt (9 HRS), ZX200 (7.5 HRS), Foreman Truck (9 HRS).

Tuesday - Weekly Meeting. ESC Lead - Discharge sample taken: 14.1 NTU
Continued backfilling activities (MJB #1). 569.35 Ton Quarry Spalls & 435.36 Ton Crushed Rock.
Completed backfill to within approximately 50 ft of MJB #2.

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK
PSE Survey crew took existing ground topo of area between MJB #2 and MJB #3.

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	5	1	6
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	1968.6	0	1968.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	26	1892.55	1918.55
Crushed Rock	TON	440	20	435.36	455.36
Force Account	FA	$10,000.00	$0.00	$1,845.29	$1,845.29

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	2/27/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**2/21/2010**	**2/22/2010**	**2/23/2010**	**2/24/2010**	**2/25/2010**	**2/26/2010**	**2/27/2010**
Description -	Clear	Clear	Cloudy/Showers	Rain	Overcast	Overcast	Mostly Cloudy
Precipitation* -	-	-	.03"	0.13"	-	.05"	.09"

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Brothers -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting. ESC Lead - Discharge sample taken: 2.72 NTU

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	7	1	8
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$1,845.29	$0.00	$1,845.29

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	3/6/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**2/28/2010**	**3/1/2010**	**3/2/2010**	**3/3/2010**	**3/4/2010**	**3/5/2010**	**3/6/2010**
Description -	Clear	Clear	Showers	Overcast	Clear	Clear	Clear
Precipitation* -	-	-	.08"	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Brothers -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting. ESC Lead - Discharge sample taken: 2.41 NTU

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	8	1	9
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$1,845.29	$0.00	$1,845.29

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	3/12/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**3/6/2011**	**3/7/2011**	**3/8/2011**	**3/9/2011**	**3/10/2011**	**3/11/2011**	**3/12/2011**
Description -	Overcast	Clear	Overcast	Light Rain/Wind	Overcast	Overcast	Overcast
Precipitation* -	-	-	-	-		-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	-	2	-	-	-
Pacific Survey -	-	-	2	-	-	-	-
R Transport -	-	4	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	x	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	x	-	-	-	-	-
Hitachi ZX450 (E07)-	-	x	-	x	-	-	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Excavated MJB6 start box to 3' deep. 4 truck and trailers directly loaded and hauled to Subtitle D. Excavated additional 1' deep area within RA11B per Anchor direction and stockpiled within containment bunker. Dewatered RA11b to MJB6 excavation. Approximately 100 CY's total excavated. Covered bunker with 6 mil plastic sheeting. Crew onsite 7:00 am to 1:00 pm

Tuesday - PSE Survey crew onsite to base map excavations prior to backfill. Crew onsite 8:00 am to 11:30 pm.

Wednesday - ESC Lead - Inspection report done - 7.96 NTU discharge Imported pitrun fill with Concrete Nor'West trucking. Backfilled RA11B excavation with import pitrun. Dewatered prior to backfill into MJB6 excavation. Placed marker fabric prior to placement of pitrun. Compacted in lifts. Imported and placed 771.74 ton pitrun and embanked 61 Cy's of stockpiled clean overburden material. Stockpiled 5 loads (162.23 ton) pitrun near MJB6 for future backfill use. Crew onsite 7:30 am to 5:00 pm

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	3/19/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**3/13/2011**	**3/14/2011**	**3/15/2011**	**3/16/2011**	**3/17/2011**	**3/18/2011**	**3/19/2011**
Description -	Overcast	Overcast	Overcast/Wind	Late Rain	Overcast	Overcast	Overcast
Precipitation* -	-	-	-	-		-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	5	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	x	-	-	-	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - ESC Lead - Inspection report done - 5.08 NTU discharge
Excavated addition area (87.2 CY's) within MJB6 per Anchor direction.
Loaded out material directly into 5 truck and trailers and hauled to Subtitle D for disposal.
Placed safety berm around excavation with stockpiled pitrun. Crew onsite 8:00 am to 12:00 pm

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	56	1	57
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	0	0	0
Transport & Dispose to Subtitle D	TON	1485	0	0	0
Reload of Materials for Offsite Disposal	TON	1485	0	0	0
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	66.2	87.2	153.4
Transport & Dispose to Subtitle D	TON	1250	130.7	158.05	288.75
Pitrun	TON	0	162.23	0	162.23
Quarry Spalls	TON	1150	0	0	0
Crushed Rock	TON	100	0	0	0
Excavate, Stockpile Haulroad	TON	500	0	0	0
Excavation Marker	SF	1250	0	0	0
Maintain Wheel Wash	EA	2	0	0	0
Move Wheel Wash to POA Facility	LS	1	0	0	0
Force Account	FA	$10,000.00	$0.00	$0.00	$0.00

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	55	1	56
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	512.5	31.3	543.8
Onsite Soils Treatment	TON	1485	0	0	0
Transport & Dispose to Subtitle D	TON	1485	0	0	0
Reload of Materials for Offsite Disposal	TON	1485	0	0	0
Embank & Compact Onsite Soils	CY	450	55	61	116
Pitrun	TON	1250	32.19	771.74	803.93
Excavation Marker	SF	3000	250	1920	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	0	66.2	66.2
Transport & Dispose to Subtitle D	TON	1250	0	130.7	130.7
Pitrun	TON	0	0	162.23	162.23
Quarry Spalls	TON	1150	0	0	0
Crushed Rock	TON	100	0	0	0
Excavate, Stockpile Haulroad	TON	500	0	0	0
Excavation Marker	SF	1250	0	0	0
Maintain Wheel Wash	EA	2	0	0	0
Move Wheel Wash to POA Facility	LS	1	0	0	0
Force Account	FA	$10,000.00	$0.00	$0.00	$0.00

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	4/16/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**4/10/2011**	**4/11/2011**	**4/12/2011**	**4/13/2011**	**4/14/2011**	**4/15/2011**	**4/16/2011**
Description -	Overnight Rain	Mostly Cloudy	Mostly Cloudy	Overcast	Rain Showers	Overcast	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	2	2	2	2	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	1	-	-
ADT Environmental	-	-	2	2	2	2	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	x	x	x	-	-	-
Dynapac CA151 (C02)-	-	x	x	x	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	x	x	x	-	-	-
Hitachi ZX450 (E07)-	-	x	x	-	x	x	-
Water Truck (WT02)	-	-	-	-	x	x	-

Description of Work Performed

Sunday - NO WORK

Monday - Backfilled MJB 6 excavation with stockpiled pitrun and import of 4 additional truck & trailer loads (138.59 ton).
Started spreading out Port supplied crushed rock stockpile over buffer zone @ 2" thickness. 50% of stockpile spread out and compacted. Spreading crushed tracked per force account. Crew onsite 7:00 am to 3:00 pm.

Tuesday - Continued spreading out Port supplied crushed rock stockpile over buffer zone @ 2" thickness.
Removed Port installed silt fence along buffer zone now that site is stabilized.
ADT started mobilization/preperation for treatment. Mobilized reagent tanks and containment system.
Crew onsite 9:00 am to 4:30 pm.

Wednesday - Finished spreading out crushed rock along buffer zone. Left approx. 10 cy stockpiled to spread over HR-5 area.
Assisted ADT with final set up for treatment. Reagent chemical delivery delayed until 7:00 pm. No treatment today.
Crew onsite 7:00 am to 3:00 pm.
ESC Lead - Inspection report done - 6.15 NTU discharge

Thursday - Excavated HR-5 start box. Hauled & disposed to WM (2 truck & trailer loads - 67.53 ton).
Started treating RA11 dangerous waste with ADT Environmental. All day activity……covered treated/untreated material at the end of the day (60% complete). Crew onsite 7:00 am to 5:00 pm. Anchor personnel onsite to monitor activities & take samples (Liz).

Friday - Finished treating RA11 dangerous waste with ADT Environmental. Used all reagent chemical. Covered treated material stockpile.
Anchor (Liz) took treated material samples for confirmation testing. Decontaminated equipment and general site cleanup.
Crew onsite 7:00 am to 2:00 pm.

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	62	1	63
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	0	900	900
Transport & Dispose to Subtitle D	TON	1485	0	0	0
Reload of Materials for Offsite Disposal	TON	1485	0	0	0
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	153.4	33.1	186.5
Transport & Dispose to Subtitle D	TON	1250	288.75	67.53	356.28
Pitrun	TON	0	162.23	138.59	300.82
Quarry Spalls	TON	1150	0	0	0
Crushed Rock	TON	100	0	0	0
Excavate, Stockpile Haulroad	TON	500	0	0	0
Excavation Marker	SF	1250	0	700	700
Maintain Wheel Wash	EA	2	0	0	0
Move Wheel Wash to POA Facility	LS	1	0	0	0
Force Account	FA	$10,000.00	$0.00	$7,136.77	$7,136.77

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	4/23/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**4/17/2011**	**4/18/2011**	**4/19/2011**	**4/20/2011**	**4/21/2011**	**4/22/2011**	**4/23/2011**
Description -	Partly Cloudy	AM Showers	Partly Cloudy	PM Showers	Overcast	AM Clouds	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	-	1	1	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	10	6	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	x	-	x	x	-
Water Truck (WT02)-	-	-	x	-	-	-	-
Sweeper Truck (S03)-	-	-	x	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Cleaned Wheel Wash
Pumped water from Wheel Wash into Port containment tank and stockpiled sludge/slurry in a separate pile within the containment bunker (approximately 3-5 CY's). Used sweeper truck to vaccuum out debris cleaned off rumble plates. Filled Wheel Wash with fresh water from metered City Hydrant. Crew onsite 10:00 am to 5:00 pm.

Wednesday - NO WORK
Test results from treated soils received and approval from Waste Management to dispose of @ Subtitle D granted.

Thursday - Off site haul and disposal of treated soils from containment bunker (692.36 ton). One load preloaded for early morning delivery. Cleaned up all plastic sheeting and 20 mil liner from bunker area. Bunker subgrade ready for test samples to be taken. Liz (Anchor) onsite 9:30 to 3:30. Crew onsite 7:00 am to 4:00 pm.

Friday - Excavated and stockpiled approx 150 ton haul road crushed rock. Loaded out 6 truck and trailers haul road material to Wenatchee. Total 201.31 tons to Wenatchee. Crew onsite 7:00 am to 11:30 am.
ESC Lead - Inspection report done - 10.7 NTU discharge

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	63	1	64
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	0	692.36	692.36
Reload of Materials for Offsite Disposal	TON	1485	0	692.36	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	186.5	0	186.5
Transport & Dispose to Subtitle D	TON	1250	356.28	0	356.28
Pitrun	TON	0	300.82	0	300.82
Quarry Spalls	TON	1150	0	0	0
Crushed Rock	TON	100	0	0	0
Excavate, Stockpile Haulroad	TON	500	0	201.31	201.31
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	0	1	1
Move Wheel Wash to POA Facility	LS	1	0	0	0
Force Account	FA	$10,000.00	$7,136.77	$0.00	$7,136.77

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	4/30/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**4/24/2011**	**4/25/2011**	**4/26/2011**	**4/27/2011**	**4/28/2011**	**4/29/2011**	**4/30/2011**
Description -	Rain	Rain	Partly Cloudy	Overcast	Overcast	Overcast	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	2	-	-	1	-
Pacific Survey -	-	-	-	2	-	-	-
R Transport -	-	5	7	-	-	7	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	x	x	-	-	x	-
Water Truck (WT02)-	-	x	x	-	-	-	-
Sweeper Truck (S03)-	-	x	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Loaded out 5 truck & trailers of haul road material to Wenatchee. Excavated & stockpiled remaining haulroad material (~225 ton).
Removed silt fencing around haulroad & Port dewatering 2" piping. Assisted GeoEngineers with haulroad samples (pre-existing).
Cleaned and dismantled wheel wash. Pumped water into Port 20,000 gal tank. Power to wheel wash disconnected.
Total 160.88 tons to Wenatchee ESC Lead - Inspection report done - 17.8 NTU discharge Crew onsite 7:00 am to 5:00 pm

Tuesday - Loaded out remaining crushed rock from haulroad to Wenatchee (7 truck & trailers - 226.31 ton).
Removed wheel wash & transported to Port facility (Commercial & 1st Avenue) - Assisted Port w/ unloading of wheel wash.
Cleaned all wheel wash parts prior to transport and placed rumble strips (12) on adjacent storage area near haul road.
Crew onsite 7:00 am to 3:30 pm

Wednesday - PSE Survey crew onsite to re-stake HR-1, HR-2, HR-3 & HR-4 start boxes along with 10 ft radious from north edge of MJB 2.

Thursday - NO WORK

Friday - Excavation of additional MJB2 (north of) 10' radious @ 6 ft deep and HR-2, HR-3 & HR-4 @ approximately 1.5 ft deep.
Loaded excavated material directly in to truck & trailers and hauled to WM (Alaska St) - Total 9 loads (304.36 ton).
Archaeologist onsite to monitor MJB2 excavation only. Liz (Anchor) onsite directing all excavation depths & limits.
Crew onsite 7:00 am to 2:00 pm

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	64	1	65
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	186.5	160	346.5
Transport & Dispose to Subtitle D	TON	1250	356.28	304.36	660.64
Pitrun	TON	0	300.82	0	300.82
Quarry Spalls	TON	1150	0	0	0
Crushed Rock	TON	100	0	0	0
Excavate, Stockpile Haulroad	TON	500	201.31	387.19	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	1	1	2
Move Wheel Wash to POA Facility	LS	1	0	1	1
Force Account	FA	$10,000.00	$7,136.77	$784.44	$7,921.21

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	5/7/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**5/1/2011**	**5/2/2011**	**5/3/2011**	**5/4/2011**	**5/5/2011**	**5/6/2011**	**5/7/2011**
Description -	Clear	Rain	Mostly Cloudy	Clear	Overcast	Showers	Rain
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	2	-
Pacific Survey -	-	-	-	2	-	-	-
R Transport -	-	-	-	-	-	6	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	x	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	x	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - PSE Survey crew onsite: Base mapping of HR-2, 3, 4.

Thursday - NO WORK

Friday - Excavation of additional MJB2 (north of) 10' radious @ 6 ft deep and HR-2, HR-3 & HR-4 @ approximately 1.5 ft deep.
Loaded excavated material directly in to truck & trailers and hauled to WM (Alaska St) - Total 9 loads (304.36 ton).
Archaeologist onsite to monitor MJB2 excavation only. Liz (Anchor) onsite directing all excavation depths & limits.
Crew onsite 7:00 am to 4:00 pm ESC Lead - Inspection report done - 8.59 NTU discharge

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	65	1	66
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	346.5	215	561.5
Transport & Dispose to Subtitle D	TON	1250	660.64	407.39	1068.03
Pitrun	TON	0	300.82	0	300.82
Quarry Spalls	TON	1150	0	0	0
Crushed Rock	TON	100	0	99.24	99.24
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$7,921.21	$0.00	$7,921.21

Weekly Construction Report

Project Name: Former Scott Paper Mill Cleanup Project - Phase 4A
Client: Kimberly-Clark
Contractor: RAM Construction
Week Ending: 3/13/2010
Notice to Proceed: 12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**3/7/2010**	**3/8/2010**	**3/9/2010**	**3/10/2010**	**3/11/2010**	**3/12/2010**	**3/13/2010**
Description -	Showers	Clear	Clear	Overcast	Overcast	Cloudy	Clear
Precipitation* -	.03"	-	-	-	.03"	.31"	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Brothers -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting. ESC Lead - Discharge sample taken: 4.30 NTU

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	9	1	10
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$1,845.29	$0.00	$1,845.29

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	4/17/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**4/11/2010**	**4/12/2010**	**4/13/2010**	**4/14/2010**	**4/15/2010**	**4/16/2010**	**4/17/2010**
Description -	Clear	Partly Cloudy	Overcast	Clear	Cloudy	Clear	Mostly Cloudy
Precipitation* -	-	-	.03"	-	.06"	-	.03"

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	2	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Brothers -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	x	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks	-	-	-	-	-	x	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - Mobilized equipment (Off Road Trucks) for RA#11 test pits scheduled for Friday.

Thursday - NO WORK

Friday - ESC Lead - Discharge sample take: 3.82 NTU
Test pits for RA #11 work. Anchor staff, Geo Engineers & Archaeologist onsite.
Used off road trucks to contain excavated materials and compacted with hoe pak on 310 backhoe.

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	14	1	15
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$1,845.29	$3,574.73	$5,420.02

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	7/10/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**7/4/2010**	**7/5/2010**	**7/6/2010**	**7/7/2010**	**7/8/2010**	**7/9/2010**	**7/10/2010**
Description -	Overcast	Partly Cloudy	Clear	Clear/Hot	Clear/Hot	Clear/Hot	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	5	5	3	1	-
Pacific Survey -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
Equipment Used							
Hitachi ZX200 (E09)-	-	-	x	x	x	x	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	x	x	x	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	2	2	-	-	-
Hitachi ZX450 (E07)-	-	-	x	x	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK - Holiday

Tuesday - Crew onsite from 7:00 am to 3:00 pm Bud (Anchor) onsite at 10:30 am
Excavated overburden soils from MJB#2 additional excavation and stockpiled within MJB#1 excavation. Layed fabric under overburden pile for seperation until further analyzed. Finished building containment bunker.

Wednesday - Crew onsite from 7:00 am to 5:30 pm One operator stayed until 8:00 pm to cleanup contaminated piles within bunker.
Excavated contaminated soils under Anchor direction and stockpiled within bunker lined with 20 mil plastic.
Used off road haul trucks to transport to bunkers and stockpiled in five 300 cy piles within bunker.

Thursday - Cew onsite from 7:30 am to 11:30am ESC Lead - Erosion control weekly inspection (no discharge)
Covered contaminated soils piles within bunker with 6 mil plastic and sandbags.
Removed excavator from bunker and decontamintated. Site cleaned up and stabilized.

Friday - Operator onsite to assist in collecting samples from excavation (4 Hrs).

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	26	1	27
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	0	2000	2000
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	0	0	0
Reload of Materials for Offsite Disposal	TON	3000	0	0	0
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	0	0	0
Crushed Rock	TON	200	0	0	0
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	0	500	500
Move Construction Entrance	EA	1	0	0	0
Transport & Dispose to Subtitle C	TON	0	0	0	0

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	7/31/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**7/25/2010**	**7/26/2010**	**7/27/2010**	**7/28/2010**	**7/29/2010**	**7/30/2010**	**7/31/2010**
Description -	Clear	Clear	Clear	Clear	Overcast	Clear	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	2	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	2	-	-	-	-
Ludtke Trucking -	-	-	2	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	x	x	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	x	x	-	-	-
Hitachi ZX450 (E07)-	-	-	x	x	-	-	-
Water Truck (WT02)	-	-	x	x	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Crew onsite 7:00 am to 3:00 pm
Relocated construction entrance to east of MJB #2. Loaded out clean overburden pile. Hauled 6 containers to Allied Waste and 4 Truck and trailers to Waste Managemnt (Seattle). Reconfigured 2nd bunker for additional excavation on Wednesday.
Used water truck for dust control. Crew onsite from 7 am to 3 pm. Waste Management- 163.80 ton out Allied Waste- 209.54 ton

Wednesday - Crew onsite 8:00 am to 4:00 pm
Excavated additional soil from MJB #2 per revised C-4 as directed by Anchor personnel. Relocated wood and misc debris beyond additional excavation. Stockpiled soil in bunker area #2 (20 Mil liner and 6 mil cover). Assisted Anchor with side wall samples.
Used water truck for dust control. General site cleanup for downtime (testing).

Thursday - NO WORK ESC Lead - Inspection report done - No discharge

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	29	1	30
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2000	165	2165
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	0	373.34	373.34
Reload of Materials for Offsite Disposal	TON	3000	0	373.34	373.34
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	0	0	0
Crushed Rock	TON	200	0	0	0
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	500	75	575
Move Construction Entrance	EA	1	0	1	1
Transport & Dispose to Subtitle C	TON	0	0	0	0

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	8/21/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**8/15/2010**	**8/16/2010**	**8/17/2010**	**8/18/2010**	**8/19/2010**	**8/20/2010**	**8/21/2010**
Description -	Sunny	Sunny	Sunny	Overcast	Overcast	Overcast	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	-	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
Ludtke Trucking -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	x	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	x	-	-	-	-	-
Hitachi ZX450 (E07)-	-	x	-	-	-	-	-
Water Truck (WT02)	-	x	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Crew onsite 8:00 am to 12:00 pm
Excavated additional MJB#2 section per Anchor personnel layout. Approximately 200 CY's excavated and stockpiled within bunker. Bunker covered and secured. Watered roadway / construction entrace (dust control).

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - NO WORK ESC Lead - Inspection report done - No discharge

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	32	1	33
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2165	200	2365
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	373.34	0	373.34
Reload of Materials for Offsite Disposal	TON	3000	373.34	0	373.34
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	0	0	0
Crushed Rock	TON	200	0	0	0
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	8/28/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**8/22/2010**	**8/23/2010**	**8/24/2010**	**8/25/2010**	**8/26/2010**	**8/27/2010**	**8/28/2010**
Description -	Overcast	Clear	Sunny	Sunny	Overcast	Sunny	Sunny
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	-	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
Ludtke Trucking -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	x	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	x	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	-	-
Water Truck (WT02)	-	x	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Crew onsite 11:30 am to 3:30 pm
Excavated additional MJB#2 section per Anchor personnel layout. Approximately 150 CY's excavated and stockpiled within bunker. Bunker covered and secured. Watered roadway / construction entrace (dust control).

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK ESC Lead - Inspection report done - No discharge

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	33	1	34
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2365	150	2515
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	373.34	0	373.34
Reload of Materials for Offsite Disposal	TON	3000	373.34	0	373.34
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	0	0	0
Crushed Rock	TON	200	0	0	0
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	9/25/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**9/19/2010**	**9/20/2010**	**9/21/2010**	**9/22/2010**	**9/23/2010**	**9/24/2010**	**9/25/2010**
Description -	Overcast	Partly Cloudy	Cloudy	Clear	Overcast	Overcast	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	2	1	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	9	14	19	13	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX225 (E20)-	-	-	x	x	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	x	x	x	-	-	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - ESC Lead - Inspection report done - 7.83 NTU discharge Crew onsite 7:00 am to 2:30 pm
Extended MJB2 excavation 35 CY and direct loaded into trucks for offsite disposal per Anchor direction.
Started exporting west bunker. 15 truck & trailer loads hauled offsite to Subtitle D (511.25 ton)

Tuesday - Continued loading out material from bunker. 24 truck & trailer loads hauled offsite to Subtitle D (786.12 ton)
Crew onsite 6:30 am to 3:30 pm

Wednesday - Continued loading out material from bunker. 45 truck & trailer loads hauled offsite to Subtitle D (1,481.83 ton)
Crew onsite 6:30 am to 5:00 pm

Thursday - Finished loading out material from bunker. Concrete from MJB2 and stockpiled into managable size.
Hauled out misc metal pipe pieced with bunker material.
24 truck & trailer loads hauled offsite to Subtitle D (794.05 tons) Crew onsite 6:30 am to 6:00 pm

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	37	1	38
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2515	35	2550
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	373.34	3573.25	3946.59
Reload of Materials for Offsite Disposal	TON	3000	373.34	3440.14	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	0	0	0
Crushed Rock	TON	200	0	0	0
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	10/2/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**9/26/2010**	**9/27/2010**	**9/28/2010**	**9/29/2010**	**9/30/2010**	**10/1/2010**	**10/2/2010**
Description -	Overcast	Overcast	Partly Coudy	Overcast	Clear	Clear	Partly Coudy
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	2	2	-
Pacific Survey -	-	-	-	2	-	-	-
R Transport -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	x	x	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	x	-
Dynapac CA151 (C02)-	-	-	-	-	-	x	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	-	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - ESC Lead - Inspection report done - 6.62 NTU discharge
Suvey crew onsite for excavation volume calculations (MJB2)

Thursday - Mobilized dewatering materials, setup and started dewatering MJB2 excavation to west end of MJB1 excavation (Force Account Work)
Exposed 18" culvert ends for repair. Imported quarry spalls and pitrun and started building dam around culvert and working pad to repair 18" culvert. Crew onsite 7:00 am to 5:00 pm

Friday - Continued dewatering MJB2 excavation. Installed 64 LF of 18" concrete culvert. Installed ferncos at connection ends and placed concrete over top of connections. Plugged misc. exposed pipe ends within excavation with concrete (Force Account).
Anchor personnel onsite to inspect. Continued importing quarry spalls and pitrun and backfilling MJB2 excavation.
Crew onsite 7:00 am to 4:30 pm

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	38	1	39
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2550	0	2550
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	3946.59	0	3946.59
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	0	390.78	390.78
Crushed Rock	TON	200	0	31.22	31.22
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	0	608.32	608.32
Force Account	FA	0	0	$9,713.78	$9,713.78

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	10/9/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**10/3/2010**	**10/4/2010**	**10/5/2010**	**10/6/2010**	**10/7/2010**	**10/8/2010**	**10/9/2010**
Description -	Overcast	Partly Coudy	Clear	Clear	Partly Cloudy	Overcast	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	1	1	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	x	x	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	x	x	x	-	-	-
Dynapac CA151 (C02)-	-	x	x	x	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	-	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Continued backfilling MJB #2 excavation. Dewatered all day from MJB #2 excavation to MJB #1 (west end).
Imported and placed 1,120.77 ton pitrun and 473.55 ton quarry spalls.
Crew onsite 7:00 am to 5:00 pm

Tuesday - Continued backfilling MJB #2 excavation. No dewatering necessary.
Imported and placed 1,111.62 ton pitrun, 340.50 ton quarry spalls, 155.25 ton top course.
Crew onsite 7:00 am to 5:00 pm

Wednesday - Finished backfilling deep MJB #2 excavation and general site cleanup. Shallow excavation towards south west not backfilled.
Awaiting sampling results and further possible excavation.
Imported and placed 220.36 ton quarry spalls, 429.04 ton top course. Crew onsite 7:00 am to 5:00 pm

Thursday - NO WORK
ESC Lead - Inspection report done - 5.61 NTU discharge

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	39	1	40
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY	
Excavation & Stockpile Onsite	CY	2500	2214.42	0	2214.42	*Adjusted per survey
Onsite Soils Treatment	TON	3000	0	0	0	
Transport & Dispose to Subtitle D	TON	3000	3946.59	0	3946.59	
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48	
Embank & Compact Onsite Soils	CY	625	0	0	0	
Quarry Spalls	TON	3360	390.78	1034.41	1425.19	
Crushed Rock	TON	200	31.22	584.29	615.51	
Excavation Marker	SF	10000	0	0	0	
Fabric Under Overburden Stockpile	SY	425	575	0	575	
Move Construction Entrance	EA	1	1	0	1	
Transport & Dispose to Subtitle C	TON	0	0	0	0	
Pitrun	TON	0	608.32	2232.39	2840.71	
Force Account	FA	0	9713.78	$1,665.90	$11,379.68	

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	10/16/2010
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**10/10/2010**	**10/11/2010**	**10/12/2010**	**10/13/2010**	**10/14/2010**	**10/15/2010**	**10/16/2010**
Description -	Clear	Overcast	Clear	Clear	Overcast	Clear	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	1	-	-	-	1	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	x	-
Dynapac CA151 (C02)-	-	-	-	-	-	x	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	x	-	-	-	-	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Excavated and hauled offsite an addition area to the west of MJB 2 as directed by Anchor personnel.
6 truck and trailers (215.58 ton) were loaded and hauled to Subtitle D facility for disposal.
Crew onsite 7:00 am to 3:00 pm

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - NO WORK

Friday - Finished backfilling shallow portions of MJB#2 (No more excavation required, clean limits obtained).
Imported and placed 174.28 ton quarry spalls, 66.23 ton top course. Site cleanup/stabilization.
ESC Lead - Inspection report done - 5.15 NTU discharge Crew onstie 7:00 am to 12:00 pm

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	40	1	41
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2214.42	100	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	3946.59	215.58	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1425.19	174.28	1599.47
Crushed Rock	TON	200	615.51	66.23	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	0	11379.68	$0.00	$11,379.68

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	2/5/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	1/30/2011	1/31/2011	2/1/2011	2/2/2011	2/3/2011	2/4/2011	2/5/2011
Description -	-	-	-	-	-	-	-
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	-	-
Pacific Survey -	-	-	2	-	-	-	-
R Transport -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	-	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - PSE survey crew onsite to stake start boxes for RA11A & B plus all Phase 4B start boxes including haul road related.

Wednesday - NO WORK

Thursday - NO WORK
ESC Lead - No Weekly Inspection - Temporary shutdown

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	52	0	52
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$5,420.02	$0.00	$5,420.02

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	0	11379.68	$0.00	$11,379.68

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	2/12/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**2/6/2011**	**2/7/2011**	**2/8/2011**	**2/9/2011**	**2/10/2011**	**2/11/2011**	**2/12/2011**
Description -	Showers	Showers	AM Clouds	Clear	Clear	Clear	Mostly Cloudy
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	-	-	2	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	x	-	-	x	-
Hitachi ZX450 (E07)-	-	-	x	-	-	x	-
Water Truck (WT02)	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Installed silt fence around RA11A & B excavation limits (135 LF). Set up west bunker to receive contaminated soil (spread 20 Mil liner). Excavated RA11A & B plus additional 10'x10' pit within RA11A. Backfilled additional 10'x10' pit with imported pitrun. 32.19 ton import. Stockpiled material within bunker using haul truck. Covered stockpile with 6 mil plastic sheeting. Approximatley 200 CY excavated and stockpiled in bunker. Crew onsite 7:00 am to 3:00 pm

Wednesday - NO WORK

Thursday - NO WORK

Friday - Excavated additional 20' x 30' extention south of RA11B @ 6' deep. Stripped clean over burden to the east of RA11B 60' x 12' wide. Excavated material below clean overburden to 6' deep. Excavated additional 20' x 20' pit 1' deep within RA11B. All excavated soils stockpiled within containment bunker. Excavation limits directed by Anchor personnel. Used a portion of excavated clean material to backfill RA11A to grade. Placed excavation marker prior to backfill. Approximately 200 CY's stockpiled within bunker. Spent 3 Hrs excavating test pits for MJB5 and MJB6 per Anchor direction (Force Account). Crew onsite 8:00 am to 5:00 pm Containment stockpiled covered with 6 mil plastic sheeting. ESC Lead - Inspection report done - 5.06 NTU discharge

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	52	1	53
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$1,845.29	$1,487.04	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	0	11379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	0	512.5	512.5
Onsite Soils Treatment	TON	1485	0	0	0
Transport & Dispose to Subtitle D	TON	1485	0	0	0
Reload of Materials for Offsite Disposal	TON	1485	0	0	0
Embank & Compact Onsite Soils	CY	450	0	55	55
Pitrun	TON	1250	0	32.19	32.19
Excavation Marker	TON	3000	0	250	250
Silt Fence	SF	0	0	135	135
Transport to Subtitle C	SY	0	0	0	0
Force Account	EA	0	3574.73	$0.00	$3,574.73

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	5/14/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**5/8/2011**	**5/9/2011**	**5/10/2011**	**5/11/2011**	**5/12/2011**	**5/13/2011**	**5/14/2011**
Description -	Overcast	Overcast	Overcast	Rain	Partly Cloudy	Partly Sunny	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	2	-
Pacific Survey -	-	-	-	-	-	2	-
R Transport -	-	-	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	x	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	x	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - NO WORK

Friday - Backfilled HR-1 & HR-4 excavations. Imported 4 truck & trailer loads of quarry spalls (125.15 ton),
2 truck & trailer loads of crushed rock (64.55 ton) and 1 truck & trailer load of pitrun (32.10 ton) for wheel wash pit within HR-1.
PSE Survey crew onsite for volume calculation mapping of HR-1 &HR-4 prior to backfill.
Crew onsite 8:30 am to 2:00 pm ESC Lead - Inspection report done - 5-55 NTU discharge

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	66	1	67
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	561.5	0	561.5
Transport & Dispose to Subtitle D	TON	1250	1068.03	0	1068.03
Pitrun	TON	0	300.82	32.1	332.92
Quarry Spalls	TON	1150	0	125.15	125.15
Crushed Rock	TON	100	99.24	64.55	163.79
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$7,921.21	$0.00	$7,921.21

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	5/28/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**5/22/2011**	**5/23/2011**	**5/24/2011**	**5/25/2011**	**5/26/2011**	**5/27/2011**	**5/28/2011**
Description -	Mostly Cloudy	Overcast	Overcast	Light Rain	Overcast	Light Rain	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	3	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	5	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	x	-	-	-
Hitachi ZX450 (E07)-	-	-	-	x	-	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - Excavated 20' extension along north, east & west sides of HR-2 initial excavation (1' deep). Excavated 10' extension along north & west sides of HR-3 and 6" deeper than original start box. Direct load & haul to WM (9 truck & trailers - 290 ton). Excavated 20' x 20' x 6' deep west extension to MJB-2 additional ex per Anchor direction. Stockpiled material (~90 CY) into east containment bunker. Lined bunker with 20 mil plastic & covered w/ 6 mil & sandbags. Hauled stockpiled concrete from MJB 2 initial excavation to MJB property to the south of jobsite (~60 cy) FA. Assisted Anchor in obtaining samples from concrete excavated from MJB2 additional excavation. Installed safety fencing around 6' deep MJB2 excavation. Crew onsite 7:00am to 2:30pm
ESC Lead - Inspection report done - 11.70 NTU discharge Archaeologist onsite 9:00am to 11:00am to monitor MJB2 Excavation.

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	68	1	69
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	0	3813.48
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	561.5	240	801.5
Transport & Dispose to Subtitle D	TON	1250	1068.03	286.24	1354.27
Pitrun	TON	0	332.92	0	332.92
Quarry Spalls	TON	1150	125.15	0	125.15
Crushed Rock	TON	100	163.79	0	163.79
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$7,921.21	$506.88	$8,428.09

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	6/11/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	6/5/2011	6/6/2011	6/7/2011	6/8/2011	6/9/2011	6/10/2011	6/11/2011
Description -	Clear	Clear	Overcast	Overcast	Overcast	Overcast	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	1	-	-	-
Pacific Survey -	-	-	2	-	-	-	-
R Transport -	-	-	10	4	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	x	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	x	-	-	-	-
Hitachi ZX450 (E07)-	-	-	x	x	-	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Excavated, loaded and hauled off material from additional HR2, HR3 and bunker area excavations directed by Anchor (Liz).
10 truck and trailers hauled 2 rounds each (15 loads total = 529.12 tons) to WM Alaska St facility. Stockpiled all remaining material for hauloff on Wednesday (approx. 350 ton). Hauled clean concrete debris from MJB2 excavation to MJB south site stockpile (5 CY).
Hauled out 5 truck & trailer loads (178.55 ton) of bunkered material from MJB 2 excavation & cleaned out bunker.
Assisted Anchor(Liz) in obtaining samples from excavated area. PSE Survey onsite for topo & volume calculation of MJB2 excavation.
Crew onsite 7:00 am to 5:00 pm ESC Lead - Inspection report done - 8.72 NTU discharge

Wednesday - Loaded and hauled 11 truck & trailer loads of waste the WM Alaska St facility that was stockpiled previous day from additional excavations (HR2, HR3 & Bunker areas) - 358.37 ton. Imported pitrun and backfilled (compacted) MJB 2 excavation up to within quarry spall subgrade depth (18" below finish grade) - 444.41 ton
Loaded and hauled 22 ecology block from west bunker offsite.
Crew onsite 7:00 am to 4:30 pm

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	70	1	71
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3813.48	178.55	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	801.5	500	1301.5
Transport & Dispose to Subtitle D	TON	1250	1354.27	1066.04	2420.31
Pitrun	TON	0	332.92	444.41	777.33
Quarry Spalls	TON	1150	125.15	0	125.15
Crushed Rock	TON	100	163.79	0	163.79
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$8,428.09	$0.00	$8,428.09

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	6/18/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**6/12/2011**	**6/13/2011**	**6/14/2011**	**6/15/2011**	**6/16/2011**	**6/17/2011**	**6/18/2011**
Description -	Clear	Clear	Overcast	Overcast	Overcast	Overcast	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	6	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	x	-	-	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Excavated and hauled out 12 truck & trailer loads (391.53 ton) of contaminated waste to WM Alaska St from extended HR-2 & HR-3 excavations per Anchor direction (Liz). Loaded 116 ecology block from east and west bunkers and hauled off site.

Wednesday - Crew onsite 6:30 am to 3:30 pm ESC Lead - Inspection report done - 6.91 NTU discharge
No Work

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	71	1	72
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	1301.5	196	1497.5
Transport & Dispose to Subtitle D	TON	1250	2420.31	391.53	2811.84
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	125.15	0	125.15
Crushed Rock	TON	100	163.79	0	163.79
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$8,428.09	$0.00	$8,428.09

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	6/25/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	6/19/2011	6/20/2011	6/21/2011	6/22/2011	6/23/2011	6/24/2011	6/25/2011
Description -	Overcast	Overcast	Clear	Overcast	Partly Cloudy	Overcast	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	4	-	-
Pacific Survey -	-	-	-	2	-	-	-
R Transport -	-	-	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	x	-	-
Dynapac CA151 (C02)-	-	-	-	-	x	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	x	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - PSE Suvey onsite to conduct base mapping and volume calculations of open excavations.

Thursday - Imported quarry spalls (870.93 Ton) and crushed rock (268.63 Ton) and backfilled extended excavations of HR-2, HR-3, MJB-2, and bunker area excavations.
Met with Brian Martin (KC) & Becky Darden (POA) regarding moving equipment stored within the northwest corner of potential excavation extensions. Agreed RAM would move equipment/materials and track per force account. Called in 2 additional employees to move equipment/material and managed to get everything moved to enable continued excavations on Monday. Scheduled trucking for export on Monday.
Crew onsite 7:00 am to 5:30 pm ESC Lead - Inspection report done - No discharge

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	72	1	73
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	1497.5	0	1497.5
Transport & Dispose to Subtitle D	TON	1250	2811.84	0	2811.84
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	125.15	870.93	996.08
Crushed Rock	TON	100	163.79	268.63	432.42
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$8,428.09	$1,845.96	$10,274.05

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	7/2/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	6/26/2011	6/27/2011	6/28/2011	6/29/2011	6/30/2011	7/1/2011	7/2/2011
Description -	Clear	Cloudy	Cloudy	Overcast	Cloudy	Clear	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	-	-	1	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	13	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	x	-	-	-	-	-
Dynapac CA151 (C02)-	-	x	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	x	-	-	x	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Imported quarry spalls (96.30 Ton) and crushed rock (299.93 Ton) and continued backfilling extended excavations of HR-2, HR-3. Extended HR-2 excavation northwest (approximately 427 cy) and east (approximatley 130 cy) per Anchor direction (Liz onsite). Hauled and disposed 22 loads (740.33 Ton) to Waste Management Alaska St. facility.

Tuesday - NO WORK

Wednesday - No Work

Thursday - Moved fishing net from northwest corner of site (beyond Monday's excavation limits) to south of latest excavation limits so the owner could have access this weekend. Emergency call out per Brian Martin and POA requests.

Crew onsite 9:30 am to 12:00 pm ESC Lead - Inspection report done - 7.23 NTU discharge

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	73	1	74
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	1497.5	427	1924.5
Transport & Dispose to Subtitle D	TON	1250	2811.84	740.33	3552.17
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	996.08	96.3	1092.38
Crushed Rock	TON	100	432.42	299.93	732.35
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$10,274.05	$522.15	$10,796.20

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	7/9/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**7/3/2011**	**7/4/2011**	**7/5/2011**	**7/6/2011**	**7/7/2011**	**7/8/2011**	**7/9/2011**
Description -	Partly Cloudy	Clear	Clear	Clear	Overcast	Overcast	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	3	-	-	-
Pacific Survey -	-	-	2	-	-	-	-
R Transport -	-	-	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	x	-	-	-
Dynapac CA151 (C02)-	-	-	-	x	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	x	-	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - PSE Survey crew onsite to conduct volume calculations of extended HR-2 & Hr-3 excavated areas prior to scheduled backfill.

Wednesday - Imported quarry spalls (380.92 Ton) and crushed rock (324.86 Ton) and continued backfilling extended excavations of HR-2, HR-3.

Thursday - Crew onsite 7:30 am to 5:30 pm ESC Lead - Inspection report done - No discharge
NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	74	1	75
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	1924.5	0	1924.5
Transport & Dispose to Subtitle D	TON	1250	3552.17	0	3552.17
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	1092.38	380.92	1473.3
Crushed Rock	TON	100	732.35	324.86	1057.21
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$10,796.20	$5,005.38	$15,801.58

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	7/16/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**7/10/2011**	**7/11/2011**	**7/12/2011**	**7/13/2011**	**7/14/2011**	**7/15/2011**	**7/16/2011**
Description -	Clear	Partly Cloudy	Partly Cloudy	Overcast	Showers	Overcast	Light Rain
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	2	1	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	x	x	-	-	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Moved POA owned equipment and fishing gear from northwest corner of expanded HR-2 to previously backfilled area (HR-2) within POA leased property to allow for expanded HR-2 excavation scheduled for Tuesday.
Crew onsite from 9:00 am to 3:30 pm

Tuesday - Excavated expanded HR-2 (Northwest corner of property) within fence lines per Anchor expanded remediation plan dated 7-7-2011.
Loaded out 23 truck & trailer loads (772.56 ton), hauled and disposed @ Waste Management (Alaska St)
Wes (Anchor) onsite taking sidewall and base samples.
Crew onsite 7:00 am to 5:30 pm ESC Lead - Inspection report done - No discharge

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	75	1	76
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	1924.5	400.5	2325
Transport & Dispose to Subtitle D	TON	1250	3552.17	772.56	4324.73
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	1473.3	0	1473.3
Crushed Rock	TON	100	1057.21	0	1057.21
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$15,801.58	$2,549.43	$18,351.01

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	7/23/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**7/17/2011**	**7/18/2011**	**7/19/2011**	**7/20/2011**	**7/21/2011**	**7/22/2011**	**7/23/2011**
Description -	Light Rain	Overcast	Overcast	Overcast	Showers	Partly Cloudy	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	-	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - NO WORK

Friday - NO WORK
ESC Lead - Inspection report done - No discharge

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	76	1	77
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	2325	0	2325
Transport & Dispose to Subtitle D	TON	1250	4324.73	0	4324.73
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	1473.3	0	1473.3
Crushed Rock	TON	100	1057.21	0	1057.21
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$18,351.01	$0.00	$18,351.01

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	7/30/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**7/24/2011**	**7/25/2011**	**7/26/2011**	**7/27/2011**	**7/28/2011**	**7/29/2011**	**7/30/2011**
Description -	Clear	PM Showers	Overcast	Overcast	Clear	Overcast	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	-	1	2	-
Pacific Survey -	-	-	-	-	2	-	-
R Transport -	-	-	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	x	x	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - Continued extension of HR-2 excavations per Anchor direction. Removed approximately 50 CY topsoil from (3 truck & trailer loads) beyond northwestern fence between fence and existine City bioswale. Set existing tree/shrubs/plants asside for replanting later. Dug additional 10' x 10' x 6" area along north east section near boat mold and hauled away to WM Alaska St.
98.77 Tons disposed PSE Survey crew onsite to conduct volume calculations.
Crew Onsite 7:00 am to 12:30 pm

Friday - Imported topsoil and backfilled bioswale area beyond northwestern fence. Replanted salvaged tree/shrubs/plants within original location and seeded entire area with bioswale seed mix (FA). 2 Truck & Trailers topsoil (48 cy)
Crew Onsite 7:00 am to 12:00 pm ESC Lead - Inspection report done - No discharge

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	77	1	78
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	2325	65.2	2390.2
Transport & Dispose to Subtitle D	TON	1250	4324.73	98.77	4423.5
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	1473.3	0	1473.3
Crushed Rock	TON	100	1057.21	0	1057.21
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$18,351.01	$4,931.78	$23,282.79

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	8/6/2011
Notice to Proceed:	12/1/2009

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**7/31/2011**	**8/1/2011**	**8/2/2011**	**8/3/2011**	**8/4/2011**	**8/5/2011**	**8/6/2011**
Description -	Overcast	Clear	Clear	AM Clouds	Sunny	Partly Cloudy	Cloudy
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	3	-	-	3	-	-
Pacific Survey -	-	-	-	-	-	-	-
R Transport -	-	-	-	-	-	-	-
ADT Environmental	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	x	-	-	x	-	-
Dynapac CA151 (C02)-	-	x	-	-	x	-	-
Kubota KX121 (E01,E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-
John Deere Off Road Trucks-	-	-	-	-	-	-	-
Hitachi ZX450 (E07)-	-	-	-	-	-	-	-
Water Truck (WT02)-	-	-	-	-	-	-	-
Sweeper Truck (S03)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Imported quarry spalls (370.95 ton) and 1 1/4" crushed rock (321.12 ton) and backfilled extended HR-2 excavation.
Left additional eastern 20' x 25' x6" area open until further direction from Anchor (Test Results).
Demobilized Hitachi 450 excavator.
Crew Onsite 7:00 am to 6:00 pm

Tuesday - NO WORK

Wednesday - NO WORK

Thursday - Finished backfilling remaining open eastern HR-2 excavation and imported additional 1 1/4" crushed rock (166.53 ton) to final grade low spots within HR-2 (extended) and HR-3. Compacted and final graded entire site and cleaned up all remaining construction debris. Demobilized equipment (JD 650 dozer and Dynapac roller). Onsite work completed!
Crew Onsite 7:00 am to 2:30 pm
ESC Lead - Inspection report done - No discharge (Site completely stabalized)

Friday - NO WORK

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	78	1	79
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	6	0	6
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	1	0	1
Remedial Excavation	CY	2450	2039.6	0	2039.6
Contaminated Waste Transport & Disp.	TN	4040	3995.95	0	3995.95
Excavation Marker	SF	1000	441	0	441
Quarry Spalls	TON	3600	1923.85	0	1923.85
Crushed Rock	TON	440	469.67	0	469.67
Force Account	FA	$10,000.00	$3,332.33	$0.00	$3,332.33

COP#2 - Onsite Treatment Items

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	2500	2314.42	0	2314.42
Onsite Soils Treatment	TON	3000	0	0	0
Transport & Dispose to Subtitle D	TON	3000	4162.17	0	4162.17
Reload of Materials for Offsite Disposal	TON	3000	3992.03	0	3992.03
Embank & Compact Onsite Soils	CY	625	0	0	0
Quarry Spalls	TON	3360	1599.47	0	1599.47
Crushed Rock	TON	200	681.74	0	681.74
Excavation Marker	SF	10000	0	0	0
Fabric Under Overburden Stockpile	SY	425	575	0	575
Move Construction Entrance	EA	1	1	0	1
Transport & Dispose to Subtitle C	TON	0	0	0	0
Pitrun	TON	0	2840.71	0	2840.71
Force Account	FA	$0.00	$11,379.68	$0.00	$11,379.68

RA11 Excavation

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	1350	543.8	0	543.8
Onsite Soils Treatment	TON	1485	900	0	900
Transport & Dispose to Subtitle D	TON	1485	692.36	0	692.36
Reload of Materials for Offsite Disposal	TON	1485	692.36	0	692.36
Embank & Compact Onsite Soils	CY	450	116	0	116
Pitrun	TON	1250	803.93	0	803.93
Excavation Marker	SF	3000	2170	0	2170
Silt Fence	LF	0	135	0	135
Transport to Subtitle C	TON	0	0	0	0
Force Account	FA	$0.00	$3,574.73	$0.00	$3,574.73

Phase 4B

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
Excavation & Stockpile Onsite	CY	700	2390.2	0	2390.2
Transport & Dispose to Subtitle D	TON	1250	4423.5	0	4423.5
Pitrun	TON	0	777.33	0	777.33
Quarry Spalls	TON	1150	1473.3	370.95	1844.25
Crushed Rock	TON	100	1057.21	487.65	1544.86
Excavate, Stockpile Haulroad	TON	500	588.5	0	588.5
Excavation Marker	SF	1250	700	0	700
Maintain Wheel Wash	EA	2	2	0	2
Move Wheel Wash to POA Facility	LS	1	1	0	1
Force Account	FA	$10,000.00	$23,282.79	$0.00	$23,282.79

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	12/5/2009
Notice to Proceed:	12/1/2009
Prepared By:	Lou Ivcevic (PM)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**11/29/2009**	**11/30/2009**	**12/1/2009**	**12/2/2009**	**12/3/2009**	**12/4/2009**	**12/5/2009**
Description -	-	-	Clear	Clear	Clear	Overcast	Clear
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	1	-	3	1	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Bros Trucking -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	x	-	-
John Deere 310SG (H02)-	-	-	-	-	x	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Notice to Proceed - Stormwater Permit Transfer Issues
Mobilized job trailer onto existing asphalt paving on MJB site as directed at weekly meeting.

Wednesday - No Work

Thursday - Mobilized equipment / steel plates. RAM crew adjusted wheel wash rumble strips and regraded gravel approaches to wheel wash.

Friday - Mobilize Equipment

Saturday - No Work

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	0	0	0
Silt Fence	LF	370	0	0	0
Inlet Protection	EA	1	0	0	0
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	0	0	0
Remedial Excavation	CY	2450	0	0	0
Contaminated Waste Transport & Disp.	TN	4040	0	0	0
Excavation Marker	SF	1000	0	0	0
Quarry Spalls	TON	3600	0	0	0
Crushed Rock	TON	440	0	0	0

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	12/12/2009
Notice to Proceed:	12/1/2009
Prepared By:	Lou Ivcevic (PM)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**12/6/2009**	**12/7/2009**	**12/8/2009**	**12/9/2009**	**12/10/2009**	**12/11/2009**	**12/12/2009**
Description -	Clear	Clear	Clear	Clear	Overcast	Clear/Overcast	Overcast
Precipitation* -	-	-	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	-	1	-	2	-
Pacific Survey -	-	-	-	-	-	-	-
Celorie Bros Trucking -	-	-	-	-	-	1	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	-	-	x	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - Mobilized John Deere 544H Loader (L01) onsite.

Tuesday - Mobilize John Deere 650H Dozer (D01) & Dynapac CA151 Roller (C02) onsite.

Wednesday - Mobilized Hitachi ZX200 excavator onsite.

Thursday - De-mobilized John Deere 544H Loader (L01) offsite for snow removal preperation.

Friday - Excavated MJB #4. Tough / slow digging because of frozen ground. Loaded waste directly into Celorie Bros. truck & hauled to WM. Survey stakes were knocked over / missing. Crew found what was thought to be the westerly limit hubs and proceeded to scale and layout excavation to the east (found two more hubs). Bud & Britt agreed on limits and excavation continued. Conflict with Phase #2 contractor (CUI) regarding work space & timing. Resolved issues enough to proceed with excavation. CUI to bring up at 12-15 weekly meeting to discuss issues with all parties involved.
Installed 115 LF of construction safety fencing around work zone.

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	0	0	0
Silt Fence	LF	370	0	0	0
Inlet Protection	EA	1	0	0	0
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	0	0	0
Remedial Excavation	CY	2450	36.6	0	36.6
Contaminated Waste Transport & Disp.	TN	4040	69.79	0	69.79
Excavation Marker	SF	1000	0	0	0
Quarry Spalls	TON	3600	0	0	0
Crushed Rock	TON	440	0	0	0

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	12/19/2009
Notice to Proceed:	12/1/2009
Prepared By:	Lou Ivcevic (PM)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**12/13/2009**	**12/14/2009**	**12/15/2009**	**12/16/2009**	**12/17/2009**	**12/18/2009**	**12/19/2009**
Description -	Overcast	Overcast	Mostly Cloudy	Mostly Cloudy	Partly Cloudy	Overcast	Overcast
Precipitation* -	.01"	.05"	.11"	.02"	-	-	.07"

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	1	2	2	2	-
Pacific Survey -	-	-	-	-	2	-	-
Celorie Bros Trucking -	-	-	-	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	-	x	x	x	-
John Deere 544H (L01)-	-	-	-	-	-	x	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	x	-
Kubota KX121 (E16)-	-	-	-	x	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - NO WORK

Tuesday - Weekly Meeting. Moved job trailer to gravel pad next to Cannery Building on Port property as directed.

Wednesday - Installation of 700 LF of construction safety fencing along the south & west sides of MJB #1,2 & 3.
Rumble strips for construction entrance delivered to site. Mobilize JD 544H onsite.
Results for MJB #4 excavation received (OK to backfill).

Thursday - Installation of rumble strips for construction entrance. Refreshed locate marks within site. Installed silt fencing around MJB #3 (95 LF).
PSE (Survey Crew) onsite to topo MJB #4 excavation.

Friday - Backfilled MJB #4 with quarry spalls and crushed rock. Excavation marker placed at bottom of excavation before backfill. Imported rock materials from Lakeside Industries. Installed inlet protection in 4 catch basins. Repaired silt fence and construction fence damaged by wind. MJB #4 backfilled to preexisting grades.

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	0	0	0
Silt Fence	LF	370	0	95	95
Inlet Protection	EA	1	0	4	4
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	0	0	0
Remedial Excavation	CY	2450	36.6	0	36.6
Contaminated Waste Transport & Disp.	TN	4040	69.79	0	69.79
Excavation Marker	SF	1000	0	616	616
Quarry Spalls	TON	3600	0	44.16	44.16
Crushed Rock	TON	440	0	28.34	28.34

Weekly Construction Report

Project Name:	Former Scott Paper Mill Cleanup Project - Phase 4A
Client:	Kimberly-Clark
Contractor:	RAM Construction
Week Ending:	12/26/2009
Notice to Proceed:	12/1/2009
Prepared By:	Lou Ivcevic (PM)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weather	**12/20/2009**	**12/21/2009**	**12/22/2009**	**12/23/2009**	**12/24/2009**	**12/25/2009**	**12/26/2009**
Description -	Mostly Cloudy	Overcast	Overcast	Mostly Cloudy	Clear	Clear	Clear
Precipitation* -	-	.22"	-	-	-	-	-

**Based on Weather Underground (www.wunderground.com)*

Contractor Personnel							
RAM -	-	-	2	1	-	-	-
Pacific Survey -	-	2	-	-	-	-	-
Celorie Bros Trucking-	-	-	1	-	-	-	-
Holocene Drilling -	-	-	-	-	-	-	-

Equipment Used							
Hitachi ZX200 (E09)-	-	-	x	-	-	-	-
John Deere 544H (L01)-	-	-	-	-	-	-	-
John Deere 650H (D01)-	-	-	-	-	-	-	-
Dynapac CA151 (C02)-	-	-	-	-	-	-	-
Kubota KX121 (E16)-	-	-	-	-	-	-	-
John Deere 310SG (H02)-	-	-	-	-	-	-	-

Description of Work Performed

Sunday - NO WORK

Monday - PSE (Survey Crew) onsite to re-stake MJB #4.

Tuesday - Re-excavated MJB#4 to proper survey limits. Loaded out waste directly into Celorie Bros truck and hauled to WM.
Average dig depth of 17" as directed by Bud. Samples taken @ 10:15 am and taken to the lab.
Installed construction fencing around open excavation. No conflict between Phase #2 contractor (CUI).

Wednesday - NO WORK
Imported quarry spalls and crushed rock for MJB #4 backfill and stockpiled. Waiting on test results to backfill.
Imported material because of holiday coming up to insure ability to backfill as soon as directed.

Thursday - NO WORK
Test results received for MJB #4 re-dig (OK to Backfill).

Friday - CHRISTMAS DAY

Saturday - NO WORK

Bid Item Quantities

DESCRIPTION	UNIT	CONTRACT QUANTITY	PREVIOUS QUANTITY	CURRENT QUANTITY	TOTAL QUANTITY
ESC Lead	DAY	1	0	0	0
Silt Fence	LF	370	95	0	95
Inlet Protection	EA	1	4	0	4
Storm Drain Repair	LF	340	0	0	0
Well Abandonment	EA	1	0	0	0
Remedial Excavation	CY	2450	36.6	24.6	61.2
Contaminated Waste Transport & Disp.	TN	4040	69.79	50.38	120.17
Excavation Marker	SF	1000	616	0	616
Quarry Spalls	TON	3600	44.16	46.57	90.73
Crushed Rock	TON	440	28.34	50.94	79.28

ANCHOR QEA

Daily Construction Report Number: 01

Work Hours: 7:30AM to 3:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Friday** Date: **12.11.09**

Weather AM: Overcast/ Cold 0-10kts. 15 °F PM: Overcast, Cold 10-20kts. 35 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 1 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 12.11.09

Visitors: Brian Martin KC/ John Laplante AQ/ Two unnamed representatives from Construction Unlimited.

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
5-Inlet Protection	1-EA		
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY	**36.57 CY**	**36.57 CY**
MJB1	--		
MJB2	--		
MJB3	--		
MJB4 Field Measured 28x21.5x1.64/27=36.57 CY	--	**36.57 CY**	**36.57 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**Weight Ticket Pending.**	
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD		1	
	Skid Steer w/ power broom	CAT		1	
	Mini Excavator w/Breaker	Kubota KX 121-3		1	
John Kooy Trucking	Kenworth Hauler w/ Sturdy Weld Trailer	Truck #1/ USDOT 38466/ 105,500 GVW Trailer	B22944G 5339-NC	1	
Walker Enterprises	Kenworth Hauler w/ Sturdy Weld Trailer	Truck #W1 USDOT 38466/ 105,500 GVW Trailer	B25474B 6569-UC	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
John Laplante	Anchor QEA	Project Manager	
Wes MacDonald	Anchor QEA	Field Engineer	
Britt Lukes	RAM Construction	Supervisor	
Shane Kelling	RAM Construction	Laborer	
Dave Delrae	John Kooy Trucking	Driver	
Glen Nelson	Walker Enterprises	Driver	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

1. **8:00AM Phone Call to Britt Lukes-RAM Supervisor/ Discussion- MJB-4 excavation/ Construction Unlimited (CU) request to RAM to backfill MJB-4 excavation today.**
2. **9:25AM Phone Call to Rebecca Desrosiers/ Project Update/ Construction Unlimited Site Visits.**

7:30AM Contractor is warming up Hitachi 200LC Excavator for remedial excavation at MJB-4. Haul road extension/Access Rd. to MJB-4 is locked with chain and padlock.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is not functioning as temperatures are below freezing.

8:00AM Called Britt Lukes/ RAM Construction Supervisor regarding coordination with Phase 2 Sub-Contractor Construction Unlimited (CUI). Britt states that CUI personnel are upset that they were not notified of the excavation work to take place at MJB-4. Britt said he explained to CU staff that he understood from the prior weekly meeting with John of GeoEngineers and Bob Elsner of the Port of Anacortes that others would coordinate with CUI about the request from same to excavate MJB as soon as possible as no Phase 2 excavation or hauling would take place for the next 10 days and they need to blade the turnaround area near MJB-4 and take some confirmation samples.

John Kooy Trucking/ Kenworth Dump Truck and Trailer is staged to the north of MJB-4 to receive remedial excavation soils for transport and disposal. Driver Dave Delrae. Truck is equipped with load covers for truck and trailer.

NOTE: Driver enquired if there was any material transport paperwork he should have for transport and disposal. AQ Engineers Representative (AQ ER) deferred to Contractor Representative, Britt Lukes.

AQ ER informed Britt Lukes that the owner will resolve any disagreements that may arise among the contractors or the Contractor over the method or order of the work, and that they should continue with the excavation of MJB-4 as planned. The excavation will not be backfilled at this time. Britt Lukes informed that the excavation will be protected by HI-VIS Fencing. AQ ER reviewed the Technical Specifications as they pertain to this issue. [Refer to Specification Section 01010 Part 1.3.]

8:15AM RAM Construction mobilizes HITACHI 200LC Excavator to MJB-4. Gated access through Construction Unlimited work area is already opened by unknown others.

SURVEY STAKING NOTE: The MJB-4 Survey stakes for excavation limits and erosion control fencing are disrupted, possibly by other contractors parking equipment in the vicinity of MJB-4. Britt Lukes of RAM Construction said he has located 3-MJB-4 survey corners and will triangulate to locate the missing corner. Britt feels he can locate the excavation survey corners to lay out the excavation. Other contractor equipment/vehicles are parked at/on location of erosion control silt fencing.

EROSION CONTROL NOTE: AQ Engineers Representative discussed erosion control silt fence location with Mike Hammes. Mike said he is responsible for project erosion control and sees no need to install silt fencing at this time.

8:30AM Britt Lukes and Shane Kelling remove temporary excavation survey staking and paint excavation perimeter lines on ground surface.

9:00AM Excavation of MJB begins at MCP-18 and excavating diagonally and to the south.

SOIL NOTE: The top 6-8" of ground is frozen. Frozen Soil appears to be dark gray crushed rock type to approximately 6-8 inches deep. Between 6-20 inches deep, the soil appears to be dark grey to brown with approximately 6-8 inch minus angular broken rock. At 18-20" deep the soil is evenly colored brown, sandy/gravely. Excavation through the frozen ground is slow as contractor is using a "cleanup" bucket with no digging teeth on the HITACHI excavator.

9:15AM An unnamed individual in a Burgundy Pickup, possibly from Construction Unlimited visited the work site and asked who authorized the work to begin at MJB-4. He stated that he was not informed of any work taking place in this area. AQ ER asked for his name and he said declined to leave it.

9:30AM Another Construction Unlimited employee visited the work area, exited his truck and again asked who authorized the work at MJB-4 to begin and if the excavation would be backfilled at end of day. I informed him of the prior discussion during the 12/09 weekly meeting with John Herzog of GeoEngineers and Bob Elsner of Port of Anacortes. I stated that the excavation would not be backfilled at this time. He left and declined to leave his name.

9:40AM PM John Laplante, AQ and Brian Martin, KC are onsite to review remedial excavation activities at MJB-4. AQ ER discussed Construction Unlimited work start notification issues with John and Brian.

Wes MacDonald of AQ is onsite to grab soil samples and provide GPS coordinates of sample grab locations.

SAFETY NOTE: AQ Site Specific HASP is on-site. AQ ER Bud Whitaker conducted the AQ Safety Meeting with input from Wes MacDonald. Signatures of Safety Meeting attendees recorded.

10:00AM Kooy Trucking leaves MJB-4 with first truck and trailer for transport and disposal. Field Estimated Load Weight approximately 33TON. Truck and Trailer loads are covered before leaving the area of MJB-4.

10:30AM MJB-4 Remedial excavation continues. Walker Enterprises Trucking is staged to the North and receiving excavated soils for transport and disposal.

11:14AM MJB-4 Remedial excavation is complete. Soils are loaded into Walker Enterprises Truck and trailer for transport and disposal. Truck and Trailer loads are covered before leaving the area of MJB-4. Field Estimated Load Weight approximately 20TON.

Shane Kelling is staking excavation corners with wood lath and measuring/recording size and depth of MJB-4 excavation. Excavation is Neat Line Measured at approx. 28' x 21.5' x 16-20" deep/ 36.57 CY.

11:30AM Wes MacDonald begins taking soil samples. Wes is assisted by Bud Whitaker AQ ER

12:30PM Shane Kelling is breaking holes through frozen ground surface for installation of Hi-Vis fencing are perimeter of MJB-4 Remedial excavation. Green metal T-Posts and Orange Hi-Vis Fencing is provided. Fence post spacing is approximately 8'.

1:30PM Soil sampling Continues.

2:50PM MJB-4 Temporary Hi-Vis fencing installation is complete. Soil Sampling is complete. Excavation Equipment is moved from area of MJB-4 and staged near MJB-1.

Shane Kelling is using a CAT 320 Skid Steer Loader with Power Broom attachment to sweep paved area near temporary job trailer and fenced in paved area where job trailer is temporarily placed.

Site appears secure and safe. Excavation at MJB-4 is secured with Hi-Vis fencing.

3:30PM AQ Engineers Representative off-site. Wes MacDonald is delivering soil samples to Onsite Lab in Redmond.

Summary: Weather conditions this shift were cold and dry with freezing conditions. The excavation work this shift was conducted in a safe and controlled manner. All soil excavated for transport was excavated and loaded directly into the receiving dump trucks and trailers for immediate hauling and disposal.

Truck and trailer loads were covered with tarps before transport/haul trucks left the area of MJB-4.

RAM Construction made good effort to clean up or sweep the MJB-4 work area and area where trailer is temporarily stored before leaving site for the weekend.

See Photos Below:

MJB-4 Post Excavation/ Installation of Hi-Vis Fencing.

Begin MJB-4 Remedial Excavation.

MJB-4 Soil Confirmation Sampling.

MJB-4 Hi-Vis Fencing installed to secure excavation.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Wes MacDonald and Bud Whitaker were the samplers. Confirmation Sampling Checklist and Map were provided on-site by Wes MacDonald and were reviewed. Five total samples were collected: 1-each of the four excavation sidewalls and one of the excavation bottom. An additional duplicate sample was taken to satisfy the QA requirement of 1 duplicate per 10-soil samples. Samples taken were marked on the map and labeled as:

- KCP4-SO01-S-091211
- KCP4-SO02-S-091211
- KCP4-SO03-S-091211
- KCP4-SO04-S-091211
- KCP4-SO01-B-091211
- KCP4-SO01B-B-091211 (duplicate)

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab. Two (2) Rinsate Blank bottles were collected after decon [Sample: KCP4-ERB01-091211].

Wes MacDonald utilized a Trimble GPS to track MJB-4 soil sample locations.

ANCHOR QEA

Daily Construction Report Number: 02

Work Hours: 7:30AM to 3:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Friday** Date: **12.18.09**

Weather AM: Overcast 0-10kts. 15 °F PM: Overcast 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 2 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 12.18.09

Visitors: **9:30AM Travis Neu, WH Pacific General Site Visit/ 10:55AM Brian Martin, KC Progress Review**

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--	**600-LF**	**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--	**95-LF**	**95-LF**
5-Inlet Protection	1-EA		
MJB1	--	**4-EA**	**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		**36.57 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON		
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4-Field Measured Approximately 28'x22'	--	**616-SF**	**616-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4 Lakeside Industries Load Tickets Received T# 00113395/ 30.34-TON Delivered/ 30.34-TON Used T# 00113399/ 13.82-TON Delivered/ 13.82-TON Used	--	**44.16-TON**	**44.16-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4 Lakeside Industries Load Tickets Received T#00113400/ 13.84-TON Delivered/13.84-TON Used T#00113408/ 14.50-TON Delivered/9.0-TON Used (5.5-TON Staged Near MJB-3 for Future Use)	--	**22.84-TON**	**22.84-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	

	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
Lakeside Industries	Peterbuilt w/ Sturdy Weld Trailer	Truck #61/ WSDOT 147026/ 102,000 GVW Trailer #26	A11363Y 6724-SJ	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Supervisor	
Shane Kelling	RAM Construction	Laborer	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

7:00AM Contractor is warming up the Hitachi 200LC Excavator to begin backfilling the excavation at MJB-4. The haul road extension/access Rd. to MJB-4 is blocked by Construction Unlimited activities. RAM Construction will access MJB-4 from NE corner of Phase 4 site through temporary chain link fencing.

12/16/09 NOTES:

1. AQ ER not on-site. ER contacted Lou Ivcevic to remind him that the MJB-4 excavation will need to be surveyed to confirm limits of excavation and excavation quantity before backfill. Survey will also serve as basis for payment for excavation marker per SF.

12/17/09 NOTES/ SITE OBSERVATIONS:

1. AQ ER not on-site. Construction entrance at Phase 4 WASs installed at NE corner of site. RAM Construction provided and installed welded steel plates with integral vertical fins for truck tire tread debris removal. A 12" DI Pipe sleeve was provided for sleeving the CUI de-watering pipe under the construction entrance steel plates.

2. RAM Construction installed the Hi-Vis orange fencing at the site perimeter. AQ ER wheel measured the Hi-Vis fencing at 600 LF.

3. Inlet protection is provided at (4) existing catch basins at the NW area of the site.

4. Erosion Control Silt Fencing is provided and installed east of MJB-3 as per plan. AQ ER wheel measured the Silt Fencing at 95 LF.

5. Site Trailer was moved off-site to a location adjacent to the Port of Anacortes (PoA) temporary construction office. This location was recommended by and is acceptable to Bob Elsner of PoA.

6. MJB-4 was surveyed for limits of excavation and excavation marker. Britt Lukes has not yet received survey data from PSE Surveying.

7. The underground utility locate paint markings appear to have been "freshened up" with new marking paint of appropriate colors.

7:30AM Britt Lukes and Shane Kelling are removing the orange Hi-Vis fencing that is securing the MJB-4 excavation.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:30AM Britt Lukes and Shane Kelling are installing the excavation marker in the bottom of the MJB-4 excavation. Hi-Vis orange fencing is used for the excavation marker material.

NOTE: Approximately 2-4 inches of standing water is visible in the bottom of the MJB-4 excavation. The standing water may be from previous rains or possible tidal influence. As previously discussed with John Laplante, this should not affect the quarry spall backfill at MJB-4.

8:50AM Lakeside Industries truck and trailer has arrived on-site to deliver the quarry spall backfill material for MJB-4. The first load of quarry spalls is dumped next to the excavation and Britt Lukes is utilizing the Hitachi Excavator to place quarry spalls in the excavation. Shane Kelling is making sure that the excavation marker material is covering all areas of the bottom of the excavation.

9:00AM Quarry spall backfill is complete and Britt is waiting for delivery of crushed rock base course.

9:15AM Travis Neu of WH Pacific is on-site to review activities for the Port of Anacortes.

9:30AM Lakeside Industries truck and trailer has arrived on-site to deliver the crushed rock base course for final backfill of MJB-4. The crushed rock is staged next to the MJB excavation. Britt Lukes is using the John Deere 544 rubber tire loader to place and spread the crushed rock in the MJB-4 excavation.

10:00AM Shane Kelling is using the approximately 8-TON Dynapac single drum vibratory roller to compact the crushed rock base course material. Compactive effort appears OK.

10:30AM MJB-4 Remedial excavation continues. Walker Enterprises Trucking is staged to the North and receiving excavated soils for transport and disposal.

10:55PM Brian Martin of Kimberly Clark is on-site to review progress.

11:30AM Britt and Shane are moving equipment from MJB-4 to the MJB-3 location. Access openings in the security fencing are properly closed and secured.

12:00PM Britt and Shane are re-painting the perimeter markings for MJB-1 and MJB-3.

1:00PM Off-site. Reporting.

Summary: Weather conditions for this shift were cold and dry. The MJB-4 backfill work this shift was conducted in a safe and controlled manner.

See Photos Below:

MJB-4 Excavation Marker in place. RAM Construction backfilling with quarry spalls.

RAM Construction compacting crushed rock base course w/ 8-TON Roller.

Storm Drain inlet protection. Underground utility locates markings "freshened up".

RAM Construction maintaining survey hubs and re-marking MJB-1 and MJB-2 perimeter.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

- No sampling this shift.

ANCHOR QEA

Daily Construction Report Number: 03

Work Hours: 7:30AM to 3:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tuesday** Date: **12.22.09**

Weather AM: Overcast 0-10kts. 23 °F PM: Overcast 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 3 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 12.22.09

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4 –Re-Excavation Field Measured at Approximately 21'x21'x1.5' deep/ 24.5CY	--	**24.5 CY**	**12/11-36.57 CY 12/22-24.50 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**No Weight Tickets Received**	
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		**12/18-616-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		**12/18-44.16-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		**12/18-22.84-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	
	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	

	Dozer on Track	John Deere 650H		1	
Majestik Trucking	Kenworth Hauler w/ Sturdy Weld Trailer	Truck #M669/ DOT 951524/ 105,500 GVW Trailer #B3	15223RP 8096-UP	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Joe Pursley	Anchor QEA	Engineer	
Britt Lukes	RAM Construction	Supervisor	
Tye Lee	Majestik Trucking	Driver	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

12/21/09 NOTES:

1. AQ ER not on-site. Monday, 9:00AM ER received phone call from Britt Lukes, RAM Construction. Britt informed Bud that the post excavation survey performed by PSE Surveying on 12.17.09 revealed that the MJB-4 remedial excavation that occurred on 12.11.08 was not in the correct location. Britt feels the mistake was due to the disrupted survey staking that was noted in the 12.11.09 Daily Report. Britt said that he would have PSE Surveying provide additional survey staking at MJB-4 on 12.21.09 so the proper location can be excavated on Tuesday, 12.22.09.

7:00AM Contractor is warming up the Hitachi 200LC Excavator to begin the remedial re-excavation at MJB-4. The Haul Road Extension/Access Rd. to MJB-4 is blocked by Construction Unlimited activities. RAM Construction will access MJB-4 from NE corner of Phase 4 site through the temporary chain link fencing.

7:30AM Britt Lukes is laying out 5' offsets for the MJB-4 excavation. 5' off-sets are painted on the ground with white marking paint.

8:00AM Majestik Trucking of Auburn, WA is on-site with dump truck and trailer to provide hauling and disposal of the MJB-4 excavated soils. Tye Lee is the driver.

8:10AM Britt Lukes begins the re-excavation of MJB-4. The excavated soil is being loaded directly into the Majestik Trucking dump truck and trailer for direct hauling from the site. MJB-4 is being excavated to approximately 1.5' deep.

9:15AM The MJB-4 remedial excavation continues. No suspected cultural resources are visible during excavation.

9:45 -10:00AM Joe Pursley of Anchor QEA arrived on-site to take confirmation soil samples after excavation is complete. Joe and Bud conduct/attend a Site Safety Meeting and review the HASP that was prepared for the project. Joe and Bud both signed in the HASP. Joe begins the sampling equipment decontamination procedure prior to soil sampling.

10:00AM Majestik trucking dump truck and trailer are full (approximately 33 TON). The truck and trailer loads are covered before leaving the site. Britt anticipates the turn-around time for hauling, disposal and return to the site will be approximately 2 hours.

11:30AM Bud Whitaker received a phone call from Brian Martin and asked to give Phase 4 update. Bud discussed the course of events and existing survey staking conditions prior to and during the excavation of MJB-4 on 12.11.09. Mike Hammes discussed RAM Construction responsibility for the excavation in the wrong location but does not believe all of the responsibility lies with RAM Construction. He feels that the disrupted survey staking by others contributed to the issue. Bob Elsner and Brian Martin asked Mike to

prepare a cost breakdown for the MJB-4 excavation effort. Bob Elsner discussed the PoA responsibility for the disrupted survey staking by other contractors working on the Phase 2 project. Bob Elsner requested the AQ 12/11 Daily Report. Bob Elsner would like to close down the site on 12/24. MJB-4 backfill is scheduled for 12/28 if soil samples are acceptable.

SOIL SAMPLE NOTE: AQ will provide 24hr laboratory turn around for soil sampling.

12:00PM Joe Pursley and Bud Whitaker continue the decontamination of the soil sampling equipment and prepare sample labeling and COC forms.

Joe and Bud continue taking confirmation soil samples. Joe is tracking soil sample locations with a Trimble GPS.

12:15PM Majestik Trucking is back on-site and RAM construction is completing the MJB-4 excavation. Majestik Trucking dump truck is loaded with approximately 10 Ton of excavated soil and the load is covered before leaving the site.

12:30PM Joe is complete with all soil sampling and is packaging samples for transport and delivery to the Onsite Laboratory in Redmond.

12:45PM Britt begins installing Hi-Vis orange security fencing around MJB-4.

1:30PM MJB-4 is secured with orange security fencing and Britt is moving excavation equipment from the work site.

2:00PM AQ ER off-site reporting.

Summary: Weather conditions for this shift were cold and dry. The MJB-4 re-excavation work this shift was conducted in a safe and controlled manner. Confirmation soil samples were collected and tracked with GPS. No traffic control issues noted. No visible cultural resources noted.

See Photos Below:

MJB-4 Excavation Re-Surveyed. 5′ off-sets and excavation layout marked on ground surface.

RAM Construction re-excavating MJB-4.

Joe Pursley collecting confirmation soil samples.

MJB-4 Excavation protected with Hi-Vis fencing.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Joe Pursley and Bud Whitaker were the samplers. Confirmation Sampling Checklist and Map were reviewed on-site by Bud and Joe. Five total samples were collected: 1-each of the three excavation sidewalls and one of the excavation bottom. An additional duplicate sample was taken to satisfy the QA requirement of 1 duplicate per 10-soil samples. Samples taken were marked on the map and labeled as:

- KCP4-SO01-S-091211 Joe Pursley provided a description of each sample, including color and approximate grain size.
- KCP4-SO02-S-091222
- KCP4-SO03-S-091222
- KCP4-SO04-S-091222
- KCP4-SO01-B-091222
- KCP4-SO01B-B-091222 (duplicate)

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab. Two (2) Rinsate Blank bottles were collected after decon [Sample: KCP4-ERB01-091222].

Joe Pursley utilized a Trimble GPS to track MJB-4 soil sample locations.

ANCHOR QEA

Daily Construction Report Number: 04

Work Hours: 7:30AM to 3:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Monday** Date: **12.28.09**

Weather AM: Overcast 0-10kts. 15 °F PM: Overcast 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 2 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 12.28.09

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		**12/11-36.57 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON		
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4-Field Measured Approximately 21x21'	--	**441 SF**	**12/18-616-SF 12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4 Lakeside Industries Load Tickets Received T# 00113488/ 15.27-TON Delivered/ 15.27-TON Used T# 00113491/ 16.03-TON Delivered/ 10.73-TON Used	--	**26.00-TON**	**12/18-44.16-TON 12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4 Lakeside Industries Load Tickets Received T#00113494/ 16.63-TON Delivered/16.63-TON Used T#00113499/ 17.78-TON Delivered/20.0-TON Used (14.31-TON Staged Near MJB-3 for Future Use)	--	**20.00-TON**	**12/18-22.84-TON 12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	

	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Supervisor	
Jed Dawson	RAM Construction	Driver	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

7:00AM Contractor is warming up the Hitachi 200LC Excavator to begin backfilling the excavation at MJB-4. The haul road extension/access Rd. to MJB-4 is blocked by Construction Unlimited activities. RAM Construction will access MJB-4 from NE corner of Phase 4 site through temporary chain link fencing.

7:30AM Britt Lukes is removing the orange Hi-Vis fencing that is securing the MJB-4 excavation.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:30AM Britt Lukes is installing the excavation marker in the bottom of the MJB-4 excavation. Hi-Vis orange fencing is used for the excavation marker material.

Britt is waiting for PSE Surveying to survey the bottom of the MJB-4 excavation for basis of payment for excavation and excavation marker. Britt is expecting PSE to arrive on-site at approximately 9:00AM.

8:50AM No aggregate backfill materials will be delivered this shift as all materials needed were delivered on 12/23/09 and staged near MJB-3.

9:50AM PSE Surveying on-site to survey MJB-4 Excavation.

10:40AM Britt is using JD 544H Loader to shuttle and place quarry spalls from staging area near MJB-3 location to MJB-4. Jed Dawson is delivering quarry spalls from stock pile area with Kenworth Dump.

11:00AM Quarry spall backfill is complete.

11:10PM Jed Dawson is delivering crushed surface base course material with Kenworth Dump. Britt is placing crushed surface base course over quarry spalls with JD 544H Loader.

11:30AM Jed Dawson is using the 8-TON Dynapac single drum vibratory roller to compact the crushed rock base course material. Compactive effort appears OK..

12:00PM Britt and Shane are moving equipment from MJB-4 to the MJB-3 location. Access openings in the security fencing are properly closed and secured.

1:00PM Off-site. Reporting.

Summary: Weather conditions for this shift were cold and dry. The MJB-4 backfill work this shift was conducted in a safe and controlled manner.

See Photos Below:

MJB-4 Excavation Marker Installation.

PSE Survey Crew surveying MJB-4 re-excavation and excavation marker.

RAM Construction placing quarry spall backfill at MJB-4.

RAM Construction compacting CSBC over quarry spalls at MJB-4.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

- No sampling this shift.

ANCHOR QEA

Daily Construction Report Number: 05

Work Hours: 7:30AM to 3:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Monday** Date: **01.04.10**

Weather AM: Rain 0-10kts. 15 °F PM: Rain 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor: Celorie Bros Trucking.

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 5 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 01.04.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-Field Measured at approx. 38'x195'x1.5' deep/ NOTE: Subtracted 24.5 CY at MJB2 excavation overlap.	--	**387.5 CY**	**387.5 CY**
MJB2-Field Measured at approx. 21'21x1.5' deep.	--	**24.5 CY**	**24.5 CY**
MJB3- Field Measured at approx. 61'x61'x1.5' deep	--	**207 CY**	**207 CY**
MJB4	--		***12/11-36.57 CY* 12/22-24.5 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON		
MJB1, MJB2, MJB3 COMBINED HAUL		**670.49 TON**	**720.87**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-616-SF* 12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-44.16-TON* 12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-22.84-TON* 12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	

	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Supervisor/Operator	
Shane Kelling	RAM Construction	Laborer/Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

7:00AM Contractor is warming up the Hitachi 200LC Excavator to begin backfilling the excavation at MJB-3.

TRUCKING/HAULING NOTE: Celorie Bros. Trucking is acting as the Trucking/Hauling Broker. Dump trucks and trailers are provided by the following:

-BW Trucking/ Bud Winter Truck 3/ Trailer 3A
-Majestic Trucking/ Tye Lee Truck M669/Trailer P3
-BW Trucking/ Pete Vanderende Truck 2/ Trailer T2A
-Walker Trucking/ Rick Meyers Truck W14/ Trailer T14
-Walker Trucking/ Shannon Jordan Truck W4/ Trailer T4
-Fischer Trucking/ Dave Fischer Truck 01/ Trailer 02
-Fischer Trucking/ Jay Horton Truck 02/ Trailer 01
-Walker Trucking/ Stan Close Truck W12/ Trailer W12T
-John Kooy Trucking/ Gary Penthin Truck 2/ Trailer 2
-John Kooy Trucking/ Dave DelRae Truck 1/ Trailer T2A
-Walker Trucking/ John Kooy Truck W10/ Trailer T210
-VanZanten Trucking/ Don Dooyema Truck 6/ Trailer T6
-Walker Trucking/ John Kooy Sr. Truck W8/ Trailer 8A
-Majestik Trucking/ Tye lee Truck M669/ Trailer P3
-BW Trucking/ Pete Vanderende Truck 2/ Trailer T2A
-BW Trucking/ Bud Winter Truck 3/ Trailer 3A
-Fischer Trucking/Dave Fischer Truck 01/ Trailer 02
-Walker Trucking/ Shannon Jordan Truck W4/ Trailer T4
-Walker Trucking/ Stan Close Truck 12/ Trailer W12T
-John Kooy Trucking/ Gary Penthin Truck 2/ Trailer 2
-Fischer Trucking/ Jay Horton Truck 02/ Trailer 01
-John Kooy Trucking/ Dave DelRae Truck 1/ Trailer T2A
-Walker Trucking/ John Kooy Truck 10/ Trailer T210
-VanZanten Trucking/ Don Dooyema Truck 6/ Trailer T6

Dump trucks with trailers are staged along the haul road before entering the work site. Britt Lukes will be excavating MJB3 soil to design depth of 2' and will load excavated soils directly into the truck and trailers. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal.

7:30AM Britt Lukes and Shane Kelling are re-marking survey lines and utility locates prior to beginning MJB3 excavation.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:30AM Britt Lukes begins excavation at MJB3 to 2.0' deep. NOTE: The sandy, gravely soil layer is visible at 1.5' deep. OK to excavate to 1.5' deep until the ultimate excavation depth is confirmed with John Laplante. The excavated material is loaded into BW Trucking truck and trailer for direct hauling. Load capacity for truck and trailer is approximately 32-33 TON. Waste material is being hauled to Waste Management Facility for disposal.

WEATHER NOTE: Steady rain. Standing water on site.

9:00AM Excavation and hauling continues at MJB3. Excavation and loading is averaging approximately 20 minutes per truck and trailer load.

9:40AM Email Communication sent to John Laplante regarding excavation depth at MJB3. Brown, sandy, gravely, native looking soil layer is visible at 1.5' BGS. Excavation design depth is 2' BGS. OK with John to excavate to only 1.5' BGS to the existing sandy, gravely layer.

AQ ER is informed by Rebecca Desrosiers that excavation at MJB2 will be to design depth of 3' deep as planned. Rebecca has confirmed that she will be onsite on Tuesday 1/5 to assist with soil sampling at MJB3 and MJB2.

10:00AM Britt Lukes has moved excavation equipment to MJB2/MJB1 location. Final excavation bottom scraping and cleanup of MJB3 will be completed after all major excavation and hauling is complete for this shift.

10:30AM Weather is deteriorating/ rain is increasing. Due to the steady rain, Britt is concerned that standing water may be a concern at MJB2. Britt will not continue with the MJB2 excavation at this time. Britt will concentrate on excavating MJB1 until the weather clears.

MJB2 NOTE: MJB2 is excavated to 1.5' deep where the excavation overlaps with MJB1.

12:00PM RAM continues excavating MJB1 and stockpiling soils within the excavation boundaries until truck and trailers return from the Waste management disposal site.

1:00PM Haul trucks are returning from the disposal site and Britt begins loading stockpiled MJB1 soils for transportation and disposal.

1:30PM MJB1 Excavation is complete for this shift. Britt is cleaning up the bottom of the MJB3 excavation and stockpiling MJB3 soils for hauling and disposal within the MJB3 excavation footprint.

2:30PM Excavation, transportation and disposal is complete for this shift. AQ ER measured limits of MJB3 and MJB1 with RAM Construction/ Shane Kelling.

HAUL ROAD CONDITION NOTE: The gravel haul road is showing signs of wear/ impact from Phase 4 trucking in and out of the work site. Haul road conditions discussed with Britt Lukes and Shane Kelling. The maintenance of the haul road is part of the scope for Phase 2 work.

3:00PM Point of Notification: AQ ER notified by Lou Ivcevic that Holocene Drilling will not de-commission the monitoring well as scheduled on 1/5/10. Monitoring well de-commissioning is re-scheduled for 1/6/10.

4:00PM Britt Lukes and Shane Kelling are cleaning up the work zone and preparing to secure the site for this shift.

5:00PM AQ ER offsite reporting. Site is secured. No safety issues or concerns this shift. All truck and trailers brokered by Celorie Trucking have hauled two loads each, totaling 26 truck and trailer loads,

approximately.

See Photos Below:

MJB3 Excavation and direct hauling for disposal.

MJB2 Excavation to 1.5 deep.
NOTE: MJB2 excavation overlaps MJB2.

MJB1 Excavation and direct hauling for disposal.

RAM Construction compacting CSBC over quarry spalls at MJB-4.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

- No sampling this shift.

ANCHOR QEA

Daily Construction Report Number: 06

Work Hours: 7:30AM to 3:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tuesday** Date: **01.05.10**

Weather AM: Rain 0-10kts. 40 °F PM: Rain 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 6 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 01.05.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-Field Meas. approx. 34x100'x1.5' deep/188.89 CY -Field Meas. approx. 30x70'x1.67 deep/ 129.89 CY	--	**318.78 CY**	**706.28 CY**
MJB2-Field Meas. Approx. 21x21x3.0' (1.5' below the 1.5' previously exc. as part of MJB1 on 1/04)/ 24.5 CY	--	**24.5 CY**	**49.0 CY**
MJB3	--		**207 CY**
MJB4	--		***12/11-36.57 CY* 12/22-24.5 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**996.86 TON**	**1717.73 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-616-SF* 12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-44.16-TON* 12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-22.84-TON* 12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	

	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Rebecca Desrosiers	Anchor QEA	Engineer	
Britt Lukes	RAM Construction	Operator/Supervisor	
Shane Kelling	RAM Construction	Laborer/Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

7:00AM Contractor is warming up the Hitachi 200LC Excavator to continue the remedial excavation at MJB1. RAM Construction will also complete the MJB2 remedial excavation this shift.

TRUCKING/HAULING NOTE: Celorie Bros. Trucking is acting as the Trucking/Hauling Broker. Dump trucks and trailers are provided by the following:

-BW Trucking/ Bud Winter Truck 3/ Trailer 3A
-Majestik Trucking/ Tye Lee Truck M669/Trailer P3
-Majestik Trucking/ Jeff Dehard M569/ Trailer P2
-BW Trucking/ Pete Vanderende Truck 2/ Trailer T2A
-Walker Trucking/ Rick Meyers Truck W14/ Trailer T14
-Walker Trucking/ Shannon Jordan Truck W4/ Trailer T4
-Fischer Trucking/ Dave Fischer Truck 01/ Trailer 02
-Fischer Trucking/ Jay Horton Truck 02/ Trailer 01
-Walker Trucking/ Stan Close Truck W12/ Trailer W12T
-John Kooy Trucking/ Gary Penthin Truck 2/ Trailer 2
-Walker Trucking/ John Kooy Truck W10/ Trailer T210
-VanZanten Trucking/ Don Dooyema Truck 6/ Trailer T6
-Walker Trucking/ John Kooy Sr. Truck W8/ Trailer 8A
-Watson Trucking/ Ron Watson Truck 26/ Trailer 26T
-Celorie Trucking/ John Moore Truck 18/ Trailer 18T

Dump trucks with trailers are staged along the haul road before entering the work site. Britt Lukes will be loading and hauling the last 2 truck and trailer loads of stockpiled remedial excavation soils from MJB3 and will then complete the MJB2 excavation to the design depth of 3' BGS. After completion of the MJB2 excavation to 3' BGS, Britt will continue with the excavation of MJB1 to the design depth of 1.5' BGS. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal.

7:30AM Britt Lukes is loading the stockpiled soil from MJB3 for transportation and disposal. Two truck and trailers are loaded for transportation and disposal from MJB3. Britt Lukes notified AQ ER that location MJB3 is ready for soil sampling. NOTE: Rebecca Desrosiers will be onsite today to assist with MJB3 and MJB2 soil sampling.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:30AM Britt Lukes is excavating MJB2 to the design depth of 3' BGS. AQ ER informed Britt and Shane that they must have some elevation controls as any excavation below 3' BGS will need to be monitored

for cultural resources by the Archaeologist. Shane will use a straight edge (builder's level) to measure and control the depth of the excavation from BGS.

MJB2 NOTE: Abandoned concrete and woody debris is found at approximately 2' BGS. Britt informed AQ ER that the soil at 2-3' deep at MJB3 appears different than the surrounding soil at MJB1. The soil color is gray to black with woody debris. Photos were taken of the existing conditions at 3' deep.

9:00AM Britt continues excavating MJB2. The excavated soil is loaded directly into Celorie Bros. truck and trailer for direct hauling to Waste Management's Seattle facility.

9:30AM AQ ER attending the Phase 2 weekly meeting with the Port of Anacortes.

RAM Construction is complete with the excavation of MJB2 and begins excavating MJB1 to the design depth of 1.5' BGS. Excavation begins at approximately 195' from MCP2 and continues to the west. RAM is excavating MJB1 in this location to 1.67' BGS to remove the quarry spalls.

UNKNOWN UNDERGROUND UTILITY NOTE: Two 2" parallel steel conduits are found at approximately 1.67' BGS. The steel conduit locations are marked by Bud at the adjacent existing grade with utility marking paint. The two steel conduits are found to terminate into a 3'x3'x4" thick concrete pad. The wire electrical wire in the conduit is cut and appears to have been abandoned in the past by others.

10:00AM Rebecca Desrosiers arrived onsite to attend the weekly Phase 2 project meeting and assist with soil sampling at MJB3 and MJB2. A Site Safety Meeting was conducted and attended by Rebecca and Bud. Both attendees signed the HASP attendance sheet.

10:45AM RAM Construction has moved to the SW corner of MJB1 to begin soil excavation adjacent to the existing concrete slabs. Rebecca, Bud Britt and Shane reviewed the two existing electrical vaults, monitoring well, fire hydrant valve and associated concrete. It was agreed that the existing structures will stay in place during the excavation and would be protected from damage. The existing concrete ring around the hydrant valve will be removed and properly disposed of due to the quarry spalls that are visible beneath the concrete.

11:00AM AQ ER walked the site with Rebecca and Britt Lukes of RAM Construction. Britt asked questions regarding the excavation at the west end and southwest corner of MJB1. Britt asked if he should breakup and remove the existing concrete slabs to expose the soil beneath the concrete. It was agreed that RAM will excavate the soil adjacent to the concrete slab to expose the soil beneath the slab. At this time, no concrete will be removed.

STORM DRAIN SYSTEM NOTES: Rebecca asked to have the storm drain manhole covered and protected so no debris or soil enters the storm drain system through the vent holes in the manhole lid. Britt and Shane agreed to cover and protect the storm drain manhole.

Rebecca and Bud reviewed the existing onsite storm drain system. The storm drain manhole lid was removed from the easterly most manhole located approximately 245' to the west of the point of outfall so Rebecca could determine the most appropriate location for storm water sampling. It was determined that the storm water samples should be taken from this manhole as it is the closest storm drain structure to the outfall.

1:30PM Bud Whitaker and Rebecca Desrosiers attended the Phase 4 weekly project meeting. Phase 4 weekly project meetings will now follow the Phase 2 weekly project meetings.

RAM Construction continues excavating MJB1. Excavated soil is loaded directly into the truck and trailers provided by Celorie Bros Trucking for direct hauling and disposal.

2:00PM Rebecca and Bud inventoried the sampling equipment and sample containers that are stored in the RAM Construction Job Trailer.

3:00PM Bud and Rebecca are collecting soil samples from MJB3. Rebecca has provided a sampling map. Rebecca is labeling and laying out the sampling jars and providing GPS coordinates for the sample locations. Bud is decontaminating the sampling equipment and collecting the soil samples.

3:30PM RAM Construction is complete with the MJB1 excavation for this shift. Britt and Shane are freshening up the painted excavation limits and survey corners. Stockpiled soil at the south end of MJB1 is covered with plastic sheeting for erosion control.

4:00PM Rebecca and Bud continue collecting soil samples at MJB2.

4:30PM Rebecca and Bud reviewed the SW corner of MJB1 with Shane and Britt. The existing water main in this location was exposed during the MJB1 remedial excavation. The existing water main appears to lay between the two existing electrical vaults in this location.

4:45PM RAM Construction personnel are offsite. Rebecca and Bud continue collecting soil samples from MJB2.

5:00PM Soil sampling at MJB2 is complete. Soil samples are packaged for transportation by Rebecca to OnSite Environmental in Redmond, WA.

5:30PM RAM office trailer is locked, site is secured. Engineers Representative Off-site.

No safety issues or traffic control issues this shift.

See Photos Below:

RAM Construction excavating MJB2

Existing abandoned steel conduit found approximately 220′ west of MCP2 at MJB1.

Collecting soil samples at MJB3.

Existing water main found at SW corner of MJB1.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Rebecca Desrosiers and Bud Whitaker were the samplers. Confirmation Sampling Checklist and Map were provided on-site by Rebecca Desrosiers and were reviewed. 19 total samples were collected: 10-each of the excavation sidewalls and 9-each of the excavation bottoms. Two additional duplicate samples were taken to satisfy the QA requirement of 1 duplicate per 10-soil samples. Samples taken were marked on the map and labeled as:

- KCP4-SO06-S-100105
- KCP4-SO07-S-100105
- KCP4-SO08-B-100105
- KCP4-SO09-B-100105
- KCP4-SO10-S-100105
- KCP4-SO11-B-100105
- KCP4-SO12-B-100105
- KCP4-SO12-B-100105 (duplicate)
- KCP4-SO13-B-100105
- KCP4-SO14-S-100105
- KCP4-SO15-B-100105
- KCP4-SO16-B-100105
- KCP4-SO17-S-100105
- KCP4-SO18-S-100105
- KCP4-SO18-S-100105 (duplicate)
- KCP4-SO19-S-100105
- KCP4-SO20-B-100105
- KCP4-SO21-S-100105
- KCP4-SO22-S-100105
- KCP4-PB-100105

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab. One (1) Rinsate Blank bottle was collected after decon [Sample: KCP4-PB-100105]

Rebecca Desrosiers utilized a Trimble GPS to track MJB-3 and MJB2 soil sample locations.

ANCHOR QEA

Daily Construction Report Number: 07

Work Hours: 7:30AM to 4:00PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Wed** Date: **01.06.10**

Weather AM: O'Cast /Windy 10-15kts. 40 °F PM: O'Cast /Windy10-15kts. 44 °F

Contractor: RAM Construction Subcontractor: Holocene Drilling

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 7 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 01.06.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	--		
MJB1	1-EA		**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA	1	1
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-Field Meas. approx. 328x20'x1.5 deep/364.44 -Field Meas. approx. 33x38'x1.5 deep/ 69.66 CY	--	**434.10 CY**	**1140.38 CY**
MJB2	--		**49.0 CY**
MJB3	--		**207 CY**
MJB4	--		***12/11-36.57 CY* 12/22-24.5 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**959.96 TON**	**2677.69 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-616-SF* 12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-44.16-TON* 12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-22.84-TON* 12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	
	Utility Truck w/ Trailer	Ford F350 w/ Trail Max-Tilt Trailer	A63162T	1	

	Mini Excavator	Kubota KX 121-3 w/ breaker attach.		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Supervisor	
Shane Kelling	RAM Construction	Laborer/Operator	
Milt Unick	RAM Construction	Operator	
David Dickinson	Holocene Drilling	Lic. Well Driller 3017T	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

7:00AM Contractor is warming up the Hitachi 200LC Excavator to continue the remedial excavation at MJB1.

AQ Staff/ Bud Whitaker reviewed the Health and Safety Plan

TRUCKING/HAULING NOTE: Celorie Bros. Trucking is acting as the Trucking/Hauling Broker. Dump trucks and trailers are provided by the following:

-Celorie Trucking/ John Moore Truck 18/ Trailer 18T
-Majestik Trucking/ Dave Delrae Truck M669/Trailer T3
-BW Trucking/ Pete Vanderende Truck 2/ Trailer T2A
-Majestik Trucking/ Jeff Dehard Truck 369/ Trailer B1
-BW Trucking/ Bud Winter Truck 3/ Trailer B3
-Walker Trucking/ Rick Meyers Truck W14/ Trailer 14T
-Fischer Trucking/ Dave Fischer Truck # 01/ Trailer 02T
-John Kooy Trucking/ Dave Delrae Truck 1/ Trailer T2A
-Walker Trucking/ Willy Russell Truck W20/ Trailer T20
-Walker Trucking/ Stan Close Truck W12/ trailer W12T
-John Kooy Trucking/ Gary Benthan Truck 2/ Trailer 2T
-Fischer Trucking/ Jay Horton Truck # 02 Trailer 01T
-VanZanten Trucking/ Don Dooyema truck 6/ Trailer B6

Dump trucks with trailers are staged along the haul road before entering the work site. Britt will continue with the excavation of MJB1 to the design depth of 1.5' BGS. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal.

7:30AM Britt Lukes is loading the soil from MJB1 for transportation and disposal.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:00AM Phone call received from Lou Ivcevic. Holocene Drilling will be onsite today at approximately 1:00PM today to decommission the Monitoring Well/ ECY ID # AKL 272

8:30AM Britt Lukes continues the remedial excavation of MJB1 to the design depth of 1.5' BGS.

9:30AM Milt Unick of RAM Construction is onsite with a KUBOTA KX121 with breaker attachment to break and remove an area of existing concrete slab in the SW corner of MJB1. The concrete slab that is being broken and stockpiled appears to pre-date the placement of the existing quarry spall backfill. No similar quarry spall backfill material is visible at the edges of the concrete slab where it has been

excavated.

9:45AM Bud Whitaker called Rebecca Desrosiers to discuss the concrete slab removal. Rebecca asked to have RAM Construction expose the east and south edges of the existing concrete slabs to help determine if the concrete slabs pre-date the existing quarry spall backfill.

NOTE: Two areas of buried concrete slab adjacent to the existing fire hydrant at MJB1 appears to have been cut through or broken out in the past to provide a pathway and trench for the existing fire hydrant piping. (see photo) RAM Construction will remove these isolated areas of concrete to provide a better backfill section. The approximate dimensions of the concrete areas are 18'x18'x1' thick and 8'x8'x8" thick.

10:30AM Britt Lukes continues with the remedial excavation at the west end MJB1. Lou Ivcevic, Project CESCL is onsite to collect weekly storm water sample/ 13.2 NTU.

INLET PROTECTION NOTE: Engineers Rep. reminded Britt Lukes that the middle catch basin at the west end of MJB1 should be protected from debris entering the drain inlet. Britt stated that Shane Kelling will provide and install a catch basin inlet sock on Thursday 1/7/10.

HAUL ROAD NOTE: Pacific Pile and Marine are off-loading a derrick crane for the Phase 2 work on the haul road adjacent to the Phase 4 construction entrance. Coordination between RAM Construction and Construction Unlimited appears necessary if both entities are utilizing the haul road at same time. Britt will coordinate communication with others as needed.

11:30AM The isolated concrete slab demolition at MJB1 is complete. The broken concrete is left in place for future stockpiling by Britt Lukes.

12:00PM Truck and Trailer Load 13 is loaded for transportation and disposal. This will be last load hauled out until the truck and trailers return from the disposal site.

12:30PM Britt is stockpiling the broken concrete slab debris to the south of the SW corner of the MJB1 excavation for future hauling and disposal.

2:00PM David Dickinson of Holocene Drilling/ Driller Lic. # 3017T is onsite to de-commission the monitoring well. David will use bentonite chips to de-commission and seal the monitoring well. David informed Britt that the top section of the well and well cap may be broken off and backfilled as needed. David has removed the Well ID tag for return to the Department of Ecology.

Truck and Trailer load 14 is loaded for transport and disposal. Other truck and trailers are returning from the disposal site and being loaded for the transportation and disposal of the remedial excavation soil at MJB1.

2:30PM Britt used the HITACHI excavator to break of the top PVC pipe section and well cap concrete surround. The concrete is stockpiled with other broken concrete for future disposal.

3:00PM Britt continues with the remedial excavation and loading at the west end of MJB1.

3:45PM Celorie Truck 18/ Trailer 18T will be last load (27) hauled out today.

TRANSPORTATION NOTE: All trucks and trailers listed above hauled 2 loads each with the exception of Celorie Trucking, John Moore who hauled 2 loads and was then pre-loaded at 3:45PM for next day hauling. The pre-loaded truck and trailer will be staged at Celorie's yard for next day hauling.

3:50PM Shane Kelling is using the DYNAPAC C151 single drum vibratory roller to maintain and compact the haul road in the area of the Phase 4 construction entrance.

4:00PM Britt Lukes is cleaning the MJB1 remedial excavation bottom and stockpiling soil for next shift

hauling. Shane Kelling is re-marking the MJB1 south excavation limits with white marking paint.

4:30PM Ram Construction is offsite. Engineers Representative is wheel measuring the MJB1 excavation for this shift. See quantities in above table.

No safety issues or traffic control issues this shift. Site is secured and appears stable.

See Photos Below:

RAM Construction excavating MJB1.

RAM Construction breaking concrete slab for removal and disposal.

Monitoring Well ID AKL272 decommissioned with Bentonite chips. Well tag removed by driller for return to Dept of Ecology.

RAM Construction maintaining/compacting the haul road entrance near the Phase 4 construction entrance.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

No soil samples collected this shift.

ANCHOR QEA

Daily Construction Report Number: 08

Work Hours: 7:30AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thursday** Date: **01.07.10**

Weather AM: Clear/Cold 10-15kts 33 °F PM: Clear/Cold 10-15kts 40 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 8 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 01.07.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--	**1-EA**	**5-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-Field Meas. approx. 328'x21'x1.5' deep/382.67CY Field Meas. Approx. 52'x38'x1.5' deep/109.78CY	--	**492.45 CY**	**1632.83 CY**
MJB2	--		**49.0 CY**
MJB3	--		**207 CY**
MJB4	--		***12/11-36.57 CY* 12/22-24.5 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**797.71 TON**	**3475.40 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-616-SF* 12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-44.16-TON* 12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		***12/18-22.84-TON* 12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	

	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Supervisor/ Operator	
Shane Kelling	RAM Construction	Laborer/ Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**
Email Message from Brian Martin, requesting photos of Phase 2 work adjacent to the MJB Site.
Email Confirmation with Rebecca Desrosiers regarding excavation marker locations.
Emailed photos of existing soil conditions at SW corner of MJB1 to Rebecca Desrosiers.

7:00AM Contractor is warming up the Hitachi 200LC Excavator to continue the remedial excavation at MJB-1.

TRUCKING/HAULING NOTE: Celorie Bros. Trucking is acting as the Trucking/Hauling Broker. Dump trucks and trailers are provided by the following:

-Majestic Trucking/ Jeff Dehard Truck M569/ Trailer T2
-Majestik Trucking/ Tye Lee Truck M669/Trailer T3
-BW Trucking/ Bud Winter Truck 3/ Trailer 3A
-BW Trucking/ Pete Vanderende Truck 2/ Trailer 2A
-Fischer Trucking/ Dave Fischer Truck 01/ Trailer 02T
-Fischer Trucking/ Jay Horton Truck 02/ Trailer 01T
-Walker Trucking/ Stan Close Truck W12/ Trailer W12T
-Walker Trucking/ Rick Meyers Truck W14/ Trailer 14T
-John Kooy Trucking/ Dave Delrae Truck 01/ Trailer 2TA
-Walker Trucking/ Willy Russell Truck W20/ Trailer T20
-VanZanten Trucking/ Don Dooyema truck 6/ Trailer B6
-Celorie Bros. Trucking/ John Moore Truck 18/ Trailer 18T
-Majestik Trucking/ Tom Dehard Truck M369/ Trailer T1
-Majestik Trucking/ Tye Lee Truck M669/ Trailer M669/ Trailer T3
-Majestik Trucking/ Jeff Dehard Truck M569/ Trailer T2
-BW Trucking/ Bud Winter Truck 3/ Trailer 3A
-BW Trucking/ Pete Vanderende Truck 2/ Trailer 2A
-Fischer Trucking/ Jay Horton Truck 02/ Trailer 01T
-Fischer Trucking/ Dave Fischer Truck 01/ Trailer 02T
-Walker Trucking/ Stan Close Truck W12/ Trailer W12T
-Walker Trucking/ Rick Meyers Truck W14/ Trailer 14T
-Walker Trucking/ Willy Russell Truck W20/ Trailer T20
-VanZanten Trucking/ Don Dooyema Truck 6/ Trailer B6

Dump trucks with trailers are staged along the haul road before entering the work site. Britt will continue with the excavation of MJB1 to the design depth of 1.5' BGS. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

7:00AM Onsite with RAM Construction staff. The limits of the remedial excavation at MJB1 are clearly marked on the ground surface with white marking paint. The survey staking is still in place and survey corners are preserved.

7:45AM Britt Lukes is excavating MJB1 to 1.5'BGS and loading the soil into the dump trucks and trailers brokered by Celorie Bros. Trucking for transportation and disposal.

8:15AM The Engineer's Representative received a call from Lou Ivcevic to confirm the location and placement of the excavation marker. A call was placed to Rebecca Desrosiers to confirm the understanding that no excavation marker is planned for MJB1 at this time. MJB2 will require the placement of an excavation marker in the bottom of the excavation. The excavation survey will determine the basis of payment for the excavation marker.

9:00AM Travis Neu of WH Pacific and Kato of Construction Unlimited are reviewing the condition of the haul road.

10:00AM HAUL ROAD CONDITION NOTE: The haul road existing conditions were reviewed and photographed this shift to document the wear and tear placed on the road during the hauling of the remedial excavation soil to the disposal facility. Minor ruts and wear patterns are visible especially at the exit from the wheel wash station. The Engineers Representative spoke with Mike Hammes regarding the haul road conditions. Mike reiterated that the haul road maintenance is the responsibility of others but will make an effort to maintain the road if it becomes necessary in the future.

Received email message from Brian Martin. Brian is requesting photos of the Phase 2 work being performed adjacent to the MJB site. Photos will be taken and sent via email to Brian.

10:30AM Britt Lukes continues the remedial excavation at MJB1/ working from MCP7 to MCP8. Britt is averaging 20-30 minutes to load each truck and trailer.

The dump trucks and trailers are staging within the fenced area of the MJB site. The Engineers Representative requested that Britt inform the drivers to stay off the concrete paved areas within the site.

10:30AM The abandoned 2" steel conduit that was found at the west end of MJB1 is being cut into manageable lengths by Shane Kelling and stockpiled for future disposal.

11:00AM Shane Kelling is installing the last storm drain catch basin inlet protection sock in the middle basin at the west end of the site. At this time all catch basin inlet protection is installed. Britt Lukes stated that the inlet protection socks will be cleaned (maintained) as needed.

12:00PM RAM Construction crew taking lunch break.

12:30PM Britt continues with the remedial excavation at the west end of MJB1. Britt is cleaning the soil from the edge of the concrete slabs at the west end of MJB1. This will help to provide a visual of the existing conditions beneath the existing concrete slabs at the west end of MJB1.

NOTE: The exposed edges of the soil beneath the concrete slabs at the west end of MJB1 appear to be sandy, gravelly type. No quarry spalls are readily visible under the existing slabs.

1:30PM Brit continues the remedial excavation at the SW corner of MJB1.

SURVEY NOTE: Lou Ivcevic provided the survey calcs. For the MJB4 excavation.

The offsite hauling of the remedial excavation soils is complete for this shift.

Liz Vonkx is scheduled to assist with soil sampling at MJB1 on Friday January 8, 2010.

4:30PM The excavation, transportation and disposal is complete for this shift. The Engineers Representative is offsite procuring additional soil sampling equipment.

The remedial excavation this shift was carried out in a controlled manner. No safety or traffic control issues noted. The site is secured with security fencing and appears stable.

See Photos Below:

MJB-1 Remedial Excavation.

Shane Kelling installing catch basin inlet protection at west end of MJB1.

Haul road conditions at Phase 4 construction entrance.

Soil at west end of MJB1 concrete slab exposed to determine if quarry spalls are present under the existing concrete slab.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

- No sampling this shift.

ANCHOR QEA

Daily Construction Report Number: 09

Work Hours: 7:30AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Friday** Date: **01.08.10**

Weather AM: Lt. Rain 0-10kts. 23 °F PM: Heavy Rain10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 9 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 01.08.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600 LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95 LF**
5-Inlet Protection	1-EA		
MJB1	--		**5 EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-Approx. 15.0 CY stockpiled on 1.08.10	--		**1774.00 CY**
MJB2	--		**49.0 CY**
MJB3	--		**207 CY**
MJB4	--		~~***12/11-36.57 CY***~~ **12/22-24.5 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**329.76**	**3805.16 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-616-SF***~~ **12/28-441 SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-44.16-TON***~~ **12/28-26.00 TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-22.84-TON***~~ **12/28-20.00 TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	
	Mini Excavator	Kubota KX 121-3		1	

	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Liz Vonkx	Anchor QEA	Engineer	
Britt Lukes	RAM Construction	Supervisor	
Shane Kelling	RAM Construction	Laborer/ Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications: Emailed SW MJB1 soil photos to Rebecca Desrosiers and John Laplante**

7:00AM Contractor is warming up the Hitachi 200LC Excavator to continue the remedial excavation at MJB1.

TRUCKING/HAULING NOTE: Celorie Bros. Trucking is acting as the Trucking/Hauling Broker. Dump trucks and trailers are provided by the following:

-Majestic Trucking/ Jeff Dehard Truck M569/ Trailer T2
-Majestik Trucking/ Tye Lee Truck M669/Trailer T3
-Fischer Trucking/ Dave Fischer Truck 01/ Trailer 02T
-Fischer Trucking/ Jay Horton Truck 02/ Trailer 01T
-Walker Trucking/ Willy Russell Truck W20/ Trailer T20
-Walker Trucking/ Stan Close Truck W12/ Trailer 12T
-John Kooy Trucking/ Dave Delrae Truck 01/ Trailer 2TA
-VanZanten Trucking/ Don Dooyema truck 6/ Trailer B6
-Majestik Trucking/ Tye Lee Truck M669/ Trailer M669/ Trailer T3

Dump trucks with trailers are staged along the haul road before entering the work site. Britt will continue with the excavation of MJB1 to the design depth of 1.5' BGS. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

7:00AM Onsite with RAM Construction staff. The limits of the remedial excavation at MJB1 are clearly marked on the ground surface with white marking paint. The survey staking is still in place and survey corners are preserved.

7:45AM Britt Lukes is excavating MJB1 to 1.5'BGS and loading the soil into the dump trucks and trailers brokered by Celorie Bros. Trucking for transportation and disposal.

8:00AM Liz Vonkx, AQ Engineer arrived on site to assist with confirmation soil sampling. A site safety meeting was conducted by Bud Whitaker. The Anchor QEA Health and Safety Plan was reviewed by Liz and Bud and signed by both.

9:00AM Britt Lukes is continuing with the remedial excavation at the SW corner of MJB1. Britt is exposing the edges of the existing concrete slabs to provide a visual of the soil beneath the concrete slabs.

10:00AM Liz Vonkx is preparing soil sample jar labels and chain of custody forms.

The remedial excavation continues at the SW corner of MJB1.

11:00AM The excavation at the SW corner of MJB1 is nearing completion. 9 truck and trailer loads have thus far been hauled this shift. RAM Construction does not have any more truck and trailers scheduled for this shift. Approximately 15 CY of remedial excavation soil will be excavated and packaged in 6mil plastic visqueen for hauling on Monday, 1.11.09.

Bud Whitaker is decontaminating the sampling equipment and laying out the soil sample locations. Liz is placing sample jars in appropriate soil sample locations and providing GPS coordinates of the sample locations.

12:00PM The remedial excavation at MJB1 is complete for this shift.

The soils at the SW corner of MJB1 appear different in color from surrounding soil. Areas of buried sawdust and wood debris are visible.

Photos of existing soil conditions after remedial excavation at the SW corner of MJB1 were sent to Rebecca and John.

1:00PM Confirmation soil sampling continues at MJB1.

6:00PM MJB1 Confirmation soil sampling complete.

See Photos Below:

MJB-1 Remedial Excavation at SW corner.

AQ Staff collecting confirmation soil samples.

Existing concrete structures and vaults at SW corner of MJB1.

Storm drain inlet protection at west end of MJB1.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Liz Vonkx and Bud Whitaker were the samplers. Confirmation Sampling Checklist and Map were previously provided by Rebecca Desrosiers and reviewed prior to confirmation sampling. 79 total samples were collected: 30-each of the excavation sidewalls and 42-each of the excavation bottoms. Three (3) additional duplicate excavation sidewall samples and four (4) additional duplicate excavation bottom samples were taken to satisfy the QA requirement of 1 duplicate per 10-soil samples. Samples taken were marked on the map and labeled as:

- KCP4-SO23-S-100108
- KCP4-SO24-S-100108
- KCP4-SO25-S-100108
- KCP4-SO26-S-100108
- KCP4-SO27-S-100108
- KCP4-SO28-S-100108
- KCP4-SO29-S-100108
- KCP4-SO30-S-100108
- KCP4-SO31-S-100108
- KCP4-SO32-S-100108
- KCP4-SO32D-S-100108 duplicate
- KCP4-SO33-S-100108
- KCP4-SO34-S-100108
- KCP4-SO35-S-100108
- KCP4-SO36-S-100108
- KCP4-SO37-S-100108
- KCP4-SO37-S-100108
- KCP4-SO38-S-100108
- KCP4-SO39-S-100108
- KCP4-SO40-S-100108
- KCP4-SO41-S-100108
- KCP4-SO42-S-100108
- KCP4-SO42D-S-100108 duplicate
- KCP4-SO43-S-100108
- KCP4-SO44-S-100108
- KCP4-SO45-S-100108
- KCP4-SO46-S-100108
- KCP4-SO47-S-100108
- KCP4-SO48-S-100108
- KCP4-SO49-S-100108
- KCP4-SO50-S-100108
- KCP4-SO51-S-100108
- KCP4-SO52-S-100108
- KCP4-SO52D-S-100108 duplicate
- KCP4-SO53-B-100108
- KCP4-SO54-B-100108
- KCP4-SO55-B-100108
- KCP4-SO56-B-100108
- KCP4-SO57-B-100108
- KCP4-SO58-B-100108
- KCP4-SO59-B-100108
- KCP4-SO60-B-100108
- KCP4-SO61-B-100108
- KCP4-SO62-B-100108
- KCP4-SO62D-B-100108 duplicate
- KCP4-SO63-B-100108
- KCP4-SO64-B-100108
- KCP4-SO65-B-100108
- KCP4-SO66-B-100108
- KCP4-SO67-B-100108
- KCP4-SO68-B-100108
- KCP4-SO69-B-100108
- KCP4-SO70-B-100108
- KCP4-SO71-B-100108
- KCP4-SO72-B-100108
- KCP4-SO72D-B-100108 duplicate
- KCP4-SO73-B-100108
- KCP4-SO74-B-100108
- KCP4-SO75-B-100108
- KCP4-SO76-B-100108
- KCP4-SO77-B-100108
- KCP4-SO78-B-100108
- KCP4-SO79-B-100108
- KCP4-SO80-B-100108
- KCP4-SO81-B-100108
- KCP4-SO82-B-100108
- KCP4-SO82D-B-100108 duplicate
- KCP4-SO83-B-100108
- KCP4-SO84-B-100108
- KCP4-SO85-B-100108
- KCP4-SO86-B-100108
- KCP4-SO87-B-100108
- KCP4-SO88-B-100108
- KCP4-SO89-B-100108
- KCP4-SO90-B-100108
- KCP4-SO91-B-100108
- KCP4-SO92-B-100108
- KCP4-SO92D-B-100108 duplicate
- KCP4-SO93-B-100108
- KCP4-SO94-B-100108

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab. One (1) Rinsate Blank bottle was collected after decon [Sample: KCP4-PB-100108]

Liz Vonkx utilized a Trimble GPS to track MJB-1 soil sample locations.

ANCHOR QEA

Daily Construction Report Number: 10

Work Hours: 7:30AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Monday** Date: **01.11.10**

Weather AM: Lt. Rain 0-10kts. 23 °F PM: Overcast10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 10 Reason: NA

Project Pictures? No Subject: Photo Record of Construction Activities 01.11.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600 LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95 LF**
5-Inlet Protection	1-EA		
MJB1	--		**5 EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-Field Meas. approx. 53'x51'x1.5' deep/ 150.17 CY	--	**150.17**	**1774.00 CY**
MJB2	--		**49.0 CY**
MJB3	--		**207 CY**
MJB4	--		~~***12/11-36.57 CY***~~ **12/22-24.5 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**32.72 TON**	**3837.88 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-616-SF***~~ **12/28-441 SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-44.16-TON***~~ **12/28-26.00 TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-22.84-TON***~~ **12/28-20.00 TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	
	Mini Excavator	Kubota KX 121-3		1	

	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Liz Vonkx	Anchor QEA	Engineer	
Britt Lukes	RAM Construction	Supervisor	
Shane Kelling	RAM Construction	Laborer/ Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

The Engineers Field Representative was not on site today.

Liz Vonkx was onsite to collect confirmation soil samples as listed below.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Liz Vonkx was the sampler. Confirmation Sampling Checklist and Map were previously provided by Rebecca Desrosiers and reviewed prior to confirmation sampling. 79 total samples were collected: 30-each of the excavation sidewalls and 42-each of the excavation bottoms. Three (3) additional duplicate excavation sidewall samples and four (4) additional duplicate excavation bottom samples were taken to satisfy the QA requirement of 1 duplicate per 10-soil samples. Samples taken were marked on the map and labeled as:

- KCP4-SO23-S-100108
- KCP4-SO24-S-100108
- KCP4-SO25-S-100108
- KCP4-SO26-S-100108
- KCP4-SO27-S-100108
- KCP4-SO28-S-100108
- KCP4-SO29-S-100108
- KCP4-SO30-S-100108
- KCP4-SO31-S-100108
- KCP4-SO32-S-100108
- KCP4-SO32D-S-100108 duplicate
- KCP4-SO33-S-100108
- KCP4-SO34-S-100108
- KCP4-SO35-S-100108
- KCP4-SO36-S-100108
- KCP4-SO37-S-100108
- KCP4-SO37-S-100108
- KCP4-SO38-S-100108
- KCP4-SO39-S-100108
- KCP4-SO40-S-100108
- KCP4-SO41-S-100108
- KCP4-SO42-S-100108
- KCP4-SO42D-S-100108 duplicate
- KCP4-SO43-S-100108
- KCP4-SO44-S-100108
- KCP4-SO45-S-100108
- KCP4-SO46-S-100108
- KCP4-SO47-S-100108
- KCP4-SO48-S-100108
- KCP4-SO49-S-100108
- KCP4-SO50-S-100108
- KCP4-SO51-S-100108
- KCP4-SO52-S-100108
- KCP4-SO52D-S-100108 duplicate
- KCP4-SO53-B-100108
- KCP4-SO54-B-100108
- KCP4-SO55-B-100108
- KCP4-SO56-B-100108
- KCP4-SO57-B-100108
- KCP4-SO58-B-100108
- KCP4-SO59-B-100108
- KCP4-SO60-B-100108
- KCP4-SO61-B-100108
- KCP4-SO62-B-100108
- KCP4-SO62D-B-100108 duplicate
- KCP4-SO63-B-100108
- KCP4-SO64-B-100108
- KCP4-SO65-B-100108
- KCP4-SO66-B-100108
- KCP4-SO67-B-100108
- KCP4-SO68-B-100108
- KCP4-SO69-B-100108
- KCP4-SO70-B-100108
- KCP4-SO71-B-100108
- KCP4-SO72-B-100108
- KCP4-SO72D-B-100108 duplicate
- KCP4-SO73-B-100108
- KCP4-SO74-B-100108
- KCP4-SO75-B-100108
- KCP4-SO76-B-100108
- KCP4-SO77-B-100108
- KCP4-SO78-B-100108
- KCP4-SO79-B-100108
- KCP4-SO80-B-100108
- KCP4-SO81-B-100108
- KCP4-SO82-B-100108
- KCP4-SO82D-B-100108 duplicate
- KCP4-SO83-B-100108
- KCP4-SO84-B-100108
- KCP4-SO85-B-100108
- KCP4-SO86-B-100108
- KCP4-SO87-B-100108
- KCP4-SO88-B-100108
- KCP4-SO89-B-100108
- KCP4-SO90-B-100108
- KCP4-SO91-B-100108
- KCP4-SO92-B-100108
- KCP4-SO92D-B-100108 duplicate
- KCP4-SO93-B-100108
- KCP4-SO94-B-100108

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab. One (1) Rinsate Blank bottle was collected after decon [Sample: KCP4-PB-100108]

Liz Vonkx utilized a Trimble GPS to track MJB-1 soil sample locations.

ANCHOR QEA

Daily Construction Report Number: 11

Work Hours: 7:30AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thursday** Date: **01.28.10**

Weather AM: Overcast 0-10kts. 40 °F PM: Overcast 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 11 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 01.28.10

Visitors: **9:00AM Travis Neu, WH Pacific/ General site visit/AQ ER Requested keys for haul rd. gate. No keys as yet.**

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**5-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1_Stepout Excavation Field Measured at approx. 15x30x1.5' deep/ 25.0 CY	--	**25.0 CY**	**1799.00 CY**
MJB2-Stepout Excavation Field Measured at approx. 10'x30'x1.5' deep/ 5.56 CY	--	**5.56 CY**	**54.56 CY**
MJB3	--		**207 CY**
MJB4	--		~~***12/11-36.57 CY***~~ **12/22-24.5 CY**
½ hour Force Account Request by Britt Lukes for Test Pit Excavation at MJB2			
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**67.02 TON**	**3904.90 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-616-SF***~~ **12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-44.16-TON***~~ **12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-22.84-TON***~~ **12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	

	Supervisor Work Truck	Chev 3500 HD	B94447B	1	
	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Operator/Supervisor	
Shane Kelling	RAM Construction	Laborer/Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

7:15AM Contractor is warming up the Hitachi 200LC Excavator to continue the remedial supplemental excavations at MJB2 and MJB1.

TRUCKING/HAULING NOTE: Celorie Bros. Trucking is acting as the Trucking/Hauling Broker. Dump trucks and trailers are provided by the following:

-BW Trucking/ Bud Winter Truck 1/ Trailer 2
-BW Trucking/ Pete Vanderende Truck 2/ Trailer 2A

Two Dump trucks with trailers are staged along the haul road before entering the work site. Britt Lukes will be loading 2 truck and trailer loads of the remedial "stepout" excavation soil from MJB1 and MJB2 to the design depth of 1.5' BGS. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal.

NOTE: The Supplemental Remedial Stepout Excavations were previously marked on the ground surface with white marking paint on 26 Jan 2010 with Britt Lukes.

7:30AM Britt Lukes begins excavating the 10'x30'x1.5' deep (approx. 16.67 CY) east remedial stepout excavation at MJB2 and loading the material directly into the dump truck and trailer for transportation and disposal.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:00AM MJB2 Additional Stepout excavation is complete. Britt is moving the excavation equipment to the MJB1 stepout excavation area.

8:10AM Britt begins the 15'x30'x1.5' remedial stepout excavation at MJB1 per Figure C1. The excavated material is being loaded directly into the truck and trailer for direct hauling to Waste Management's Seattle facility.

9:00AM The MJB1 additional remedial stepout excavations at MJB1 and MJB2 are complete. Truck and trailer loads are covered before leaving the work zone. The haul trucks exited the work zone through the construction entrance and proceeded through the wheel wash facility before entering the public roadways.

9:30AM The Engineers Representative inventoried and retrieved the soil sampling equipment from the jobsite trailer.

9:30AM Contacted Rebecca Desrosiers, Project Manager to inform of the remedial excavation completed this shift. Rebecca requested two test pits be excavated at MJB 1. One test pit centered adjacent to each of the easterly and southerly excavation sidewalls to no more than 3' deep was requested.

10:00AM RAM Construction excavated the 1st test pit at the east edge of the remedial excavation. Abandoned concrete slabs and foundations, woody debris, and broken pieces of old red and yellow clay brick were found at approximately 2' BGS.

NOTE: Shane Kelling of RAM Construction noted a strong odor that he described as "sulfur like" coming from the excavation and informed the Engineers Representative, Bud Whitaker. Bud confirmed an unknown odor was present. Excavation of the east test pit was stopped and Britt proceeded to excavate the south test pit. Broken concrete, wood debris and red and yellow clay bricks were found at 2' deep.

10:30AM RAM Construction completed the 2nd test pit excavation at the south edge of the expanded excavation at MJB2. A strong odor was detected during the test pit excavation.

FA NOTE: Britt Lukes stated that test pit excavation was outside RAM Construction's scope and would log and report ½ hour of force account work. See note in Quantities Table above.

NOTE: A call was placed to Rebecca Desrosiers to request guidance regarding the odor present in test pit 1 and 2. Rebecca requested that the test pit 2 excavation be backfilled and confirmation samples be collected from the sidewall and bottom of the test pit 1 excavation.

11:30AM Confirmation soil samples were collected from the stepout excavation at MJB1 and of the test pit 1 at MJB2. The soil samples were collected and delivered to the Onsite Lab for analysis.

2:20PM Bud Whitaker requested keys to the newly installed security gate at the haul road from Travis Neu of WH Pacific. Travis stated that he gave keys to Mike Hammes of RAM Construction.

3:00PM RAM office trailer is locked, site is secured. Engineers Representative off site delivering confirmation soil samples to OnSite Environmental lab.

No safety issues or traffic control issues this shift.

See Photos Below:

MJB2 10'x30'x1.5' deep supplemental remedial excavation.

MJB1 15'x30'x1.5' deep supplemental remedial excavation.

RAM Construction excavating MJB2 easterly test pit.

RAM Construction excavating MJB2 southerly test pit

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Rebecca Desrosiers and Bud Whitaker were the samplers. Confirmation Sampling Checklist and Map were previously provided on-site by Rebecca Desrosiers and were reviewed. 6 total samples were collected: 3-each of the excavation sidewalls and 2-each of the excavation bottoms. 1 chip sample was taken of the concrete debris found in the bottom of MJB2 for TCLP analysis. Samples taken were marked on the map and labeled as:

- KCP4-SO119-S-100128
- KCP4-SO120-S-100128
- KCP4-SO121-B-100128
- KCP4-SO122-S-100128
- KCP4-SO123-B-100128
- KCP4-CO124-100128 Concrete TCLP sample

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab.

Bud Whitaker produced a field drawing with confirmation soil sample locations marked and sent to Rebecca Desrosiers and John Laplante.

ANCHOR QEA

Daily Construction Report Number: 12

Work Hours: 7:30AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tuesday** Date: **02.02.10**

Weather AM: Overcast 0-10kts. 40 °F PM: Overcast 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 12 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 02.02.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**5-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1	--		**1799.00 CY**
MJB2	--		**54.56 CY**
MJB3	--		**207 CY**
MJB4	--		~~***12/11-36.57 CY***~~ **12/22-24.5 CY**
½ hour Force Account Request by Britt Lukes for Test Pit Excavation at MJB2			
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON		**3904.90 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-616-SF***~~ **12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-44.16-TON***~~ **12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-22.84-TON***~~ **12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	

	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Rebecca Desrosiers	Anchor QEA	Project Manager	
Britt Lukes	RAM Construction	Operator/Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

10:30AM On-site to attend the Phase 2 and Phase 4 weekly project meetings.

12:00PM Rebecca Desrosiers requested RAM Construction excavate an additional 3' deep test pit at the south limits of the supplemental remedial excavation at MJB2.

FA NOTE: Britt Lukes stated that test pit excavation was outside RAM Construction's scope and would log and report ½ hour of force account work. See note in Quantities Table above.

No safety issues or traffic control issues this shift.

See Photos Below:

RAM Construction excavating MJB2 2nd southerly test pit.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Rebecca Desrosiers and Bud Whitaker were the samplers. Confirmation Sampling Checklist and Map were previously provided on-site by Rebecca Desrosiers and were reviewed. 2 total samples were collected: 1-each of the MJB2 2nd southerly test pit excavation sidewall and 1-each of the MJB2 2nd southerly test pit excavation bottom. Samples taken were marked on the map and labeled as:

- KCP4-SO125-S-100202
- KCP4-SO126-B-100202

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab.

Bud Whitaker produced a field drawing with confirmation soil sample locations marked and sent to Rebecca Desrosiers and John Laplante.

ANCHOR QEA

Daily Construction Report Number: 13

Work Hours: 7:30AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Friday** Date: **02.05.10**

Weather AM: Overcast 0-10kts. 40 °F PM: Overcast 10-20kts. 44 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Britt Lukes/ Supervisor

Work Day Charge: NA Day: 13 Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 02.05.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**5-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-Field meas. approx. 10'x45'x1.5'deep/25 CY -Field Meas. approx. 20'x20'x1.5' deep/22.5 CY	--	**47.5 CY**	**1846.50 CY** **2/09 Survey Qty. Total 1745.2 CY**
MJB2	--		**54.56 CY** **2/09 Survey Qty. Total 34.24 CY**
MJB3	--		**207 CY** **2/09 Survey Qty. Total 164.94 CY**
MJB4	--		~~***12/11-36.57 CY***~~ **12/22-24.5 CY**
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON	**91.05 TON**	**3995.95 TON**
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-616-SF***~~ **12/28-441-SF**
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-44.16-TON***~~ **12/28-26.00-TON**
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		~~***12/18-22.84-TON***~~ **12/28-20.00-TON**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	

	Utility Pick-Up Truck	Chev 1500 WT	A37891W	1	
	Supervisor Work Truck	Chev 3500 HD	B94447B	1	
	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW	A11363Y	1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Bud Whitaker	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Operator/Supervisor	
Shane Kelling	RAM Construction	Laborer/Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

7:00AM On site with RAM Construction to continue with the supplemental remedial excavation at MJB1. A revised C-1 excavation plan was provided by Rebecca Desrosiers. The limits of excavation were marked on the ground surface with white marking paint.

7:30AM Britt Lukes is warming up the HITACHI excavator and preparing to excavate the soil as marked by Bud Whitaker.

8:00AM Britt began the expanded supplemental excavation at MJB1 according to the plan provided by Rebecca Desrosiers.

TRUCKING/HAULING NOTE: Celorie Bros. Trucking is acting as the Trucking/Hauling Broker. Dump trucks and trailers are provided by the following:

-BW Trucking/ Pete Vanderende Truck 3/ Trailer 3A
-John Kooy Trucking/ John Kooy Truck W10/ Trailer T10
-John Kooy Trucking/ Dave Delrae Truck 1/ trailer TA2

Dump trucks with trailers are staged on-site. Britt will begin the 2nd supplemental remedial excavation of MJB1 to the design depth of 1.5' BGS. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

9:00AM The supplemental remedial excavation is complete.

9:00AM AQ ER begins collecting confirmation soil samples.

12:00PM RAM office trailer is locked, site is secured. Engineers Representative off site delivering confirmation soil samples to OnSite Environmental lab.

No safety issues or traffic control issues this shift.

See Photos Below:

MJB1 Layout of supplemental remedial excavation.

MJB1 supplemental remedial excavation.

RAM Construction excavating MJB1 Supplemental excavation.

RAM Construction loading remedial excavation soil for transport and disposal/ Storm drain inlet protection adjacent to the excavation.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Bud Whitaker was the sampler. Confirmation Sampling Checklist and Map were previously provided on-site by Rebecca Desrosiers and was reviewed. 4 total samples were collected: 2-each of the excavation sidewalls and 2-each of the excavation bottom. Samples taken were marked on the map and labeled as:

- KCP4-SO127-S-100205
- KCP4-SO128-S-100205
- KCP4-SO129-B-100205
- KCP4-SO130-B-100205

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab.

Bud Whitaker produced a field drawing with confirmation soil sample locations marked and sent to Rebecca Desrosiers and John Laplante.

ANCHOR QEA

Daily Construction Report Number: 14

Work Hours: 8:00AM to 12:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tue** Date: **07.27.10**

Weather AM: Clear /slight breeze 70 °F PM: Clear /slight breeze 5kts. 80 °F

Contractor: RAM Construction Subcontractor: Kooy Trucking, and Ludtke Trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 07.27.10

Visitors: **John Laplante, Brian Martin, Lou (Ram)**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck		B188501H	1	
	Utility Pick-Up Truck		A49490Y	1	
	Large yellow dump truck (not used)			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Wes MacDonald	Anchor QEA	Engineers Rep.	
Rick	RAM Construction	Supervisor	
Jamie	RAM Construction	Laborer/Operator	
Lou	RAM Construction	Project Manager	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

8:00AM Contractor is onsite placing steel plates at entrance gate with excavator.

AQ Staff/ Wes MacDonald walks site and familiarizes self with operations. Talks to dump truck drivers who are leaving site hauling material out from another portion of the site for another operation (Pacific Pile?).

TRUCKING/HAULING NOTE: Kooy Trucking is acting as one of the Trucking/Hauling brokers using the following dump trucks and trailers:

-Ben Truck W14 (24496RP)/ Trailer 6567UC
-John Sr. Truck W8 (A13049J)/ Trailer 6566UC
-John Jr. Truck W10 (B25474B)/ Trailer 6569UC
- John Jr. Truck 3 (24495RP)/ Trailer 2001SR

Dump trucks with trailers are staged along the haul road before entering the work site. Contractor loads trucks with material (gray, sandy gravel, cobbles, and boulders) from stockpile north of open pit along the northeast corner of fenced area. The truck and trailers will exit the work site through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal. Dump trucks are transporting material to Waste Management facility in Seattle.

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:30AM Begin loading material into three dump truck and trailer combos (Trucks W14, W8, and W10).

9:00AM Three dump truck and trailer combos from Kooy (Trucks W14, W8, and W10) are covered, washed, and offsite.

Ladtke Trucking is acting as the other Trucking/Hauling broker using the following trucks and trailers to carry open-topped containers to the train yard:

-Cliff Truck 4 (9748LQ)
-Bryan Truck 95 (57437)

Containers are mounted on trailer of 18-wheelers. Containers are open topped. Contractor loads containers with material from stockpile initially with 7 scoops of the excavator bucket (approximately 31 tons according to contractor). The second loads were loaded with approximate 5.5 scoops of the excavator bucket. The third loads were loaded with 6 scoops of the excavator bucket. The 18-wheelers exited the work site through the construction entrance and then proceeded through the wheel wash before entering public roadways. Containers were not covered, but were not completely full due to weight limits (soil was approximately 4-6 feet high in the containers). Container trucks are transporting material to train yard approximately 10 miles away.

9:00AM Begin loading material into Trucks 4 and 95.
9:20AM Trucks 4 and 95 carrying containers loaded with material are through tire wash and off site. Engineer's Representative (ER) off-site to obtain sampling container.

9:30AM ER returns on site.

9:45AM Sample taken from stockpile that is being removed today. Sample is placed in 5-gallon white bucket for Rebecca Desrosiers. Hitachi Zaxis 200 LC is moving ecology blocks to form wall for future stockpiling.

9:50AM Brian Martin from Kimberly Clark stops by on way to meeting for brief discussion and update on the day's progress.

10:05AM Container trucks 4 and 95 return and load. Discussion with Contractor and truck drivers regarding the weight of previous loads and possible material being lost during transportation (None observed). 5.5 scoops of excavator bucket in each container on this round. Material is piled up approximately 4 feet high in each container. Containers are approximately 10 feet tall.

10:20AM John Laplante of Anchor QEA stops by to check in on the day's progress. Discussion of covering containers. Phone call and message left to Rebecca Desrosiers regarding previous container transportation protocols.

10:25AM Trucks 4 and 95 loaded with material are through tire wash and off site.

11:10AM Container trucks 4 and 95 being loaded with material. Approximately 6 scoops of the excavator bucket in each.

11:25AM Container trucks 4 and 95 loaded with material are through tire wash and off site.

11:45AM A fourth Kooy dump truck (truck 3) and trailer arrive on site and is loaded with material. This is the last load. Small amount of stockpile material is left. Contractor states this material will be removed with next round of disposal.

12:05PM Last dump truck of stockpile material (truck 3) is through tire wash, covered, and off site.

12:10PM Container truck 95 arrives on site and is sent away empty. Contractor states the remainder of the day will be spent moving the piles of wood and steel debris in preparation for tomorrow's excavations, stockpiling, and sampling. A water truck will be brought on site for dust control.

Contractor estimates approximately 310 tons of stockpile materials were removed today. In total, it took 4 loads of dump trucks with trailers and 6 loads of container trucks to haul the stockpiled material away.

12:30PM ER and Lou of Ram off site.

TRANSPORTATION NOTE: All dump trucks and trailers listed above hauled 1 load each. All container trucks listed above hauled three loads each.

No safety issues or traffic control issues this shift. Site is secured and appears stable.

See Photos Below:

RAM Construction preparing to load Kooy dump truck with material from stockpile area.

Steel plates RAM Construction laid down at site entrance.

Ram Construction preparing to load stockpile material into Container Truck 4.

Previous stockpile area after loading all stockpile material.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

One bulk sample of the stockpile material being hauled away was taken in a 5-gallon, white Ace hardware bucket. Sample was labeled KC10-Bulk-0727 and transported to the Anchor QEA office. Material was dry, gray, GW, sandy GRAVEL with cobbles and boulders.

ANCHOR QEA

Daily Construction Report Number: 15

Work Hours: 8:00 AM to 2:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tuesday** Date: **07.28.10**

Weather AM: Clear, sunny 55 °F PM: Clear, sunny 70 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title:

Work Day Charge: NA Day: Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 07.28.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1- Field Meas. approx. 60x10'x6' deep (Area B)/133.33CY Field Meas. approx. 10x10x0.5' deep (Area B)/1.85CY	--	**135.18CY**	
MJB2- Field Meas. approx. 20x10'x3' deep/22.22 CY	--	**22.22 CY**	
MJB3 - Field Meas. approx. 20x10'x1.5' deep/11.11 CY	--	**11.11 CY**	
MJB4	--		
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON		
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT		1	
	Supervisor Work Truck	Chev 3500 HD		1	
	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory Roller	Dynapac CA 151D 16,100#		1	

	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
David Gillingham	Anchor QEA	Engineers Rep.	
Delaney Peterson	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Operator/Supervisor	
Shane Kelling	RAM Construction	Laborer/Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

7:30AM Contractor is warming up the Hitachi 200LC Excavator to perform additional remedial excavation at MJB1, MJB2, and MJB3.

8:00AM AQ marks out excavation areas.

8:45AM Britt Lukes is excavating area adjacent to MJB3 and defined by corner points MCP28, MCP44, MCP45, and MCP46 (Area D) to the design depth of 1.5' BGS. All excavated soil is loaded into John Deere dump truck and a new stockpile (Stockpile 6) is formed southwest of existing stockpiles. David and Delaney begin to collect samples from stockpiles.

9:00AM Excavation of MJB3 is complete and begins excavation of area defined by corner points MCP29, MCP38, MCP39, and MCP40 (Area C) to a design depth of 3' BGS. Elevation controls are used to keep excavation from going below 3'. David and Delaney begin collecting soil samples at Area C. White substance noted in east sidewall of Area D.

9:15 AM Excavation of Area C complete. Waiting for archaeologist to arrive to begin excavation of MJB1 defined by corner points MCP41, MCP42, MCP43, and MCP5 (Area B). David and Delaney begin collecting soil samples at Area C.

10:00AM Archaeologist on site to observe excavation and excavation of Area B begins to a depth of 6' BGS. Wood, pipe, and concrete debris observed during excavation. Also, Area A excavated an additional 6". David and Delaney continue collecting stockpile samples.

1:00PM Excavation of Area B complete. Excavator assists AQ staff in collecting soil samples from sidewalls of Area B. All excavated soil placed in Stockpile 6.

1:30PM David and Delaney begin collecting soil samples from Stockpile 6.

2:00PM Stockpile 6 is covered with plastic. Site is cleaned up and secured.

No safety issues or traffic control issues this shift.

See Photos Below:

RAM Construction excavating Area C.

Newly excavated Area D.

Newly excavated Area C (foreground) while RAM excavates Area B with archaeologist observing.

Newly excavated Area B.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

David Gillingham and Delaney Peterson were the samplers. Map was provided previously by Rebecca Desrosiers. 34 total samples were collected: 10-each of the excavation sidewalls, 4-each of the excavation bottoms and 20-each of the stockpiles. Four additional duplicate samples were taken to satisfy the QA requirement of 1 duplicate per 10-soil samples collected. Samples taken were marked on the map and labeled as:

- KCP4-SO156-B-100728
- KCP4-SO157-S1-100728
- KCP4-SO158-S1 -100728
- KCP4-SO159-B-100728
- KCP4-SO159B-B-100728 (duplicate)
- KCP4-SO160-S1-100728
- KCP4-SO161-S1-100728

- KCP4-SO162-S1-100728
- KCP4-SO163-B-100728
- KCP4-SO164-B-100728
- KCP4-SO165-S1-100728
- KCP4-SO165B-S1-100728 (duplicate)
- KCP4-SO165-S2-100728
- KCP4-SO166-S2-100728
- KCP4-SO167-S2-100728
- KCP4-BK01-A-100728
- KCP4-BK01-B-100728
- KCP4-BK01-C-100728
- KCP4-BK01-D-100728
- KCP4-BK01-E-100728
- KCP4-BK01B-E-100728 (duplicate)
- KCP4-BK03-A-100728
- KCP4-BK03-B-100728
- KCP4-BK03-C-100728
- KCP4-BK03-D-100728
- KCP4-BK03-E-100728
- KCP4-BK04-A-100728
- KCP4-BK04-B-100728
- KCP4-BK04-C-100728
- KCP4-BK04-D-100728
- KCP4-BK04-E-100728
- KCP4-BK06-A-100728
- KCP4-BK06-B-100728
- KCP4-BK06-C-100728
- KCP4-BK06-D-100728
- KCP4-BK06-E-100728
- KCP4-BK06B-E-100728 (duplicate)

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab. One (1) Rinsate Blank bottle was collected after decon [Sample: KCP4-EB-100728]

David Gillingham utilized a Trimble GPS to track all soil sample locations with the exception of Area B..

ANCHOR QEA

Daily Construction Report Number: 16

Work Hours: 8:00 AM to 11:30AM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tuesday** Date: **08.16.10**

Weather AM: Clear, sunny 60 °F PM: Clear, sunny 75 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title:

Work Day Charge: NA Day: Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 08.16.10

Visitors:

Work/Materials Provided/Installed	Estimated Qty.	Today Qty.	Total Qty.
Division 1-General Requirements			
1-Mobilization	1-LS		
NOTE: 600-LF Hi-Vis Fencing Installed at Phase 4 Perimeter	--		**600-LF**
Division 2-Site Work			
2-Construction Surveying	1-LS		
3-ESC Lead	1-DAY		
4-Silt Fence	370-LF		
MJB3	--		**95-LF**
5-Inlet Protection	1-EA		
MJB1	--		**4-EA**
6-Storm Drain Repair	340-LF		
7-Well Abandonment	1-EA		
8-Phase 4 Remedial Excavation	2450-CY		
MJB1-	--		
MJB2-	--		
MJB3 -	--		
MJB4 – Field Meas. Approx. 20'x20'x3' deep/44.44 CY Field Meas. Approx. 20'x10'x3' deep/22.22 CY Field Meas. Approx.30'x20'x1.5' deep/33.33 CY Field Meas. Approx.20'x15'x1.5' deep/16.67 CY	--	**116.66 CY**	
9-Phase 4A Transportation & Off-Site Disposal of Debris and Subtitle D Soil	4040-TON		
10-Phase 4A Purchase, Deliver and Place Excavation Marker	1000-SF		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		
11-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Quarry Spalls	3600-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		
12-Phase 4A Purchase, Deliver, Place, Compact and Grade Imported Crushed Rock	440-TON		
MJB1	--		
MJB2	--		
MJB3	--		
MJB4	--		

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck	Chev 1500 WT		1	
	Supervisor Work Truck	Chev 3500 HD		1	
	Mini Excavator	Kubota KX 121-3		1	
	Single Drum Vibratory	Dynapac CA 151D 16,100#		1	

	Roller				
	Rubber Tire Loader	John Deere 544H		1	
	Dozer on Track	John Deere 650H		1	
	Kenworth Hauler	Truck #61/ WSDOT 147026/ 102,000 GVW		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Ben Howard	Anchor QEA	Engineers Rep.	
Delaney Peterson	Anchor QEA	Engineers Rep.	
Britt Lukes	RAM Construction	Operator/Supervisor	
Shane Kelling	RAM Construction	Laborer/Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

****Communications:**

TRUCK TIRE WASH NOTE: Truck Tire Wash facility is functional.

8:00AM Contractor is warming up the Hitachi 200LC Excavator to perform additional remedial excavation at MJB4.

8:25AM AQ completes marking out excavation areas.

8:45AM RAM begins excavation of SE area of MJB4 to 1.5' BGS. All excavated soil is loaded into dump truck and stockpiled at supplemental area east of stockpile. Ben and Delaney begin to collect samples from stockpiles.

9:30AM Excavation of SE area of MJB4 is complete and Ben and Delaney begin collecting soil samples in SE area.

9:45AM RAM begins excavation of SW area of MJB4 to a design depth of 3' BGS. Elevation controls are used to keep excavation from going below 3'.

10:00 AM Ben and Delaney collect remainder of stockpile samples.

10:45AM Excavation of SW area of MJB4 complete. Ben and Delaney collect soil samples from SW area.

11:00AM Last sample collected. Stockpile covered with plastic. Site is cleaned up and secured.

11:30AM Depart site.

No safety issues or traffic control issues this shift.

See Photo Below:

RAM Construction excavating SE Area of MJB-4.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Ben Howard and Delaney Peterson were the samplers. Map was provided previously by Rebecca Desrosiers. 13 total samples were collected: 5-each of the excavation sidewalls, 3-each of the excavation bottoms and 5-each of the stockpiles. Two additional duplicate samples were taken to satisfy the QA requirement of 1 duplicate per 10-soil samples collected. Samples taken were marked on the map and labeled as:

- KCP4-BK168-100816
- KCP4-BK169-100816
- KCP4-BK169B-100816 (duplicate)
- KCP4-BK170-100816
- KCP4-BK173-100816
- KCP4-BK174-100816
- KCP4-SO171-S1-100816
- KCP4-SO172-S1-100816
- KCP4-SO175-B-100816
- KCP4-SO176-B-100816
- KCP4-SO176-B-B-100816 (duplicate)
- KCP4-SO177-S1-100816
- KCP4-SO178-B-100816
- KCP4-SO179-S1-100816
- KCP4-SO180-S1-100816

Sampling equipment was decontaminated, sample jars were labeled and Chain of Custody forms were prepared. Transport coolers and ice are provided for storage during transport to lab. One (1) Rinsate Blank bottle was collected after decon [Sample: KCP4-EB-100816]

A Trimble GPS was utilized to track all soil sample locations.

ANCHOR QEA

Daily Construction Report Number: 17

Work Hours: 7:30AM to 12:40PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Mon** Date: **09.20.10**

Weather AM: Cloudy, periodic showers 55 °F PM: Cloudy, periodic showers 60 °F

Contractor: RAM Construction Subcontractor: Kooy Trucking

Contractors Rep/ Title: Lou/Project Manager Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 09.20.10

Visitors: **Lou (Ram)**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck			1	
	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Wes MacDonald	Anchor QEA	Engineers Rep.	
Rick	RAM Construction	Supervisor	
Jamie	RAM Construction	Laborer/Operator	
Lou	RAM Construction	Project Manager	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

7:40AM Onsite with contractor awaiting arrival of dump trucks. Discussion of day's activities including excavation of new area and transporting pit material from covered area inside ecology block pen.

8:00AM Begin loading Truck 1 with material from ecology block pen.

AQ Staff/ Wes MacDonald walks site and marks off 20' by 40' area for excavation. Upper quarry spalls material will be excavated from this area and transported offsite along with material from ecology block pen. Excavator operator is instructed to remove quarry spalls in marked area and additional 6 inches from 10' by 10' area.

TRUCKING/HAULING NOTE: Kooy Trucking is acting as one of the Trucking/Hauling brokers using 6 trucks with trailers for the first round.

Dump trucks with trailers are staged within fence around the worksite. Contractor loads trucks with material from large covered stockpile within ecology block pen along the south middle portion of fenced area. The truck and trailers will exit the worksite through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal. Dump trucks are transporting material to Waste Management facility in Seattle.

8:15AM Truck 1 covered and out. Truck 2 loading waste material from large covered stockpile.

8:20AM Truck 2 covered and out. Truck 3 loading waste material from large covered stockpile.

8:25AM Truck 3 covered and out. Truck 4 loading waste material from large covered stockpile.

8:30AM Truck 4 covered and out. Truck 5 loading waste material from excavated quarry spalls area

8:40AM Call to John Laplante regarding re-sampling in 10' by 10' area that failed and is now being over excavated. It is OK to over excavate larger area due to uncertainties of the extents of this area. Truck 5 covered and out.

8:45AM Truck 6 loading waste material from excavated quarry spalls area.
.
9:00AM Truck 6 covered and out with quarry spalls.

9:15AM Meeting with Rick and Lou of RAM. Three additional trucks will be coming in the next round of loading about 11AM (9 total). Excavation of interest areas completed. Commence sampling.

10:30AM Truck 7 onsite being loaded with waste material from large covered stockpile.

10:45AM Truck 7 covered and out. Two surface samples taken in 20' by 40' area excavated this morning, SO194-B and SO195-B (north and south halves of area, respectively). SO195-B has duplicate sample (SO198-D).

11:15AM Two sidewall samples taken from 20' by 40' area (SO196-S and SO197-S). Base sample taken in 10' by 10' area (SO199-B). Six samples total. Truck 8 onsite and loading waste material from large, covered stockpile.

11:50AM Truck onsite loading waste material from large covered stockpile. Email from Rebecca Desrosiers regarding concrete pile sampling. The mound of concrete closest to today's excavation needs sampling. The excavated pit is filled with too much water to sample safely today. Concrete mound sampling will be conducted another day. Truck 10 onsite loading waste material from large covered stockpile.

12:40PM Anchor QEA representative offsite. Ram continues loading waste material into trucks onsite.

No safety issues or traffic control issues this shift.

See Photos Below:

RAM Construction loading waste material from large covered stockpile.

Location of six samples taken marked with labeled flags

Quarry spall layer in 20′ by 40′ area being excavated.

Pit area full of water and covering up concrete piles.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Four base samples taken from excavated 20’ by 40’ and 10’ by 10’ area, including one duplicate (SO194-B, SO195-B, SO198-D, SO199-B) and taken to On-Site Environmental in Redmond, WA. Base material, was moist, brown, sandy GRAVEL, GW, with cobbles.

Two sidewall samples were taken from excavated 20’ by 40’ area (SO196-S, SO197-S) and taken to On-Site Environmental in Redmond, WA. Sidewall material was moist, dark gray, slightly sandy, angular GRAVEL, GP, with cobbles and trace sheen.

Labeled survey flags were placed in the location of each sample taken today.

ANCHOR QEA

Daily Construction Report Number: 18

Work Hours: 7:30AM to 12:40PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thu** Date: **09.23.10**

Weather AM: Cloudy, Windy 55 °F PM: Cloudy, Windy 55 °F

Contractor: RAM Construction Subcontractor: Kooy Trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 09232010

Visitors: **Lou (Ram)**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Wes MacDonald	Anchor QEA	Engineers Rep.	
Rick	RAM Construction	Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

12:05PM AnchorQEA (AQ) representative arrives onsite. Rick from Ram is only person onsite and is cleaning up debris from excavated areas near the large pit. No other activity. The large ecology block pen that was being loaded into trucks on September 20, 2010 is now empty. The small ecology block pen is partially empty.

12:20PM AQ representative, Wes MacDonald, walks site and marks off 20' by 30' area for excavation. Upper quarry spalls material will be excavated from this area and transported offsite along with material from small ecology block pen. Excavator operator is instructed to remove quarry spalls layer in marked area. Excavator removes said layer and transports it to the small ecology block pen where it will be loaded into trucks with material already in pen.

1:00PM Truck from Kooy Trucking arrives onsite and is loaded with material from small ecology block pen. Chemistry sampling of excavated area commences.

TRUCKING/HAULING NOTE: Kooy Trucking is acting as one of the Trucking/Hauling brokers. Wheel-wash in operation.

Dump trucks with trailers are staged within fence around the worksite. Contractor loads trucks with material from stockpile within small ecology block pen along the south middle portion of fenced area. The truck and trailers will exit the worksite through the construction entrance and then proceed through the wheel wash before entering the public roadways. All loads will be covered while transporting the soils for disposal. Dump trucks are transporting material to Waste Management facility in Seattle.

One surface sample taken in 20' by 30' area excavated this afternoon, SO200-B. SO200-B has duplicate sample, SO201-D. Two sidewall samples taken from 20' by 30' area (SO202-S and SO203-S). Four soil samples total. .

2:00PM Call to Rebecca Desrosiers regarding sampling of concrete mounds currently under water in the large pit. Ram will be asked to remove several chunks of concrete from the large pit and chunks of concrete will be sampled after knocking small pieces off with hammer.

Ram removes 2 large blocks of concrete from in-water concrete pile near MCP41. These two blocks were sampled together as CO204-A and both marked with an "A" in white paint. Ram is instructed to keep track of labeled concrete and where it goes onsite if they need to be moved or broken up. Another large piece of concrete is removed by Ram from in-water concrete pile just north of concrete material A. The concrete is sampled as CO205-B and labeled "B" in white paint.

3:00PM AQ representative offsite. Ram continues removing concrete from in-pit/water concrete pile in NE corner of pit.

No safety issues or traffic control issues this shift.

See Photos Below:

20′ by 30′ area being excavated and material taken to small ecology block pen in background, where it is then loaded into trucks once they arrived.

Location of concrete mounds submerged by water in the pit (looking north). The pile labeled "A" is in the foreground and "B" in the back ground to the left.

Water-filled pit after 3 large concrete blocks removed (looking north).

Labeled concrete blocks "A" and "B" that were removed from the water-filled pit today.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Two base samples taken from excavated 20' by 30' area, including one duplicate (SO200-B and SO201-D) and taken to On-Site Environmental in Redmond, WA. Base material, was damp, brown, gravelly SAND, SW, with cobbles.

Two sidewall samples were taken from excavated 20' by 30' area (SO202-S, SO203-S) and taken to On-Site Environmental in Redmond, WA. SO202-S was dry, brown, silty, gravelly SAND (SW). S0203-S was moist, dark gray, gravelly SAND, SW, with cobbles.

Two concrete samples were taken from concrete blocks removed from the water-filled pit. CO204-A was sampled from two blocks of concrete removed from the middle east side of the pit and CO205-B was sampled from a concrete block removed from the pit just north of CO204-A.

Labeled survey flags were placed in the location of each soil sample taken today. Concrete blocks that were sampled were labeled in white paint as either "A" or "B'.

Construction Daily Report

Project: Scott Mill Site Cleanup
Anchor Project Number: 080550-01.01

Book Number: 1

From 10/01/01 to 10/01/01

ANCHOR
ENVIRONMENTAL, L.L.C.

ANCHOR ENVIRONMENTAL, L.L.C.

Daily Construction Report Number: 19

Work Hours: to Sub. to

Project Number: 080550-01 Day: Friday Date: October 1, 2010

Weather AM: 11:00 AM L: 60 °F PM: 2:30 PM H: 75 °F

Tides:

Time	Height

Contractor: RAM Construction Sub:

Contractors Rep and Title: Lou – Project Manager

Work Day Charge: Day: Reason:

Project Pictures? X Yes ☐ No Subject: Concrete Storm Drain Pipe Installation

Visitors:

Item #	Item Description	Quantity Today	√	Remarks
	Gasketed Concrete Storm Drain Pipe	~64 LF		Installed nearly eight 8-foot sticks of concrete pipe.

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays)

I arrived on site a few minutes before 11:00 AM on Friday, October 1. The weather was clear and warm. Two workers were on site when I arrived; a laborer and an operator. They were in the process of installing concrete pipe. The project manager, Lou, arrived on site shortly after I arrived. He and I reviewed the installation together.

The excavation had been mostly dewatered on the north side by constructing a temporary dike and pumping water from the north side of the excavation to the south side of the excavation.

David Rice, P.E.

Resident Engineer

Project Engineer

ANCHOR ENVIRONMENTAL, L.L.C.

Diary (continued) Date: Report Number:

Pumps were operating through most of the day to dewater the south side of the excavation. The south side of the excavation was mostly dewatered by the time I left the site (at ~2:30 PM). After the north side of the excavation was mostly dewatered, the contractor placed quarry spalls in the bottom of the excavation to stabilize the bottom of the excavation, which was still wet and soft.

The contractor installed almost eight sticks of 8-foot long concrete storm drain pipe. Gaskets were placed at joints with joint lubricant. Pipes were installed using a steel cable and an excavator. Each stick of pipe was set into position horizontally and vertically using a rod and a laser level. The pipe was held in position while crushed rock was placed and adjusted as needed to support the pipe at the required grade and alignment.

Pipeline installation began at the bell end of an existing concrete pipe at the east wall of the excavation. The spigot end of a new pipe was inserted into the bell end of the existing pipe as tightly as possible. Pipe was then installed from east and west to the end of the existing pipe that was protruding from the west wall of the excavation. A catch basin had been removed at that location and the end of the concrete pipe wasn't completely square. The bell of the last piece of pipe installed had to be cut to make the pipe fit. There was a small gap between the cut end of the new pipe and the end of the existing pipe (<2 inches). A Fernco coupling was installed to make up the difference. A cubic yard of concrete was placed over the joints between existing and new pipes at each end of the installation to secure the joints.

The contractor was also importing pit run backfill throughout the day that will be used to backfill the excavation. The pit run was placed at the north end of the excavation. After installing the pipe, the pipe was partially backfilled with pit run.

Per my observation, the pipe was installed to meet the requirements of the specification. The pipe appeared to be straight and free of sags or rises when I left the site. It is my understanding that no testing was required to verify the alignment and grade of the pipe or the suitability of backfill materials.

Resident Engineer

David Rice, P.E.

Project Engineer

ANCHOR QEA

Daily Construction Report Number: 20

Work Hours: 7:30AM to 12:40PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Mon** Date: **10.11.10**

Weather AM: Sunny, Calm 55 °F PM: NA NA °F

Contractor: RAM Construction Subcontractor: Kooy Trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 10112010

Visitors: **Jimmy (MJB)**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 200LC		1	
	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick	RAM Construction	Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

7:15AM AnchorQEA (AQ) representative arrives onsite. Rick from Ram is onsite and is talking with the truckers from Kooy Trucking. There are 6 empty dump trucks onsite, each with a trailer. No other activity.

7:30AM AQ representative, Liz Vonckx and Rick (Ram) walk site and mark off 60' by 30' area for excavation. Upper quarry spalls material will be excavated from this area and transported offsite. Excavator operator (Rick) begins removing quarry spalls layer in marked area and loads it directly into dump trucks. The trucks exit the worksite through the construction entrance and pass through the wheel wash before entering the roadway. The trucks head to the Waste Management facility in Seattle.

7:45 AM Liz (AQ) commences sample collection activities. She collects GPS coordinates at each sample location using a Trimble GeoXT. She first collects a sample of concrete (CO206) from a pile of five large concrete pieces just to the southeast of the area to be excavated. The outer layer of concrete was removed with a rock chisel and hammer then the sample was taken by chipping off small pieces.

8:00 AM Liz (AQ) begins collecting soil samples from the newly-excavated area. Seven samples total were taken from within the 60' by 30' area: three surface base samples, three sidewall samples and one duplicate sample. The sample IDs ranged from SO206 to SO213.

8:40AM Rick (Ram) points out an 3' X 6' area within the excavated area containing white material. Liz (AQ) calls to Rebecca Desrosiers regarding this white material.

9:00AM Rick (Ram) finishes the excavation of the 60' by 30' area. The last of the 6 trucks is loaded. The amount of material excavated exactly fits the capacity of the 6 trucks. Rick stays onsite to perform other site tasks including sorting and organizing PVC pipe.

9:15AM Liz (AQ) finishes soil sampling and leaves site.

9:40AM Liz (AQ) returns briefly to site to collect sample of white material for later visual inspection.

No safety issues or traffic control issues this shift.

See Photos Below:

Excavation of 60′ by 30′ area and loading of material into trucks.

Excavation of 60′ by 30′ area and loading of material into trucks. The pile of sampled concrete is to the left in the photo.

Concrete pile to the southeast of excavated area.

Excavated area after completion.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Three base samples taken from excavated 60' by 30' area, including one duplicate (SO208-B and SO209-D) and taken to On-Site Environmental in Redmond, WA. Base material, was damp, brown, gravelly SAND (SW).

Three sidewall samples were taken from excavated 60' by 30' area (SO211-S, SO212-S, SO213-S) and taken to On-Site Environmental in Redmond, WA. All sidewall samples were dry, brownish-grey, sandy GRAVEL with few silt.

One concrete sample (CO206) was taken from concrete chunks to the southeast of the newly-excavated area.

Construction Daily Report

Project: Scott Mill Site Cleanup
Anchor Project Number: 080550-01.01

Book Number: 1

From 10/01/01 to 10/01/01

ANCHOR
ENVIRONMENTAL, L.L.C.

ANCHOR ENVIRONMENTAL, L.L.C.

Daily Construction Report Number:

Work Hours: to Sub. to

Project Number: 080550-01 Day: Friday Date: October 1, 2010

Weather AM: 11:00 AM L: 60 °F PM: 2:30 PM H: 75 °F

Tides:

Time	Height

Contractor: RAM Construction Sub:

Contractors Rep and Title: Lou – Project Manager

Work Day Charge: Day: Reason:

Project Pictures? X Yes ☐ No Subject: Concrete Storm Drain Pipe Installation

Visitors:

Item #	Item Description	Quantity Today	√	Remarks
	Gasketed Concrete Storm Drain Pipe	~64 LF		Installed nearly eight 8-foot sticks of concrete pipe.

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays)

I arrived on site a few minutes before 11:00 AM on Friday, October 1. The weather was clear and warm. Two workers were on site when I arrived; a laborer and an operator. They were in the process of installing concrete pipe. The project manager, Lou, arrived on site shortly after I arrived. He and I reviewed the installation together.

The excavation had been mostly dewatered on the north side by constructing a temporary dike and pumping water from the north side of the excavation to the south side of the excavation.

David Rice, P.E.

Resident Engineer Project Engineer

ANCHOR ENVIRONMENTAL, L.L.C.

Diary (continued) Date: Report Number:

Pumps were operating through most of the day to dewater the south side of the excavation. The south side of the excavation was mostly dewatered by the time I left the site (at ~2:30 PM). After the north side of the excavation was mostly dewatered, the contractor placed quarry spalls in the bottom of the excavation to stabilize the bottom of the excavation, which was still wet and soft.

The contractor installed almost eight sticks of 8-foot long concrete storm drain pipe. Gaskets were placed at joints with joint lubricant. Pipes were installed using a steel cable and an excavator. Each stick of pipe was set into position horizontally and vertically using a rod and a laser level. The pipe was held in position while crushed rock was placed and adjusted as needed to support the pipe at the required grade and alignment.

Pipeline installation began at the bell end of an existing concrete pipe at the east wall of the excavation. The spigot end of a new pipe was inserted into the bell end of the existing pipe as tightly as possible. Pipe was then installed from east and west to the end of the existing pipe that was protruding from the west wall of the excavation. A catch basin had been removed at that location and the end of the concrete pipe wasn't completely square. The bell of the last piece of pipe installed had to be cut to make the pipe fit. There was a small gap between the cut end of the new pipe and the end of the existing pipe (<2 inches). A Fernco coupling was installed to make up the difference. A cubic yard of concrete was placed over the joints between existing and new pipes at each end of the installation to secure the joints.

The contractor was also importing pit run backfill throughout the day that will be used to backfill the excavation. The pit run was placed at the north end of the excavation. After installing the pipe, the pipe was partially backfilled with pit run.

Per my observation, the pipe was installed to meet the requirements of the specification. The pipe appeared to be straight and free of sags or rises when I left the site. It is my understanding that no testing was required to verify the alignment and grade of the pipe or the suitability of backfill materials.

Resident Engineer

David Rice, P.E.

Project Engineer

Daily Construction Report Number: 01

Work Hours: 8:45AM to 1:30PM

Project Number: **000105-01.10 KC Anacortes RA11a/b** Day: **Tue** Date: **02.08.11**

Weather AM: Partly Sunny, Windy 45 °F PM: Partly Sunny, Windy 40 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 02082011

Visitors:

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Utility Pick-Up Truck			1	
	Dump Truck	Deere 300 6 wheeled, rubber tired		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Wes MacDonald	Anchor QEA	Engineers Rep.	
Ivy Fuller	Anchor QEA	Engineers Rep.	
Brian Martin	Kimberly Clark	Client Rep.	
Dan Shaw	Historical Resource Associates	Cultural Resources Observer	
Rick	RAM Construction	Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

8:50AM Anchor QEA (AQ) representatives arrive onsite. Rick and two others from Ram are onsite and erecting silt fence east of planned excavations. No other activity. The ecology block waste bunker is lined and empty.

9:10AM Health and Safety meeting. Discussion of today's operations, two test pits will be excavated and sampled to depths up to 10 feet. Hitachi excavator will dig pits and load material into dump truck for transportation on site to lined ecology block waste bunker. Pits will be excavated down to 4 feet deep and then Anchor QEA representatives will access pits to sample sidewalls. No access to test pits will be allowed once pits are deeper than 4 feet. Base samples will be taken from excavator bucket that scrapes material from the surface at each depth. Contractor is asked to keep material from each excavation today in separate piles within the ecology block bunker.

9:20AM Begin excavating Test Pit 3 to ultimate depth of 6 feet within the borders of surveyed stake markers MCP34, MCP35, MCP36, and MCP37. Upper 1 to 1.3 feet of excavation reveals surface material is clean fill, recently placed.

9:25AM Phone call to Rebecca Gardner of Anchor QEA- sidewall samples will not be taken at the 1 foot depth. Sidewall samples are to be taken only at depth of 4 feet. Pictures and notes will be taken to document the depth of recently placed fill.

Sidewall samples KCP4-SO214-S-110208, KCP4-SO215-S-110208, and KCP4-SO216-S-110208 are taken at a depth of 4 feet at the midpoint of the north, west, and east sidewalls, respectively. Base sample KCP4-SO217-B-110208 and duplicate sample KCP4-SO217-B-110208 are taken from the 6 foot depth in the middle of the pit. The northwest corner of Test Pit 3 was unable to be excavated to 6 feet. There was a large diameter concrete pipe running southwest by northeast at approximately 4 feet in

depth. It was suspected this pipe is part of the city's stormwater system.

10:00AM Phone call to Rebecca Gardner of Anchor QEA. Confirmed that no sidewall samples are to be taken in RA11a pit in-between the 6 foot and 10 foot excavation depths. Confirmed to mark off with measuring tape a 10' by 10' box centered at the midpoint of the eastern edge of test pit two since survey markers MCP39 and MCP40 were not placed.

11:10AM Begin excavation of RA11a. Sample sidewalls at 4 feet, obtaining samples KCP4-SO218-S-110208, KCP4-SO219-S-110208, and KCP4-SO220-S-110208. Phone call to Rebecca Gardner confirms no sidewall samples at 1 foot in depth necessary. Winds pick up and blow bunker liner up, preventing further placement of excavated soils. Significant effort to sandbag liner back down to resume operations.

12:45PM Excavation resumed. Sample KCP4-SO221-B-110208 taken at the base of RA11a at 6 feet in depth. Sample KCP4-SO222-B-110208 taken at the 10 foot deep base of RA11a. Composite samples of each waste pile are taken. Sample KCP4-SO223-BK-110208 is taken from the material excavated from RA11b stockpiled in the SW corner of the bunker. Sample KCP4-SO224-BK-110208 is taken from the material excavated from RA11a stockpiled in the SE corner of the bunker.

1:30PM RA11a is filled from 10 to 6 feet deep with clean pit run material delivered to the site this morning. Both RA11a and RA11b are left open at 6 feet deep over night. A construction fence barrier is erected around the excavations. Anchor QEA representatives offsite. Ram continues erecting fence, and covering material in ecology block storage bunker.

No safety issues or traffic control issues this shift.

See Photos Below:

20′ by 30′ area RA11b excavated to 6 ft below ground surface (bgs). Looking NW. Concrete stormwater pipe in NW corner .

RA11a excavation 10 feet bgs excavation looking SE.

RA11a after filling up from 10 to 6 feet bgs with clean backfill pit run.

Lined bunker storing excavated material. RA11a material on left (E). RA11b material on right (W).

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Two base samples and three sidewall samples were taken from excavated RA11a area and taken to On-Site Environmental in Redmond, WA.

SO218-S- (Stiff), damp, dark brownish gray, slightly sandy SILT, with organics, trace rounded gravel. (S sidewall)
SO219-S- (Soft to medium stiff), moist, dark brownish gray, organic SILT with trace gravel. (W sidewall)
SO220-S- (Stiff), moist, blue-gray, gravelly, sandy CLAY. (N sidewall)
SO221-B- (Loose), moist to damp, black, sandy WOOD (organics), with sawdust, wood, debris and logs. (S end at 6 foot depth)
SO222-B- (Loose to Medium Dense), wet, gray to black, ORGANICS and fine-grained SAND, abundant wood debris. (10 foot depth)

Two base samples and three sidewall samples were taken from the excavated RA11b area and taken to On-Site Environmental in Redmond, WA.

SO214-S- (Medium dense), moist, dark brownish gray, sandy, angular, flake-like GRAVEL with large angular dark gray cobbles and wood debris.
SO215-S-(Loose), dry to damp, light brown to brown, gravelly SAND, with rounded gravel and cobbles, trace wood debris.
SO216-S- (Loose to medium dense), damp, light brown with gray, gravelly SAND with rounded gravel.
SO217-B- (Very soft), moist to wet, dark gray to black, slightly sandy, silty ORGANIC SILT, with abundant wood and trace gravel.
SO217-D- Duplicate of sample SO217-B.

All metals samples underwent a field sheen test. Samples SO222-B, SO221-B, and SO218-S produced a sheen when this test was run. Sheen was not observed from all other samples.

Two samples were collected from the piles of excavated material in the ecology block, lined bunker and taken to On-Site Environmental in Redmond, WA.

SO223-BK- 5 point composite sample of material from RA11b.
SO224-BK- 5 point composite sample of material from RA11a.

ANCHOR QEA

Daily Construction Report Number: 02

Work Hours: 9:00AM to 5:30PM

Project Number: **000105-01.10 KC Anacortes RA11a/b** Day: **Fri** Date: **02.11.11**

Weather AM: Partly Cloudy 45 °F PM: Partly Cloudy 40 °F

Contractor: RAM Construction Subcontractor:

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities 02112011

Visitors:

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Utility Pick-Up Truck			1	
	Dump Truck	Deere 300 6 wheeled, rubber tired		1	
	Front wheeled compactor	Dynamac smooth-wheeled		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Wes MacDonald	Anchor QEA	Engineers Rep.	
Rick	RAM Construction	Supervisor	
Brian Martin	Kimberly Clark	Client Rep.	
Jenny	Historical Resource Associates	Cultural Resources Observer	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

9:00AM Anchor QEA (AQ) representative arrives onsite. Rick and one other from Ram are onsite and moving silt fence east of planned excavations. No other activity. The material from 2/8/11 in the ecology block waste bunker is compacted and covered with plastic sheet. Discussion of today's operations: RA11b will be excavated further to the south in an extension 20 feet wide and 35 feet long to a depth of 6 feet. Area in original 20' by 30' footprint will be excavated one foot deeper and a base sample will be taken. Base samples deeper than 4 feet require the excavator to bring a sample to grade and then sample will be taken from there by Anchor QEA representative. To the east of the original RA11b excavation and along the full extended length, clean material placed by the port above a geotextile will be excavated and temporarily stockpiled for reuse as fill. The material below the geotextile will be removed to a depth of 6 feet below ground surface (bgs), stockpiled, and segregated in the lined ecology bunker along with all material excavated from RA11b today. (4 samples to be taken).

9:10AM Removing surface material to determine location of geotextile. Geotextile is approximately 6 ft east of the previous edge of excavation RA11b and about 1 foot below current grade. Clean material above geotextile is (loose), damp, brown, gravelly SAND with cobbles. This material is temporarily stockpiled on the eastern edge of the excavation.

9:40AM Excavating material from below geotextile to 6 ft bgs. Contractor instructed to pile all of this material and other material from RA11b today in a separate stockpile in the ecology bunker.

9:50AM Phone call to Rebecca Gardner, confirming that base sample to be taken at additional 1 ft of depth in original RA11b area should be in same location as SO217-B. Additional 1 foot of material excavated. Material excavated is mostly black wood with sheen visible. Sample SO225-B taken at 7 ft bgs at center of RA11b.

11:00AM Excavating extension of RA11b. Upper 5 feet of RA11b extension is (Medium dense), damp, brown and gray, very sandy gravel. Occasional pockets of yellow (sulfur by the odor) observed during excavations. During excavation, client discusses changing excavation and sampling plans with Rebecca Gardner. After approximately half of RA11b extension is excavated, client believes to have reached clean material and would like to sample exposed bases and walls to prevent further excavation.

12:15PM Laying orange construction fencing across bottom of RA11a excavation (6 ft bgs) to mark extent of excavation before backfilling. Backfill is clean, brown sand that was excavated earlier today from above the geotextile near RA11b. RA11a is filled up to grade and compacted with the excavator bucket. Once filled, the smooth steel-wheeled front end roller is used to compact the material at grade.

12:25PM Call and text from Rebecca Gardner regarding additional sampling locations based on instructions and descriptions of existing excavation from client. 4 base samples and 4 sidewall samples will be taken and no more excavation will take place in RA11b extension. Additionally, client requested sampling on MJB5 and MJB6 to take place today. Further details coming.

12:30PM Client offsite.

1:00PM Cultural resources observer offsite. Sampling of additional locations in RA11b commences. Base samples are marked with stakes (where accessible) and sidewall samples are marked with a pink “V” spray paint mark on grade directly above sampling location.

1:45PM Further direction for sampling MJB5, MJB6, and additional location near bunker received from Rebecca Gardner.

2:30PM Begin sampling sidewalls at 1 ft and base at 1.5 ft in MJB5. North sidewall and base sample have material similar to brown sand clean backfill above geotextile to several feet in depth. No samples are taken in these two locations. Material excavated is placed back after sampling.

3:15PM Begin sampling sidewalls at 1.5 ft and base at 3 ft in MJB6. Material excavated is placed back after sampling.

4:00PM Begin sampling stockpile of today’s excavation that was placed in bunker. Material selected from 5 points and homogenized. Duplicate sample taken.

4:30PM Sample taken at 1 ft depth near bunker and MJB2 per instructions by Rebecca Gardner.

5:30PM Offsite. Site secured.

No safety issues or traffic control issues this shift.

See Photos Below:

Filling in RA11a excavation with clean material on top of orange construction fence. Material was placed to existing grade and compacted.

RA11b extension showing locations of samples SO227-B and SO228-B (pink stakes) and SO226-S, SO229-S, and SO230-S (pink spray paint on grade)

RA11b extension looking N. showing clean material excavation and stockpiling to the right and extent of extension excavation to the left.

Lined and covered bunker storing excavated material from today's activities extending from shown worker's location to foreground (looking south).

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

Six base samples, 9 sidewall, 1 bunker, and 1 duplicate sample were taken during today's excavation activities in areas RA11b, MJB5, and MJB6. Samples were taken to On-Site Environmental in Redmond, WA for analysis. Special note: sample no SO235 was unintentionally omitted from today's sampling.

Following samples are from RA11b and extension:
SO225-B- 7' base sample from middle of RA11b. (Soft to stiff), wet to moist, dark brownish gray to black, slightly sandy SILT, with abundant wood
SO226-S- 4' deep on W sidewall sample at midpoint of RA11b extension. (Medium dense), damp, gray, slightly gravelly SAND.

SO227-B- 4’ deep middle of wedge terrace. (Loose), brownish gray, samp, gravelly, SAND)
SO228-B- 6’ deep middle of RA11b extension. (Loose), wet, blackish brown, WOOD, with occasional gravel, trace sulfur.
SO229-S- 4’ deep at midpoint of S wedge terrace sidewall in RA11b ext. (Medium dense), damp, gray, gravelly SAND.
SO230-S- 5’ deep at midpoint of W facing wedge sidewall. (Medium dense to loose) damp, gray, slightly gravelly SAND.
SO231-S- 4’ deep on W facing sidewall, 5ft N of S sidewall, (Medium dense), gray, very sandy GRAVEL with cobbles.
SO232-B-6’ base of middle of excavated material below geotextile, (Soft), wet, dark brown, WOOD chips and debris.

The following samples are from MJB5:
SO233-S- 1 ft. deep along west sidewall, (Dense), wet, dark gray, sandy GRAVEL with cobbles. Angular and flake-like particles.
SO234-S- 1 ft. deep along south sidewall. (Medium dense), moist to wet, dark gray, very sandy GRAVEL, fewer angular and flake-like particles than SO233-S.

The following samples are from MJB6
SO236-S- 1.5 ft. deep south sidewall, (dense), damp, grayish brown, sandy, rounded GRAVEL with cobbles. (0.5’ concrete pad at surface)
SO237-S- 1.5 ft. deep on west sidewall, (dense), damp, grayish brown, sandy, very well-rounded GRAVEL with cobbles. (0.2’ concrete pad at surface)
SO238-S- 0.8 ft. deep on north sidewall, (medium dense), moist, dark gray, sandy GRAVEL with cobbles, angular, long, flake-like particles.
SO239-B- 3 ft. deep in center of MJB6. (dense), damp, dark gray to black, sandy, sub-angular GRAVEL, with asphalt odor, no flake-like particles. (0.5’ concrete pad at surface)

The following sample is from the area west of the bunker near MJB1 and MJB2:
SO242-B- 12 ft. N and 25’ E of asphalt corner near MJB1 and MJB2. (medium dense, dry, dark gray, sandy GRAVEL.

All metals samples underwent a field sheen test. Samples SO332-B, SO238-S, and SO239-B produced a sheen when this test was run. Sheen was not observed from all other samples.

Two samples were collected from the pile of excavated material in the ecology block, lined bunker and taken to On-Site Environmental in Redmond, WA.
SO240-BK- 5 point composite sample of material from RA11b and extension that was excavated today.
SO241-D- Duplicate of SO240-BK.

Daily Construction Report Number: 00

Work Hours: 7:45AM to 11:00AM

Project Number: **000105-01.09 KC Anacortes Phase 4** Day: **Mon** Date: **03.07.11**

Weather AM: Partly sunny, Calm °F PM: NA NA °F

Contractor: Ram Construction Subcontractor: NA

Contractors Rep/ Title: Lou Ivcevic

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Excavation Observations and Confirmatory Soil Samples

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
Ram	Excavator	Hitachi Zaxis 450			

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Rebecca Gardner	Anchor QEA	Managing Engineer	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

07:45AM - Gardner AnchorQEA (AQ) arrives onsite. Ram reps are on-site and warming up equipment. Today's work includes initial excavation of MJB6 (3-feet bgs) and re-excavation of RA-11b (1-foot bgs). Four haul trucks are on site and ready for soil.

08:15AM – MJB6 excavation begins. No sheen observed during excavation. Material is direct loaded into trucks for transport and disposal at Waste Management in Wenatchee, WA. Excavation completed at 08:39AM. Western base of excavation consisted of tan sand with cobbles. Eastern base of excavation consisted of dark gray sand and quarry spall mixture, with trace gray silt.

09:02AM – Dan Schau, HRA inspector, arrives on site. Some excess water (from earlier rain event) that has ponded in RA-11b excavation is pumped into MJB6 excavation so that base of excavation can be observed.

10:00AM – RA-11b excavation commences; an additional 1 foot is removed from the base of the southern extension of the original RA-11b excavation area. Excavation consists of black wood debris and sawdust; no petroleum sheen is observed during excavation. Material is transported to the on-site bunker. Excavation complete at 10:20AM.

10:38AM – sampling work is complete; COCs are being prepared. Ram begins covering the soil contained within the bunkers and up-righting the temporary fence along the buffer zone.

11:00AM – Gardner is off-site. Ram remains on site to complete housekeeping.

Hauling trucks:

Hauler	Truck #	Arrival	Departure
R Transport	R51	07:30	08:21
R Transport	R52	07:30	08:26
R Transport	R53	07:30	08:34
Bud Winter	#10	07:30	08:39

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

MJB6 confirmation sample (only base required based on previous sampling) and one duplicate are collected at 08:45 and 08:46, respectively. Sample collected from dark gray sand and quarry spall mixture, with trace gray silt.

- KCP4-SO243-B-070311
- KCP4-SO243-D-070311

RA-11b confirmation sample (only one new base is required, excavation is greater than 6 feet BGS) is collected at 10:21. Sample consists of black wood debris and sawdust; does not display sheen.

- KCP4-SO244-B-070311

Daily Construction Report Number: 00

Work Hours: 08:00AM to 10:20AM

Project Number: **000105-01.09 KC Anacortes Phase 4** Day: **Tues** Date: **03.15.11**

Weather AM: Partly sunny, Calm °F PM: NA NA °F

Contractor: Ram Construction Subcontractor: NA

Contractors Rep/ Title: Lou Ivcevic

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Excavation Observations and Confirmatory Soil Samples

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
Ram	Excavator	Hitachi Zaxis 450			

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	**Company**	**Title**	
Rebecca Gardner	Anchor QEA	Managing Engineer	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

08:00AM - Gardner AnchorQEA (AQ) arrives onsite. Ram reps are on-site and warming up equipment. Today's work includes re-excavation of MJB6 to 6 feet bgs. One haul trucks is on site and ready for soil; four additional trucks are scheduled for 09:00AM.

08:05AM – Dan Schau, HRA inspector, arrives on site.

08:15AM – MJB6 re-excavation begins. No petroleum sheen observed during excavation. Material is direct loaded into trucks for transport and disposal at Waste Management in Wenatchee, WA. Excavation completed at approximately 10:00AM. Sawdust was encountered in the base of the excavation at ~4.5 feet bgs and extended to the base of the final excavation at 6 feet bgs. Pockets of gray clay were observed in the lower part of the excavation. A small pocket of brick (in a thin layer) was observed in the northwest corner of the exaction at 2.5 feet bgs.

10:20AM – Gardner is off-site. Ram remains on site to complete housekeeping.

Hauling trucks:

Hauler	Truck #	Arrival	Departure
R Transport	R51	07:30	08:21
R Transport	#9	09:00	09:15
Kissler Enterprises	6	09:15	09:20
Kissler Enterprises	5	09:15	09:35
Kissler Enterprises	4	09:15	09:45

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

MJB6 confirmation samples (one base, one duplicate, and one sidewall) were collected at 10:06, 10:07, and 10:12, respectively. Sample collected from base and duplicate consisted of wood debris and sawdust. Samples were submitted for TPH analysis; therefore, field sheen screening was not performed on samples.

- KCP4-SO245-B-150311
- KCP4-SO245-D-150311

Sidewall sample was taken at 3.5 feet bgs and consisted of wood debris and gray clay (predominantly clay).

- KCP4-SO246-S-150311

ANCHOR QEA

Daily Construction Report Number: 03

Work Hours: 8:00AM to 9:00AM

Project Number: **000105-01.09 KC Anacortes Phase 4** Day: **Thu** Date: **03.24.11**

Weather AM: Partly sunny, Calm 55 °F PM: NA NA °F

Contractor: NA Subcontractor: NA

Contractors Rep/ Title: NA

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Collection of One Confirmatory Soil Sample

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
None	None	None			

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineer	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

08:00AM Liz Vonckx from AnchorQEA (AQ) arrives onsite. No other personnel are on site. No operations are being conducted. She decontaminates field equipment, using distilled water and Alconox, in order to prepare to collect one soil sample from the soil "bench" within the recently-excavated MJB-6 pit.

08:30AM Liz collects the soil sample from the soil bench, takes two photos (below), places the sample directly into the glass jar, labels the jar (KCP4-SO247-B-240311), and stores the sample on ice. The soil sample is moist, brown medium sand with abundant gravel and cobble. No odor or sheen. Field equipment is decontaminated.

08:45AM AQ (Liz) leaves site. No safety issues were encountered. Sample arrived at lab at 11:43am.

The sample was collected from the center point of the soil bench of the recently-excavated MJB-6 pit.

Soil sample KCP4-SO247-B-240311.

Daily Construction Report Number: 01

Work Hours: 7:30AM to 5:00PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thu** Date: **04.14.11**

Weather AM: Cloudy, Windy 40 °F PM: Cloudy, Windy 45 °F

Contractor: RAM Construction Subcontractor: R Trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Photo Record of Construction Activities; Sampling at HR-5 and bunker material

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	
R Trucking	Truck with 2 bins	Truck #51 (Kooy)		1	
ADT	Office Trailer; red utility truck	Pump, generator; 6500-ga Baker tank (contains reagent)			

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Shane Kelling	RAM Construction		
Allen Willis	ADT		
John Workman	ADT		
Ray	R trucking	Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

07:30AM AnchorQEA (AQ) representative arrives onsite. Rick and Shane are onsite, as well as Ray from R Trucking, and the Kooy truck driver. The group is waiting to begin excavation of HR-5. ADT personnel are on site and are preparing their equipment beside the bunkers.

07:40AM Rick begins excavating HR-5, and loading into the Kooy truck.

07:55AM Both truck bins have been filled and trucker departs site for Seattle disposal site.

08:15AM Rick stockpiles the remaining material in HR-5 while waiting for the truck to return from Seattle. In doing so, a concrete slab within HR-5 is uncovered. See photo.

08:23AM Liz called Rebecca Gardner to inform her of the slab; Rebecca will contact Ecology to determine the path forward regarding the slab.

08:25AM Rick finishes stockpiling the remaining HR-5 material and takes the excavator over to the bunker area.

08:40AM Rick prepares a 10' diameter "bowl" within the first pile to be treated to receive the reagent.

09:10AM ADT conducts brief health and safety meeting – topics covered include PPE and route to the hospital.

09:15AM Reagent mixing begins. John manages the hose; Allen manages the pump. Reagent mixing

in the first pile continues until 11:25AM, when the truck returns from Seattle.

11:25AM Rick drives excavator back over to HR-5 to load remaining material into the truck.

11:45AM Truck (#51) departs site. There are 1.5 scoops left at HR-5. Rebecca Gardner calls to report that it is not necessary to remove the slab. Also, she asks to transport the remaining 1.5 scoops over to the clean pile within the bunker.

11:55AM Rick takes the remaining 1.5 scoops of HR-5 material to bunker. Rick resumes reagent mixing with the excavator.

12:10PM Rick finishes mixing the 1st pile of reagent-treated material. RAM and ADT discuss how to move material within the bunker to access remaining piles. They determine a plan. ADT and RAM place black plastic on ground in front area of bunker.

12:50PM Rick begins moving treated pile to front area of bunker (lined with black plastic).

12:10-12:50PM Liz collects 3 samples from the base of HR-5; places samples on ice for later transport to lab. See attached sample schematic for sample locations.

1:30-2:45PM Liz departs site for lunch and email communications.

2:45PM Rick has completed moving the 1st pile and is mixing the 2nd pile. Liz collects 5-point composite sample of the 1st (completed) pile.

3:45PM Liz departs site en route to Onsite Lab.

5:00PM RAM and ADT leave site for the day.

5:30PM Liz delivers the 3 HR-5 samples and one bunker sample to OnSite

No safety issues or traffic control issues this shift.

See Photos Below:

HR-5 excavation.

HR-5 excavation; concrete slab.

HR-5 excavation.

Bunker piles prior to treatment.

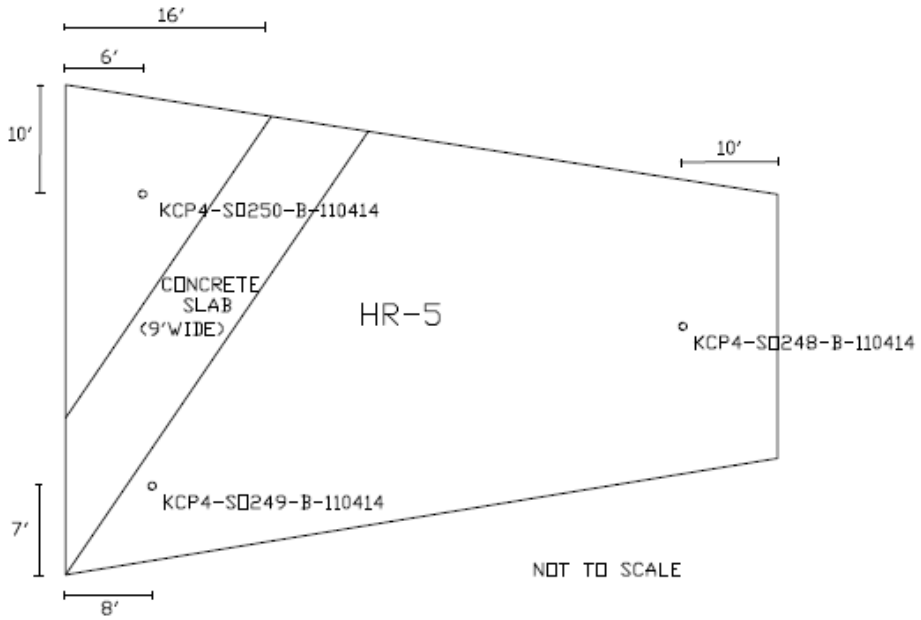
Reagent mixing.

Reagent mixing.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

KCP4-SO248-B-110414 – damp, brown, coarse sand with abundant cobbles.
KCP4-SO249-B-110414 – moist, grayish brown cobbles and course sand.
KCP4-SO250-B-110414 – moist dark gray cobbles and coarse sand.
KCP4-SO251-BK110414 – moist black silty coarse sand with abundant organic debris

No odor or sheen in any of the samples.



HR-5 Sample schematic

Daily Construction Report Number: 01

Work Hours: 7:30AM to 5:00PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thu** Date: **04.15.11**

Weather AM: Partly sunny, calm 40 °F PM: Partly sunny, breezy 45 °F

Contractor: RAM Construction Subcontractor: ADT

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Reagent mixing in bunker; 2 samples collected

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	
ADT	Office trailer, red utility truck	Pump, generator; 6500-ga Baker tank (contains reagent)		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Shane Kelling	RAM Construction		
Allen Willis	ADT		
John Workman	ADT		

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

07:00 RAM and ADT on site (Rick, Shane, Allen, and John). They continue with reagent mixing. Finish mixing of second pile at 7:30; begin mixing third pile.

07:38 AnchorQEA (AQ) representative arrives onsite.

08:12AM Liz takes sample of 2nd completed pile. Sample is stored on ice for later transport to the lab.

11:30AM Rick completes mixing of third pile. ADT begins flushing the Baker tank with water. Rick smoothes piles to help lay tarps flat.

11:50AM Liz takes 5-point composite sample from 3rd completed pile. Sample is stored on ice for transport to the lab.

1:05PM Liz departs site en route to Onsite Lab.

2:30PM Liz delivers the two bunker sample to OnSite Lab.

No safety issues or traffic control issues this shift.

See Photos Below:

Reagent mixing.

Reagent mixing.

Smoothing of reagent-mixed material, prior to covering with tarp.

Bunker piles after treatment.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

KCP4-SO252-BK-110415 – moist black silty coarse sand with abundant organic debris.
KCP4-SO253-BK-110415 – moist black silty coarse sand with abundant organic debris.

No odor or sheen in either of the samples.

Daily Construction Report Number: 01

Work Hours: 7:30AM to 5:00PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thu** Date: **04.21.11**

Weather AM: Partly sunny, calm 40 °F PM: Partly sunny, breezy 45 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Hauling of bunker material

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Ray	R Trucking		

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

09:30 AQ arrives on site (Liz). Approximately ½ of bunker material has already been hauled offsite to Alaska Way disposal in Seattle by ten trucks with trailers. The ten trucks will be returning for a second load. Many fences have been removed around the site; Rick reports that the truck wash was cleaned last week and that material was added to the material in the bunker.

10:45 Truck #23 arrives back on site (driver Kirby); loads up.
11:00 Truck #23 leaves.

All truck arrivals and departures are summarized below:

Truck #	Arrival	Departure
23	10:45	11:00
W-8	11:04	11:14
2	11:31	11:44
W-4	12:01	12:13
127	12:02	12:15
121	12:03	12:23
W-14	12:10	12:30
W-10	12:14	12:45
W-3	12:25	12:53
W-1	12:30	13:10
23	14:40	15:11

11:45 Rick and Liz discuss truck wash – does not appear to be triggering for every pass through. Rick calls Shane or Travis to investigate the trigger.

14:40 Truck #23 (Kirby) returns from Seattle and fills up with remaining bunker material. The total truck

runs for the day was 21. Nine trucks did 2 rounds each, and one truck (#23) did 3 rounds. Tomorrow the stockpile in the haul road will be removed. R Trucking will be sending 3 trucks to carry the material.

15:45 AQ leaves site.

No safety issues or traffic control issues this shift.

See Photos Below:

Loading of bunker material.

Loading of bunker material.

Loading of bunker material.

Last load.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

No sampling was conducted today.

Daily Construction Report Number: 01

Work Hours: 7:30AM to 5:00PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thu** Date: **04.22.11**

Weather AM: Partly sunny, calm 40 °F PM: Partly sunny, breezy 45 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Hauling of haul road stockpile

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Ray	R Trucking		

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

07:10AM AQ arrives on site (Liz). Trucks #53 and #51 are being loaded with haul road stockpile.

All truck arrivals and departures are summarized below:

Truck #	Arrival	Departure
53	0700	0715
51	0700	0725
8	0739	0747
R-9	0739	0755
23	0855	0910

07:55 After first set of trucks leave, Rick begins digging and stockpiling the haul road inbetween HR-5 and HR-2. He also cleans up debris and gravel chunks from various areas (general cleanup).

09:35 AQ leaves site.

No safety issues or traffic control issues this shift.

See Photos Below:

Loading of haul road material.

Loading of haul road material.

Loading of haul road material.

Haul road clean up.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

No sampling was conducted today.

Daily Construction Report Number: 01

Work Hours: 7:00AM to 1:00PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Fri** Date: **04.29.11**

Weather AM: Partly sunny, calm 40 °F PM: Partly sunny, breezy 45 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul MJB-2 material; dig and haul HR-2, HR-3, HR-4 material

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Ray	R Trucking		

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

06:55AM AQ arrives on site (Liz). Two trucks (#53 and #51) are waiting at the gate.
07:00AM Rick from RAM arrives, opens gate.
07:10AM Archaelogist (Dan Schau) arrives on site.
07:24AM Rick begins the MJB-2 excavation. Loads trucks as shown in table below.
08:00AM Liz collects base and sidewall samples from MJB-2 excavation. The base sample is moist, dark gray clay (very homogeneous). The side sample is heterogeneous dry brown to black sand with abundant small ½" cobbles.
07:24AM – 08:05AM Duration of MJB-2 excavation. Dan Schau remarks that the water level in the hole is approximately 3.5' to 4' BGS.
08:05AM – Liz calls John Laplante to confirm the depth of excavation for the haul road "boxes" (HR-1 thru 4). The depth is confirmed as approximately 1' to 18", and should coincide with the depth of the top layer.
08:55AM Brian Martin arrives on site.
09:28AM – 09:43AM HR-4 excavation. Dug to approximately 2', at which point Brian directs Rick to stop digging and move to HR-3.
09:44AM – 10:00AM HR-3 excavation. This excavation could not reach 1' to 18" because 2 long concrete slabs prevented deeper digging. See photo below.
10:00AM – 11:00AM Rick stockpiles material from HR-2, 3, and 4 in one corner of HR-2.
10:10AM Brian leaves site.
10:15AM-11:15AM Liz is offsite site, assembling field notes and collecting ice for samples.
11:15AM Liz returns to site. Truck R-51 has returned from Seattle, and is loaded with stockpiled material from HRs-2, 3, and 4. See table for truck times.
11:36AM Last truck (R-53) leaves site with the last of the material. Liz and Rick discuss the path forward. It is anticipated that HR-1 will be dug and hauled on Monday.

All truck arrivals and departures are summarized below:

Truck #	Arrival	Departure
R-51	0724	0733
R-53	0734	0755
R-9	0805	0813
3	0814	0841
2	0846	0857
W-14	0858	0912
1	0915	0930
R-51	1115	1122
R-53	1128	1136

12:10 AQ leaves site.

No safety issues or traffic control issues this shift.

See Photos Below:

Beginning of MJB-2 10′ semicircular excavation.

Completed MJB-2 excavation.

HR-4 excavation.

HR-3 excavation.

HR-2 excavation.

HR-2 excavation.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

MJB-2 sampling: one base sample, and one side sample:

KCP4-SO-254-B-110429 – moist gray clay (very homogeneous).
KCP4-SO-255-S-110429 – dry mixed-color brown to black coarse sand with abundant ½" cobbles.

Daily Construction Report Number: 01

Work Hours: 7:00AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Fri** Date: **05.06.11**

Weather AM: Overcast, rain 45 °F PM: Partly sunny, breezy 50 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul MJB-2 material; dig and haul HR-1 material

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Water Truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Lou Ivcevic	RAM Construction	Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

06:55AM AQ arrives on site (Liz). Rick is already on site. Two trucks are already onsite (Winter 2 and 10). Rick has already moved the 2 large dirty concrete chunks from the clean concrete pile back to the MJB-2 excavation area. Those 2 chunks had been moved to the clean concrete area in error last week.

07:00AM-07:20AM Rick and Liz lay out rectangular area around extended MJB-2 excavation (20'X40')
07:20AM-07:58AM Rick excavates MJB-2 to 3 foot depth and loads trucks. See truck table below for times.
07:58AM MJB-2 excavation complete; Rick moves over to HR-1 and begins excavating.
08:45AM The last of the morning-trip trucks pulls out.
08:45AM – 09:10AM Private party arrives to remove trailer from Port's lot adjacent and north of HR-1. RAM assists in maneuvering the trailer out.
09:30AM- 10:05AM – Liz leaves site to get ice and water for sampling.
09:30AM – Truck (Lakeside 20026) arrives with backfill material for HR-5 excavation; leaves minutes later.
09:30AM – 10:30AM Rick smoothes backfill material over HR-5.
10:15AM Brian Martin arrives on site to observe excavations.
10:50AM Lou, Brian, and Liz discuss the potential for collecting confirmatory bunker samples today; a discussion with Rebecca Gardner follows. The team decides to wait til all excavation is complete; also, Liz does not have sufficient number of jars on site to complete the sampling.
10:55AM Archaelogist (Dan Schau) arrives on site.
10:55AM – 11:45AM Excavation of MJB-2 from 3' down to 6' depth, with archaeologist observing. Lots of concrete to remove. Appears to have been a foundation. See photos.
11:25AM – Truck (Lakeside 20026) returns with backfill material for HR-5 excavation; leaves minutes later.
11:50AM Archaelogist (Dan Schau) leaves site.
11:45AM – Excavation of MJB-2 is complete; Rick returns to HR-1 to continue loading remaining material.

1:25PM – HR-1 excavation and loading is complete. Rick and Liz return to MJB-2 to collect 3 sidewall samples and one base sample. This was not conducted during the trucking earlier in the day, so as not to hold up the hauling.
1:25PM -4:30PM Rick returns to HR-5 area and spreads and smoothes backfill material over HR-5 and adjacent east area.
1:40PM-4:30PM Liz collects base and sidewall samples from each of the HR boxes.
4:30PM Liz leaves site.

All truck arrivals and departures are summarized below:

Truck #	Arrival	Departure
W-2	0718	0725
W-10	0726	0735
W-4	0740	0755
3	0755	0805
2	0805	0823
W-14	0835	0845
W-2	1109	1116
W-10	1130	1145
W-4	1142	1148
3	1148	1200
2	1210	1250
W-14	1310	1325

No safety issues or traffic control issues this shift.

See Photos Below:


Beginning of MJB-2 20′X40′ excavation.


MJB-2 excavation.

Completed MJB-2 excavation.

HR-1 excavation.

HR-1 excavation.

HR-1 excavation.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

MJB2 – metals, TPH-Dx (1 base, 3 sidewalls)
HR1 – metals, TPH-Dx (3 base, 4 sidewalls)
HR2 – metals, TPH-Dx (5 base, 4 sidewalls)
HR3 – low-level PAHs (1 base, 4 sidewalls)
HR4 – low-level PAHs (1 base, 4 sidewalls)

Photos were taken of all confirmation samples. Two duplicate samples were also taken.
Sample IDs ranged from KCP4- SO-256-B-110506 to KCP4- SO-287-S-110506.

ANCHOR QEA

Daily Construction Report Number: 01

Work Hours: 7:00AM to 12:10PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tues** Date: **05.10.11**

Weather AM: Overcast calm 45 °F PM: Partly sunny, calm 55 °F

Contractor: N/A Subcontractor: N/A

Contractors Rep/ Title: N/A

Work Day Charge: N/A Day: N/A Reason: N/A

Project Pictures? Yes Subject: West and east bunker confirmation sampling

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
None					

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

07:25AM AQ arrives on site (Liz), and prepares sampling equipment.
08:10AM Liz discusses the paved area in east bunker with Rebecca Gardner by email and by phone. Liz explains that it is not possible to collect samples at all proposed locations because some of them are on top of pavement. Rebecca directs Liz to collect only 3 discrete samples for each of the 2 east bunker composite samples, instead of 5 each.
08:15AM-10:25AM West bunker sampling; coordinates of all sample locations were recorded. Sampling spoons and stainless steel compositing bowls were decontaminated with water and Alconox prior to sample collection and in between each sample location. Five discrete samples were collected from the north end of the west bunker and homogenized into one composited sample for analysis. The discrete samples were also collected for archive.
10:25AM- 11:45AM East bunker sampling; coordinates of all sample locations were recorded. The same sampling procedure was used as for the west bunker, except that only 3 discrete locations were used for the composites.
12:10PM Leave site en route to On Site Lab in Redmond. Sample delivery at lab: 2:30PM.

No safety issues or traffic control issues this shift.

See Photos Below:

West bunker sample locations (BC1 and BC2).

East bunker.

East bunker sample locations (BC3).

East bunker sample locations (BC4).

East bunker sample locations (BC4).

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

West Bunker: 2 composite samples comprised of 5 discrete samples each; the 10 discrete samples were collected for archive.
East Bunker: 2 composite samples comprised of 3 discrete samples each; the 6 discrete samples were collected for archive.

Photos were taken of all confirmation samples. No duplicate samples were taken.
Sample IDs ranged from KCP4- SO-288-BC1-110510 to KCP4- SO-297-BC2C-110510.

Daily Construction Report Number: 01

Work Hours: 7:00AM to 4:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Fri** Date: **05.25.11**

Weather AM: Overcast 55 °F PM: Overcast, rain 55 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul expanded sections of MJB-2, HR-2, and HR-3, base and sidewall confirmation sampling, and sampling of bunker material

Visitors: **None**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Dump truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Lou Ivcevic	RAM Construction	Supervisor	
Milton Unick	RAM Construction	Dump truck operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

06:55AM AQ arrives on site (Liz). Rick and Milt are already on site; they have begun marking out the new portion of HR-2 that will be excavated. Liz resumes the marking of HR-2, HR-3 and MJB-2 new excavation areas as Rick and Milt prepare equipment for the arrival of the trucks.

07:05AM Trucks begin arriving. Arrival and departure of all trucks throughout the day are provided in the table below.

07:15AM Rick begins filling trucks, starting with the SW corner of HR-2 and continuing clockwise to northwest corner.

07:20AM Liz completes laying out the areas to be excavated (using spray paint).

07:42AM Rick completes western half of U-shaped HR-2 excavation and shifts the excavator to the NE corner of the excavation to continue with the eastern half of the U.

08:02AM Last of the morning trucks (4) leaves the site. Rick continues to stockpile the remaining HR-2 material in the SE corner of HR-2.

08:15AM Lou arrives on-site.

08:20AM Lou and Milt leave site to go get haul truck from an adjacent property. The haul truck will be used for shifting MJB-2 material from the pit to the east bunker.

08:10AM-08:30AM Liz is off-site, purchasing ice, gloves, and breakfast.

08:30AM-09:05AM Lou and Milt prepare lining in east bunker.

08:50AM Rene Small (HRA), archaeologist, arrives on site to observe MJB-2 excavation

09:12AM Begin excavation of MJB-2 material, and stockpiling in east bunker.

09:45AM – 10:20AM – Liz conducts confirmation soil sidewall (2 samples) and base sampling (one sample) in MJB-2.

10:15AM Finish excavation of MJB-2

10:18AM Brian Martin arrives on site, and stays for approximately one hour. He discusses the progress of the work with Liz, and then departs at 11:15AM.

10:20AM On 5/10, Rick had placed large concrete chunks from MJB-2 into the clean concrete pile (located approx 100' southeast of MJB-2). Rebecca Gardner directed RAM to direct haul those chunks, so Rick now moved them over to the stockpile in HR-2, to await haul in the afternoon trucks.

10:15AM – 10:45AM Rick smoothes out material in the east bunker.

11:00AM – 11:30AM Liz conducts confirmation soil sidewall and base sampling in HR-3.

11:35AM – 12:00PM Rick and Milt move clean concrete from pile near MJB-2 to the huge concrete pile in the adjacent property to the south.

12:30PM – 1:00PM Liz conducts sampling of the bunker material. Three composite samples, each from 4 discrete sample locations within west, center, and east areas of mound, are collected.

1:00PM – 1:30PM Liz conducts sampling of large (>2') concrete chunks from the MJB-2 excavation. Three samples are collected for metals analysis.

1:30PM – 4:00PM Liz conducts soil sidewall and base sampling in HR-2. Field sheen test is conducted at all sample locations. No sheen was detected at any of the sample locations; therefore the samples were not submitted for TPH-HCID. Due to the abundance of concrete in the north to northeast and east sections, the availability of base sample locations is limited in those areas (see photos of HR-2 sample locations).

1:00PM – Lou leaves site.
2:40PM – Rick and Milt leave site.
4:00PM – Liz leaves site.

All truck arrivals and departures are summarized below:

Truck #	Arrival	Departure
R51	0715	0725
R52	0726	0733
9	0735	0745
10	0745	0802
R52	1115	1120
R51	1121	1124
9	1126	1136
10	1225	1239
?*	~1300	~1315

*Did not record the truck #

No safety issues or traffic control issues this shift.

See Photos Below:

HR-2 excavation.

HR-2 excavation.

MJB-2 excavation.

East Bunker with MJB-2 material (liner is underneath as well)

HR-3 excavation.

Large concrete chunks removed today from MJB-2.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

MJB2 – metals, TPH-Dx (1 base, 2 sidewalls)
HR3 – low-level PAHs (1 base, 2 sidewalls, 1 duplicate)
HR2 – metals (7 base, 9 sidewalls, 2 duplicates)
Bunker (MJB-2 material) – TCLP – Pb (3 composite samples (from 4 discrete locations, each))

Photos were taken of all samples at their locations.
Sample IDs ranged from KCP4- SO-308-B-110525 to KCP4- SO-338-B-110525.

Daily Construction Report Number: 01

Work Hours: 7:00AM to 5:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tues** Date: **06.07.11**

Weather AM: Overcast 55 °F PM: Partly cloudy 60 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Rick/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul expanded sections of HR-2, HR-3. Dig and haul 6" south sections of both bunkers. Base and sidewall confirmation sampling.

Visitors: **Brian Martin**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Dump truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Lou Ivcevic	RAM Construction	Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

Overview of the day:

- Load and haul MJB-2 material from east bunker
- Start digging HR-2 in SE corner, work clockwise around HR-2 and reach HR-3/2 merged area by the time the morning trucks are filled; stockpile most of remaining material in south east portion of HR-2
- Dig and stockpile south section of E. Bunker while waiting for trucks to return
- Dig and stockpile south section of W. Bunker while waiting for trucks to return
- Trucks return. Clear out bunker material first, then move back over to SE section of HR-2. Finish SE section of HR-2.
- 41 confirmation samples – HR 2/3, east and west bunkers.
- Excess material stockpiled in paved north section of east bunker for haul out tomorrow.

07:02AM AQ arrives on site (Liz). Rick is already on site, loading the first truck (W2) with the MJB-2 material that is stockpiled in the east bunker. The morning truck loading times are reported in the table below.

Morning trucks:

Truck #	Arrival	Departure
W2	0700	0712
W10	0713	0718
5	0720	0728
W4	0730	0738

3	0739	0750
2	0751	0800
1	0801	0814
W14	0815	0823
Nobach 127	0823	0835
Nobach 28	0836	0845

07:15AM Lou arrives on site. Lou and Liz mark out corners of expanded footprints to be excavated around HR-2, HR-3 and the west bunker. Lou realizes that the benchmark located in the SE corner of HR-2 will need to be relocated (see 2nd photo). He calls surveyors.

07:55AM Rick finishes loading the MJB-2 material, and moves over to the southeast corner of HR-2 to start digging the new footprint there. He continues digging around the footprint of HR-2, and then the expanded footprint of HR-3. HR-2 and HR-3 are now joined.

08:45AM The last of the morning group of trucks leaves. At this point, Rick stockpiles the remaining material from HR-2 and HR-3 in the east and southeast area of HR-2, to prepare for the return of the trucks.

09:20AM – 10:30AM Brian is on site. Lou, Brian and Liz discuss progress, test results, general strategy.

09:30AM – 10:30AM Rick returns to east bunker to dig and stockpile the southern section. He removes 1 to 1.5' over the areas not covered with asphalt.

10:30AM – 11:00AM Rick returns to NW corner of HR-2 and stockpiles the kick-out section.

11:00AM – approx 2:00PM Surveyors are on site. They relocate benchmark from HR-2 over to near MJB-2. They also survey MJB-2.

11:00AM Rick stockpiles the 1 to 1.5 ft in southern 35' section of west bunker.

11:30PM First truck arrives back. Rick begins loading afternoon trucks, starting with the west bunker. The afternoon truck times are documented in the table below.

Afternoon trucks:

Truck #	Arrival	Departure
W2	1130	1138
W10	1146	1152
5	1204	1214
3	1216	1230
2	1230	1238
W4	1238	1246
1	1247	1250
W14	1250	1306
Nobach 127	1306	1312
Nobach 28	1325	1345

11:30AM – 12:30AM Brian is back on site. He calls to remove thin slabs in eastern section of HR-2. As they are removed, it is noted that the dark rock is below the thin slabs. This is shown in the 7th photo below.

11:45AM – 5:20PM Liz collects confirmation samples as the areas become cleared. First samples are

collected from western sidewall of HR-3, then HR-2, east bunker, and finally west bunker.
1:30PM Lou asks how deep the 7' X 70' unpaved area between slabs in the east bunker should be dug. Rick digs 3' down through heterogenous material then encounters 6" steel pipe. This 7' unpaved area was likely the result of laying this pipe years ago. Unknown what the pipe was for. Rebecca Gardner directs by phone to excavate 1.5' throughout the trench, to same elevation as southern portion of east bunker.

1:45PM – 2:00PM It becomes apparent that it will not be possible to haul all material today. As much material as possible is hauled. The remaining material is stockpiled on the asphalt in the northern section of the east bunker. Phone call to Rebecca Gardner to confirm. Lou books 7 trucks to come tomorrow (6/8) to haul remaining material.

2:40PM Lou leaves site.
4:45PM Rick leaves site.
5:25PM Liz leaves site.

No safety issues or traffic control issues this shift.

See Photos Below:


Removal of MJB-2 material from East Bunker.


HR-2/3 excavation.

HR-2 excavation – "kick-out" to the west, towards HR-1.

Area scraped clean east of East Bunker.

Removal of 1-1.5′ from southern 35′ of West Bunker.

Removal of 1-1.5′ from non-asphalt areas in East Bunker.

Removal of southeast corner of HR-2.

Stockpile of excess material in northern (paved) section of east bunker.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

A total of 41 soil samples were collected today.
Photos were taken of all samples at their locations.
Sample IDs ranged from KCP4- SO-339-S-110607 to KCP4- SO-379-B-110607.
GPS coordinates were logged at all sample locations.

HR3 new western sidewall – low-level PAHs (2 sidewalls, 1 duplicate). Later realized that should have also run metals. Metals were run 2 days later (requested on Friday 6/10) with 24-hr turn.
HR2 – metals (11 base, 8 sidewalls, 2 duplicates)
East Bunker base and sidewall confirmation – metals (3 sidewalls, 3 base)
West Bunker base and sidewall confirmation – metals (6 sidewalls, 4 base, 1 dup)

ANCHOR QEA

Daily Construction Report Number: 01

Work Hours: 7:00AM to 2:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tues** Date: **06.14.11**

Weather AM: Overcast 55 °F PM: Partly cloudy/partly sunny 60 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Lou/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul expanded sections of HR-2 (west and east sides), HR-3 (west edge), both bunkers. Remove most ecology blocks from west and east bunkers. Base and sidewall confirmation sampling.

Visitors: **Brian Martin**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Dump truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Lou Ivcevic	RAM Construction	Supervisor	
Ray	R Trucking	Supervisor	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

Overview of the day:

- Load and haul west side of HR-2
- Start digging HR-2 in on east side; 6 morning trucks are filled; stockpile HR-3 and remaining east portion of HR-2 while waiting for trucks to return
- Dig and stockpile southeast section of E. Bunker while waiting for trucks to return
- Dig and stockpile southeast section of W. Bunker while waiting for trucks to return
- Trucks return. Clear out bunker material first, then move back over to E section of HR-2. Finish E section of HR-2.
- 27 confirmation samples – HR 2/3, east and west bunkers.

06:45AM AQ arrives on site (Liz). Lou is already on site, marking out west edge of HR-2. The trucks and Ray are already here. The morning truck loading times are reported in the table below.
06:50AM Rick arrives on site.
07:00AM Rick begins moving fishing equipment and pipe off of the area to excavated in HR-2.
07:32AM Ray leaves.

Morning trucks:

Truck #	Arrival	Departure
R51	07:15	07:20
R52	07:20	07:27
9	07:30	07:35

2	07:36	07:43
W10	07:43	07:55
3	07:55	08:02

07:58AM Rick finishes excavation of west side of HR-2. He moves over to east side of HR-2, to begin the bumpout. Morning trucks are filled; last truck leaves.

08:02AM – 08:15AM Rick, Lou and Liz discuss the strategy/sequencing for the day.

08:15AM Big flat bed truck arrives to take away eco blocks from bunkers. (Tellefsen's, Everett, WA, Truck #19) There will be 2 of them making a couple of trips each today. Each truck can take 44 blocks. There are approximately 140 blocks to take. They will not be able to take all of them today, but most.

08:15AM – 08:38AM Rick loads eco blocks onto Truck 19.
08:30AM Tellefsen's Truck #30 arrives.
08:38AM – 09:30AM Rick loads eco blocks onto Truck 30.

09:00AM – 09:45AM Brian is on-site. Lou, Brian and Liz discuss progress, test results, general strategy.

09:45AM – 10:30AM Liz collects samples at completed HR-2 west excavation.

10:10AM Brian back on-site

10:20AM Rick starts excavating at HR-3 west bumpout.
10:30AM Liz calls Rebecca to see if thin slab within this excavation should be removed (yes).

10:46AM R51 (first of morning trucks) arrives back on-site. Afternoon truck times are shown in the table below.

Afternoon trucks:

Truck #	Arrival	Departure
R51	1050	1056
R52	1103	1107
9	1108	1121
2	1123	1138
W10	1150	1202
3	1203	1215

10:50AM Rick finishes HR-3 and moves over to resume excavating at the HR-2 east bumpout. Liz starts sampling at HR-3.

11:15AM Rick finishes excavating at HR-2 east bumpout; moves over to bunkers.

11:40AM Truck 19 arrives back to get more eco blocks (departs at 11:47AM).
12:03PM Truck 30 arrives back to get more eco blocks (departs at 12:40PM).

11:40AM – 12:40PM Rick alternates between loading flat bed trucks and loading disposal trucks.

12:28PM – 1:05PM Liz samples the east bunker.

12:40PM RAM continues to load eco blocks onto their own flat bed truck. They also remove the stacks of rumble plates.
1:10PM – 1:30PM Liz samples west bunker.

1:30PM – 1:50PM Rick and Liz scrape and sample the thick slab in the middle of HR-2. Material is stockpiled in a small (~1 CY) pile and 2 stockpile samples are collected.

1:30PM Lou leaves site.
2:10PM Liz leaves site (Rick still on site).

No safety issues or traffic control issues this shift.

See Photos Below:

Completed excavation west side of HR-2.

Completed excavation west side of HR-2.

HR-3 excavation – "kick-out" to the west.

Completed excavation on west side "bump-out" of HR-2.

East bumpout from east bunker (20′ x 20′).

East bumpout from west bunker (15′ x 35′).

Scraped area (20′ x 20′) on top of HR-2.

Loading eco blocks on to flat bed.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

A total of 27 soil samples were collected today. All samples were analyzed for metals only.
Photos were taken of all samples at their locations.
Sample IDs ranged from KCP4- SO-380-S-110614 to KCP4- SO-406-SP-110614.
GPS coordinates were logged at all sample locations.
A sheen test was conducted at every sample location; no sheen was observed at any location.

HR3 new western sidewall – 3 sidewalls, 1 base, 1 duplicate
HR2 – 5 base, 8 sidewalls, 1 duplicate, 2 stockpile samples
East Bunker “east bumpout” base and sidewall confirmation – 2 sidewalls, 1 base, 1 duplicate
West Bunker “east bumpout” base and sidewall confirmation – 1 sidewall, 1 base

ANCHOR QEA

Daily Construction Report Number: 01

Work Hours: 7:00AM to 2:30PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tues** Date: **06.27.11**

Weather AM: Overcast 55 °F PM: Partly cloudy/partly sunny 60 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Lou/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul expanded sections of HR-2 (west, north and east sides), base and sidewall confirmation sampling. Backfill.

Visitors: **Brian Martin**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck			1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Dump truck			1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Liz Vonckx	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

Overview of the day:

- Load and haul west and north bumpouts of HR-2
- Load and haul expanded HR-2 east bumpout
- Haul in 4"-8" rock, and gravel (Jed)
- Spread 4"-8" rock, and gravel (Rick)
- 31 confirmation samples – from HR-2 bumpout areas.

06:55AM AQ arrives on site (Liz). Rick has already almost completed loading the first truck. Several trucks are already here waiting. The morning truck loading times are reported in the table below.

Morning trucks:

Truck #	Arrival	Departure
K1	0650	0706
R53	0706	0712
W10	0713	0720
W14	0722	0737
M569	0738	0745
W4	0746	0753
K2	0753	0803
Gibson 999	0803	0812
Gibson 4	0814	0822
Gibson 009	0823	0830
?	I missed this one.	
K8	0848	0910

07:00AM Liz measures out the new area to be excavated along west and north edges of HR-2. They measure out perfectly with dimensions on the plan (138' x65')

08:15AM Jed arrives on site to dump backfill material.

09:10AM - 09:40AM Liz marks out 40' X 70' area on east side of HR-2 (expanded excavation).

09:10AM – Rick finishes loading the last of the morning trucks. There is approximately 100 CY left in the western section (by the front gate). Rick estimates the remaining volume for the day, and places a call to Lou to request 11 afternoon trucks (approx 255 cy anticipated to be remaining).

09:35AM – Brian arrives on site. Liz and Brian discuss results, progress, and strategy for the remainder of the day. It is decided that an approximate 20' X 40' "island" of remaining material in the middle of HR-2 will be removed and 2 base samples will be collected from that location.

09:40AM – Rick begins excavating the east expanded area (40' X 70'). Brian and Liz discuss whether to remove top thin slab that extends from the north to south edge of the newly expanded area. Brian observes that the rock below the slab appears to be clean quarry spall. Liz places a call to Rebecca, and she concurs to leave the thin slab (see photo below). Rick calls Lou to say that only 10 trucks will be needed in the afternoon.

11:00 AM – Rick finishes stockpiling the remaining material, on both west and east edges of the newly excavated areas.

The afternoon truck schedule is provided in the table below:

Afternoon trucks:

Truck #	Arrival	Departure
1	1045	1050
W10	1102	1108
W14	1114	1120
R53	1120	1130
K2	1130	1140
M569	1140	1155
W4	1155	1205
R51	1220	1230
Kissler 8	1249	1258
R53 (3rd trip)	1515	1528

11:00AM – 3:30PM Rick alternates between loading trucks with material to haul, and spreading backfill material that Jed brings throughout the day.

12:00PM – 1:15PM Liz samples east section of excavation.
1:45PM – 4:15PM Liz samples west and north sections of excavation.

4:25PM Liz leaves site (Rick still on site).

No safety issues or traffic control issues this shift.

See Photos Below:

Expanded excavation (to the west) of HR-2. Previously backfilled portion in foreground.

MJB-2 – backfill complete.

West edge (to fence) of west excavation of HR-2.

Expanded excavation on east side of HR-2.

Backfilled west bunker.

East bunker, partially backfilled.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

A total of 31 soil samples were collected today. All samples were analyzed for metals only.
Photos were taken of all samples at their locations.
Sample IDs ranged from KCP4- SO-407-S-110627 to KCP4- SO-437-B-110627.
GPS coordinates were logged at all sample locations.
A sheen test was conducted at every sample location; no sheen was observed at any location.

HR2 northwest portion – 6 sidewalls, 13 base, 2 duplicates
HR2 east portion – 5 base, 4 sidewalls, 1 duplicate

Daily Construction Report Number: 01

Work Hours: 7:00AM to 5:15PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Tues** Date: **07.12.11**

Weather AM: Overcast 55 °F PM: Partly cloudy/partly sunny 65 °F

Contractor: RAM Construction Subcontractor: R trucking

Contractors Rep/ Title: Lou/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul expanded sections of HR-2 (northwest and east sides), base and sidewall confirmation sampling.

Visitors: **Brian Martin, Roger of MJB**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck		B93493R	1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	
	Dump truck	Deere 300D - Y101		1	
	Dozer on-track	Deere 650H – D01		1	Not in use
	Smooth-barrel Roller compactor	Dynapac- C02		1	Not in use

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Wes MacDonald	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

Overview of the day:

- Load and haul northwest and east bumpouts of HR-2
- 30 confirmation samples – from HR-2 bumpout areas.

06:50 AM- AQ arrives on site (Wes). Rick begins loading the first truck. Five trucks are already here waiting. The first round truck loading times are reported in the table below. 10 different trucks were used today.

First round of trucks:

Truck #	Arrival	Departure
Kooy 3	0655	0710
Kooy W14	0710	0723
Nobach 127	0723	0730
Nobach 121	0731	0738
R-9	0739	0746
R-53	0746	0754
R-51	0755	0805
Kissler 8	0810	0822

07:00 AM- Lou reports that he and Brian had already marked out today's excavation areas on Monday, July 11, 2011. Wes confirms with measuring tape. The northwest excavation is taken approximately flush against the property fence. In the east excavation area the targeted area has been extended

eastward to the existing vault. No other discrepancies with dimensions on the plan.

07:55 AM – Lou offsite.

08:05 AM – Roger with MJB onsite to clear concrete pads of debris in anticipation of concrete demolition and crushing later this week.

08:30 AM – Call to Rebecca Gardner to confirm three sidewall samples on south of northwest excavation shown on sampling figure are not needed. Also, extension of east excavation to vault is not necessary unless there is sufficient space in trucks to haul extra material.

08:45 AM -- Rick finishes loading the last of first round of trucks. Begin sampling NW excavation area. Rick moves remaining material from the northwest excavation to the east excavation for loading when trucks return.

09:30AM – Brian arrives on site.

10:40 AM – Rick finishes stockpiling the remaining material, on the east excavation area. The second round of trucks begin to arrive. The second round truck schedule is provided in the table below. Brian offsite.

Second round trucks:

Truck #	Arrival	Departure
Kooy 3	1040	1110
W14	1116	1121
127	1121	1126
R-9	1126	1133
R-53	1133	1137
R-51	1137	1144
Nobach 121	1144	1150
Kooy 2	1156	1202
Kissler 8	1210	1216
Kooy 5	1239	1245

12:30PM – Begin sampling east section of excavation in areas that have been cleared already. Based on remaining material, Rick estimates four additional trucks needed to clear what remains of the east excavation.

01:30PM – 01:45PM Wes offsite.

03:10 PM – Third round of trucks return for loading final excavated material. The second round truck schedule is provided in the table below.

Third round trucks:

Truck #	Arrival	Departure
Kooy W14	0310	0316
Kooy 3	0320	0330
Kooy ?	0330	0350
127?	0400	0415

03:50 PM – Phone call to Rebecca Gardner regarding excavating additional material. Decision made to excavate additional diagonal of material from the SW corner of the existing concrete vault to the NE corner of today's proposed east extension of MJB2. This eliminates one sidewall sample and creates one extra base sample.

05:10PM – Wes leaves site (Rick still on site).

No safety issues or traffic control issues this shift.

See Photos Below:

Layout of northwest excavation extension of MJB2. (looking W from SE corner)

Layout of east excavation extension of MJB2. (looking SE from NW corner)

Layout of east excavation extension of MJB2. (looking S from NE corner)

Northeast extension fully excavated showing sample locations. (looking W)

Partially excavated eas extension showing sample locations (looking SW from NE corner)

East extension fully excavated. (looking SW from vault)

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

A total of 30 soil samples were collected today. All samples were analyzed for metals only.
Photos were taken of all samples at their locations.
Sample IDs ranged from KCP4- SO-438-S-110712 to KCP4- SO-467-B-110712.
GPS coordinates were logged at all sample locations using a handheld Trimble GeoXH GPS device.
A sheen test was conducted at every sample location; no sheen was observed at any location.

HR2 northwest extension – 5 sidewalls, 8 base, 1 duplicate
HR2 east extension – 5 sidewalls, 9 base, 2 duplicates

Daily Construction Report Number: 01

Work Hours: 7:00AM to 12:00PM

Project Number: **000105-01.09 KC Anacortes Phase 4A** Day: **Thurs** Date: **07.28.11**

Weather AM: Mostly Sunny 60 °F PM: ____ °F

Contractor: RAM Construction Subcontractor: ____

Contractors Rep/ Title: Lou/ Supervisor

Work Day Charge: NA Day: NA Reason: NA

Project Pictures? Yes Subject: Dig and haul expanded sections of HR-2 (northwest and east sides), base resampling.

Visitors: **Brian Martin, Roger of MJB**

Equipment On-site	Equipment Type	Equipment Model/Identifying Nos.	Lic.	No.	
RAM Construction	Utility Pick-Up Truck		B93493R	1	
	Excavator On-Track	Hitachi ZAXIS 450 LC.		1	

PERSONNEL – CONTRACTOR AND SUBCONTRACTOR			
Staff	Company	Title	
Wes MacDonald	Anchor QEA	Engineers Rep.	
Rick Nicolaas	RAM Construction	Excavator Operator	
Lou I.	RAM Construction	Project Manager	
Brian Martin	Kimberly Clark	Project Manager	

Diary (Report of Day's Operations, Orders given and received, discussions with contractor, visitors, unusual conditions, major material deliveries, delays.)

Overview of the day:

- Load and haul northwest and east bumpouts of HR-2
- 2 confirmation samples – from HR-2 east bumppout area (base and duplicate).

07:15 AM- AQ arrives on site (Wes). Rick and Lou have already excavated and loaded the base material from the east bumpout area directly in front of the concrete vault. Two trucks are already onsite waiting.

Document the existing conditions at NW bumpout area on N side of fence, mainly with photographs. There are 5 small trees (1 in poor quality, the others good), 1 large coniferous tree (fairly good quality, ~8 feet tall), and five small bushes. The surface is fairly well-vegetated with grass.

Approximately 12 inches of material is excavated within the 90' x 10' area on the north side of the fence. When encountering a bush or tree, the bucket of the excavator is used to try and remove the plant as a whole and place it against the W fence inside the project area. All other soil is disposed of in the trucks and hauled away. The excavated material is loose, very wet, very silty, gravelly, sand. Both trucks are full and offsite at 08:10 AM. There is still a small amount to excavate that will require one additional truck. While waiting, the excavator cleans out material from underneath the fence. As much as possible is removed. During excavation a wire running parallel to the fence is exhumed along with a long section of bent metal pipe.

A base and duplicate sample are taken from the bottom material of the east area that was excavated this morning. The location is measured off of the concrete vault and excavation corner that already exist (see attached sketch). The material is loose, brown, moist, gravely sand. There is no sheen observed in either sample from a sheen test.

10:15 AM – Wes leaves site (Rick still on site).

12:00 PM – package and shipped samples out from Bellingham via FedEx overnight. Done for the day.

No safety issues or traffic control issues this shift.

See Photos Below:

Initial conditions N of fence in NW area. "Large" tree. (looking W)

Existing condition N of fence in NW area. Small trees/bushes (Looking E)

Removal and temporary storage location of exhumed trees and bushes along W side of NW corner fence

Material excavated underneath fence, where possible.

Excavated area N of NW fence (looking W).

Excavated area N of fence in NW area (Looking E).

Excavated east area (looking NW). Sample location shown in middle.

Surface material and sample material after excavation in East area bumpout.

Confirmatory Sampling (Description of samples including moisture, color, grain size; list of confirmation and QA samples taken; survey and other notes)

A total of 2 soil samples were collected today. All samples were analyzed for metals only.
Photos were taken of all samples at their locations.
Sample IDs ranged from KCP4-SO-468-B-110728 to KCP4-SO-469-D-110728.
A sheen test was conducted at every sample location; no sheen was observed at any location.

HR2 east extension – 1 base, 1 duplicate

APPENDIX D
MONITORING WELL DECOMMISSIONING REPORT

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Notice of Intent to Decommission a Well

Notification Number

AE07995

This form and required fees **MUST BE RECEIVED** by the Department of Ecology **72 HOURS BEFORE** you construct a well.

Submit one completed form for each job site and required fee (check or money order only) to: Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.

1. Property Owner		Phone Number	
Kimberly Clark Corporation / MJB Prop			
Mailing Address	**City**	**State**	**Zip Code**
1400 Holcomb Bridge Rd	Roswell	GA	30076
2. Agent (if different from above)		Phone Number	
Mailing Address	**City**	**State**	**Zip Code**

3. Well Location

Tax Parcel Number, ¼, Section, Township, and Range are Required. Latitude and longitude (if available).

County Name					
Skagit					
Well Site Street Address		**City**		**State**	**Zip Code**
"Q" Ave & 17th Street		Anacortes		WA	98221
Tax parcel number	**¼ -¼ (within 40 acres)**	**¼ (within 40 acres)**	**Section**	**Township**	**Range**
	NW	NW	19	35	1E

Latitude Degrees	Latitude Time		Horizontal Collection Method
	min	sec	
Longitude Degrees	**Longitude Time**		
	min	sec	

4. Notice of Intent Number of well being decomissioned: R66660

Unique Well Tag Numer of well being decomissioned (if applicable)

5. Well Type to Decommission

Resource Protection - $20.00 each Revised Code: 027-WEL1**-02-87-000101 How Many? 1

6. Approximate construction start date: 12/21/2009

Project Name

7. Contractor L & I Registration Number: HOLOCDI044KH

8. Well Drilling Company Name	Phone Number
Holocene Drilling Co	253-922-7040
9. Well Driller Name	**Driller License Number**
JERROD THOMPSON	2823

10. **Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well :	$50.00
Soil Sampling, Dewatering, Environmental investigation wells:	No Fee
All other wells:	$20.00 each
Amount Enclosed $	$20

This notification number must be provided to your driller:

AE07995

Print Form

Your Notice of Intent has been processed as of 12/16/2009. Your Cash Journal Validation Number is: 461J0870. This message being sent at (12/22/2009 8:51:26 AM)

ONITORING WELL REPORT

Well ID# AKL272
Start Card # AE07995

(1) OWNER/PROJECT WELL NO.
Name Kimberly Clark Corporation/MJB
Address 1400 Holcomb Bridge Rd Properties
City Roswell State GA Zip 300760

(2) TYPE OF WORK
- ☐ New construction
- ☐ Alteration (Repair/Recondition)
- ☐ Conversion
- ☐ Deepening
- ☒ Abandonment

(3) DRILLING METHOD
- ☐ Rotary Air
- ☐ Rotary Mud
- ☐ Cable
- ☐ Hollow Stein Auger
- ☐ Other

(4) BORE HOLE CONSTRUCTION:
Special Standards ☐ Yes ☒ No
Depth of Completed Well 15 ft.

Vault
Special Standards
ft. TO ft.
Water-tight cover
Surface flush vault
Locking cap
Casing diameter
Material
Welded ☐ Threaded ☐ Glued ☐

Seal
ft. TO ft.
Well Seal:
Material Bentonite Chips
Amount
Grout weight

Backfilled from bottom to top with Bentonite Chips

Borehole diameter:
in. from ft. to ft.
in. from ft. to ft.

Filter pack:
ft. TO ft.
Bentonite plug at least 3 ft. thick
Screen:
Material
From ft. to
Slot size in.
Filter pack:
Material
Size

(5) WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian
Permeability Yield GPM
Conductivity PH
Temperature of water OF/C Depth artesian flow found ft.
Was water analysis done? ☐ Yes ☐ No
By whom?
Depth of strata to be analyzed. From ft. to ft.
Remarks:
Name Of Supervising Geologist/Engineer

(6) LOCATION OF WELL By *legal description:*
County Skagit Latitude Longitude
Township 35N (N or S) Range 1E (E or W) Section 19
NW 1/4 of NW 1/4 of above section.
Street address of well location "Q" Ave & 17th Street Anacortes WA 98221
Tax lot number of well location

(7) STATIC WATER LEVEL:
Ft. below land surface. Date
Artesian Pressure lb/sq. in. Date

(8) WATER BEARING ZONES:
Depth at which water was first found

From	To	Est. Flow Rate	SWL

(9) WELL LOG:
Ground Elevation

Material	From	To	SWL
Backfilled from bottom to top with Bentonite Chips	0	15	

Date started 1/6/2010 Completed 1/6/2010

WELL CONSTRUCTION CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Type or Print Name Clay F Griffith License No. 1850
Trainee Name David Dickinson License No. 3017T
Drilling Company Holocene Drilling Inc
(Signed) License No. 1850
Address 10421 Todd Rd E Edgewood WA 98372
Registration No. HOLOCOI044KH Date 1/12/2010

APPENDIX E
ARCHAEOLOGICAL MONITORING REPORT

CULTURAL RESOURCES REPORT COVER SHEET

Author: Dan Schau, B.S., Lynn Compas, M.A., RPA

Title of Report: Archaeological Monitoring Report for Phase 4 of the Former Scott Paper Mill Site Remediation Project, Skagit County, WA

Date of Report: January 11, 2012

County(ies): Skagit Section: 19 Township: 35 N Range: 2 E
Quad: Anacortes
Acres: ~1

PDF of report submitted (REQUIRED) ☒ Yes

Historic Property Export Files submitted? ☒ Yes ☐ No

Archaeological Site(s)/Isolate(s) Found or Amended? ☐ Yes ☒ No

TCP(s) found? ☐ Yes ☒ No

Replace a draft? ☐ Yes ☒ No

Satisfy a DAHP Archaeological Excavation Permit requirement? ☐ Yes ☒ No

DAHP Archaeological Site #:

_____
_____
_____
_____
_____
_____
_____
_____
_____

- Submission of paper copy is required.
- Please submit paper copies of reports ***unbound.***
- Submission of PDFs is required.
- Please be sure that any PDF submitted to DAHP has its cover sheet, figures, graphics, appendices, attachments, correspondence, etc., compiled into one single PDF file.
- Please check that the PDF displays correctly when opened.

Draft Report

Archaeological Monitoring Report for Phase 4 of the Former Scott Paper Mill Site Remediation Project Skagit County, Washington

Submitted to

ANCHOR QEA

Anchor QEA, LLC

Submitted by

Historical Research Associates

Dan Schau, B.S.
Lynn Compas, M.A., RPA
Seattle, Washington

January 11, 2012

Table of Contents

List of Figures

1.0 Introduction and Regulatory Context

This Archaeological Monitoring Report (Report) documents the archaeological monitoring performed during implementation of the Phase 4 remedial activities conducted at the Former Scott Paper Mill Site (Site) located in Anacortes, Washington (Project). The remedial action was conducted in accordance with Consent Decree (No. 09-2-01247-7) between Kimberly-Clark Corporation (K-C) and the Port of Anacortes (the Port), and the Washington State Department of Ecology (Ecology). Per the Consent Decree, K-C and the Port remediated contaminated Site soil and sediment.

As part of the requirements of the Consent Decree, an engineering design report (EDR) was prepared for the project (GeoEngineers Inc. and Anchor Environmental, L.L.C. 2010). Appendix D to the EDR includes a Cultural Resources Assessment for the Site prepared by Historical Research Associates, Inc. (HRA 2009a). This report includes an evaluation of the Phase 4 remedial activities and concluded that excavations extending deeper than 3 feet below ground surface should be monitored by an archaeologist. The report was filed with the Washington Department of Archaeology and Historic Preservation (DAHP) in January 2009 (HRA 2009a).

HRA also prepared an Archaeological Monitoring Plan (Monitoring Plan) for the Site. This Monitoring Plan includes procedures for monitoring remedial activities throughout the Site. Anchor QEA, LLC (Anchor QEA) served as the project engineer for the Phase 4 remediation activities. In accordance with the Monitoring Plan, Anchor QEA contracted with HRA to perform cultural resource monitoring during Phase 4 remediation excavations deeper than 3 feet.

2.0 Area of Potential Effects

The Area of Potential Effects (APE) lies within the upland area of the MJB property above the high tide line, and is located along the western shore of Fidalgo Bay and bounded by Seafarers' Way to the north, Q Avenue to the west, and approximately 19th Street to the south (Figure 1). It is in the northeast quarter of Section 19 of T35N, Range 2E, and shown on the 1998 U.S.G.S. Anacortes 7.5-minute North quadrangle map. This area is filled with fill soil and small and large pieces of wood and brick that were used to extend the shoreline. The area that was monitored is shown on Figures 1 and 2.

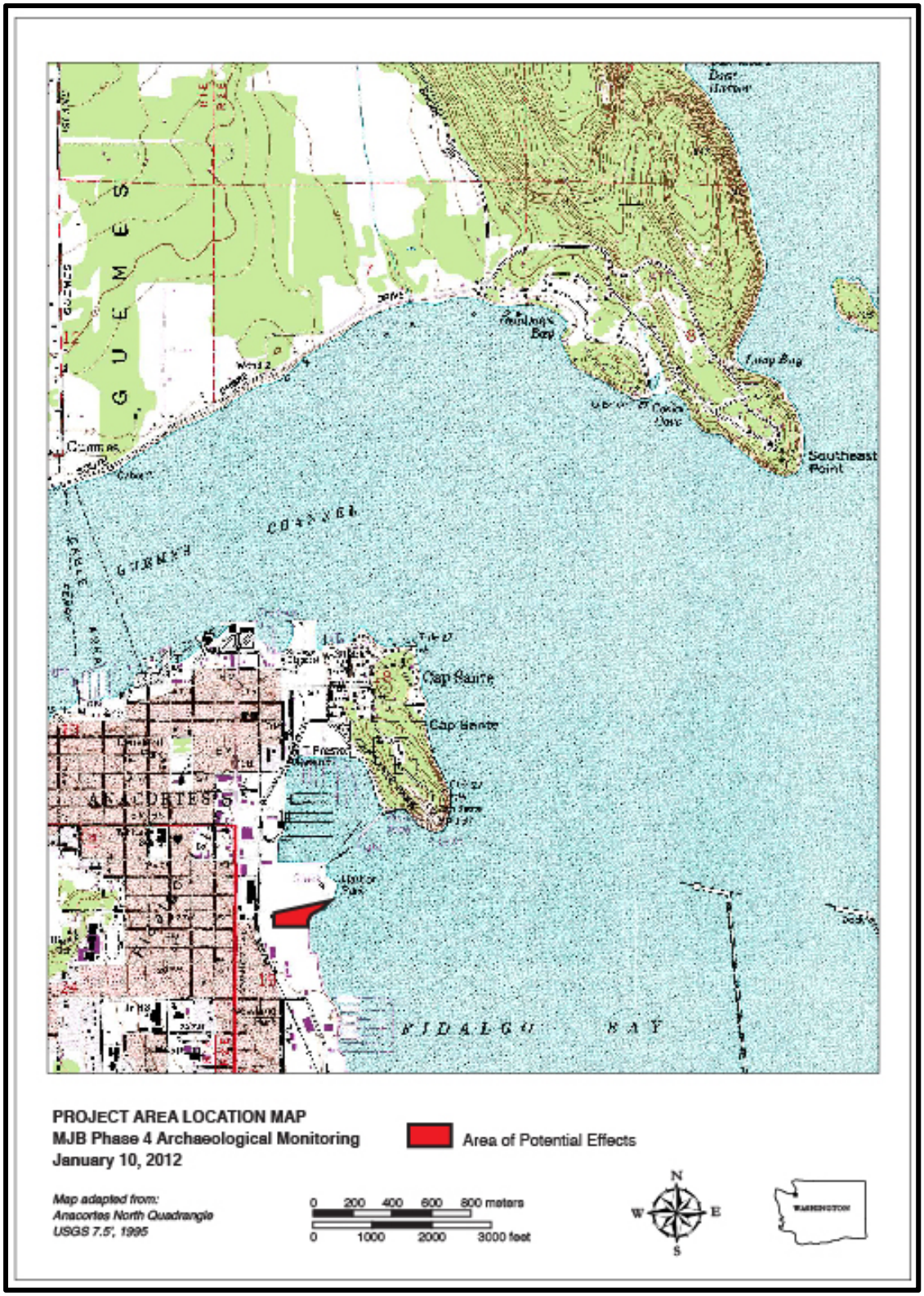


Figure 1. MJB Archaeological Monitoring Area of Potential Effects.

Figure 2. Remediation Areas Monitored.

3.0 Environmental and Cultural Context

The high potential of the APE to contain archaeological deposits is based on its geological setting, its prehistory, and the ethnographic and historic use of the area. These multiple lines of evidence can reveal the potential types and locations of archaeological remains in the APE. The following sections summarize information that HRA reviewed or developed about the Project's geological setting, prehistory, ethnographic land use, and history.

3.1 Geological Setting

The APE is located on the western shore of Fidalgo Bay near the Skagit River Delta in Puget Sound. Late Pleistocene glacial and Holocene processes have been the primary influences on the geological setting of the APE. The Pleistocene glacial retreat freed the area from ice by about 16,000 years Before Present (BP), depositing glacial till and outwash (Boswell et al. 2000, based on Bucknam et al. 1992, Porter and Swanson 1998, and Waitt and Thorson 1982).

As the weight of the ice was removed, the land rebounded rapidly, relative to sea level, across the northern Puget Sound area. Various factors caused submergence and re-emergence of the land until 11,000 BP. Sea level then rose more slowly, until it reached its near modern elevation at about 5,000 BP. Tectonic activity has affected local shorelines in recent times, lifting some and lowering others. The APE is on a narrow shoreline that slopes gently upward towards the west and steeply southward. Archaeological materials are likely along the natural shoreline near the APE. These are most likely to be found at the surface, or just below it in the gently sloping areas, and may have been covered by sediments in the steeper areas.

The saline environment of the Fidalgo Bay inlet formerly contained a diverse population of invertebrates, fish and fowl. Common in the shallower areas are mussels, chitons, clams, crabs and gastropods, as well as surfperch, flatfish and sculpin. Off shore, salmon, herring and dog fish seasonally inhabit the area. Diving birds are present year round and their population increases during the migration season.

The nearest source of fresh water, prior to Euroamerican hydraulic projects, was a small creek located in the northern half of the northwest quarter of Township 35 North, Range 2 East, Section 30 (US Surveyor General 1884). It entered the bay approximately 200 feet north of the property. The stream was covered in the late 1960's (Chatters 2010:5). In such areas, shell midden sites are common.

3.2 Prehistory

Most archaeologists agree that human occupation and use of western Washington has been continuous from approximately 11,500 years ago. The earliest sites consist of lithic scatters, possibly including leaf-shaped projectile points (called Cascade points within Old Cordilleran or Olcott occupations), which may be the remains of broad-spectrum foraging camps or hunting and gathering activity areas. Over time, changing aboriginal technology and site locations suggest increased sedentism and specialization in the use of particular environments and resources (Ames and Maschner 1999; Blukis Onat 1987).

Researchers have created several chronological sequences that describe the timing and nature of cultural change in the Pacific Northwest. Kenneth Ames and Herbert Maschner (1999:66) divide their chronology of prehistoric occupation into five developmental periods: Paleo-Indian, Archaic, Early Pacific, Middle Pacific, and Late Pacific. They suggest a gradual shift from small nomadic groups relying on generalized hunting and gathering to larger sedentary groups with increasing social complexity and specialized reliance on marine and riverine resources.

In the Anacortes region, Late Prehistoric people focused on salmon, which they trolled for in spring, reef-netted in summer, and trapped at river weirs in fall. They also used other finfish; shellfish; plants, such as camas and berries; waterfowl; and land and sea mammals. Large midden sites represent winter villages and smaller sites resulted from camping and resource processing. Several archaeological midden sites have been recorded within an approximate 3.2 kilometer (km) (2 mile [mi]) radius of the Project, including shell midden sites 45SK13 at the Guemes Island ferry dock (Bryan 1953); 45SK42, located just over 3.2 km (2 mi) southeast (Blukis Onat 1981; Bryan 1954a); 45SK43, located approximately 2.4 to 3.2 km (1.5 to 2 mi) southeast (Bryan 1954b; Moura 2003; Schalk 2004; Trost 2005); 45SK44, located just over 3.2 km (2 mi) southeast (Bryan 1954c; Conca 1985); and 45SK294, located around 1.2 km (0.75 mi) southwest (Barsh 2003). Midden site 45SK299 was recorded in the vicinity of the Anacortes Ferry terminal on the western side of Anacortes, approximately 5 km (3.1 mi) from the Project (Robinson 1996). Dates from some of these sites indicate that this specialized native subsistence economy had been established for about 1,500 years by the time of initial Euro-American contact in the 18th and 19th centuries.

3.3 Ethnographic Land Use

The APE is located within the traditional territory of the Samish Indians, which included the northern part of Fidalgo Island, Samish Island, and the eastern San Juan Islands (Suttles 1974:97; Suttles and Lane 1990). Swinomish territory is located to the south and east of the Samish, and the two groups have close economic, social, and historical ties.

The Samish ranged widely in canoes to fish, gather, and hunt for a variety of resources. Their subsistence activities included fishing for sockeye, spring, silver, and dog salmon, as well as herring and halibut; collecting horse and other clams and oysters; digging camas; and hunting deer, ducks, and seal.

Suttles (1974:97) shows the location of a Samish winter village to the west of the APE. The original village was located on Guemes Island, on the northern shore of Guemes Channel, west of the ferry landing. In 1792, Spanish explorers reported two large houses standing on the northwest point of the channel. Conditions became crowded there, and some of the people moved across the channel to a village called "ironwoods," or *Ke-LEH-tsilch* in the Straits Salish language, on the northern shore of Fidalgo Island. Another village, called "camas," or *Quh-hwulh-AWI̓k-awl*, was located at the eastern end of the railroad bridge across Fidalgo Bay, at the place that later became the town of Fidalgo. Although the Samish abandoned that village in the 19th century, they continued camping there when gathering camas on the prairie around the head of the bay (Suttles 1974:99). Swanton (1984:437) lists a Samish village named *Hwaibathl* at

Anacortes, but this location does not match the far more detailed information that Suttles reported.

The Samish used seasonal camps in various areas, including the eastern shore of Fidalgo Bay and southeast of Fidalgo Head (Suttles 1974:97). In spring and early summer, they trolled for salmon in San Juan Channel, located between San Juan Island and Shaw/Orcas Islands, and around Cattle Point, located at the southern end of San Juan Island (Suttles 1974:190-191).

The geographer T. T. Waterman noted several ethnographic place-names in the vicinity of the APE, including *K!aix* for "a promontory at the town of Anacortes" (Cap Sante) and *dəgʷal* , "enclosed water," for Fidalgo Bay (Hilbert et al. 2001:349, 354; Waterman circa 1920).

3.4 Historic Period

A group of local residents and speculators, including Hazard Stevens, son of the former Territorial Governor, and other members of the Stevens family, bought or claimed land between Ship Harbor and present day Anacortes in 1870. At this time, the Northern Pacific Railroad was still considering the location for their Puget Sound terminus. After the economic downturn of the 1870s and the choice of Tacoma as the railroad terminus, these investors sold their land (Boswell et al. 2000). The 1872 General Land Office mapped the APE shoreline as part of Township 35N Range 2E.

In 1876, Amos and Annie Bowman bought waterfront land from a member of the Stevens family and built a cabin near the modern intersection of 3rd Avenue and Q Avenue (Bowman 1890). Amos named the fledgling settlement that grew there after his wife Annie, or Anna, Curtis Bowman, in 1879, when he opened the first post office and store on the wharf he completed that same year (Bourasaw 2006). Amos was a civil and mining engineer and, with his wife and sons, ran their store in Anacortes. The sale of timber to Tacoma mills was one of the first sources of income for the settlement (Bowman 1890). On the 1880 census, most of the residents listed occupations, such as farmer, miner, and carpenter. The two census precincts enumerated that year on Fidalgo included 290 people (U.S. Census 1880).

The Oregon Improvement Company (OIC) began construction of the Seattle & Western Railroad in 1888, laying tracks between Anacortes and Sedro by the end of 1890 (Armbruster 1999:190; Bowman 1890). This stimulated the growth of Anacortes, leading to the platting of the town in 1889. According to the Sanborn maps (1892-1950) the northern end of Anacortes was platted and developed first. The OIC constructed what became known as Ocean Dock at the end of P Avenue, now Commercial Avenue (Sanborn 1890). By 1892, the Union Wharf Company Dock replaced an old wharf, probably Bowman's wharf, at the end of Q Avenue. The Anacortes Saw Mill dock, at the foot of T Avenue, first appears by this time as well (Sanborn 1892).

Despite succeeding in laying track as far as Sedro, the OIC was unable to secure enough business for the Seattle & Western to operate profitably. Economic difficulties forced them to lease the line to the Northern Pacific, beginning in 1890 (Armbruster 1999:148). Regardless of the railroad's difficulties, the town of Anacortes grew. The 1897 Sanborn map is the first one to show the railroad connecting to Ocean Dock. The map also indicates an enlarged and expanded Ocean Dock, with a coal platform and railroad office providing connections to the mainland (Sanborn 1897). Grain warehouses were located on both Ocean Dock and Union Wharf. The

land around the current APE had not been platted in 1897, although the Skagit Saw Mill was on the shore of Fidalgo Bay, west of the end of 15th Street, about 0.6 of a kilometer (one mile) to the north of the APE. Sanborn fire insurance maps show the mill as being owned by Skagit Mill Company in 1892 and 1897, manufacturing rough and dressed lumber.

Throughout its more than 75-year history, what was once known as the Skagit Saw Mill experienced changes in name as well as growth in the number, size, and complexity of its facilities. Gradually the town expanded and the Skagit Saw Mill had changed hands by 1905. It was renamed the Rodgers Saw Mill and Box Factory. The Baty Shingle Mill and Burpy Brothers Shingle Mill were located near the foot of 17th Street. A spur of the Northern Pacific was constructed from 22nd Street northward along R Avenue (Sanborn 1905).

Rodger's Saw Mill & Box Factory appears on the 1903 and 1905 maps, followed by Rodgers Lumber Company, "saw, planing mill, and box fact." in 1907. By 1925 it was called the Morrison Mill Company Saw Mill and Box Factory and, in 1950, the Coos Bay Pulp Corporation Morrison Mill Division Saw Mill. The mill appears to have maintained its approximate size between 1892 and 1905, while its size increased somewhat by 1907 and considerably by 1925, retaining its larger size in 1950.

On Thursday November 27, 1924 the *Anacortes American* reported that capital and arrangements had been prepared for the construction of the Fidalgo Pulp Manufacturing mill in what is now the APE. Investors and speculators included Lewis Muensch, Ossian Anderson, William Morrison and R.S. Talbot. The Fidalgo Pulp Manufacturing plant was one of the first to use waste wood instead of raw lumber (*Anacortes American* Dec. 17, 1925). The mill would benefit from byproducts of the Morrison lumber mills and the Fidalgo Lumber & Box Co.: waste hemlock and spruce. These waste product materials could be sold to the pulp mill more cheaply than raw lumber and also alleviated the need for the pulp mill to have sawmilling and de-barking machinery on site.

In preparation for opening the pulp mill, the investors began driving pilings to construct the foundations in January of that year. Work proceeded at a rushed pace, with the impending arrival of the materials for the 56-foot-tall and 130-ton pulp digester scheduled for early February 1925 (*Anacortes American* Jan.8, 1925). The mill opened by June 1, 1925. By June of 1928 the owners were planning to enlarge and improve the mill based on a desire to increase its production by one-third (*Anacortes American* June 7, 1928). These modifications included vacating R Avenue from south of 17th Street to the southern end of the company's property. Following the vacancy, the mill sought to expand its plant building and pave the area between the mill and the railway line. The mill had been operated successfully for a little over 15 years by the Puget Sound Pulp and Timber Company until early September of 1940, when the Coos Bay Pulp Corporation, a subsidiary of Scott Paper Company, purchased it for $425,000 (*Anacortes American*, Sept. 12, 1940). The mill's operation would change from its previous use as a buffer mill, which took up slack in production and filled surplus orders from other mills; the mill would start operating continuously, without long shut-downs. In 1947, the Coos Bay Pulp Corporation, Anacortes Division (Scott Paper Co.), signed a formal agreement to purchase the Morrison Mill (*Anacortes American* Aug. 14, 1947), allowing the business to add steam and lumber processing and control the complete production process "from forest to pulp."

The Scott Paper mill shut down on March 24th 1978. The onsite industrial apparatus was transferred to other Scott Paper sites or sold, and the property was put up for sale (*Anacortes American* March 29, 1978). In May of 1978, a 2.14 hectare (5.29 acre) parcel was sold to the Port of Anacortes and by December of 1978 the rest of the mill property was being sold to others (*Anacortes American* Dec: 13, 1978).

4.0 Procedures for Archaeological Monitoring and the Treatment of Archaeological Resources

HRA Research Archaeologist Jenny Dellert and Archaeological Technician Dan Schau monitored ground disturbing activities, including test pits that were excavated by a backhoe within the APE (Figures 1 and 2). Monitoring protocols included:

- Informing crew members of potential cultural materials and how they might be identified prior to the start of the field work;
- Taking digital photographs of the APE and work;
- Examining sediments as they were removed from the test pits for cultural materials;
- Observing sediment texture and color changes; and
- Discussing excavation observations with other people on site.

5.0 Monitoring Results

On February 15, 2010, Phase 4 remedial activities that extended deeper than 3 feet began at the Site. Among those present were representatives from Anchor QEA, LLC, GeoEngineers and Ram Construction. Throughout the day 11 holes, varying from 4 feet to 10 feet in depth, were dug with the use of an excavator. The materials that were uncovered in the test pits were mainly wood and brick fill.

On July 7, 2010, Phase 4 remedial activities continued at the Site. The area in question is where the former surge tanks and sulphur storage used to be. The goal was to excavate a pit to a depth of 6 feet or until the depth of the solid clay layer was established. During the excavation, process pilings and concrete with rebar were pulled out of the northwest corner. Other materials to be removed were brick fragments near concrete, clay pipe and sulphur balls. The water-table was observed at 5.5 feet.

On July 28, 2010, Ram Construction excavated the first 3 feet along the western boundary of an area excavated on July 7, 2010. Excavation continued down to 6 feet where native clay soils began. An additional excavation located west of this area was then excavated down to 6 feet. Most materials that were unearthed are consistent with those removed on July 7, 2010; however, other materials found in the fill included a painted wooden sign, large concrete chunks, boulders, and wire.

Excavation halted for several months. Work continued on February 8, 2011. Ground disturbance consisted of excavation of two test pits. The first was 20 feet x 30 feet with a depth

of 6 feet; the second was 10 feet x 10 feet. The approximate depth of this pit was 10 feet with a bench left on one side at 6 feet (Figure 3). Materials removed from both test pits are consistent with the materials that were removed from the previously excavated test pits.

Figure 3. Representatives from Anchor QEA and K-C discussing the excavation.

Excavation continued again on March 7, 2011. The day's activity was focused on testing 1 foot below the base of a 7 foot test pit. No new material was uncovered and samples were gathered for analytical testing.

On March 15, 2011, a 10 foot x 10 foot pit was excavated to a depth of 6 feet (Figure 4). One pipe (possibly an electrical conduit) was recovered from of the Eastern sidewall; all other removed material was consistent with previous excavations. Samples were gathered out of the base of the pit for analytical testing.

Figure 4. Remediation pit excavation.

Excavation resumed on April 29, 2011. A 10 foot x 10 foot remediation pit was excavated to a depth of 6 feet. Native soils were noted one foot below gravel fill materials. No cultural materials were uncovered.

A remediation pit and two test holes were excavated on April 30, 2011. The soils in the remediation pit were similar to those in previous remediation pits and contained concrete, wood and brick. The water table was observed at about 3 feet. Native soil, a sandy clay, was observed at 6 feet in each of the test holes.

The remediation pit excavated on April 29, 2011 was expanded to 20 feet x 40 feet on May 6, 2011. The excavation depth was 6 feet. Most of the soil was fill, with concrete observed at 5 feet (Figure 5). Monitoring during remediation activities ceased after this date because excavations did not go below 3 feet.

Figure 5. Rubble in remediation pit.

6.0 Conclusions and Ground Disturbance Procedures

No significant cultural materials were identified during the monitoring project.

6.1 Inadvertent Discovery of Cultural Materials

During any ground disturbing activities, if any member of the operations staff, or a contractor, believes that he or she has made a discovery of archaeological materials, that person will notify the Anchor onsite supervisor. The supervisor will stop work in, and adjacent to, the discovery site. Vehicles, equipment, and individuals who are not authorized by the onsite representative will not be permitted to traverse, alter, or destroy the discovery site. The area of work stoppage will be large enough for the onsite representative to provide for the security, protection, and integrity of the discovery.

There are many types of archaeological materials that may be identified during construction activities. These may include, but are not limited to:

- Prehistoric Archaeological Materials
    - Stone tools and flaking debris
    - Antler or non-sawed bone fragments
    - Shell

    - Charcoal concentrations and darkened earth
    - Fire-modified rock
- Historic-Period Archaeological Materials
    - Low-fired and bisque ceramics with subdued colors, or blue/pink willow-like design; thick-bodied pieces indicating crockery
    - Non-tempered glass; violet-colored glass; stopper-topped glass jars or bottles; press-capped (cork gasket liner) heavy-walled soda or liquor bottles (not twist-top, thin-walled); zinc and vitreous glass-lidded glass canning jars with colored body
    - Miscellaneous fragments of metal (or plated) clothing closures (hooks and eyes, and suspender fittings, but not zippers), shell buttons, fragments of bakelite houseware, celluloid, glass (but no Nylon or polystyrene)
    - Sawed animal bone and fruit pits
    - Enameled ironware
    - Punch-opened and solder-sealed beverage cans; solder-sealed food tins; general lack of thin-walled aluminum and welded steel cans
    - Older automotive parts
    - Knob-and-tube electrical insulators
    - Marbles and other toys

Anchor QEA will take appropriate steps, including, when necessary, consulting with a professional archaeologist to determine whether the discovery may be an archaeological site or isolated cultural item. The onsite supervisor will take reasonable steps to protect the discovery site. Work in the immediate area will not resume until treatment of the discovery has been completed or the discovery has been adequately protected. Anchor QEA will notify the appropriate tribe and DAHP of the discovery within 24 hours, if it is a Native American site. Anchor QEA will also notify DAHP if it is an historic site.

Anchor QEA will determine whether it is necessary to continue the ground-disturbing work that led to the discovery. If it is necessary, the following steps apply:

- Anchor QEA will work with DAHP, the landowner, and the appropriate Tribe (if the find is determined to be Native American) for discoveries on Federal, State, or private land.
- Anchor QEA will arrange for the discovery to be evaluated by an archaeologist. In consultation with DAHP, a determination will be made of whether or not the discovery is eligible for listing in the NRHP or WHR. This determination will be documented and distributed to the consulting parties.
- Anchor QEA will contact the appropriate parties, as soon as practical, to seek consultation regarding the National Register-eligibility of the discovery. If the consulting

parties determine that the discovery is an eligible resource, they will consult with appropriate parties on an appropriate form of treatment. Treatment measures may include mapping, photography, limited probing, sample collection, or other activities.

- Anchor QEA will arrange for the implementation of the treatment measures agreed upon by Anchor QEA, the SHPO and the Tribe, and provide draft and final reports on their methods and results to the consulting parties.

If it is not necessary to continue the ground-disturbing activity that led to the discovery, Anchor QEA will consult to stabilize and protect the discovered resource.

6.2 Special Procedures for the Discovery of Human Skeletal Material

Any human remains that are discovered during project activities will be treated with dignity and respect. In the event that human remains are discovered during construction, maintenance, or operation of the CSO facilities, the following procedures are to be followed to ensure compliance with RCW 68.60: *Abandoned and Historic Cemeteries and Historic Graves,* and RCW 27.44: *Indian Graves and Records.*

If ground disturbing activities encounter human skeletal remains during the course of construction, then all activity that may cause further disturbance to those remains **must** cease and the area of the find must be secured and protected from further disturbance. In addition, the finding of human skeletal remains **must** be reported to the county coroner **and** local law enforcement in the most expeditious manner possible. The remains should not be touched, moved, or further disturbed.

The county coroner will assume jurisdiction over the human skeletal remains and make a determination of whether those remains are forensic or non-forensic. If the county coroner determines the remains are non-forensic, then they will report that finding to the DAHP, who will then take jurisdiction over those remains and report them to the appropriate cemeteries and affected tribes. The State Physical Anthropologist will make a determination of whether the remains are Indian or non-Indian and report that finding to any appropriate cemeteries and the affected tribes. The DAHP will then handle all consultation with the affected parties as to the future preservation, excavation, and disposition of the remains.

7.0 References

Ames, K. M., and H. D. G. Maschner
1999 *Peoples of the Northwest Coast, Their Archaeology and Prehistory.* Thames and Hudson Ltd., London, England.

Armbruster, Kurt E.
1999 *Orphan Road: The Railroad Comes to Seattle, 1853-1911.* Washington State University Press, Pullman, Washington.

Barsh, Russell
2003 *State of Washington Archaeological Site Inventory Form 45SK294 Kiwanis Water Front Park.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

Blukis Onat, Astrida R.
1981 *Master Site File 45SK42.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

1987 *Resource Protection Planning Process: Identification of Prehistoric Archaeological Resources in the Northern Puget Sound Study Unit.* Draft report prepared for the Washington State Office of Archaeology and Historic Preservation by BOAS, Inc., Seattle, Washington.

Boswell, Sharon A., Lorelea Hudson, and Margaret A. Nelson.
2000 Heritage Resource Investigations of the Guemes Ferry/Anacortes Parking Lot, Northwest Archaeological Associates, Inc., Seattle, Washington.

Bourasaw, Noel V.
2006 "A Brief Profile of the Bowmans," in *Skagit River Journal of History & Folklore*. Electronic Source, http://www.stumpranchonline.com/skagitjournal/WestCounty/Anac-Fid/Anac/Pioneer/Bowman02-BeforeandAfter.html.

Bowman, Amos
1890 *Anacortes in the boom year 1890.* Anacortes *Progress,* 14 August 1890.

Bryan, Alan
1953 *University of Washington Archaeological Survey of Washington 45SK13.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

1954a *University of Washington Archaeological Survey of Washington 45SK42.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

1954b *University of Washington Archaeological Survey of Washington 45SK43.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

1954c *University of Washington Archaeological Survey of Washington 45SK44.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

Chatters, J.
2010 Cultural Resource Assessment of Remedial Investigation Activities, Former MJB Property, Anacortes, Washington.

Conca, D.
1985 *Washington Archaeological Site Inventory Form 45SK44.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

GeoEngineers, Inc. and Anchor Environmental, L.L.C.
2010 *Final Engineering Design Report Former Scott Paper Company Mill Site Anacortes, Washington, Ecology Consent Decree No. 09-2-02147-7.* March 11, 2010.

Hilbert, Vi, Jay Miller, and Zalmai Zahir
2001 Puget Sound Geography: Original Manuscript from T. T. Waterman. Zahir Consulting Services, Federal Way, Washington.

Historical Resources Associates, Inc.
2009a *Cultural Resources Assessment of the Former Scott Paper Mill Site, Anacortes, Skagit County, Washington.* January 2009.

2009b *Archaeological Monitoring Plan for the Port of Anacortes Former Scott Paper Mill Site, Cleanup Project #NEV-01, Anacortes, Skagit County, Washington.* April 2009.

Moura, Guy
2003 *State of Washington Archaeological Site Inventory Form 45SK43 Kiwanis Water Front Park.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

Porter, Stephen C. and Terry W. Swanson
1998 Radiocarbon Age Constraints on Rates of Advance and Retreat of the Puget Lobe of the Cordilleran Ice Sheet During the Last Glaciation. *Quaternary Research* 50:205-213.

Robinson, Joan M.
1996 *A Cultural Resources Survey of the Washington State Department of Transportation's Marine Division SR 20: Anacortes Ferry Terminal Project, Skagit County, Washington.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

Sanborn Fire Insurance Maps
1890 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

1892 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

1897 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

1903 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

1905 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

1907 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

1925 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

1925-50 *Anacortes, Washington.* Sanborn Map Company, New York, New York.

Schalk, Randall
2004 State of Washington Archaeological Site Inventory Form Update 45SK43. On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

Suttles, Wayne P.
1974 The Economic Life of the Coast Salish of Haro and Rosario Straits. In *Coast Salish and Western Washington Indians* I, edited by David Agee Horr, pp. 41-512. Garland Publishing Inc., New York, New York.

Suttles, Wayne, and Barbara Lane
1990 Southern Coast Salish. In: *Northwest Coast,* edited by Wayne Suttles, pp. 485-502. Handbook of North American Indians, vol. 7, W. C. Sturtevant, general editor. Smithsonian Institution, Washington, D.C.

Swanton, John R.
1984 The Indian Tribes of North America. Bureau of American Ethnology Bulletin 145. Smithsonian Institution Press, Washington, D.C.

Trost, Teresa
2005 *State of Washington Archaeological Site Inventory Form 45SK43.* On file at the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington.

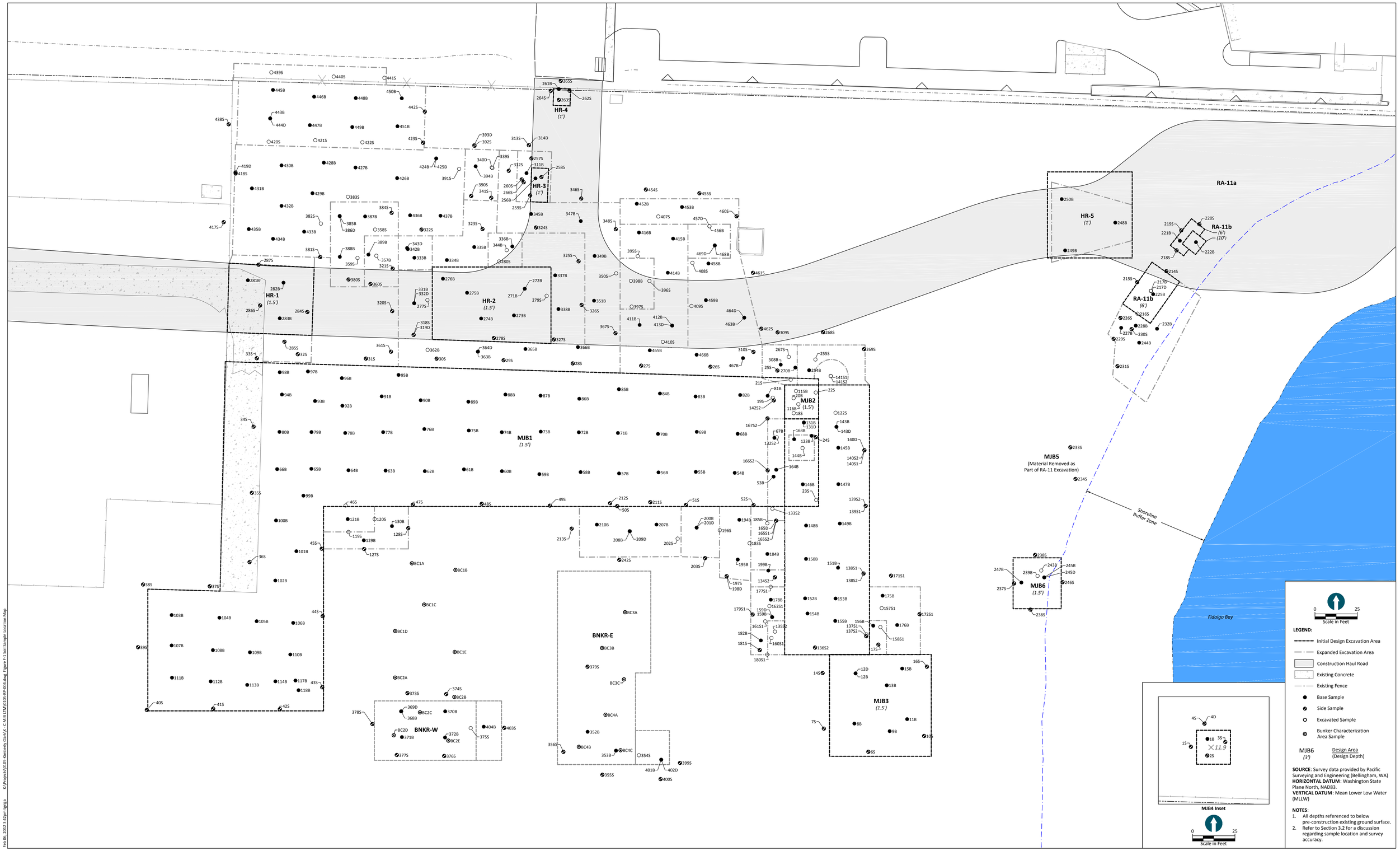
U.S. Census
1880 Fidalgo and Ship Harbor Precincts, United States Census Bureau, Washington, D.C.

U.S. Surveyor General
1884 General Land Office Plat for Township 35 North, Range 2 East.

Waitt, Richard B., and Robert M. Thorson
1982 The Cordilleran Sheet in Washington, Idaho, and Montana. In *Late Quaternary Environments in the United States, Volume 1: The Late Pleistocene,* edited by S. C. Porter, pp. 53-70. University of Minnesota Press, Minneapolis, Minnesota.

Waterman, T. T.
circa 1920 *Puget Sound Geography.* Unpublished manuscript on file Pacific Northwest Collection, Allen Library, University of Washington, Seattle, Washington.

APPENDIX F
LABORATORY REPORTS AND DATA VALIDATION



K:\Projects\0105 Kimberly Clark\Vc - C MJB LTM\0105-RF-004.dwg, Figure F-1 Soil Sample Location Map
Feb 06, 2012 3:42pm tgriga

Figure F-1
Soil Sample Location Map
Former Scott Paper Mill Site
Anacortes, WA

Table F-1
Metals Sampling Results for Excavation Areas

Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
MJB4	1B	KCP4-SO001-B-091222	12/22/2009	Base	5.6 U	11 U	**35**	**71**	**8.4**	0.28 U	**34**	5.6 U	**130**
MJB4	1S	KCP4-SO001-S-091222	12/22/2009	Sidewall	5.4 U	11 U	**26**	**60**	**5.6**	0.27 U	**26**	5.4 U	**72**
MJB4	2S	KCP4-SO002-S-091222	12/22/2009	Sidewall	5.4 U	11 U	**33**	**78**	**8.3**	0.27 U	**32**	5.4 U	**130**
MJB4	3S	KCP4-SO003-S-091211	12/11/2009	Sidewall	5.3 U	11 U	**50**	**96**	**10**	0.27 U	**53**	5.3 U	**230** J
MJB4	4S	KCP4-SO004-S-091222	12/22/2009	Sidewall	5.4 U	11 U	**32**	**76**	**9.1**	0.27 U	**33**	5.4 U	**150**
MJB4	4D	KCP4-SO004-SD-091222	12/22/2009	Duplicate	5.4 U	11 U	**20**	**26**	**6.6**	0.27 U	**36**	5.4 U	**30**
MJB3	6S	KCP4-SO006-S-100105	1/5/2010	Sidewall	5.4 U	11 U	**22** J	**44**	**29**	0.27 U	**22**	2.7 U	**72**
MJB3	7S	KCP4-SO007-S-100105	1/5/2010	Sidewall	5.6 U	11 U	**37** J	**78**	**17**	0.28 U	**34**	2.8 U	**240**
MJB3	8B	KCP4-SO008-B-100105	1/5/2010	Base	5.7 U	11 U	**36** J	**15**	5.7 U	0.28 U	**74**	2.8 U	**26**
MJB3	9B	KCP4-SO009-B-100105	1/5/2010	Base	5.8 U	12 U	**16** J	**10**	5.8 U	0.29 U	**35**	2.9 U	**16**
MJB3	10S	KCP4-SO010-S-100105	1/5/2010	Sidewall	5.4 U	11 U	**20** J	**43**	**6.5**	**0.28**	**20**	2.7 U	**53**
MJB3	11B	KCP4-SO011-B-100105	1/5/2010	Base	5.6 U	11 U	**16** J	**13**	5.6 U	0.28 U	**50**	2.8 U	**20**
MJB3	12B	KCP4-SO012-B-100105	1/5/2010	Base	5.5 U	11 U	**18** J	**17**	5.5 U	0.28 U	**37**	2.8 U	**23**
MJB3	12D	KCP4-SO012B-B-100105	1/5/2010	Duplicate	5.6 U	11 U	**24** J	**18**	5.6 U	0.28 U	**35**	2.8 U	**25**
MJB3	13B	KCP4-SO013-B-100105	1/5/2010	Base	5.5 U	11 U	**21** J	**31**	**16**	0.28 U	**56**	2.8 U	**27**
MJB3	14S	KCP4-SO014-S-100105	1/5/2010	Sidewall	5.4 U	11 U	**28** J	**60**	**6.8**	0.27 U	**30**	2.7 U	**77**
MJB3	15B	KCP4-SO015-B-100105	1/5/2010	Base	5.5 U	11 U	**24** J	**130**	**51**	0.27 U	**48**	2.7 U	**37**
MJB3	16S	KCP4-SO016-S-100105	1/5/2010	Sidewall	5.3 U	11 U	**26** J	**59**	**5.9**	0.27 U	**27**	2.7 U	**75**
MJB3	17S	KCP4-SO017-S-100105	1/5/2010	Sidewall	5.3 U	11 U	**26** J	**58**	**5.9**	0.27 U	**27**	2.7 U	**73**
MJB2	18D	KCP4-SO018B-S-100105	1/5/2010	Excavated	**310**	13 U	**82** J	**120**	**4400**	**1.9**	**39**	3.3 U	**93**
MJB2	18S	KCP4-SO018-S-100105	1/5/2010	Excavated	**260**	11 U	**26** J	**76**	**2300**	**1.9**	**27**	2.9 U	**82**
MJB2	19S	KCP4-SO019-S-100105	1/5/2010	Excavated	5.5 U	11 U	**15** J	**17**	5.5 U	0.28 U	**32**	2.8 U	**22**
MJB2	20B	KCP4-SO020-B-100105	1/5/2010	Excavated	**3500**	**14**	**14** J	**310**	**21000**	**520**	**18**	3.1 U	**160**
MJB2	21S	KCP4-SO021-S-100105	1/5/2010	Excavated	5.6 U	11 U	**25** J	**21**	**28**	**0.57**	**55**	2.8 U	**36**
MJB2	22S	KCP4-SO022-S-100105	1/5/2010	Excavated	**61**	12 U	**16** J	**79**	**700**	**0.95**	**14**	3 U	**36**
MJB1	23S	KCP4-SO023-S-100108	1/8/2010	Excavated	5.3 U	11 U	**22**	**46**	5.3 U	0.27 U	**24**	2.7 U	**62**
MJB1	24S	KCP4-SO024-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**23**	**53**	**7.3**	0.27 U	**25**	2.7 U	**69**
MJB1	25S	KCP4-SO025-S-100108	1/8/2010	Sidewall	**8.5**	**16**	**34**	**85**	**20**	0.27 U	**34**	2.7 U	**440**
MJB1	26S	KCP4-SO026-S-100108	1/8/2010	Sidewall	5.2 U	10 U	**21**	**46**	**5.5**	0.26 U	**21**	2.6 U	**100**
MJB1	27S	KCP4-SO027-S-100108	1/8/2010	Sidewall	5.3 U	**12**	**38**	**77**	**15**	0.26 U	**38**	2.6 U	**250**
MJB1	28S	KCP4-SO028-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**32**	**59**	**8.5**	0.27 U	**31**	2.7 U	**130**
MJB1	29S	KCP4-SO029-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**29**	**55**	**6.6**	0.26 U	**28**	2.6 U	**91**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB1	30S	KCP4-SO030-S-100108	1/8/2010	Sidewall	**7.1**	**12**	**27**	**64**	**16**	0.27 U	**31**	2.7 U	**180**
MJB1	31S	KCP4-SO031-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**24**	**56**	**5.8**	0.26 U	**27**	2.6 U	**85**
MJB1	32D	KCP4-SO032D-S-100108	1/8/2010	Duplicate	**6**	11 U	**42** J	**59**	5.3 U	0.26 U	**28**	2.6 U	**90**
MJB1	32S	KCP4-SO032-S-100108	1/8/2010	Sidewall	5.2 U	10 U	**24**	**56**	**5.5**	0.26 U	**26**	2.6 U	**85**
MJB1	33S	KCP4-SO033-S-100108	1/8/2010	Sidewall	6.5 U	13 U	**28**	**38**	**13**	0.32 U	**35**	3.2 U	**92**
MJB1	34S	KCP4-SO034-S-100108	1/8/2010	Sidewall	5.9 U	12 U	**31**	**31**	**20**	0.3 U	**42**	3 U	**82**
MJB1	35S	KCP4-SO035-S-100108	1/8/2010	Sidewall	5.8 U	12 U	**20**	**16**	**6.6**	0.29 U	**22**	2.9 U	**48**
MJB1	36S	KCP4-SO036-S-100108	1/8/2010	Sidewall	5.4 U	11 U	**22**	**18**	5.4 U	0.27 U	**39**	2.7 U	**26**
MJB1	37S	KCP4-SO037-S-100108	1/8/2010	Sidewall	5.5 U	11 U	**25**	**37**	**44**	0.27 U	**40**	2.7 U	**62**
MJB1	38S	KCP4-SO038-S-100108	1/8/2010	Sidewall	5.4 U	11 U	**23**	**47**	**27**	0.27 U	**41**	2.7 U	**69**
MJB1	39S	KCP4-SO039-S-100108	1/8/2010	Sidewall	**5.9**	11 U	**23**	**53**	**6**	0.27 U	**33**	2.7 U	**120**
MJB1	40S	KCP4-SO040-S-100108	1/8/2010	Sidewall	5.5 U	11 U	**29**	**64**	**11**	0.28 U	**34**	2.8 U	**100**
MJB1	41S	KCP4-SO041-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**32**	**56**	**8.2**	0.26 U	**35**	2.6 U	**150**
MJB1	42D	KCP4-SO042D-S-100108	1/8/2010	Duplicate	5.2 U	10 U	**39** J	**65**	**6.4**	**0.42**	**32**	2.6 U	**89**
MJB1	42S	KCP4-SO042-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**26**	**56**	**7.2**	0.26 U	**30**	2.6 U	**81**
MJB1	43S	KCP4-SO043-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**34** J	**67**	**6.7**	0.27 U	**36** J	2.7 U	**94**
MJB1	44S	KCP4-SO044-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**30** J	**59**	**5.3**	0.26 U	**30** J	2.6 U	**87**
MJB1	45S	KCP4-SO045-S-100108	1/8/2010	Sidewall	**6.4**	10 U	**43** J	**81**	5.2 U	0.26 U	**46** J	2.6 U	**150**
MJB1	46S	KCP4-SO046-S-100108	1/8/2010	Excavated	**46**	**26**	**73** J	**160**	**31**	0.27 U	**110** J	2.7 U	**810**
MJB1	47S	KCP4-SO047-S-100108	1/8/2010	Sidewall	5.2 U	10 U	**39** J	**76**	**7**	0.26 U	**39** J	2.6 U	**120**
MJB1	48S	KCP4-SO048-S-100108	1/8/2010	Sidewall	5.4 U	11 U	**37** J	**62**	**8**	0.27 U	**42** J	2.7 U	**96**
MJB1	49S	KCP4-SO049-S-100108	1/8/2010	Sidewall	5.8 U	12 U	**34** J	**30**	5.8 U	0.29 U	**83** J	2.9 U	**75**
MJB1	50S	KCP4-SO050-S-100108	1/8/2010	Sidewall	**9.3**	11 U	**31** J	**110**	**6.5**	0.26 U	**41** J	2.6 U	**420**
MJB1	51S	KCP4-SO051-S-100108	1/8/2010	Sidewall	5.3 U	11 U	**48** J	**88**	**5.5**	0.26 U	**45** J	2.6 U	**220**
MJB1	52D	KCP4-SO052D-S-100108	1/8/2010	Duplicate	5.3 U	11 U	**42** J	**46**	5.3 U	0.27 U	**23**	2.7 U	**91**
MJB1	52S	KCP4-SO052-S-100108	1/8/2010	Sidewall	5.3 U	**14**	**47** J	**110**	**25**	0.27 U	**50** J	2.7 U	**380**
MJB1	53B	KCP4-SO053-B-100108	1/8/2010	Base	5.6 U	11 U	**21** J	**16**	5.6 U	0.28 U	**48** J	2.8 U	**27**
MJB1	54B	KCP4-SO054-B-100108	1/8/2010	Base	5.5 U	11 U	**28** J	**30**	**42**	0.28 U	**44** J	2.8 U	**45**
MJB1	55B	KCP4-SO055-B-100108	1/8/2010	Base	5.6 U	11 U	**23** J	**20**	5.6 U	0.28 U	**55** J	2.8 U	**31**
MJB1	56B	KCP4-SO056-B-100108	1/8/2010	Base	5.5 U	11 U	**35** J	**24**	**23**	0.28 U	**51** J	2.8 U	**46**
MJB1	57B	KCP4-SO057-B-100108	1/8/2010	Base	5.4 U	11 U	**31** J	**23**	5.4 U	0.27 U	**42** J	2.7 U	**40**
MJB1	58B	KCP4-SO058-B-100108	1/8/2010	Base	5.9 U	12 U	**47** J	**20**	5.9 U	0.29 U	**73** J	2.9 U	**36**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB1	59B	KCP4-SO059-B-100108	1/8/2010	Base	5.6 U	11 U	**24** J	**27**	5.6 U	0.28 U	**45** J	2.8 U	**37**
MJB1	60B	KCP4-SO060-B-100108	1/8/2010	Base	5.5 U	11 U	**24** J	**27**	5.5 U	0.28 U	**43** J	2.8 U	**35**
MJB1	61B	KCP4-SO061-B-100108	1/8/2010	Base	5.5 U	11 U	**25** J	**28**	5.5 U	0.28 U	**48** J	2.8 U	**33**
MJB1	62B	KCP4-SO062-B-100108	1/8/2010	Base	5.6 U	11 U	**32** J	**21**	5.6 U	0.28 U	**59** J	2.8 U	**32**
MJB1	62D	KCP4-SO062D-B-100108	1/8/2010	Duplicate	5.7 U	11 U	**27** J	**19**	5.7 U	0.29 U	**54**	2.9 U	**31**
MJB1	63B	KCP4-SO063-B-100108	1/8/2010	Base	5.5 U	11 U	**19**	**25**	5.5 U	0.28 U	**38**	2.8 U	**150**
MJB1	64B	KCP4-SO064-B-100108	1/8/2010	Base	5.5 U	11 U	**32**	**38**	**8.9**	0.28 U	**43**	2.8 U	**110**
MJB1	65B	KCP4-SO065-B-100108	1/8/2010	Base	5.5 U	11 U	**31**	**25**	5.5 U	0.28 U	**47**	2.8 U	**36**
MJB1	66B	KCP4-SO066-B-100108	1/8/2010	Base	5.4 U	11 U	**29**	**31**	5.4 U	0.27 U	**54**	2.7 U	**45**
MJB1	67B	KCP4-SO067-B-100108	1/8/2010	Base	5.8 U	12 U	**24**	**25**	**61**	**0.43**	**44**	2.9 U	**41**
MJB1	68B	KCP4-SO068-B-100108	1/8/2010	Base	5.7 U	11 U	**20**	**22**	**25**	0.29 U	**30**	2.9 U	**27**
MJB1	69B	KCP4-SO069-B-100108	1/8/2010	Base	5.6 U	11 U	**18**	**14**	5.6 U	0.28 U	**43**	2.8 U	**23**
MJB1	70B	KCP4-SO070-B-100108	1/8/2010	Base	5.7 U	11 U	**21**	**26**	**73**	0.28 U	**38**	2.8 U	**42**
MJB1	71B	KCP4-SO071-B-100108	1/8/2010	Base	5.5 U	11 U	**12**	**13**	5.5 U	0.28 U	**25**	2.8 U	**20**
MJB1	72B	KCP4-SO072-B-100108	1/8/2010	Base	5.5 U	11 U	**16**	**21**	5.5 U	0.27 U	**36**	2.7 U	**28**
MJB1	72D	KCP4-SO072D-B-100108	1/8/2010	Duplicate	5.5 U	11 U	**24** J	**28**	5.5 U	0.28 U	**43**	2.8 U	**31**
MJB1	73B	KCP4-SO073-B-100108	1/8/2010	Base	5.5 U	11 U	**27**	**17**	5.5 U	0.28 U	**48**	2.8 U	**25**
MJB1	74B	KCP4-SO074-B-100108	1/8/2010	Base	5.7 U	11 U	**24**	**17**	5.7 U	0.29 U	**74**	2.9 U	**32**
MJB1	75B	KCP4-SO075-B-100108	1/8/2010	Base	5.6 U	11 U	**17**	**20**	5.6 U	0.28 U	**44**	2.8 U	**28**
MJB1	76B	KCP4-SO076-B-100108	1/8/2010	Base	5.8 U	12 U	**19**	**17**	5.8 U	0.29 U	**50**	2.9 U	**29**
MJB1	77B	KCP4-SO077-B-100108	1/8/2010	Base	5.6 U	11 U	**16**	**21**	5.6 U	0.28 U	**31**	2.8 U	**86**
MJB1	78B	KCP4-SO078-B-100108	1/8/2010	Base	5.4 U	11 U	**19**	**26**	5.4 U	0.27 U	**39**	2.7 U	**61**
MJB1	79B	KCP4-SO079-B-100108	1/8/2010	Base	5.4 U	11 U	**20**	**18**	5.4 U	0.27 U	**31**	2.7 U	**28**
MJB1	80B	KCP4-SO080-B-100108	1/8/2010	Base	5.7 U	11 U	**33**	**30**	**14**	0.29 U	**45**	2.9 U	**60**
MJB1	81B	KCP4-SO081-B-100108	1/8/2010	Base	5.6 U	11 U	**14**	**13**	5.6 U	0.28 U	**32**	2.8 U	**24**
MJB1	82B	KCP4-SO082-B-100108	1/8/2010	Base	5.6 U	11 U	**17**	**16**	5.6 U	0.28 U	**40**	2.8 U	**26**
MJB1	82D	KCP4-SO082D-B-100108	1/8/2010	Duplicate	5.7 U	11 U	**25** J	**18**	5.7 U	0.28 U	**47**	2.8 U	**30**
MJB1	83B	KCP4-SO083-B-100108	1/8/2010	Base	5.6 U	11 U	**29** J	**22**	5.6 U	0.28 U	**40**	2.8 U	**41**
MJB1	84B	KCP4-SO084-B-100108	1/8/2010	Base	5.5 U	11 U	**25** J	**26**	**9.1**	0.27 U	**35**	2.7 U	**51**
MJB1	85B	KCP4-SO085-B-100108	1/8/2010	Base	5.4 U	11 U	**20** J	**19**	5.4 U	0.27 U	**33**	2.7 U	**27**
MJB1	86B	KCP4-SO086-B-100108	1/8/2010	Base	5.6 U	11 U	**17** J	**19**	5.6 U	0.28 U	**32**	2.8 U	**30**
MJB1	87B	KCP4-SO087-B-100108	1/8/2010	Base	5.7 U	11 U	**42** J	**16**	5.7 U	0.29 U	**63**	2.9 U	**31**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB1	88B	KCP4-SO088-B-100108	1/8/2010	Base	5.4 U	11 U	**50** J	**27**	5.4 U	0.27 U	**34**	2.7 U	**45**
MJB1	89B	KCP4-SO089-B-100108	1/8/2010	Base	5.6 U	11 U	**100** J	**24**	5.6 U	0.28 U	**41**	2.8 U	**38**
MJB1	90B	KCP4-SO090-B-100108	1/8/2010	Base	5.7 U	11 U	**26** J	**37**	**6.7**	0.28 U	**54**	2.8 U	**120**
MJB1	91B	KCP4-SO091-B-100108	1/8/2010	Base	5.5 U	11 U	**58** J	**21**	5.5 U	0.28 U	**38**	2.8 U	**32**
MJB1	92B	KCP4-SO092-B-100108	1/8/2010	Base	5.7 U	11 U	**26** J	**16**	5.7 U	0.29 U	**32**	2.9 U	**24**
MJB1	92D	KCP4-SO092D-B-100108	1/8/2010	Duplicate	5.7 U	11 U	**34** J	**18**	5.7 U	0.29 U	**38**	2.9 U	**30**
MJB1	93B	KCP4-SO093-B-100108	1/8/2010	Base	5.4 U	11 U	**21** J	**18**	5.4 U	0.27 U	**34**	2.7 U	**25**
MJB1	94B	KCP4-SO094-B-100108	1/8/2010	Base	5.8 U	12 U	**26** J	**21**	5.8 U	0.29 U	**37**	2.9 U	**31**
MJB1	95B	KCP4-SO095-B-100111	1/11/2010	Base	5.6 U	11 U	**18**	**19**	5.6 U	0.28 U	**32**	2.8 U	**27**
MJB1	96B	KCP4-SO096-B-100111	1/11/2010	Base	5.6 U	11 U	**14**	**15**	5.6 U	0.28 U	**29**	2.8 U	**20**
MJB1	97B	KCP4-SO097-B100111	1/11/2010	Base	5.5 U	11 U	**15**	**16**	5.5 U	0.27 U	**27**	2.7 U	**21**
MJB1	98B	KCP4-SO098-B-100111	1/11/2010	Base	6.2 U	12 U	**41**	**81**	**90**	**0.43**	**53**	3.1 U	**130**
MJB1	99B	KCP4-SO099-B-100111	1/11/2010	Base	5.5 U	11 U	**15**	**17**	5.5 U	0.28 U	**32**	2.8 U	**26**
MJB1	100B	KCP4-SO100-B-100111	1/11/2010	Base	6.4 U	13 U	**15**	**18**	**22**	0.32 U	**8.3**	3.2 U	**59**
MJB1	101B	KCP4-SO101-B-100111	1/11/2010	Base	5.7 U	11 U	**27**	**29**	**6.7**	0.28 U	**42**	2.8 U	**54**
MJB1	102B	KCP4-SO102-B-100111	1/11/2010	Base	5.5 U	11 U	**19**	**17**	5.5 U	0.27 U	**27**	2.7 U	**26**
MJB1	102D	KCP4-SO102D-B-100111	1/11/2010	Duplicate	5.4 U	11 U	**23** J	**24**	**5.9**	0.27 U	**32**	2.7 U	**37**
MJB1	103B	KCP4-SO103-B-100111	1/11/2010	Base	5.3 U	11 U	**16**	**33**	**14**	0.26 U	**19**	2.6 U	**49**
MJB1	104B	KCP4-SO104-B-100111	1/11/2010	Base	5.7 U	11 U	**21**	**15**	5.7 U	0.28 U	**28**	2.8 U	**38**
MJB1	105B	KCP4-SO105-B-100111	1/11/2010	Base	5.8 U	12 U	**27**	**50**	**7.5**	0.29 U	**30**	2.9 U	**70**
MJB1	106B	KCP4-SO106-B-100111	1/11/2010	Base	5.6 U	11 U	**29**	**47**	5.6 U	0.28 U	**29**	2.8 U	**64**
MJB1	107B	KCP4-SO107-B-100111	1/11/2010	Base	5.3 U	11 U	**21**	**26**	**14**	0.27 U	**30**	2.7 U	**41**
MJB1	108B	KCP4-SO108-B-100111	1/11/2010	Base	5.9 U	12 U	**21**	**22**	**130**	0.29 U	**38**	2.9 U	**27**
MJB1	109B	KCP4-SO109-B-100111	1/11/2010	Base	5.9 U	12 U	**27**	**27**	**12**	0.29 U	**31**	2.9 U	**500**
MJB1	110B	KCP4-SO110-B-100111	1/11/2010	Base	5.7 U	11 U	**20**	**29**	**21**	0.29 U	**32**	2.9 U	**41**
MJB1	111B	KCP4-SO111-B-100111	1/11/2010	Base	5.3 U	11 U	**20**	**21**	5.3 U	0.27 U	**33**	2.7 U	**49**
MJB1	112B	KCP4-SO112-B-100111	1/11/2010	Base	5.6 U	11 U	**25**	**73**	**6.3**	0.28 U	**27**	2.8 U	**210**
MJB1	112D	KCP4-SO112D-B-100111	1/11/2010	Duplicate	5.6 U	11 U	**23** J	**50**	**10**	0.28 U	**29**	2.8 U	**120**
MJB1	113B	KCP4-SO113-B-100111	1/11/2010	Base	5.4 U	11 U	**23**	**40**	5.4 U	0.27 U	**26**	2.7 U	**68**
MJB1	114B	KCP4-SO114-B-100111	1/11/2010	Base	6.7 U	13 U	**34**	**61**	**34**	0.33 U	**38**	3.3 U	**100**
MJB2	115B	KCP4-SO115-B-100111	1/11/2010	Excavated	**93**	13 U	**23** J	**66**	**2000**	**75**	**33**	3.1 U	**95**
MJB2	116B	KCP4-SO116-B-100111	1/11/2010	Excavated	**110**	**18**	**44** J	**120**	**9700**	**2.1**	**41**	3.4 U	**210**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB1	117B	KCP4-SO117-B-100111	1/11/2010	Base	5.4 U	11 U	**26** J	**57**	**13**	**0.31**	**31**	2.7 U	**77**
MJB1	118B	KCP4-SO118-B-100111	1/11/2010	Base	5.4 U	11 U	**32** J	**62**	**9.5**	**0.3**	**36**	2.7 U	**85**
MJB1	119S	KCP4-SO119-S-100128	1/28/2010	Excavated	**100** J	**41**	**150**	**120**	**29**	0.26 U	**81**	2.6 U	**450**
MJB1	120S	KCP4-SO120-S-100128	1/28/2010	Excavated	**16** J	**24**	**61**	**86**	**21**	0.27 U	**42**	2.7 U	**400**
MJB1	121B	KCP4-SO121-B-100128	1/28/2010	Base	5.3 UJ	11 U	**73**	**25**	5.3 U	0.27 U	**51**	2.7 U	**37**
MJB2	122S	KCP4-SO122-S-100128	1/28/2010	Sidewall	5.3 UJ	11 U	**40**	**67**	**66**	**0.49**	**38**	2.6 U	**100**
MJB2	123B	KCP4-SO123-B-100128	1/28/2010	Excavated	**15** J	12 U	**15**	**110**	**400**	**0.77**	**7.1**	2.9 U	**24**
MJB2	125S	KCP4-SO125-S-100202	2/2/2010	Excavated	**83** J	12 U	**33**	**97**	**1600** J	**2.4** J	**19**	2.9 U	**52**
MJB2	126B	KCP4-SO126-B-100202	2/2/2010	Excavated	**21** J	11 U	**34**	**66**	**780** J	**1.5** J	**34**	2.9 U	**97**
MJB1	127S	KCP4-SO127-S-100205	2/5/2010	Sidewall	5.3 U	11 U	**26**	**43**	5.3 U	0.26 U	**38**	2.6 U	**90**
MJB1	128S	KCP4-SO128-S-100205	2/5/2010	Sidewall	5.3 U	11 U	**27**	**60**	**6.6**	**0.28**	**29**	2.7 U	**88**
MJB1	129B	KCP4-SO129-B-100205	2/5/2010	Base	5.4 U	11 U	**18**	**21**	5.4 U	0.27 U	**37**	2.7 U	**27**
MJB1	130B	KCP4-SO130-B-100205	2/5/2010	Base	5.4 U	11 U	**17**	**23**	5.4 U	0.27 U	**37**	2.7 U	**32**
MJB2	131B	KCP4-SO131-B-100709	7/9/2010	Base	8.3 U	17 U	**35**	**30**	**22**	0.41 U	**28**	4.1 U	**32**
MJB2	131D	KCP4-SO131B-B-100709	7/9/2010	Duplicate	7.7 U	15 U	**41**	**29**	**56**	0.39 U	**33**	3.9 U	**38**
MJB2	132S2	KCP4-SO132-S2-100709	7/9/2010	Excavated	**74**	**16**	**48**	**250**	**2000**	**14**	**50**	3.4 U	**95**
MJB2	133S1	KCP4-SO133-S1-100709	7/9/2010	Sidewall	5.4 U	**17**	**21**	**53**	**24**	0.27 U	**39**	2.7 U	**130**
MJB2	133S2	KCP4-SO133-S1-100709	7/9/2010	Excavated	**13**	**62**	**34**	**120**	**150**	0.28 U	**44**	2.8 U	**540**
MJB2	134S1	KCP4-SO134-S1-100709	7/9/2010	Sidewall	5.3 U	11 U	**23**	**27**	**22**	0.27 U	**40**	2.7 U	**55**
MJB2	134S2	KCP4-SO134-S1-100709	7/9/2010	Sidewall	5.8 U	12 U	**24**	**42**	**33**	0.29 U	**17**	2.9 U	**69**
MJB2	135S1	KCP4-SO135-S1-100709	7/9/2010	Excavated	**6.7**	11 U	**28**	**97**	**460**	**0.93**	**36**	2.6 U	**61**
MJB2	135S2	KCP4-SO135-S1-100709	7/9/2010	Sidewall	5.8 U	12 U	**21**	**15**	**11**	0.29 U	**19**	2.9 U	**87**
MJB2	136S1	KCP4-SO136-S1-100709	7/9/2010	Sidewall	5.3 U	11 U	**26**	**17**	**5.6**	0.27 U	**42**	2.7 U	**46**
MJB2	136S2	KCP4-SO136-S1-100709	7/9/2010	Sidewall	6.6 U	13 U	**19**	**9.6**	6.6 U	0.33 U	**14**	3.3 U	**30**
MJB2	137S1	KCP4-SO137-S1-100709	7/9/2010	Excavated	5.1 U	**25**	**58**	**110**	**29**	0.26 U	**56**	2.6 U	**330**
MJB2	137S2	KCP4-SO137-S1-100709	7/9/2010	Sidewall	5.6 U	11 U	**24**	**73**	**210**	0.28 U	**21**	2.8 U	**58**
MJB2	138S1	KCP4-SO138-S1-100709	7/9/2010	Sidewall	5.3 U	11 U	**24**	**24**	5.3 U	0.27 U	**35**	2.7 U	**54**
MJB2	138S2	KCP4-SO138-S1-100709	7/9/2010	Sidewall	5.4 U	11 U	**23**	**19**	**6.2**	0.27 U	**38**	2.7 U	**31**
MJB2	139S1	KCP4-SO139-S1-100709	7/9/2010	Sidewall	5.3 U	**20**	**35**	**40**	**16**	0.26 U	**53**	2.6 U	**210**
MJB2	139S2	KCP4-SO139-S1-100709	7/9/2010	Sidewall	5.5 U	11 U	**24**	**20**	5.5 U	0.28 U	**36**	2.8 U	**73**
MJB2	140D1	KCP4-SO140B-S1-100709	7/9/2010	Duplicate	5.4 U	11 U	**23**	**21**	5.4 U	0.27 U	**48**	2.7 U	**34**
MJB2	140S1	KCP4-SO140B-S1-100709	7/9/2010	Sidewall	5.3 U	11 U	**19**	**20**	5.3 U	0.27 U	**38**	2.7 U	**42**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB2	140S2	KCP4-SO140B-S1-100709	7/9/2010	Sidewall	6.8 U	14 U	**21**	**23**	**9.8**	0.34 U	**13**	3.4 U	**18**
MJB2	140D2	KCP4-SO140B-S2-100709	7/9/2010	Duplicate	7.1 U	14 U	**15**	**27**	**12**	0.35 U	**9.8**	3.5 U	**13**
MJB2	141S1	KCP4-SO141-S1-100709	7/9/2010	Excavated	5.3 U	11 U	**25**	**21**	**7.5**	0.27 U	**45**	2.7 U	**37**
MJB2	141S2	KCP4-SO141-S1-100709	7/9/2010	Excavated	6 U	12 U	**25**	**410**	**85**	0.3 U	**31**	3 U	**44**
MJB2	142S2	KCP4-SO142-S2-100709	7/9/2010	Sidewall	5.4 U	11 U	**21**	**15**	**9.2**	0.27 U	**51**	2.7 U	**28**
MJB2	143B	KCP4-SO143-B-100709	7/9/2010	Base	6.2 U	12 U	**25**	**9**	**13**	0.31 U	**57**	3.1 U	**33**
MJB2	143D	KCP4-SO143B-B-100709	7/9/2010	Duplicate	6.3 U	13 U	**26**	**9.4**	**24**	0.31 U	**16**	3.1 U	**29**
MJB2	144B	KCP4-SO144-B-100709	7/9/2010	Excavated	**20**	16 U	**40**	**63**	**1300**	**1.4**	**49**	3.9 U	**54**
MJB2	145B	KCP4-SO145-B-100709	7/9/2010	Base	7.6 U	15 U	**48**	**82**	**35**	0.38 U	**33**	3.8 U	**58**
MJB2	146B	KCP4-SO146-B-100709	7/9/2010	Base	6.3 U	13 U	**23**	**5.4**	6.3 U	0.32 U	**14**	3.2 U	**33**
MJB2	147B	KCP4-SO147-B-100709	7/9/2010	Base	6.8 U	14 U	**59**	**16**	**7.1**	0.34 U	**38**	3.4 U	**66**
MJB2	148B	KCP4-SO148-B-100709	7/9/2010	Base	6.3 U	13 U	**27**	**6.3**	6.3 U	0.32 U	**15**	3.2 U	**26**
MJB2	149B	KCP4-SO149-B-100709	7/9/2010	Base	6.6 U	13 U	**29**	**13**	6.6 U	0.33 U	**25**	3.3 U	**61**
MJB2	150B	KCP4-SO150-B-100709	7/9/2010	Base	6.3 U	13 U	**49**	**7**	6.3 U	0.32 U	**21**	3.2 U	**27**
MJB2	151B	KCP4-SO151-B-100709	7/9/2010	Base	6.9 U	14 U	**30**	**13**	6.9 U	0.35 U	**27**	3.5 U	**52**
MJB2	152B	KCP4-SO152-B-100709	7/9/2010	Base	6.5 U	13 U	**25**	**6.7**	**14**	0.32 U	**16**	3.2 U	**38**
MJB2	153B	KCP4-SO153-B-100709	7/9/2010	Base	7.7 U	15 U	**38**	**25**	**48**	0.38 U	**39**	3.8 U	**66**
MJB2	154B	KCP4-SO154-B-100709	7/9/2010	Base	7.8 U	16 U	**35**	**20**	7.8 U	0.39 U	**33**	3.9 U	**64**
MJB2	155B	KCP4-SO155-B-100709	7/9/2010	Base	6.9 U	14 U	**35**	**19**	6.9 U	0.34 U	**41**	3.4 U	**50**
MJB2	156B	KCP4-SO156-B-100728	7/28/2010	Base	5.3 U	11 U	**28**	**42**	**29**	0.27 U	**61**	2.7 U	**49**
MJB2	157S1	KCP4-SO157-S1-100728	7/28/2010	Excavated	**10**	**43**	**63**	**140**	**32**	0.26 U	**58**	2.6 U	**520**
MJB2	158S1	KCP4-SO158-S1-100728	7/28/2010	Excavated	**13**	**52**	**62**	**180**	**38**	0.25 U	**57**	2.5 U	**490**
MJB2	159B	KCP4-SO159-B-100728	7/28/2010	Base	5.4 U	11 U	**21**	**20**	**16**	0.27 U	**23**	2.7 U	**82**
MJB2	159D	KCP4-SO159B-B-100728	7/28/2010	Duplicate	5.4 U	11 U	**18**	**18**	**17**	0.27 U	**19**	2.7 U	**89**
MJB2	160S1	KCP4-SO160-S1-100728	7/28/2010	Sidewall	**5.7**	**13**	**49**	**140**	**78**	**0.31**	**55**	2.6 U	**200**
MJB2	161S1	KCP4-SO161-S1-100728	7/28/2010	Excavated	**9.8**	**16**	**36**	**78**	**600**	**0.71**	**40**	2.8 U	**150**
MJB2	162S1	KCP4-SO162-S1-100728	7/28/2010	Excavated	**11**	**15**	**23**	**120**	**3000**	**0.64**	**28**	2.8 U	**220**
MJB2	163B	KCP4-SO163-B-100728	7/28/2010	Base	6.4 U	13 U	**25**	**7.4**	**18**	0.32 U	**20**	3.2 U	**26**
MJB2	164B	KCP4-SO164-B-100728	7/28/2010	Base	5.9 U	12 U	**36**	**5.7**	5.9 U	0.3 U	**18**	3 U	**27**
MJB2	165D	KCP4-SO165B-S1-100728	7/28/2010	Duplicate	5.3 U	11 U	**33**	**19**	**55**	0.26 U	**53**	2.6 U	**33**
MJB2	165S1	KCP4-SO165B-S1-100728	7/28/2010	Sidewall	5.3 U	11 U	**20**	**23**	**17**	0.27 U	**39**	2.7 U	**34**
MJB2	165S2	KCP4-SO165B-S1-100728	7/28/2010	Sidewall	5.7 U	11 U	**19**	**39**	**50**	0.29 U	**19**	2.9 U	**210**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB2	166S2	KCP4-SO166-S2-100728	7/28/2010	Sidewall	6.1 U	12 U	**23**	**40**	**74**	0.3 U	**33**	3 U	**120**
MJB2	167S2	KCP4-SO167-S2-100728	7/28/2010	Sidewall	5.4 U	11 U	**18**	**15**	5.4 U	0.27 U	**40**	2.7 U	**27**
MJB2	171S1	KCP4-SO171-S1-100816	8/16/2010	Sidewall	5.2 U	**17**	**42**	**98**	**15**	**0.26**	**43**	2.6 U	**190**
MJB2	172S1	KCP4-SO172-S1-100816	8/16/2010	Sidewall	5.2 U	**13**	**41**	**83**	**15**	0.26 U	**53**	2.6 U	**160**
MJB2	175B	KCP4-SO175-B-100816	8/16/2010	Base	5.3 U	11 U	**24**	**21**	5.3 U	0.26 U	**41**	2.6 U	**32**
MJB2	176B	KCP4-SO176-B-100816	8/16/2010	Base	5.3 U	11 U	**32**	**16**	5.3 U	0.26 U	**59**	2.6 U	**26**
MJB2	176D	KCP4-SO176B-B-100816	8/16/2010	Duplicate	5.3 U	11 U	**27**	**17**	5.3 U	0.27 U	**59**	2.7 U	**26**
MJB2	177S1	KCP4-SO177-S1-100816	8/16/2010	Excavated	**8.6**	**49**	**51**	**160**	**48**	0.26 U	**56**	2.6 U	**610**
MJB2	178B	KCP4-SO178-B-100816	8/16/2010	Base	5.2 U	10 U	**27**	**9.3**	5.2 U	0.26 U	**19**	2.6 U	**39**
MJB2	179S1	KCP4-SO179-S1-100816	8/16/2010	Sidewall	**8.8**	**17**	**59**	**75**	**140**	**0.39**	**36**	2.9 U	**120**
MJB2	180S1	KCP4-SO180-S1-100816	8/16/2010	Excavated	**7.9**	**14**	**61**	**110**	**370**	**0.53**	**48**	2.7 U	**180**
MJB2	181S	KCP4-SO181-S-100823	8/23/2010	Sidewall	5.3 U	11 U	**31**	**27**	**81** J	0.26 U	**55**	2.6 U	**55**
MJB2	182B	KCP4-SO182-B-100823	8/23/2010	Base	5.6 U	11 U	**20**	**48**	**78** J	0.28 U	**18**	2.8 U	**94**
MJB1	183S	KCP4-SO183-S-100823	8/23/2010	Excavated	**11**	**49**	**46**	**200**	**35** J	**0.27**	**46**	2.6 U	**390**
MJB1	184B	KCP4-SO184-B-100823	8/23/2010	Base	5.3 U	11 U	**19**	**22**	5.3 UJ	0.26 U	**38**	2.6 U	**26**
MJB1	185B	KCP4-SO185-B-100823	8/23/2010	Excavated	**10**	**66**	**48**	**160**	**14** J	0.26 U	**57**	2.6 U	**180**
MJB1	194B	KCP4-SO194-B-100920	9/20/2010	Base	5.5 U	11 U	**23**	**24**	**6.9**	0.28 U	**36**	2.8 U	**38**
MJB1	195B	KCP4-SO195-B-100920	9/20/2010	Base	5.5 U	11 U	**21**	**20**	5.5 U	0.27 U	**40**	2.7 U	**160**
MJB1	196S	KCP4-SO196-S-100920	9/20/2010	Excavated	5.4 U	**30**	**38**	**110**	**35**	0.27 U	**40**	2.7 U	**360**
MJB1	197S	KCP4-SO197-S-100920	9/20/2010	Sidewall	5.4 U	**12**	**35**	**60**	**12**	0.27 U	**31**	2.7 U	**130**
MJB1	198D	KCP4-SO198-D-100920	9/20/2010	Duplicate	5.5 U	11 U	**20**	**21**	**7.8**	0.27 U	**34**	2.7 U	**110**
MJB1	199B	KCP4-SO199-B-100920	9/20/2010	Base	5.5 U	11 U	**16**	**18**	5.5 U	0.27 U	**31**	2.7 U	**28**
MJB1	200B	KCP4-SO200-B-100923	9/23/2010	Base	5.4 U	11 U	**22**	**25**	**8**	0.27 U	**43**	2.7 U	**27**
MJB1	201D	KCP4-SO201-D-100923	9/23/2010	Duplicate	5.4 U	11 U	**23**	**23**	5.4 U	0.27 U	**46**	2.7 U	**23**
MJB1	202S	KCP4-SO202-S-100923	9/23/2010	Excavated	**28**	**100**	**49**	**200**	**71**	0.26 U	**49**	2.6 U	**420**
MJB1	203S	KCP4-SO203-S-100923	9/23/2010	Sidewall	5.4 U	11 U	**31**	**66**	**12**	**0.27**	**34**	2.7 U	**84**
MJB2	207B	KCP4-SO207-B101011	10/11/2010	Base	5.4 U	11 U	**24**	**22**	**6.2**	0.27 U	**48**	2.7 U	**47**
MJB2	208B	KCP4-SO208-B101011	10/11/2010	Base	5.6 U	11 U	**36**	**17**	5.6 U	0.28 U	**91**	2.8 U	**35**
MJB2	209D	KCP4-SO209-D101011	10/11/2010	Duplicate	5.7 U	11 U	**33**	**20**	5.7 U	0.28 U	**88**	2.8 U	**35**
MJB2	210B	KCP4-SO210-B101011	10/11/2010	Base	5.4 U	11 U	**20**	**16**	5.4 U	0.27 U	**38**	2.7 U	**28**
MJB2	211S	KCP4-SO211-S101011	10/11/2010	Sidewall	5.3 U	11 U	**63**	**34**	5.3 U	0.26 U	**67**	2.6 U	**36**
MJB2	212S	KCP4-SO212-S101011	10/11/2010	Sidewall	5.4 U	**19**	**53**	**92**	**11**	0.27 U	**120**	2.7 U	**180**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB2	213S	KCP4-SO213-S101011	10/11/2010	Sidewall	5.4 U	**12**	**28**	**56**	**15**	0.27 U	**50**	2.7 U	**130**
RA-11	214S	KCP4-SO214-S-110208	2/8/2011	Sidewall	5.8 U	12 U	**20**	**52**	**7.9**	0.29 UJ	**19**	1.4 U	**57**
RA-11	215S	KCP4-SO215-S-110208	2/8/2011	Sidewall	5.6 U	11 U	**25**	**15**	**16**	0.28 UJ	**43**	1.4 U	**26**
RA-11	216S	KCP4-SO216-S-110208	2/8/2011	Excavated	5.8 U	12 U	**28**	**36**	**930**	**2.4** J	**51**	1.4 U	**33**
RA-11	217B	KCP4-SO217-B-110208	2/8/2011	Excavated	**19**	25 U	**32**	**520**	**770**	0.62 UJ	**54**	3.1 U	**360**
RA-11	217D	KCP4-SO217-B-110208	2/8/2011	Excavated	**20**	23 U	**34**	**550**	**2100**	0.59 UJ	**53**	2.9 U	**480**
RA-11	218S	KCP4-SO218-S-110208	2/8/2011	Sidewall	9.7 U	19 U	**34**	**59**	**27**	0.49 UJ	**38**	2.4 U	**140**
RA-11	219S	KCP4-SO219-S-110208	2/8/2011	Sidewall	9.6 U	19 U	**40**	**290**	**49**	0.48 UJ	**11**	2.4 U	**17**
RA-11	220S	KCP4-SO220-S-110208	2/8/2011	Sidewall	6 U	12 U	**43**	**24**	**30**	0.3 UJ	**56**	1.5 U	**58**
RA-11	221B	KCP4-SO221-B-110208	2/8/2011	Base	9.3 U	19 U	**9.5**	**82**	**67**	0.46 UJ	**13**	2.3 U	**79**
RA-11	222B	KCP4-SO222-B-110208	2/8/2011	Base(>6 feet)	**7.4**	15 U	**44**	**1600**	**280**	0.37 UJ	**23**	1.9 U	**39**
RA-11	225B	KCP4-SO225-B-110211	2/11/2011	Base(>6 feet)	**26**	31 U	**78**	**830**	**1700**	**5** J	**65**	3.8 U	**300**
RA-11	226S	KCP4-SO226-S-110211	2/11/2011	Sidewall	5.5 U	11 U	**34**	**16**	5.5 U	0.28 UJ	**64**	1.4 U	**31**
RA-11	227B	KCP4-SO227-B-110211	2/11/2011	Base	5.4 U	11 U	**36**	**15**	**11**	**0.5** J	**67**	1.4 U	**28**
RA-11	228B	KCP4-SO228-B-110211	2/11/2011	Excavated	**38**	38 U	**20**	**9800**	**1800**	**1.5** J	9.5 U	4.7 U	**12**
RA-11	229S	KCP4-SO229-S-110211	2/11/2011	Sidewall	5.5 U	11 U	**31**	**11**	5.5 U	0.27 UJ	**59**	1.4 U	**29**
RA-11	230S	KCP4-SO230-S-110211	2/11/2011	Sidewall	5.5 U	11 U	**31**	**19**	5.5 U	0.28 UJ	**56**	1.4 U	**29**
RA-11	231S	KCP4-SO231-S-110211	2/11/2011	Sidewall	5.5 U	11 U	**29**	**25**	**22**	**2.9** J	**53**	1.4 U	**58**
RA-11	232B	KCP4-SO232-B-110211	2/11/2011	Base(>6 feet)	16 U	31 U	**68**	**640**	**500**	0.78 UJ	**35**	3.9 U	**350**
MJB5	233S	KCP4-SO233-S-110211	2/11/2011	Sidewall	5.5 U	11 U	**27**	**42**	**7.7**	0.28 UJ	**39**	1.4 U	**110**
MJB5	234S	KCP4-SO234-S-110211	2/11/2011	Sidewall	5.4 U	11 U	**44**	**28**	**11**	0.27 UJ	**28**	1.3 U	**160**
MJB6	236S	KCP4-SO236-S-110211	2/11/2011	Sidewall	5.4 U	11 U	**19**	**14**	5.4 U	0.27 UJ	**41**	1.4 U	**28**
MJB6	237S	KCP4-SO237-S-110211	2/11/2011	Sidewall	5.3 U	11 U	**25**	**18**	5.3 U	0.27 UJ	**44**	1.3 U	**27**
MJB6	238S	KCP4-SO238-S-110211	2/11/2011	Sidewall	5.3 U	11 U	**26**	**57**	**7.1**	0.27 UJ	**30**	1.3 U	**290**
MJB6	239B	KCP4-SO239-B-110211	2/11/2011	Excavated	5.7 U	11 U	**31**	**86**	**240**	**0.53** J	**35**	1.4 U	**120**
MJB1	242B	KCP4-SO242-B-110211	2/11/2011	Base	5.3 U	11 U	**31**	**69**	**9.3**	0.27 UJ	**35**	1.3 U	**120**
MJB6	243B	KCP4-SO243-B-070311	3/7/2011	Excavated	**16**	11 U	**26**	**120**	**640** J	**0.82**	**33**	2.8 U	**150**
MJB6	243B	KCP4-SO243-B-070311	3/7/2011	Excavated	**12**	11 U	**27**	**120**	**440** J	**0.78**	**35**	2.9 U	**220**
RA-11	244B	KCP4-SO244-B-070311	3/7/2011	Base	18 U	18 U	**12**	**150**	**180** J	0.9 U	9 U	4.5 U	**110**
MJB6	245B	KCP4-SO245-B-150311	3/15/2011	Base(>6 feet)	29 U	15 U	**33**	**470**	**380**	1.5 U	**42**	3.7 U	**190** J
MJB6	245B	KCP4-SO245-B-150311	3/15/2011	Base(>6 feet)	30 U	15 U	**30**	**400**	**520**	1.5 U	**35**	3.7 U	**160** J
MJB6	246S	KCP4-SO246-S-150311	3/15/2011	Sidewall	5.7 U	2.9 U	**20**	**20**	**8.3**	0.29 U	**20**	0.72 U	**59** J

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
MJB6	247B	KCP4-SO247-B-240311	3/24/2011	Base	5.4 U	11 U	**19**	**22**	5.4 U	0.27 U	**45**	2.7 U	**28**
HR-5	249B	KCP4-SO249-B-110414	4/14/2011	Base			**62** J						
HR-5	250B	KCP4-SO250-B-110414	4/14/2011	Base			**56** J						
MJB2	254B	KCP4-SO254-B-110429	4/29/2011	Base	7.9 U	16 U	**50**	**19**	7.9 U	0.39 U	**30**	2 U	**54**
MJB2	255S	KCP4-SO255-S-110429	4/29/2011	Excavated	**13**	11 U	**30**	**120**	**320**	**1.1**	**49**	1.4 U	**56**
MJB2	267S	KCP4-SO267-S-110506	5/6/2011	Excavated	**72**	13 U	**27**	**210**	**7200**	**17**	**47**	3.1 U	**120**
MJB2	268S	KCP4-SO268-S-110506	5/6/2011	Sidewall	5.4 U	11 U	**29**	**33**	**57**	**0.43**	**55**	2.7 U	**56**
MJB2	269S	KCP4-SO269-S-110506	5/6/2011	Sidewall	5.5 U	11 U	**31**	**27**	**18**	0.27 U	**40**	2.7 U	**31**
MJB2	270B	KCP4-SO270-B-110506	5/6/2011	Base	6.9 U	14 U	**22**	**87**	**140**	**0.92**	**41**	3.5 U	**170**
HR-2/3	271B	KCP4-SO271-B-110506	5/6/2011	Base	5.4 U	11 U	**24**	**20**	5.4 U	0.27 U	**41**	2.7 U	**26**
HR-2/3	272B	KCP4-SO272-B-110506	5/6/2011	Base	5.4 U	11 U	**21**	**21**	5.4 U	0.27 U	**45**	2.7 U	**28**
HR-2/3	273B	KCP4-SO273-B-110506	5/6/2011	Base	5.6 U	11 U	**23**	**24**	5.6 U	0.28 U	**49**	2.8 U	**33**
HR-2/3	274B	KCP4-SO274-B-110506	5/6/2011	Base	5.4 U	11 U	**26**	**31**	**5.9**	0.27 U	**49**	2.7 U	**35**
HR-2/3	275B	KCP4-SO275-B-110506	5/6/2011	Base	5.5 U	11 U	**24**	**34**	**10**	0.27 U	**44**	2.7 U	**84**
HR-2/3	276B	KCP4-SO276-B-110506	5/6/2011	Base	5.4 U	11 U	**20**	**20**	5.4 U	0.27 U	**37**	2.7 U	**26**
HR-2/3	277S	KCP4-SO277-S-110506	5/6/2011	Excavated	5.5 U	**30**	**58**	**140**	**33**	0.28 U	**58**	2.8 U	**360**
HR-2/3	278S	KCP4-SO278-S-110506	5/6/2011	Sidewall	5.5 U	**16**	**60**	**81**	**18**	0.27 U	**57**	2.7 U	**190**
HR-2/3	278S	KCP4-SO279-S-110506	5/6/2011	Excavated	5.4 U	**25**	**77**	**120**	**37**	0.27 U	**68**	2.7 U	**440**
HR-2/3	280S	KCP4-SO280-S-110506	5/6/2011	Excavated	5.5 U	**24**	**35**	**79**	**29**	0.27 U	**54**	2.7 U	**290**
HR-1	281B	KCP4-SO281-B-110506	5/6/2011	Base	5.9 U	12 U	**18**	**16**	5.9 U	0.3 U	**20**	3 U	**30**
HR-1	282B	KCP4-SO282-B-110506	5/6/2011	Base	5.6 U	11 U	**38**	**38**	**15**	0.28 U	**44**	2.8 U	**130**
HR-1	283B	KCP4-SO283-B-110506	5/6/2011	Base	5.5 U	11 U	**60**	**29**	**18**	0.28 U	**82**	2.8 U	**77**
HR-1	284S	KCP4-SO284-S-110506	5/6/2011	Sidewall	5.4 U	**15**	**47**	**55**	**13**	0.27 U	**120**	2.7 U	**150**
HR-1	285S	KCP4-SO285-S-110506	5/6/2011	Sidewall	5.5 U	11 U	**23**	**28**	**7.5**	**1.2**	**46**	2.7 U	**49**
HR-1	286S	KCP4-SO286-S-110506	5/6/2011	Sidewall	5.7 U	11 U	**27**	**38**	**17**	0.28 U	**33**	2.8 U	**100**
HR-1	287S	KCP4-SO287-S-110506	5/6/2011	Sidewall	5.4 U	11 U	**23**	**31**	**9.9**	0.27 U	**41**	2.7 U	**59**
MJB2	308B	KCP4-SO308-B-110525	5/25/2011	Base	8 U	16 U	**58**	**22**	8 U	0.4 U	**31**	4 U	**61**
MJB2	309S	KCP4-SO309-S-110525	5/25/2011	Sidewall	5.5 U	11 U	**24**	**14**	5.5 U	0.28 U	**57**	2.8 U	**25**
MJB2	310S	KCP4-SO310-S-110525	5/25/2011	Sidewall	5.5 U	11 U	**22**	**14**	5.5 U	0.28 U	**51**	2.8 U	**25**
HR-2/3	318S	KCP4-SO318-S-110525	5/25/2011	Excavated	**41**	**190**	**74**	**500**	**180**	0.27 U	**64**	2.7 U	**1500**
HR-2/3	319D	KCP4-SO319-D-110525	5/25/2011	Excavated	**33**	**170**	**65** J	**410** J	**110**	0.26 UJ	**46** J	2.6 U	**1400** J
HR-2/3	320S	KCP4-SO320-S-110525	5/25/2011	Sidewall	5.2 U	10 U	**27** J	**52** J	**16**	0.26 UJ	**25** J	2.6 U	**120** J

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
HR-2/3	321S	KCP4-SO321-S-110525	5/25/2011	Excavated	5.3 U	**23**	**41** J	**240** J	**22**	0.26 UJ	**43** J	2.6 U	**460** J
HR-2/3	322S	KCP4-SO322-S-110525	5/25/2011	Sidewall	5.3 U	**12**	**71** J	**140** J	**14**	0.26 UJ	**46** J	2.6 U	**270** J
HR-2/3	323S	KCP4-SO323-S-110525	5/25/2011	Sidewall	5.2 U	10 U	**49** J	**72** J	**12**	0.26 UJ	**71** J	2.6 U	**240** J
HR-2/3	324S	KCP4-SO324-S-110525	5/25/2011	Excavated	**5.6**	**28**	**91** J	**92** J	**26**	0.26 UJ	**53** J	2.6 U	**400** J
HR-2/3	325S	KCP4-SO325-S-110525	5/25/2011	Excavated	**8.4**	**36**	**140** J	**140** J	**32**	0.27 UJ	**94** J	2.7 U	**550** J
HR-2/3	326S	KCP4-SO326-S-110525	5/25/2011	Excavated	**7.8**	**36**	**84** J	**300** J	**35**	0.26 UJ	**82** J	2.6 U	**600** J
HR-2/3	327S	KCP4-SO327-S-110525	5/25/2011	Excavated	**9.3**	**34**	**150** J	**400** J	**46**	**0.42** J	**150** J	2.6 U	**520** J
HR-2/3	331B	KCP4-SO331-B-110525	5/25/2011	Excavated	5.4 U	**26**	**31** J	**78** J	**13**	0.27 UJ	**39** J	2.7 U	**300** J
HR-2/3	332D	KCP4-SO332-D-110525	5/25/2011	Excavated	**6.2**	**19**	**26** J	**80** J	**19**	0.27 UJ	**42** J	2.7 U	**220** J
HR-2/3	333B	KCP4-SO333-B-110525	5/25/2011	Excavated	**14**	**91**	**41** J	**210** J	**53**	0.27 UJ	**36** J	2.7 U	**900** J
HR-2/3	334B	KCP4-SO334-B-110525	5/25/2011	Base	5.5 U	11 U	**22** J	**21** J	5.5 U	0.27 UJ	**34** J	2.7 U	**30** J
HR-2/3	335B	KCP4-SO335-B-110525	5/25/2011	Base	**12**	**18**	**64** J	**130** J	**210**	**0.46** J	**66** J	3 U	**370** J
HR-2/3	336B	KCP4-SO336-B-110525	5/25/2011	Excavated	**28**	**33**	**78** J	**130** J	**190**	**0.49** J	**52** J	3.3 U	**310** J
HR-2/3	337B	KCP4-SO337-B-110525	5/25/2011	Base	5.7 U	11 U	**23** J	**23** J	5.7 U	0.28 UJ	**33** J	2.8 U	**37** J
HR-2/3	338B	KCP4-SO338-B-110525	5/25/2011	Base	5.4 U	11 U	**23** J	**35** J	**8**	0.27 UJ	**33** J	2.7 U	**87** J
HR-2/3	339S	KCP4-SO339-S-110607	6/7/2011	Excavated	**11**	**27**	**80**	**220** J	**61**	0.26 U	**66** J	2.6 U	**820**
HR-2/3	340D	KCP4-SO340-D-110607	6/7/2011	Excavated	**8.5**	**22**	**76**	**190** J	**56**	0.26 U	**53** J	2.6 U	**720**
HR-2/3	341S	KCP4-SO341-S-110607	6/7/2011	Sidewall	5.1 U	**12**	**69**	**130** J	**20**	0.26 U	**51** J	2.6 U	**500**
HR-2/3	342B	KCP4-SO342-B-110607	6/7/2011	Base	5.3 U	11 U	**20**	**23**	5.3 U	0.27 U	**41**	2.7 U	**30**
HR-2/3	343D	KCP4-SO343-D-110607	6/7/2011	Duplicate	5.4 U	11 U	**18**	**17**	5.4 U	0.27 U	**39**	2.7 U	**24**
HR-2/3	344B	KCP4-SO344-B-110607	6/7/2011	Excavated	**27**	**38**	**110**	**110**	**310**	**0.62**	**68**	2.8 U	**510**
HR-2/3	345B	KCP4-SO345-B-110607	6/7/2011	Base	5.2 U	10 U	**21**	**16**	5.2 U	0.26 U	**42**	2.6 U	**33**
HR-2/3	346S	KCP4-SO346-S-110607	6/7/2011	Sidewall	5.3 U	11 U	**77**	**85**	**16**	0.26 U	**62**	2.6 U	**300**
HR-2/3	347B	KCP4-SO347-B-110607	6/7/2011	Base	5.2 U	10 U	**14**	**41**	**9.8**	0.26 U	**19**	2.6 U	**47**
HR-2/3	348S	KCP4-SO348-S-110607	6/7/2011	Sidewall	5.3 U	11 U	**24**	**27**	**5.5**	0.26 U	**42**	2.6 U	**100**
HR-2/3	349B	KCP4-SO349-B-110607	6/7/2011	Base	5.2 U	10 U	**27**	**30**	**8.9**	0.26 U	**53**	2.6 U	**86**
HR-2/3	350S	KCP4-SO350-S-110607	6/7/2011	Excavated	**550**	**1100**	**98**	**350**	**480**	0.26 U	**66**	2.6 U	**1200**
HR-2/3	351B	KCP4-SO351-B-110607	6/7/2011	Base	5.3 U	11 U	**21**	**26**	**5.9**	0.26 U	**39**	2.6 U	**100**
BNKR-E	352B	KCP4-SO352-B-110607	6/7/2011	Base	5.6 U	11 U	**30**	**70**	**73**	0.28 U	**30**	2.8 U	**70**
BNKR-E	353B	KCP4-SO353-B-110607	6/7/2011	Base	5.8 U	12 U	**38**	**95**	**140**	**0.43**	**35**	2.9 U	**120**
BNKR-E	354S	KCP4-SO354-S-110607	6/7/2011	Excavated	**94**	**280**	**76**	**920**	**180**	0.26 U	**72**	2.6 U	**1700**
BNKR-E	355S	KCP4-SO355-S-110607	6/7/2011	Sidewall	**5.4**	**16**	**43**	**75**	**18**	0.26 U	**49**	2.6 U	**200**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
BNKR-E	356S	KCP4-SO356-S-110607	6/7/2011	Sidewall	5.4 U	11 U	**38**	**83**	**19**	**0.33**	**41**	2.7 U	**270**
HR-2/3	357B	KCP4-SO357-B-110607	6/7/2011	Excavated	**7.8**	**34**	**33**	**120**	**29**	0.27 U	**94**	2.7 U	**370**
HR-2/3	358S	KCP4-SO358-S-110607	6/7/2011	Excavated	**25**	**110**	**58**	**260**	**130**	0.26 U	**58**	2.6 U	**1100**
HR-2/3	359S	KCP4-SO359-S-110607	6/7/2011	Excavated	**11**	**46**	**37**	**100**	**45**	0.26 U	**37**	2.6 U	**510**
HR-2/3	360S	KCP4-SO360-S-110607	6/7/2011	Sidewall	5.2 U	10 U	**34**	**110**	**6.3**	0.26 U	**37**	2.6 U	**100**
HR-2/3	361S	KCP4-SO361-S-110607	6/7/2011	Sidewall	5.1 U	10 U	**20**	**21**	5.1 U	0.26 U	**55**	2.6 U	**37**
HR-2/3	362B	KCP4-SO362-B-110607	6/7/2011	Excavated	**12**	**54**	**100**	**72**	**17**	0.26 U	**95**	2.6 U	**500**
HR-2/3	363B	KCP4-SO363-B-110607	6/7/2011	Base	5.1 U	10 U	**31**	**28**	**5.5**	0.26 U	**37**	2.6 U	**37**
HR-2/3	364D	KCP4-SO364-D-110607	6/7/2011	Duplicate	5.1 U	10 U	**22**	**32**	**6.4**	0.26 U	**47**	2.6 U	**38**
HR-2/3	365B	KCP4-SO365-B-110607	6/7/2011	Base	5.1 U	10 U	**19**	**22**	5.1 U	0.26 U	**36**	2.6 U	**34**
HR-2/3	366B	KCP4-SO366-B-110607	6/7/2011	Base	5.2 U	10 U	**31**	**37**	**6.8**	0.26 U	**68**	2.6 U	**84**
HR-2/3	367S	KCP4-SO367-S-110607	6/7/2011	Sidewall	5.2 U	**14**	**41**	**78**	**11**	0.26 U	**54**	2.6 U	**250**
BNKR-W	368B	KCP4-SO368-B-110607	6/7/2011	Base	5.4 U	11 U	**42**	**69**	**14**	0.27 U	**54**	2.7 U	**300**
BNKR-W	369D	KCP4-SO369-D-110607	6/7/2011	Duplicate	5.4 U	11 U	**36**	**75**	**16**	**0.42**	**48**	2.7 U	**250**
BNKR-W	370B	KCP4-SO370-B-110607	6/7/2011	Base	5.2 U	10 U	**35**	**29**	5.2 U	0.26 U	**110**	2.6 U	**120**
BNKR-W	371B	KCP4-SO371-B-110607	6/7/2011	Base	5.2 U	10 U	**36**	**67**	**13**	0.26 U	**43**	2.6 U	**120**
BNKR-W	372B	KCP4-SO372-B-110607	6/7/2011	Base	5.2 U	10 U	**32**	**50**	**9.1**	0.26 U	**45**	2.6 U	**110**
BNKR-W	373S	KCP4-SO373-S-110607	6/7/2011	Sidewall	5.2 U	10 U	**33**	**55**	5.2 U	0.26 U	**36**	2.6 U	**100**
BNKR-W	374S	KCP4-SO374-S-110607	6/7/2011	Sidewall	5.2 U	10 U	**30**	**73**	**6**	0.26 U	**31**	2.6 U	**89**
BNKR-W	375S	KCP4-SO375-S-110607	6/7/2011	Excavated	**7.1**	**22**	**54**	**87**	**13**	**0.27**	**63**	2.6 U	**270**
BNKR-W	376S	KCP4-SO376-S-110607	6/7/2011	Sidewall	**5.4**	**16**	**55**	**94**	**13**	0.26 U	**62**	2.6 U	**250**
BNKR-W	377S	KCP4-SO377-S-110607	6/7/2011	Sidewall	5.2 U	10 U	**33**	**96**	**11**	0.26 U	**35**	2.6 U	**120**
BNKR-W	378S	KCP4-SO378-S-110607	6/7/2011	Sidewall	5.2 U	**15**	**37**	**97**	**15**	0.26 U	**35**	2.6 U	**180**
BNKR-E	379B	KCP4-SO379-B-110607	6/7/2011	Excavated	5.3 U	11 U	**45**	**85**	**380**	**0.48**	**60**	2.7 U	**140**
HR-2/3	380S	KCP4-SO380-S-110614	6/14/2011	Sidewall	5.2 U	10 U	**26** J	**47**	5.2 U	0.26 U	**34**	2.6 U	**67** J
HR-2/3	381S	KCP4-SO381-S-110614	6/14/2011	Sidewall	5.3 U	**14**	**33** J	**72**	**12**	0.27 U	**46**	2.7 U	**160** J
HR-2/3	382S	KCP4-SO382-S-110614	6/14/2011	Excavated	**11**	**65**	**42** J	**200**	**47**	0.26 U	**49**	2.6 U	**580** J
HR-2/3	383S	KCP4-SO383-S-110614	6/14/2011	Excavated	5.2 U	**23**	**33** J	**100**	**20**	0.26 U	**51**	2.6 U	**280** J
HR-2/3	384S	KCP4-SO384-S-110614	6/14/2011	Sidewall	5.2 U	**13**	**41** J	**190**	**8.8**	0.26 U	**41**	2.6 U	**160** J
HR-2/3	385B	KCP4-SO385-B-110614	6/14/2011	Base	5.3 U	11 U	**76** J	**25**	5.3 U	0.27 U	**37**	2.7 U	**32** J
HR-2/3	386D	KCP4-SO386-D-110614	6/14/2011	Duplicate	5.3 U	11 U	**19** J	**22**	5.3 U	0.26 U	**37**	2.6 U	**27** J
HR-2/3	387B	KCP4-SO387-B-110614	6/14/2011	Base	5.3 U	11 U	**18** J	**20**	5.3 U	0.26 U	**41**	2.6 U	**29** J

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
HR-2/3	388B	KCP4-SO388-B-110614	6/14/2011	Base	5.4 U	11 U	**16** J	**22**	5.4 U	0.27 U	**38**	2.7 U	**31** J
HR-2/3	389B	KCP4-SO389-B-110614	6/14/2011	Base	5.3 U	11 U	**17** J	**22**	5.3 U	0.27 U	**38**	2.7 U	**27** J
HR-2/3	390S	KCP4-SO390-S-110614	6/14/2011	Sidewall	5.1 U	**12**	**35** J	**89**	**12**	0.26 U	**45**	2.6 U	**470** J
HR-2/3	391S	KCP4-SO391-S-110614	6/14/2011	Excavated	**8.1**	**45**	**76** J	**200**	**43**	0.26 U	**73**	2.6 U	**940** J
HR-2/3	392S	KCP4-SO392-S-110614	6/14/2011	Sidewall	5.3 U	11 U	**33** J	**84**	**10**	0.26 U	**46**	2.6 U	**160** J
HR-2/3	393D	KCP4-SO393-D-110614	6/14/2011	Duplicate	5.2 U	10 U	**37** J	**88**	**9.1**	0.26 U	**43**	2.6 U	**140** J
HR-2/3	394B	KCP4-SO394-B-110614	6/14/2011	Base	5.2 U	**12**	**34**	**72**	**14**	0.26 U	**50**	2.6 U	**160**
HR-2/3	395S	KCP4-SO395-S-110614	6/14/2011	Excavated	**24**	**150**	**41**	**400**	**100**	0.26 U	**57**	2.6 U	**1400**
HR-2/3	396S	KCP4-SO396-S-110614	6/14/2011	Excavated	**9.7**	**44**	**87**	**140**	**33**	0.26 U	**81**	2.6 U	**590**
HR-2/3	397S	KCP4-SO397-S-110614	6/14/2011	Excavated	**5.4**	**34**	**54**	**130**	**29**	0.26 U	**63**	2.6 U	**450**
HR-2/3	398B	KCP4-SO398-B-110614	6/14/2011	Excavated	**7.8**	**24**	**75**	**98**	**140**	**0.47**	**58**	2.7 U	**380**
BNKR-E	399S	KCP4-SO399-S-110614	6/14/2011	Sidewall	5.1 U	10 U	**40**	**84**	**13**	0.26 U	**44**	2.6 U	**150**
BNKR-E	400S	KCP4-SO400-S-110614	6/14/2011	Sidewall	5.1 U	10 U	**34**	**86**	**11**	0.26 U	**40**	2.6 U	**140**
BNKR-E	401B	KCP4-SO401-B-110614	6/14/2011	Base	5.2 U	10 U	**27**	**52**	**14**	0.26 U	**25**	2.6 U	**75**
BNKR-E	402D	KCP4-SO402-D-110614	6/14/2011	Duplicate	5.2 U	10 U	**24**	**42**	**14**	0.26 U	**24**	2.6 U	**57**
BNKR-W	403S	KCP4-SO403-S-110614	6/14/2011	Sidewall	5.1 U	10 U	**66**	**100**	**19**	0.25 U	**82**	2.5 U	**310**
BNKR-W	404B	KCP4-SO404-B-110614	6/14/2011	Base	5.2 U	10 U	**23**	**27**	5.2 U	0.26 U	**47**	2.6 U	**60**
HR-2/3	407S	KCP4-SO407-S-110627	6/27/2011	Excavated	**5.9**	**27**	**52**	**127** J	**66**	0.25 U	**55**	2.5 U	**450** J
HR-2/3	408S	KCP4-SO408-S-110627	6/27/2011	Excavated	**47**	**240**	**82**	**510** J	**190**	0.25 U	**87**	2.5 U	**2100** J
HR-2/3	409S	KCP4-SO409-S-110627	6/27/2011	Excavated	**9.1**	**39**	**49**	**290** J	**39**	0.26 U	**360**	2.6 U	**640** J
HR-2/3	410S	KCP4-SO410-S-110627	6/27/2011	Excavated	**18**	**69**	**80**	**120** J	**52**	0.25 U	**67**	2.5 U	**710** J
HR-2/3	411B	KCP4-SO411-B-110627	6/27/2011	Base	5.3 U	11 U	**23**	**21** J	**5.7**	0.26 U	**45**	2.6 U	**60** J
HR-2/3	412B	KCP4-SO412-B-110627	6/27/2011	Base	5.3 U	11 U	**28**	**26** J	5.3 U	0.27 U	**49**	2.7 U	**45** J
HR-2/3	413D	KCP4-SO413-D-110627	6/27/2011	Duplicate	5.3 U	11 U	**32**	**21** J	5.3 U	0.27 U	**46**	2.7 U	**36** J
HR-2/3	414B	KCP4-SO414-B-110627	6/27/2011	Base	5.2 U	10 U	**28**	**17** J	**5.9**	0.26 U	**47**	2.6 U	**33** J
HR-2/3	415B	KCP4-SO415-B-110627	6/27/2011	Base	**6.9**	**20**	**32**	**58** J	**32**	0.26 U	**53**	2.6 U	**170** J
HR-2/3	416B	KCP4-SO416-B-110627	6/27/2011	Base	5.2 U	10 U	**23**	**28** J	**8.4**	0.26 U	**39**	2.6 U	**160** J
HR-2/3	417S	KCP4-SO417-S-110627	6/27/2011	Sidewall	5.3 U	11 U	**36**	**61** J	**62**	0.27 U	**38**	2.7 U	**180** J
HR-2/3	418S	KCP4-SO418-S-110627	6/27/2011	Sidewall	5.3 U	11 U	**26**	**37** J	**8.6**	0.26 U	**43**	2.6 U	**110** J
HR-2/3	419D	KCP4-SO419-D-110627	6/27/2011	Duplicate	5.3 U	11 U	**26**	**34** J	**10**	0.26 U	**49**	2.6 U	**130** J
HR-2/3	420S	KCP4-SO420-S-110627	6/27/2011	Excavated	5.2 U	10 U	**29**	**31** J	**12**	0.26 U	**46**	2.6 U	**55** J
HR-2/3	421S	KCP4-SO421-S-110627	6/27/2011	Excavated	**5.7**	**21**	**44**	**91** J	**17**	0.26 U	**45**	2.6 U	**220** J

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
HR-2/3	422S	KCP4-SO422-S-110627	6/27/2011	Excavated	**17**	**69**	**55**	**86** J	**52**	0.25 U	**47**	2.5 U	**670** J
HR-2/3	423S	KCP4-SO423-S-110627	6/27/2011	Sidewall	5.1 U	10 U	**36**	**72** J	**8.7**	0.25 U	**35**	2.5 U	**180** J
HR-2/3	424B	KCP4-SO424-B-110627	6/27/2011	Base	5.2 U	10 U	**30**	**27**	5.2 U	0.26 U	**61**	2.6 U	**38**
HR-2/3	425D	KCP4-SO425-D-110627	6/27/2011	Duplicate	5.2 U	10 U	**25**	**29** J	5.2 U	0.26 U	**50**	2.6 U	**33** J
HR-2/3	426B	KCP4-SO426-B-110627	6/27/2011	Base	5.2 U	10 U	**18**	**16** J	5.2 U	0.26 U	**41**	2.6 U	**31** J
HR-2/3	427B	KCP4-SO427-B-110627	6/27/2011	Base	5.3 U	11 U	**24**	**28**	5.3 U	0.26 U	**50**	2.6 U	**34**
HR-2/3	428B	KCP4-SO428-B-110627	6/27/2011	Base	5.3 U	11 U	**24**	**25**	**5.7**	0.26 U	**51**	2.6 U	**52**
HR-2/3	429B	KCP4-SO429-B-110627	6/27/2011	Base	5.3 U	11 U	**28**	**29**	5.3 U	0.27 U	**45**	2.7 U	**34**
HR-2/3	430B	KCP4-SO430-B-110627	6/27/2011	Base	5.3 U	11 U	**47**	**27**	5.3 U	0.26 U	**59**	2.6 U	**39**
HR-2/3	431B	KCP4-SO431-B-110627	6/27/2011	Base	5.3 U	11 U	**34**	**39**	**14**	0.27 U	**60**	2.7 U	**64**
HR-2/3	432B	KCP4-SO432-B-110627	6/27/2011	Base	5.2 U	10 U	**33**	**34**	**7.2**	0.26 U	**58**	2.6 U	**54**
HR-2/3	433B	KCP4-SO433-B-110627	6/27/2011	Base	5.4 U	11 U	**28**	**40**	**8**	0.27 U	**43**	2.7 U	**46**
HR-2/3	434B	KCP4-SO434-B-110627	6/27/2011	Base	6.2 U	12 U	**35**	**44**	**32**	0.31 U	**50**	3.1 U	**110**
HR-2/3	435B	KCP4-SO435-B-110627	6/27/2011	Base	5.3 U	11 U	**36**	**110**	**26**	0.27 U	**46**	2.7 U	**110**
HR-2/3	436B	KCP4-SO436-B-110627	6/27/2011	Base	5.4 U	11 U	**30**	**24**	5.4 U	0.27 U	**60**	2.7 U	**43**
HR-2/3	437B	KCP4-SO437-B-110627	6/27/2011	Base	5.1 U	10 U	**17**	**34**	5.1 U	0.26 U	**34**	2.6 U	**31**
HR-2/3	438S	KCP4-SO438-S-110712	7/12/2011	Sidewall	5.4 U	**14**	**42**	**100**	**45**	**0.32**	**50**	2.7 U	**590**
HR-2/3	439S	KCP4-SO439-S-110712	7/12/2011	Excavated	5.2 U	10 U	**33**	**54**	**10**	0.26 U	**46**	2.6 U	**680**
HR-2/3	440S	KCP4-SO440-S-110712	7/12/2011	Excavated	5.6 U	11 U	**30**	**46**	**17**	0.28 U	**55**	2.8 U	**910**
HR-2/3	441S	KCP4-SO441-S-110712	7/12/2011	Excavated	6 U	12 U	**36**	**31**	**8**	0.3 U	**43**	3 U	**660**
HR-2/3	442S	KCP4-SO442-S-110712	7/12/2011	Sidewall	5.1 U	10 U	**35**	**96**	**7.4**	0.25 U	**49**	2.5 U	**120**
HR-2/3	443B	KCP4-SO443-B-110712	7/12/2011	Base	5.4 U	11 U	**34**	**28**	**5.6**	0.27 U	**73**	2.7 U	**45**
HR-2/3	444D	KCP4-SO444-D-110712	7/12/2011	Duplicate	5.4 U	11 U	**34**	**25**	5.4 U	0.27 U	**66**	2.7 U	**36**
HR-2/3	445B	KCP4-SO445-B-110712	7/12/2011	Base	5.4 U	11 U	**26**	**23**	5.4 U	0.27 U	**52**	2.7 U	**32**
HR-2/3	446B	KCP4-SO446-B-110712	7/12/2011	Base	5.4 U	11 U	**31**	**29**	**6.8**	0.27 U	**41**	2.7 U	**35**
HR-2/3	447B	KCP4-SO447-B-110712	7/12/2011	Base	5.3 U	11 U	**25**	**17**	5.3 U	0.26 U	**37**	2.6 U	**33**
HR-2/3	448B	KCP4-SO448-B-110712	7/12/2011	Base	5.2 U	10 U	**16**	**17**	5.2 U	0.26 U	**38**	2.6 U	**25**
HR-2/3	449B	KCP4-SO449-B-110712	7/12/2011	Base	5.3 U	11 U	**27**	**16**	5.3 U	0.27 U	**50**	2.7 U	**40**
HR-2/3	450B	KCP4-SO450-B-110712	7/12/2011	Base	5.2 U	10 U	**22**	**20**	5.2 U	0.26 U	**50**	2.6 U	**50**
HR-2/3	451B	KCP4-SO451-B-110712	7/12/2011	Base	5.2 U	10 U	**21**	**17**	5.2 U	0.26 U	**51**	2.6 U	**36**
HR-2/3	452B	KCP4-SO452-B-110712	7/12/2011	Base	5.2 U	10 U	**19**	**25**	5.2 U	0.26 U	**39**	2.6 U	**53**
HR-2/3	453B	KCP4-SO453-B-110712	7/12/2011	Base	5.2 U	10 U	**20**	**26**	5.2 U	0.26 U	**46**	2.6 U	**72**

Table F-1
Metals Sampling Results for Excavation Areas

				Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
				Soil Cleanup Level (in mg/kg)	32	20	117	336	220	9	977	5.6	662
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type									
HR-2/3	454S	KCP4-SO454-S-110712	7/12/2011	Sidewall	5.1 U	**11**	**25**	**46**	**11**	0.25 U	**48**	2.5 U	**110**
HR-2/3	455S	KCP4-SO455-S-110712	7/12/2011	Sidewall	5.1 U	**20**	**61**	**140**	**20**	0.25 U	**78**	2.5 U	**460**
HR-2/3	456B	KCP4-SO456-B-110712	7/12/2011	Excavated	**6**	**34**	**39**	**120**	**25**	0.26 U	**41**	2.6 U	**620**
HR-2/3	457D	KCP4-SO457-D-110712	7/12/2011	Duplicate	5.2 U	10 U	**32**	**51**	**35**	**0.69** J	**69**	2.6 U	**54**
HR-2/3	458B	KCP4-SO458-B-110712	7/12/2011	Base	5.3 U	11 U	**26**	**20**	5.3 U	0.27 UJ	**48**	2.7 U	**32**
HR-2/3	459B	KCP4-SO459-B-110712	7/12/2011	Base	5.3 U	11 U	**22**	**15**	5.3 U	0.26 UJ	**49**	2.6 U	**26**
HR-2/3	460S	KCP4-SO460-S-110712	7/12/2011	Sidewall	5.2 U	**12**	**85**	**130**	**18**	0.26 UJ	**140**	2.6 U	**200**
HR-2/3	461S	KCP4-SO461-S-110712	7/12/2011	Sidewall	**8.8**	**14**	**40**	**78**	**18**	0.25 UJ	**50**	2.5 U	**260**
HR-2/3	462S	KCP4-SO462-S-110712	7/12/2011	Sidewall	5.1 U	10 U	**40**	**76**	**10**	0.25 UJ	**48**	2.5 U	**180**
HR-2/3	463B	KCP4-SO463-B-110712	7/12/2011	Base	5.3 U	11 U	**30**	**52**	**40**	0.26 UJ	**69**	2.6 U	**51**
HR-2/3	464D	KCP4-SO464-D-110712	7/12/2011	Duplicate	5.3 U	11 U	**22**	**17**	5.3 U	0.26 U	**40**	2.6 U	**28**
HR-2/3	465B	KCP4-SO465-B-110712	7/12/2011	Base	5.1 U	10 U	**29**	**60**	**12**	**0.26** J	**42**	2.6 U	**230**
HR-2/3	466B	KCP4-SO466-B-110712	7/12/2011	Base	5.3 U	11 U	**24**	**16**	5.3 U	0.26 UJ	**49**	2.6 U	**25**
HR-2/3	467B	KCP4-SO467-B-110712	7/12/2011	Base	5.3 U	11 U	**15**	**12**	5.3 U	0.27 UJ	**41**	2.7 U	**21**
HR-2/3	468B	KCP4-SO468-B-110728	7/28/2011	Base	5.3 U	11 U	**33**	**23**	**5.4**	0.26 U	**64**	2.6 U	**48**
HR-2/3	469D	KCP4-SO469-D-110728	7/28/2011	Duplicate	5.3 U	11 U	**24**	**23**	5.3 U	0.26 U	**58**	2.6 U	**50**

Notes:
U = Compound analyzed, but not detected above detection limit
UJ = Compound analyzed, but not detected above estimated detection limit
J = Estimated value
BNKR-W = West Bunker
BNKR-E = East Bunker
Base = base of excavation; Base(>6') = base of excavation deeper than 6 feet; Sidewall = excavation sidewall
Bold = Detected result
mg/kg = milligrams per kilogram

Table F-2
PAH Sampling Results for Excavation Areas

				PAH (µg/kg)	Total cPAH TEQ	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Benzo(j,k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type																		
HR-3	256B	KCP4-SO256-B-110506	5/6/2011	Excavated	**230**	70 U	70 U	**91**	70 U	**120**	**190**	**170**	**93**	**140**	**190**	70 U	**460**	**89**	**79**	**70 U**	**510**	**340**
HR-3	257S	KCP4-SO257-S-110506	5/6/2011	Excavated	**188**	**26**	**27**	**64**	7 U	**100**	**150**	**140**	**76**	**120**	**150**	**30**	**300**	**70**	**69**	**28**	**420**	**200**
HR-3	258S	KCP4-SO258-S-110506	5/6/2011	Sidewall	**113**	**13**	**21**	**24**	7.2 U	**37**	**78**	**84**	**75**	**66**	**90**	**20**	**140**	**30**	**49**	**25**	**180**	**110**
HR-3	259S	KCP4-SO259-S-110506	5/6/2011	Excavated	**75**	**14**	**22**	**24**	7.1 U	**33**	**67**	**54**	**53**	**38**	**75**	**12**	**130**	**24**	**33**	**29**	**160**	**98**
HR-3	260S	KCP4-SO260-S-110506	5/6/2011	Excavated	**175**	**29**	**33**	**54**	7.4 U	**83**	**130**	**130**	**71**	**100**	**140**	**32**	**290**	**60**	**71**	**33**	**350**	**210**
HR-3	266S	KCP4-SO266-S-110506	5/6/2011	Excavated	**224**	**50**	**54**	**87**	7.3 U	**130**	**190**	**160**	**100**	**160**	**190**	**36**	**450**	**100**	**99**	**52**	**540**	**370**
HR-3	311B	KCP4-SO311-B-110525	5/25/2011	Excavated	**51**	7.2 U	7.2 U	**14**	7.2 U	**25**	**40**	**39**	**21**	**29**	**41**	7.2 U	**93**	**14**	**19**	**7.7**	**89**	**79**
HR-3	312S	KCP4-SO312-S-110525	5/25/2011	Excavated	**146**	**13**	**18**	**32**	6.8 U	**53**	**110**	**110**	**61**	**78**	**110**	**18**	**260**	**31**	**53**	**16**	**230**	**210**
HR-3	313S	KCP4-SO313-S-110525	5/25/2011	Sidewall	**20**	**8.8**	**19**	**7.1**	6.9 U	**8.6**	**14**	**14**	**22**	**13**	**21**	6.9 U	**38**	**7.6**	**9.1**	**14**	**46**	**33**
HR-3	314D	KCP4-SO314-D-110525	5/25/2011	Duplicate	**33**	6.9 U	**15**	6.9 U	6.9 U	**8.7**	**22**	**24**	**27**	**22**	**28**	6.9 U	**57**	6.9 U	**14**	**11**	**41**	**48**
HR-3	339S	KCP4-SO339-S-110607	6/7/2011	Excavated	102 J	**14**	**21**	**26 J**	7 U	**36 J**	**84 J**	**72 J**	**60**	**63**	**100 J**	**18**	**230 J**	**28**	**50**	**23**	**230 J**	**170 J**
HR-3	340D	KCP4-SO340-D-110607	6/7/2011	Excavated	**115**	**15**	**25**	**29**	7 U	**36**	**90**	**81**	**72**	**72**	**110**	**21**	**240**	**30**	**58**	**23**	**240**	**190**
HR-3	341S	KCP4-SO341-S-110607	6/7/2011	Sidewall	**29**	6.8 U	**12**	**10**	6.8 U	**16**	**26**	**21**	**18**	**17**	**29**	6.8 U	**64**	**12**	**10**	**11**	**73**	**51**
HR-4	261B	KCP4-SO261-B-110506	5/6/2011	Base	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
HR-4	262S	KCP4-SO262-S-110506	5/6/2011	Sidewall	**77**	7 U	**12**	7 U	7 U	7 U	**46**	**57**	**78**	**39**	**57**	**14**	**97**	7 U	**46**	**12**	**41**	**80**
HR-4	263S	KCP4-SO263-S-110506	5/6/2011	Sidewall	**75**	7.2 U	**8.6**	7.2 U	7.2 U	7.2 U	**41**	**52**	**130**	**31**	**64**	**32**	**66**	7.2 U	**61**	**8.2**	**26**	**61**
HR-4	264S	KCP4-SO264-S-110506	5/6/2011	Sidewall	**93**	7.1 U	7.1 U	7.1 U	7.1 U	7.1 U	**41**	**64**	**150**	**52**	**75**	**51**	**65**	7.1 U	**65**	7.1 U	**29**	**59**
HR-4	265S	KCP4-SO265-S-110506	5/6/2011	Sidewall	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
HR-5	248B	KCP4-SO248-B-110414	4/14/2011	Base	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	9.6
MJB2	18D	KCP4-SO018B-S-100105	1/5/2010	Excavated	**139**	7.7 U	7.7 U	**21**	**11**	**72**	**120**	**100**	**73**	**166**	**160**	**22**	**270**	**64**	**63**	7.7 U	**76**	**240**
MJB2	18S	KCP4-SO018-S-100105	1/5/2010	Excavated	**114**	8.8 U	8.8 U	**15**	**12**	**57**	**100**	**82**	**63**	**134**	**150**	**19**	**280**	**51**	**49**	8.8 U	**74**	**240**
MJB2	19S	KCP4-SO019-S-100105	1/5/2010	Excavated	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U
MJB2	20B	KCP4-SO020-B-100105	1/5/2010	Excavated	**135**	8.1 U	8.1 U	8.1 U	**12**	**20**	**110**	**94**	**96**	**179**	**140**	**25**	**220**	8.1 U	**80**	8.1 U	**95**	**190**
MJB2	21S	KCP4-SO021-S-100105	1/5/2010	Excavated	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
MJB2	22S	KCP4-SO022-S-100105	1/5/2010	Excavated	**84**	**60**	8.1 U	**56**	**13**	**17**	**61**	**57**	**71**	**125**	**98**	**17**	**130**	**35**	**53**	**14**	**91**	**130**
MJB4	1B	KCP4-SO001-B-091222	12/22/2009	Base	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
MJB4	1S	KCP4-SO001-S-091222	12/22/2009	Sidewall	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
MJB4	2S	KCP4-SO002-S-091222	12/22/2009	Sidewall	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
MJB4	3S	KCP4-SO003-S-091211	12/11/2009	Sidewall	**15**	7.1 U	7.1 U	7.1 U	7.1 U	7.1 U	**12**	**11**	**16**	**19.1**	**14**	7.1 U	**33**	7.1 U	7.1 U	7.1 U	**32**	**27**
MJB4	4S	KCP4-SO004-S-091222	12/22/2009	Sidewall	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U
MJB4	4D	KCP4-SO004-SD-091222	12/22/2009	Duplicate	**27**	7.2 U	7.2 U	7.2 U	7.2 U	7.2 U	**17**	**20**	**13**	**32**	**19**	7.2 U	**34**	7.2 U	**11**	7.2 U	**12**	**31**

Notes:
µg/kg = micrograms per kilogram
PAH = polycyclic aromatic hydrocarbon
Total cPAH TEQ (7 minimum CAEPA 2005) (U = 1/2)

Table F-3
TPH Sampling Results for Excavation Areas

				TPH (mg/kg)	Diesel Range Hydrocarbons		Diesel Range Hydrocarbons		Residual Range Hydrocarbons		Residual Range Hydrocarbons	
				Analytical Method	NWTPH-HCID		NWTPH-Dx		NWTPH-HCID		NWTPH-Dx	
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type								
HR-1	281B	KCP4-SO281-B-110506	5/6/2011	Base			30	U			59	U
HR-1	282B	KCP4-SO282-B-110506	5/6/2011	Base			45	U			**400**	
HR-1	283B	KCP4-SO283-B-110506	5/6/2011	Base			28	U			55	U
HR-1	284S	KCP4-SO284-S-110506	5/6/2011	Sidewall			27	U			54	U
HR-1	285S	KCP4-SO285-S-110506	5/6/2011	Sidewall			28	U			**76**	
HR-1	286S	KCP4-SO286-S-110506	5/6/2011	Sidewall			28	U			**62**	
HR-1	287S	KCP4-SO287-S-110506	5/6/2011	Sidewall			27	U			54	U
HR-2/3	271B	KCP4-SO271-B-110506	5/6/2011	Base			27	U			54	U
HR-2/3	272B	KCP4-SO272-B-110506	5/6/2011	Base			27	U			54	U
HR-2/3	273B	KCP4-SO273-B-110506	5/6/2011	Base			28	U			56	U
HR-2/3	274B	KCP4-SO274-B-110506	5/6/2011	Base			27	U			54	U
HR-2/3	275B	KCP4-SO275-B-110506	5/6/2011	Base			28	U			55	U
HR-2/3	276B	KCP4-SO276-B-110506	5/6/2011	Base			27	U			54	U
HR-2/3	277S	KCP4-SO277-S-110506	5/6/2011	Excavated			28	U			55	U
HR-2/3	278S	KCP4-SO278-S-110506	5/6/2011	Sidewall			27	U			55	U
HR-2/3	278S	KCP4-SO279-S-110506	5/6/2011	Excavated			27	U			54	U
HR-2/3	280S	KCP4-SO280-S-110506	5/6/2011	Excavated			28	U			**63**	
MJB2	254B	KCP4-SO254-B-110429	4/29/2011	Base			39	U			79	U
MJB2	255S	KCP4-SO255-S-110429	4/29/2011	Excavated			110	U			**560**	**J**
MJB2	267S	KCP4-SO267-S-110506	5/6/2011	Excavated			73	U			**260**	
MJB2	268S	KCP4-SO268-S-110506	5/6/2011	Sidewall			110	U			**460**	
MJB2	269S	KCP4-SO269-S-110506	5/6/2011	Sidewall			27	U			55	U
MJB2	270B	KCP4-SO270-B-110506	5/6/2011	Base			42	U			**150**	
MJB2	308B	KCP4-SO308-B-110525	5/25/2011	Base			40	U			80	U
MJB2	309S	KCP4-SO309-S-110525	5/25/2011	Sidewall			28	U			55	U
MJB2	310S	KCP4-SO310-S-110525	5/25/2011	Sidewall			28	U			55	U
MJB6	238S	KCP4-SO238-S-110211	2/11/2011	Sidewall	53	U			110	U		
MJB6	239B	KCP4-SO239-B-110211	2/11/2011	Excavated	**86**	**J**			**860**	**J**		
MJB6	243B	KCP4-SO243-B-070311	3/7/2011	Excavated	120	U	220	U	**770**	**J**	**1500**	
MJB6	243D	KCP4-SO243-D-070311	3/7/2011	Excavated	150	U	210	U	**870**	**J**	**1400**	
MJB6	245B	KCP4-SO245-B-150311	3/15/2011	Base(>6 feet)			400	U			**1800**	
MJB6	245D	KCP4-SO245-D-150311	3/15/2011	Base(>6 feet)			420	U			**1600**	
MJB6	246S	KCP4-SO246-S-150311	3/15/2011	Sidewall			29	U			58	U
MJB6	247B	KCP4-SO247-B-240311	3/24/2011	Base	54	U			110	U		
RA-11	218S	KCP4-SO218-S-110208	2/8/2011	Sidewall	97	U						
RA-11	221B	KCP4-SO221-B-110208	2/8/2011	Base	93	U			**370**	**J**		
RA-11	222B	KCP4-SO222-110208	2/8/2011	Base(>6 feet)	**190**	**J**			**640**	**J**		
RA-11	232B	KCP4-SO232-B-110211	2/11/2011	Base(>6 feet)	**160**	**J**			**620**	**J**		
RA-11	244B	KCP4-SO244-B-070311	3/7/2011	Base	**410**	**J**	**350**		**1600**	**J**	**1500**	

Notes:
mg/kg = milligrams per kilogram
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit
Base = base of excavation; Base(>6') = base of excavation deeper than 6 feet; Sidewall = excavation sidewall
TPH = total petroleum hydrocarbon

Table F-4
TCLP Results for Excavation Characterization and Pre- and Post-Treatment Material

				Analyte (mg/l)	TCLP Copper	TCLP Lead	TCLP Mercury
Excavation Area	Abbreviated Sample ID	Full Sample ID	Sample Date	Sample Type			
MJB2	20B	KCP4-SO020-B-100105	1/5/2010	Pre-Excavation		**350**	**0.22**
MJB2	115B	KCP4-SO115-B-100111	1/11/2010	Pre-Excavation		**20**	0.005 U
MJB2	116B	KCP4-SO116-B-100111	1/11/2010	Pre-Excavation		**1.7**	0.005 U
MJB2	123B	KCP4-SO123-B-100128	1/28/2010	Pre-Excavation		**1.2**	0.005 U
MJB2	CO124	KCP4-CO124-100128	1/28/2010	Concrete		0.2 U	0.005 U
MJB2	125S	KCP4-SO125-S-100202	2/2/2010	Pre-Excavation		**56**	0.005 U
MJB2	126B	KCP4-SO126-B-100202	2/2/2010	Pre-Excavation		**17**	0.005 U
MJB2	BK01	KCP4-BK01-100707	7/7/2010	Bunker Stockpile		**0.54**	
MJB2	BK02	KCP4-BK02-100707	7/7/2010	Bunker Stockpile		**2.5**	
MJB2	BK03	KCP4-BK03-100707	7/7/2010	Bunker Stockpile		**2.6**	
MJB2	BK04	KCP4-BK04-100707	7/7/2010	Bunker Stockpile		**0.27**	
MJB2	BK05	KCP4-BK05-100707	7/7/2010	Bunker Stockpile		**2.4**	
RA-11	223BK	KCP4-SO223-BK-110208	2/8/2011	Pre-Treatment	0.02 U	**7.5**	
RA-11	224BK	KCP4-SO224-BK-110208	2/8/2011	Pre-Treatment	0.02 U	0.2 U	
RA-11	240BK	KCP4-SO240-BK-110211	2/11/2011	Pre-Treatment	0.02 U	**7.8**	
RA-11	241D	KCP4-SO241-D-110211	2/11/2011	Pre-Treatment	**0.038**	**9.2**	
RA-11	251BK	KCP4-SO251-BK-110414	4/14/2011	Post-Treatment		0.2 U	
RA-11	252BK	KCP4-SO252-BK-110415	4/15/2011	Post-Treatment		0.2 U	
RA-11	253BK	KCP4-SO253-BK-110415	4/15/2011	Post-Treatment		0.2 U	
MJB2	267S	KCP4-SO267-S-110506	5/6/2011	Pre-Excavation		**13**	
RA-11	315BK	KCP4-SO315-BK-110525	5/25/2011	Bunker Stockpile		**0.22**	
RA-11	316BK	KCP4-SO316-BK-110525	5/25/2011	Bunker Stockpile		0.2 U	
RA-11	317BK	KCP4-SO317-BK-110525	5/25/2011	Bunker Stockpile		**0.34**	

Notes:
mg/l = milligrams per liter
Bold = Detected result
U = Compound analyzed, but not detected above detection limit
TCLP = Toxicity Characteristic Leaching Procedure

Table F-5
Results from Stockpiled MJB2 Excavation Materials

			Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Excavation Area	Full Sample ID	Sample Date	Sample Type									
MJB2	KCP4-SP01-100706	7/6/2010	Composite	9.2	50	64	91 J	59	0.32	58	2.6 U	510
MJB2	KCP4-SP02-100706	7/6/2010	Composite	5.3	26	64	85 J	42	0.26 U	67	2.6 U	390
MJB2	KCP4-SP03-100706	7/6/2010	Composite	9.2	44	57	75 J	32	0.26 U	65	2.6 U	410
MJB2	KCP4-SP04-100706	7/6/2010	Composite	5.2 U	23	54	86 J	22	0.26 U	70	2.6 U	310
MJB2	KCP4-SP05-100706	7/6/2010	Composite	9.3	13	61	100 J	110	0.34	64	2.6 U	220
MJB2	KCP4-BK01-100707	7/7/2010	Composite	5.4 U	11 U	23	48 J	120	0.27 U	38	2.7 U	42
MJB2	KCP4-BK02-100707	7/7/2010	Composite	14	12 U	21	50 J	280	1.1	38	3 U	64
MJB2	KCP4-BK03-100707	7/7/2010	Composite	11	11 U	28	49 J	210	7.6	39	2.8 U	68
MJB2	KCP4-BK04-100707	7/7/2010	Composite	5.4 U	11 U	22	36 J	220	0.27 U	25	2.7 U	87
MJB2	KCP4-BK05-100707	7/7/2010	Composite	48	12 U	24	210 J	1000	0.33	39	3.1 U	120
MJB2	KCP4-BK01-A-100728	7/28/2010	Discrete	45	13 U	32	130	1600	3.6	29	3.3 U	57
MJB2	KCP4-BK01-B-100728	7/28/2010	Discrete	13	11 U	27	83	270	0.4	37	2.9 U	96
MJB2	KCP4-BK01-C-100728	7/28/2010	Discrete	5.7	11 U	22	76	110	0.49	37	2.8 U	65
MJB2	KCP4-BK01-D-100728	7/28/2010	Discrete	7.8	11 U	19	45	290	0.27 U	27	2.7 U	53
MJB2	KCP4-BK01-E-100728	7/28/2010	Discrete	22	12 U	33	44	270	0.3 U	38	3 U	60
MJB2	KCP4B-BK01-E-100728	7/28/2010	Discrete	170	11 U	28	45	1100	0.28 U	34	2.8 U	54
MJB2	KCP4-BK03-A-100728	7/28/2010	Discrete	15	13 U	35	85	300	1.1	29	3.2 U	90
MJB2	KCP4-BK03-B-100728	7/28/2010	Discrete	31	12 U	27	83	530	0.59	33	2.9 U	86
MJB2	KCP4-BK03-C-100728	7/28/2010	Discrete	10	12 U	32	87	450	0.29 U	32	2.9 U	74
MJB2	KCP4-BK03-D-100728	7/28/2010	Discrete	33	13 U	26	96	980	6.1	29	3.2 U	57
MJB2	KCP4-BK03-E-100728	7/28/2010	Discrete	21	13 U	30	71	560	0.69	29	3.3 U	72
MJB2	KCP4-BK04-A-100728	7/28/2010	Discrete	20	12 U	30	95	400	0.57	31	3.1 U	91
MJB2	KCP4-BK04-B-100728	7/28/2010	Discrete	9.7	12 U	25	67	190	0.53	30	2.9 U	77
MJB2	KCP4-BK04-C-100728	7/28/2010	Discrete	24	11 U	27	64	210	0.27 U	32	2.7 U	100
MJB2	KCP4-BK04-D-100728	7/28/2010	Discrete	25	12 U	31	150	330	0.29 U	68	2.9 U	140
MJB2	KCP4-BK04-E-100728	7/28/2010	Discrete	27	12 U	28	120	320	0.3 U	31	3 U	130
MJB2	KCP4-BK06-A-100728	7/28/2010	Discrete	5.3 U	11 U	34	49	110	0.27 U	44	2.7 U	56
MJB2	KCP4-BK06B-A-100728	7/28/2010	Discrete	5.3 U	11 U	110	48	140	0.27 U	44	2.7 U	57
MJB2	KCP4-BK06-B-100728	7/28/2010	Discrete	6.2 U	12 U	29	60	190	0.31 U	31	3.1 U	96
MJB2	KCP4-BK06-C-100728	7/28/2010	Discrete	7.5 U	15 U	39	75	200	0.38 U	35	3.8 U	160
MJB2	KCP4-BK06-D-100728	7/28/2010	Discrete	12	12 U	35	99	520	1.4	32	3.1 U	560
MJB2	KCP4-BK06-E-100728	7/28/2010	Discrete	6.4 U	13 U	57	83	120	0.32 U	35	3.2 U	220
MJB2	KCP4-BK169-100816	8/16/2010	Discrete	5.3 U	11 U	34	48	14	0.26 U	64	2.6 U	73
MJB2	KCP4-BK169B-100816	8/16/2010	Discrete	5.3 U	11 U	31	51	11	0.27 U	57	2.7 U	79
MJB2	KCP4-BK168-100816	8/16/2010	Discrete	5.2 U	13	40	75	14	0.26 U	50	2.6 U	180
MJB2	KCP4-BK170-100816	8/16/2010	Discrete	5.2 U	10 U	29	31	6.7	0.26 U	62	2.6 U	72

Table F-5
Results from Stockpiled MJB2 Excavation Materials

			Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc
Excavation Area	**Full Sample ID**	**Sample Date**	**Sample Type**									
MJB2	KCP4-BK173-100816	8/16/2010	Discrete	5.6 U	11 U	32	84	320	0.28 U	33	2.8 U	95
MJB2	KCP4-BK174-100816	8/16/2010	Discrete	6	28	36	99	190	0.27 U	50	2.7 U	290

Notes:

Bold = Detected result
mg/kg = milligrams per kilogram
U = Compound analyzed, but not detected above detection limit
J = Estimated value

Table F-6
Characterization of Soil beneath Stockpile Bunkers - Post-Use

			Metals (mg/kg)	Antimony	Arsenic	Chromium	Copper	Lead	Mercury	Nickel	Thallium	Zinc	Diesel Range NWTPH-HCID	Residual Range NWTPH-HCID
Area	**Full Sample ID**	**Sample Date**	**Sample Type**											
BKNR-W	KCP4-SO288-BC1-110510	5/10/2011	Composite	**5.1** U	**13**	**60**	**93**	**28**	0.26 U	**45**	2.6 U	**190**	51 U	100 U
BKNR-W	KCP4-SO294-BC2-110510	5/10/2011	Composite	**7.5**	**31**	**69**	**140**	**31**	0.26 U	**130**	2.6 U	**420**	51 U	100 U
BKNR-W	KCP4-SO295-BC2A-110510	5/10/2011	Discrete	5.1 U	**15**	**43**	**89**	**15**	0.26 U	**46**	2.6 U	**170**		
BKNR-W	KCP4-SO296-BC2B-110510	5/10/2011	Discrete	5.1 U	**17**	**55**	**110**	**18**	0.25 U	**60**	2.5 U	**290**		
BKNR-W	KCP4-SO297-BC2C-110510	5/10/2011	Discrete	**7.5**	**32**	**70**	**160**	**32**	0.26 U	**61**	2.6 U	**480**		
BKNR-W	KCP4-SO298-BC2D-110510	5/10/2011	Discrete	**11**	**31**	**72**	**110**	**31**	0.26 U	**44**	2.6 U	**270**		
BKNR-W	KCP4-SO299-BC2E-110510	5/10/2011	Discrete	**7.4**	**26**	**57**	**110**	**23**	0.26 U	**64**	2.6 U	**310**		
BKNR-E	KCP4-SO300-BC3-110510	5/10/2011	Composite	**9.9**	**45**	**92**	**270**	**260**	0.26 U	**100**	2.6 U	**580**	73 U	**790 J**
BKNR-E	KCP4-SO304-BC4-110510	5/10/2011	Composite	5.3 U	**28**	**49**	**500**	**51**	0.26 U	**48**	2.6 U	**660**	53 U	110 U
BKNR-E	KCP4-SO305-BC4A-110510	5/10/2011	Discrete	**9.3**	**26**	**57**	**1400**	**110**	0.27 U	**51**	2.7 U	**1200**		
BKNR-E	KCP4-SO306-BC4B-110510	5/10/2011	Discrete	**8.8**	**36**	**61**	**230**	**48**	0.26 U	**63**	2.6 U	**600**		
BKNR-E	KCP4-SO307-BC4C-110510	5/10/2011	Discrete	**8.1**	**31**	**58**	**140**	**49**	0.26 U	**60**	2.6 U	**440**		

Notes:
mg/kg = milligrams per kilogram
U = Compound analyzed, but not detected above detection limit
J = Estimated value
BNKR-W = West Bunker
BNKR-E = East Bunker
Bold = Detected result

Table F-7
Field Sheen Testing Results

Abbreviated Sample ID	Excavation Area	Sample Date	Sample Type	Sheen Observations
380S	HR-2/3	6/14/2011	Sidewall	No sheen observed
381S	HR-2/3	6/14/2011	Sidewall	No sheen observed
382S	HR-2/3	6/14/2011	Excavated	No sheen observed
383S	HR-2/3	6/14/2011	Excavated	No sheen observed
384S	HR-2/3	6/14/2011	Sidewall	No sheen observed
385B	HR-2/3	6/14/2011	Base	No sheen observed
386D	HR-2/3	6/14/2011	Duplicate	No sheen observed
387B	HR-2/3	6/14/2011	Base	No sheen observed
388B	HR-2/3	6/14/2011	Base	No sheen observed
389B	HR-2/3	6/14/2011	Base	No sheen observed
390S	HR-2/3	6/14/2011	Sidewall	No sheen observed
391S	HR-2/3	6/14/2011	Excavated	No sheen observed
392S	HR-2/3	6/14/2011	Sidewall	No sheen observed
393D	HR-2/3	6/14/2011	Duplicate	No sheen observed
394B	HR-2/3	6/14/2011	Base	No sheen observed
395S	HR-2/3	6/14/2011	Excavated	No sheen observed
396S	HR-2/3	6/14/2011	Excavated	No sheen observed
397S	HR-2/3	6/14/2011	Excavated	No sheen observed
398B	HR-2/3	6/14/2011	Excavated	No sheen observed
399S	BNKR-E	6/14/2011	Sidewall	No sheen observed
400S	BNKR-E	6/14/2011	Sidewall	No sheen observed
401B	BNKR-E	6/14/2011	Base	No sheen observed
402D	BNKR-E	6/14/2011	Duplicate	No sheen observed
403S	BNKR-W	6/14/2011	Sidewall	No sheen observed
404B	BNKR-W	6/14/2011	Base	No sheen observed
407S	HR-2/3	6/27/2011	Excavated	No sheen observed
408S	HR-2/3	6/27/2011	Excavated	No sheen observed
409S	HR-2/3	6/27/2011	Excavated	No sheen observed
410S	HR-2/3	6/27/2011	Excavated	No sheen observed
411B	HR-2/3	6/27/2011	Base	No sheen observed
412B	HR-2/3	6/27/2011	Base	No sheen observed
413D	HR-2/3	6/27/2011	Duplicate	No sheen observed
414B	HR-2/3	6/27/2011	Base	No sheen observed
415B	HR-2/3	6/27/2011	Base	No sheen observed
416B	HR-2/3	6/27/2011	Base	No sheen observed
417S	HR-2/3	6/27/2011	Sidewall	No sheen observed
418S	HR-2/3	6/27/2011	Sidewall	No sheen observed
419D	HR-2/3	6/27/2011	Duplicate	No sheen observed
420S	HR-2/3	6/27/2011	Excavated	No sheen observed
421S	HR-2/3	6/27/2011	Excavated	No sheen observed
422S	HR-2/3	6/27/2011	Excavated	No sheen observed
423S	HR-2/3	6/27/2011	Sidewall	No sheen observed

Table F-7
Field Sheen Testing Results

Abbreviated Sample ID	Excavation Area	Sample Date	Sample Type	Sheen Observations
424B	HR-2/3	6/27/2011	Base	No sheen observed
425D	HR-2/3	6/27/2011	Duplicate	No sheen observed
426B	HR-2/3	6/27/2011	Base	No sheen observed
427B	HR-2/3	6/27/2011	Base	No sheen observed
428B	HR-2/3	6/27/2011	Base	No sheen observed
429B	HR-2/3	6/27/2011	Base	No sheen observed
430B	HR-2/3	6/27/2011	Base	No sheen observed
431B	HR-2/3	6/27/2011	Base	No sheen observed
432B	HR-2/3	6/27/2011	Base	No sheen observed
433B	HR-2/3	6/27/2011	Base	No sheen observed
434B	HR-2/3	6/27/2011	Base	No sheen observed
435B	HR-2/3	6/27/2011	Base	No sheen observed
436B	HR-2/3	6/27/2011	Base	No sheen observed
437B	HR-2/3	6/27/2011	Base	No sheen observed
438S	HR-2/3	7/12/2011	Sidewall	No sheen observed
439S	HR-2/3	7/12/2011	Excavated	No sheen observed
440S	HR-2/3	7/12/2011	Excavated	No sheen observed
441S	HR-2/3	7/12/2011	Excavated	No sheen observed
442S	HR-2/3	7/12/2011	Sidewall	No sheen observed
443B	HR-2/3	7/12/2011	Base	No sheen observed
444D	HR-2/3	7/12/2011	Duplicate	No sheen observed
445B	HR-2/3	7/12/2011	Base	No sheen observed
446B	HR-2/3	7/12/2011	Base	No sheen observed
447B	HR-2/3	7/12/2011	Base	No sheen observed
448B	HR-2/3	7/12/2011	Base	No sheen observed
449B	HR-2/3	7/12/2011	Base	No sheen observed
450B	HR-2/3	7/12/2011	Base	No sheen observed
451B	HR-2/3	7/12/2011	Base	No sheen observed
452B	HR-2/3	7/12/2011	Base	No sheen observed
453B	HR-2/3	7/12/2011	Base	No sheen observed
454S	HR-2/3	7/12/2011	Sidewall	No sheen observed
455S	HR-2/3	7/12/2011	Sidewall	No sheen observed
456B	HR-2/3	7/12/2011	Excavated	No sheen observed
457D	HR-2/3	7/12/2011	Duplicate	No sheen observed
458B	HR-2/3	7/12/2011	Base	No sheen observed
459B	HR-2/3	7/12/2011	Base	No sheen observed
460S	HR-2/3	7/12/2011	Sidewall	No sheen observed
461S	HR-2/3	7/12/2011	Sidewall	No sheen observed
462S	HR-2/3	7/12/2011	Sidewall	No sheen observed
463B	HR-2/3	7/12/2011	Base	No sheen observed
464D	HR-2/3	7/12/2011	Duplicate	No sheen observed
465B	HR-2/3	7/12/2011	Base	No sheen observed

Table F-7
Field Sheen Testing Results

Abbreviated Sample ID	Excavation Area	Sample Date	Sample Type	Sheen Observations
466B	HR-2/3	7/12/2011	Base	No sheen observed
467B	HR-2/3	7/12/2011	Base	No sheen observed
468B	HR-2/3	7/28/2011	Base	No sheen observed
469D	HR-2/3	7/28/2011	Duplicate	No sheen observed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 9, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 0912-146

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on December 22, 2009.

Please note that this is a *revised* report with the corrections to the sample identifications.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

Case Narrative

Samples were collected on December 22, 2009, and received by the laboratory on December 22, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO01-S-091222**					
Laboratory ID:	12-146-01					
Naphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthylene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluorene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Phenanthrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Chrysene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[b]fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[k]fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[g,h,i]perylene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*71*	*39 - 103*				
Pyrene-d10	*90*	*39 - 115*				
Terphenyl-d14	*81*	*50 - 118*				

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO02-S-091222**					
Laboratory ID:	12-146-02					
Naphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthylene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluorene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Phenanthrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Chrysene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[b]fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[k]fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[g,h,i]perylene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*39 - 103*				
Pyrene-d10	*91*	*39 - 115*				
Terphenyl-d14	*81*	*50 - 118*				

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO04-S-091222**					
Laboratory ID:	12-146-03					
Naphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthylene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluorene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Phenanthrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Chrysene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[b]fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[k]fluoranthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[g,h,i]perylene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*73*	*39 - 103*				
Pyrene-d10	*89*	*39 - 115*				
Terphenyl-d14	*80*	*50 - 118*				

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO04-SD-091222**					
Laboratory ID:	12-146-04					
Naphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthylene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluorene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Phenanthrene	**0.012**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Fluoranthene	**0.034**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Pyrene	**0.031**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]anthracene	**0.017**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Chrysene	**0.019**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[b]fluoranthene	**0.017**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[k]fluoranthene	**0.015**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]pyrene	**0.020**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Indeno(1,2,3-c,d)pyrene	**0.011**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[g,h,i]perylene	**0.013**	0.0072	EPA 8270/SIM	12-22-09	12-22-09	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*79*	*39 - 103*				
Pyrene-d10	*92*	*39 - 115*				
Terphenyl-d14	*83*	*50 - 118*				

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO01-B-091222**					
Laboratory ID:	12-146-05					
Naphthalene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
2-Methylnaphthalene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
1-Methylnaphthalene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthylene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Fluorene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Phenanthrene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Anthracene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Fluoranthene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Pyrene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]anthracene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Chrysene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[b]fluoranthene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[k]fluoranthene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]pyrene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Dibenz[a,h]anthracene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[g,h,i]perylene	**ND**	0.0075	EPA 8270/SIM	12-22-09	12-22-09	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*79*	*39 - 103*				
Pyrene-d10	*90*	*39 - 115*				
Terphenyl-d14	*84*	*50 - 118*				

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1222S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Fluorene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Anthracene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Pyrene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Chrysene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[k]fluoranthene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	12-22-09	12-22-09	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*76*	*39 - 103*				
Pyrene-d10	*92*	*39 - 115*				
Terphenyl-d14	*85*	*50 - 118*				

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

PAHs by EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1222S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0620**	**0.0686**	0.0833	0.0833	74	82	31 - 102	10	30	
Acenaphthylene	**0.0716**	**0.0777**	0.0833	0.0833	86	93	48 - 104	8	26	
Acenaphthene	**0.0647**	**0.0708**	0.0833	0.0833	78	85	46 - 105	9	26	
Fluorene	**0.0671**	**0.0728**	0.0833	0.0833	81	87	52 - 107	8	25	
Phenanthrene	**0.0662**	**0.0710**	0.0833	0.0833	79	85	58 - 104	7	21	
Anthracene	**0.0705**	**0.0742**	0.0833	0.0833	85	89	56 - 103	5	21	
Fluoranthene	**0.0796**	**0.0820**	0.0833	0.0833	96	98	65 - 111	3	20	
Pyrene	**0.0759**	**0.0803**	0.0833	0.0833	91	96	65 - 115	6	20	
Benzo[a]anthracene	**0.0760**	**0.0783**	0.0833	0.0833	91	94	55 - 111	3	19	
Chrysene	**0.0745**	**0.0777**	0.0833	0.0833	89	93	58 - 121	4	19	
Benzo[b]fluoranthene	**0.0673**	**0.0738**	0.0833	0.0833	81	89	57 - 120	9	20	
Benzo[k]fluoranthene	**0.0676**	**0.0728**	0.0833	0.0833	81	87	52 - 123	7	21	
Benzo[a]pyrene	**0.0559**	**0.0562**	0.0833	0.0833	67	67	49 - 106	1	22	
Indeno(1,2,3-c,d)pyrene	**0.0770**	**0.0786**	0.0833	0.0833	92	94	56 - 125	2	22	
Dibenz[a,h]anthracene	**0.0766**	**0.0793**	0.0833	0.0833	92	95	55 - 129	3	24	
Benzo[g,h,i]perylene	**0.0736**	**0.0718**	0.0833	0.0833	88	86	55 - 122	2	23	
Surrogate:										
2-Fluorobiphenyl					*74*	*82*	*39 - 103*			
Pyrene-d10					*94*	*96*	*39 - 115*			
Terphenyl-d14					*76*	*85*	*50 - 118*			

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-146-01					
Client ID:	**KCP4-SO01-S-091222**					
Antimony	**ND**	5.4	6010B	12-23-09	12-23-09	
Arsenic	**ND**	11	6010B	12-22-09	12-23-09	
Chromium	**26**	0.54	6010B	12-22-09	12-23-09	
Copper	**60**	2.2	6010B	12-23-09	12-23-09	
Lead	**5.6**	5.4	6010B	12-22-09	12-23-09	
Mercury	**ND**	0.27	7471A	12-23-09	12-23-09	
Nickel	**26**	2.7	6010B	12-22-09	12-23-09	
Thallium	**ND**	5.4	6020	12-22-09	12-23-09	
Zinc	**72**	2.7	6010B	12-22-09	12-23-09	
Lab ID:	12-146-02					
Client ID:	**KCP4-SO02-S-091222**					
Antimony	**ND**	5.4	6010B	12-23-09	12-23-09	
Arsenic	**ND**	11	6010B	12-22-09	12-23-09	
Chromium	**33**	0.54	6010B	12-22-09	12-23-09	
Copper	**78**	2.2	6010B	12-23-09	12-23-09	
Lead	**8.3**	5.4	6010B	12-22-09	12-23-09	
Mercury	**ND**	0.27	7471A	12-23-09	12-23-09	
Nickel	**32**	2.7	6010B	12-22-09	12-23-09	
Thallium	**ND**	5.4	6020	12-22-09	12-23-09	
Zinc	**130**	2.7	6010B	12-22-09	12-23-09	

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-146-03					
Client ID:	**KCP4-SO04-S-091222**					
Antimony	**ND**	5.4	6010B	12-23-09	12-23-09	
Arsenic	**ND**	11	6010B	12-22-09	12-23-09	
Chromium	**32**	0.54	6010B	12-22-09	12-23-09	
Copper	**76**	2.2	6010B	12-23-09	12-23-09	
Lead	**9.1**	5.4	6010B	12-22-09	12-23-09	
Mercury	**ND**	0.27	7471A	12-23-09	12-23-09	
Nickel	**33**	2.7	6010B	12-22-09	12-23-09	
Thallium	**ND**	5.4	6020	12-22-09	12-23-09	
Zinc	**150**	2.7	6010B	12-22-09	12-23-09	
Lab ID:	12-146-04					
Client ID:	**KCP4-SO04-SD-091222**					
Antimony	**ND**	5.4	6010B	12-23-09	12-23-09	
Arsenic	**ND**	11	6010B	12-22-09	12-23-09	
Chromium	**20**	0.54	6010B	12-22-09	12-23-09	
Copper	**26**	2.2	6010B	12-23-09	12-23-09	
Lead	**6.6**	5.4	6010B	12-22-09	12-23-09	
Mercury	**ND**	0.27	7471A	12-23-09	12-23-09	
Nickel	**36**	2.7	6010B	12-22-09	12-23-09	
Thallium	**ND**	5.4	6020	12-22-09	12-23-09	
Zinc	**30**	2.7	6010B	12-22-09	12-23-09	

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-146-05					
Client ID:	**KCP4-SO01-B-091222**					
Antimony	**ND**	5.6	6010B	12-23-09	12-23-09	
Arsenic	**ND**	11	6010B	12-22-09	12-23-09	
Chromium	**35**	0.56	6010B	12-22-09	12-23-09	
Copper	**71**	2.3	6010B	12-23-09	12-23-09	
Lead	**8.4**	5.6	6010B	12-22-09	12-23-09	
Mercury	**ND**	0.28	7471A	12-23-09	12-23-09	
Nickel	**34**	2.8	6010B	12-22-09	12-23-09	
Thallium	**ND**	5.6	6020	12-22-09	12-23-09	
Zinc	**130**	2.8	6010B	12-22-09	12-23-09	

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 12-22&23-09
Date Analyzed: 12-23-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1222S2,MB1223S1&MB1223S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	2.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	5.0
Zinc	6010B	**ND**	2.5

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 12-22&23-09
Date Analyzed: 12-23-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-146-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**18.4**	**18.2**	1	0.50	
Copper	**23.8**	**25.2**	5	2.0	
Lead	**6.08**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**33.3**	**37.1**	11	2.5	
Thallium	**ND**	**ND**	NA	5.0	
Zinc	**28.1**	**29.0**	3	2.5	

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 12-22&23-09
Date Analyzed: 12-23-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-146-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.9**	92	**92.0**	92	0	
Arsenic	100	**92.2**	92	**90.1**	90	2	
Chromium	100	**108**	90	**110**	92	2	
Copper	50	**76.1**	105	**76.8**	106	1	
Lead	250	**217**	84	**213**	83	2	
Mercury	0.50	**0.522**	104	**0.519**	104	1	
Nickel	100	**124**	91	**128**	94	3	
Thallium	50	**49.0**	98	**48.2**	96	2	
Zinc	100	**118**	90	**124**	95	4	

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1122309P	1.00	1.00	0	+/- 10%
Arsenic	ICV1122309P	1.00	1.00	0	+/- 10%
Chromium	ICV1122309P	1.00	1.04	-4.1	+/- 10%
Copper	ICV1122309P	1.00	1.05	-4.9	+/- 10%
Lead	ICV1122309P	1.00	1.06	-5.7	+/- 10%
Mercury	ICV1122309Y	0.00500	0.00512	-2.4	+/- 10%
Nickel	ICV1122309P	1.00	1.04	-4.3	+/- 10%
Thallium	ICV1122309E	0.0500	0.0492	1.7	+/- 10%
Zinc	ICV1122309P	1.00	1.01	-1.4	+/- 10%
Antimony	CCV1122309P	1.00	1.01	-0.91	+/- 10%
Arsenic	CCV1122309P	1.00	0.990	1.0	+/- 10%
Chromium	CCV1122309P	1.00	1.01	-1.0	+/- 10%
Copper	CCV1122309P	1.00	1.02	-2.2	+/- 10%
Lead	CCV1122309P	10.0	9.95	0.48	+/- 10%
Mercury	CCV1122309Y	0.00500	0.00526	-5.2	+/- 20%
Nickel	CCV1122309P	1.00	1.01	-0.83	+/- 10%
Thallium	CCV1122309E	0.0400	0.0402	-0.45	+/- 10%
Zinc	CCV1122309P	1.00	0.998	0.21	+/- 10%
Antimony	CCV2122309P	1.00	0.993	0.69	+/- 10%
Arsenic	CCV2122309P	1.00	0.985	1.5	+/- 10%
Chromium	CCV2122309P	1.00	1.01	-1.3	+/- 10%
Copper	CCV2122309P	1.00	1.04	-4.4	+/- 10%
Lead	CCV2122309P	10.0	9.97	0.31	+/- 10%
Mercury	CCV2122309Y	0.00500	0.00519	-3.8	+/- 20%
Nickel	CCV2122309P	1.00	0.995	0.45	+/- 10%
Thallium	CCV2122309E	0.0400	0.0412	-3.0	+/- 10%
Zinc	CCV2122309P	1.00	1.01	-0.64	+/- 10%

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3122309P	1.00	1.03	-2.7	+/- 10%
Arsenic	CCV3122309P	1.00	0.978	2.2	+/- 10%
Chromium	CCV3122309P	1.00	1.01	-1.1	+/- 10%
Copper	CCV3122309P	1.00	1.04	-4.1	+/- 10%
Lead	CCV3122309P	10.0	9.95	0.47	+/- 10%
Mercury	CCV3122309Y	0.00500	0.00527	-5.4	+/- 20%
Nickel	CCV3122309P	1.00	1.01	-0.78	+/- 10%
Thallium	CCV3122309E	0.0400	0.0400	0	+/- 10%
Zinc	CCV3122309P	1.00	1.00	0	+/- 10%
Antimony	CCV4122309P	1.00	1.01	-1.0	+/- 10%
Copper	CCV4122309P	1.00	1.08	-7.5	+/- 10%
Antimony	CCV5122309P	1.00	1.06	-5.9	+/- 10%
Copper	CCV5122309P	1.00	1.09	-8.9	+/- 10%

Date of Report: December 23, 2009
Samples Submitted: December 22, 2009
Laboratory Reference: 0912-146
Project: 000105-01.09

% MOISTURE

Date Analyzed: 12-22-09

Client ID	Lab ID	% Moisture
KCP4-SO01-S-091222	12-146-01	8
KCP4-SO02-S-091222	12-146-02	7
KCP4-SO04-S-091222	12-146-03	8
KCP4-SO04-SD-091222	12-146-04	7
KCP4-SO01-B-091222	12-146-05	11

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Page 1 of 1

Laboratory Number: 12-146

Company: Anchor QEA LLC
Project Number: 000105-01,09
Project Name: Scott Paper Mill
Project Manager: Rebecca Desrosiers
Sampled by: Joseph R. Pursley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☐ _____ (other)

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)*	TCLP Metals	HEM by 1664	% Moisture
1	KCP4-S01-S-091222-PB	12/22/09	12:19 pm	soil	1							X				X			X
2	KCP4-S02-S-091222	12/22/09		soil	1							X				X			
3	KCP4-S04-S-091222	12/22/09		soil	1							X				X			
4	KCP4-S04-SD-091222	12/22/09		soil	1							X				X			
5	KCP4-S01-B-091222	12/22/09		soil	1							X				X			
6	KCP4-RB-NA-091227	12/22/09	12:18 pm	water	1														
7	KCP4-RB-091222	12/22/09	12:19 pm	water	1														

	Signature	Company	Date	Time
Relinquished by		Anchor QEA LLC	12/22/09	2:27 pm
Received by		OSE	12/22/09	1427
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
Contact
206-450-8973

*Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Reviewed by/Date
Reviewed by/Date
Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 12-146

Initiated by: JM

Date Initiated: 12/22/09

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 4	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 12, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1001-028

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on January 6, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

Case Narrative

Samples were collected on January 5, 2010, and received by the laboratory on January 6, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The duplicate RPD for Chromium is outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

TCLP Metals EPA 1311/6010B/7470A Analysis

Due to the high concentration of Lead in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 89%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-01					
Client ID:	**KCP4-SO06-S-100105**					
Antimony	**ND**	5.4	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**22**	0.54	6010B	1-7-10	1-7-10	
Copper	**44**	1.1	6010B	1-7-10	1-7-10	
Lead	**29**	5.4	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.27	7471A	1-8-10	1-8-10	
Nickel	**22**	2.7	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.7	6020	1-7-10	1-7-10	
Zinc	**72**	2.7	6010B	1-7-10	1-7-10	
Lab ID:	01-028-02					
Client ID:	**KCP4-SO07-S-100105**					
Antimony	**ND**	5.6	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**37**	0.56	6010B	1-7-10	1-7-10	
Copper	**78**	1.1	6010B	1-7-10	1-7-10	
Lead	**17**	5.6	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.28	7471A	1-8-10	1-8-10	
Nickel	**34**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**240**	2.8	6010B	1-7-10	1-7-10	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-03					
Client ID:	**KCP4-SO08-B-100105**					
Antimony	**ND**	5.7	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**36**	0.57	6010B	1-7-10	1-7-10	
Copper	**15**	1.1	6010B	1-7-10	1-7-10	
Lead	**ND**	5.7	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.28	7471A	1-8-10	1-8-10	
Nickel	**74**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**26**	2.8	6010B	1-7-10	1-7-10	
Lab ID:	01-028-04					
Client ID:	**KCP4-SO09-B-100105**					
Antimony	**ND**	5.8	6010B	1-7-10	1-7-10	
Arsenic	**ND**	12	6010B	1-7-10	1-7-10	
Chromium	**16**	0.58	6010B	1-7-10	1-7-10	
Copper	**10**	1.2	6010B	1-7-10	1-7-10	
Lead	**ND**	5.8	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.29	7471A	1-8-10	1-8-10	
Nickel	**35**	2.9	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.9	6020	1-7-10	1-7-10	
Zinc	**16**	2.9	6010B	1-7-10	1-7-10	

Date of Report: January 12, 2010
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-05					
Client ID:	**KCP4-SO10-S-100105**					
Antimony	**ND**	5.4	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**20**	0.54	6010B	1-7-10	1-7-10	
Copper	**43**	1.1	6010B	1-7-10	1-7-10	
Lead	**6.5**	5.4	6010B	1-7-10	1-7-10	
Mercury	**0.28**	0.27	7471A	1-8-10	1-8-10	
Nickel	**20**	2.7	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.7	6020	1-7-10	1-7-10	
Zinc	**53**	2.7	6010B	1-7-10	1-7-10	
Lab ID:	01-028-06					
Client ID:	**KCP4-SO11-B-100105**					
Antimony	**ND**	5.6	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**16**	0.56	6010B	1-7-10	1-7-10	
Copper	**13**	1.1	6010B	1-7-10	1-7-10	
Lead	**ND**	5.6	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.28	7471A	1-8-10	1-8-10	
Nickel	**50**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**20**	2.8	6010B	1-7-10	1-7-10	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-07					
Client ID:	**KCP4-SO12-B-100105**					
Antimony	**ND**	5.5	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**18**	0.55	6010B	1-7-10	1-7-10	
Copper	**17**	1.1	6010B	1-7-10	1-7-10	
Lead	**ND**	5.5	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.28	7471A	1-8-10	1-8-10	
Nickel	**37**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**23**	2.8	6010B	1-7-10	1-7-10	
Lab ID:	01-028-08					
Client ID:	**KCP4-SO12B-B-100105**					
Antimony	**ND**	5.6	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**24**	0.56	6010B	1-7-10	1-7-10	
Copper	**18**	1.1	6010B	1-7-10	1-7-10	
Lead	**ND**	5.6	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.28	7471A	1-8-10	1-8-10	
Nickel	**35**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**25**	2.8	6010B	1-7-10	1-7-10	

Date of Report: January 12, 2010
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-09					
Client ID:	**KCP4-SO13-B-100105**					
Antimony	**ND**	5.5	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**21**	0.55	6010B	1-7-10	1-7-10	
Copper	**31**	1.1	6010B	1-7-10	1-7-10	
Lead	**16**	5.5	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.28	7471A	1-8-10	1-8-10	
Nickel	**56**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**27**	2.8	6010B	1-7-10	1-7-10	
Lab ID:	01-028-10					
Client ID:	**KCP4-SO14-S-100105**					
Antimony	**ND**	5.4	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**28**	0.54	6010B	1-7-10	1-7-10	
Copper	**60**	1.1	6010B	1-7-10	1-7-10	
Lead	**6.8**	5.4	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.27	7471A	1-8-10	1-8-10	
Nickel	**30**	2.7	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.7	6020	1-7-10	1-7-10	
Zinc	**77**	2.7	6010B	1-7-10	1-7-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-11					
Client ID:	**KCP4-SO15-B-100105**					
Antimony	**ND**	5.5	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**24**	0.55	6010B	1-7-10	1-7-10	
Copper	**130**	1.1	6010B	1-7-10	1-7-10	
Lead	**51**	5.5	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.27	7471A	1-8-10	1-8-10	
Nickel	**48**	2.7	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.7	6020	1-7-10	1-7-10	
Zinc	**37**	2.7	6010B	1-7-10	1-7-10	
Lab ID:	01-028-12					
Client ID:	**KCP4-SO16-S-100105**					
Antimony	**ND**	5.3	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**26**	0.53	6010B	1-7-10	1-7-10	
Copper	**59**	1.1	6010B	1-7-10	1-7-10	
Lead	**5.9**	5.3	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.27	7471A	1-8-10	1-8-10	
Nickel	**27**	2.7	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.7	6020	1-7-10	1-7-10	
Zinc	**75**	2.7	6010B	1-7-10	1-7-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-13					
Client ID:	**KCP4-SO17-S-100105**					
Antimony	**ND**	5.3	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**26**	0.53	6010B	1-7-10	1-7-10	
Copper	**58**	1.1	6010B	1-7-10	1-7-10	
Lead	**5.9**	5.3	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.27	7471A	1-8-10	1-8-10	
Nickel	**27**	2.7	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.7	6020	1-7-10	1-7-10	
Zinc	**73**	2.7	6010B	1-7-10	1-7-10	
Lab ID:	01-028-14					
Client ID:	**KCP4-SO18-S-100105**					
Antimony	**310**	6.6	6010B	1-7-10	1-7-10	
Arsenic	**ND**	13	6010B	1-7-10	1-7-10	
Chromium	**82**	0.66	6010B	1-7-10	1-7-10	
Copper	**120**	1.3	6010B	1-7-10	1-7-10	
Lead	**4400**	66	6010B	1-7-10	1-7-10	
Mercury	**1.9**	1.7	7471A	1-8-10	1-8-10	
Nickel	**39**	3.3	6010B	1-7-10	1-7-10	
Thallium	**ND**	3.3	6020	1-7-10	1-7-10	
Zinc	**93**	3.3	6010B	1-7-10	1-7-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-15					
Client ID:	**KCP4-SO18B-S-100105**					
Antimony	**260**	5.7	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**26**	0.57	6010B	1-7-10	1-7-10	
Copper	**76**	1.1	6010B	1-7-10	1-7-10	
Lead	**2300**	5.7	6010B	1-7-10	1-7-10	
Mercury	**1.9**	1.4	7471A	1-8-10	1-8-10	
Nickel	**27**	2.9	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.9	6020	1-7-10	1-7-10	
Zinc	**82**	2.9	6010B	1-7-10	1-7-10	
Lab ID:	01-028-16					
Client ID:	**KCP4-SO19-S-100105**					
Antimony	**ND**	5.5	6010B	1-7-10	1-7-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**15**	0.55	6010B	1-7-10	1-7-10	
Copper	**17**	1.1	6010B	1-7-10	1-7-10	
Lead	**ND**	5.5	6010B	1-7-10	1-7-10	
Mercury	**ND**	0.28	7471A	1-8-10	1-8-10	
Nickel	**32**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**22**	2.8	6010B	1-7-10	1-7-10	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-17					
Client ID:	**KCP4-SO20-B-100105**					
Antimony	**3500**	61	6010B	1-7-10	1-8-10	
Arsenic	**14**	12	6010B	1-7-10	1-7-10	
Chromium	**14**	0.61	6010B	1-7-10	1-7-10	
Copper	**310**	1.2	6010B	1-7-10	1-7-10	
Lead	**21000**	310	6010B	1-7-10	1-7-10	
Mercury	**520**	150	7471A	1-8-10	1-8-10	
Nickel	**18**	3.1	6010B	1-7-10	1-7-10	
Thallium	**ND**	3.1	6020	1-7-10	1-7-10	
Zinc	**160**	3.1	6010B	1-7-10	1-7-10	
Lab ID:	01-028-18					
Client ID:	**KCP4-SO21-S-100105**					
Antimony	**ND**	5.6	6010B	1-7-10	1-8-10	
Arsenic	**ND**	11	6010B	1-7-10	1-7-10	
Chromium	**25**	0.56	6010B	1-7-10	1-7-10	
Copper	**21**	1.1	6010B	1-7-10	1-7-10	
Lead	**28**	5.6	6010B	1-7-10	1-7-10	
Mercury	**0.57**	0.28	7471A	1-8-10	1-8-10	
Nickel	**55**	2.8	6010B	1-7-10	1-7-10	
Thallium	**ND**	2.8	6020	1-7-10	1-7-10	
Zinc	**36**	2.8	6010B	1-7-10	1-7-10	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-19					
Client ID:	**KCP4-SO22-S-100105**					
Antimony	**61**	6.1	6010B	1-7-10	1-7-10	
Arsenic	**ND**	12	6010B	1-7-10	1-7-10	
Chromium	**16**	0.61	6010B	1-7-10	1-7-10	
Copper	**79**	1.2	6010B	1-7-10	1-7-10	
Lead	**700**	6.1	6010B	1-7-10	1-7-10	
Mercury	**0.95**	0.30	7471A	1-8-10	1-8-10	
Nickel	**14**	3.0	6010B	1-7-10	1-7-10	
Thallium	**ND**	3.0	6020	1-7-10	1-7-10	
Zinc	**36**	3.0	6010B	1-7-10	1-7-10	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-7&8-10
Date Analyzed: 1-7&8-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0107S2,MB0107S3&MB0108S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 1-7&8-10
Date Analyzed: 1-7&8-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-028-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**31.4**	**24.8**	24	0.50	K
Copper	**13.6**	**13.2**	3	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**64.7**	**57.9**	11	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**22.4**	**21.1**	6	2.5	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 1-7&8-10
Date Analyzed: 1-7&8-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-028-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**89.8**	90	**94.2**	94	5	
Arsenic	100	**95.8**	96	**93.4**	93	3	
Chromium	100	**118**	86	**116**	84	2	
Copper	50	**63.9**	101	**60.5**	94	5	
Lead	250	**227**	91	**222**	89	3	
Mercury	0.50	**0.550**	110	**0.564**	113	3	
Nickel	100	**157**	92	**148**	83	6	
Thallium	50	**53.0**	106	**50.0**	100	6	
Zinc	100	**119**	96	**114**	92	4	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
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Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO18-S-100105**					
Laboratory ID:	01-028-14					
Naphthalene	**ND**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
2-Methylnaphthalene	**ND**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
1-Methylnaphthalene	**ND**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthylene	**0.012**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthene	**0.015**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Fluorene	**0.051**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Phenanthrene	**0.074**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Anthracene	**0.057**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Fluoranthene	**0.28**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Pyrene	**0.24**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]anthracene	**0.10**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Chrysene	**0.15**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[b]fluoranthene	**0.10**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[k]fluoranthene	**0.034**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]pyrene	**0.082**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Indeno(1,2,3-c,d)pyrene	**0.049**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Dibenz[a,h]anthracene	**0.019**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[g,h,i]perylene	**0.063**	0.0088	EPA 8270/SIM	1-7-10	1-8-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*84*	*39 - 103*				
Pyrene-d10	*76*	*39 - 115*				
Terphenyl-d14	*96*	*50 - 118*				

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO18B-S-100105**					
Laboratory ID:	01-028-15					
Naphthalene	**ND**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
2-Methylnaphthalene	**ND**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
1-Methylnaphthalene	**ND**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthylene	**0.011**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthene	**0.021**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Fluorene	**0.064**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Phenanthrene	**0.076**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Anthracene	**0.072**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Fluoranthene	**0.27**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Pyrene	**0.24**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]anthracene	**0.12**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Chrysene	**0.16**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[b]fluoranthene	**0.12**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[k]fluoranthene	**0.046**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]pyrene	**0.10**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Indeno(1,2,3-c,d)pyrene	**0.063**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Dibenz[a,h]anthracene	**0.022**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[g,h,i]perylene	**0.073**	0.0077	EPA 8270/SIM	1-7-10	1-8-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*85*	*39 - 103*				
Pyrene-d10	*81*	*39 - 115*				
Terphenyl-d14	*100*	*50 - 118*				

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO19-S-100105**					
Laboratory ID:	01-028-16					
Naphthalene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
2-Methylnaphthalene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
1-Methylnaphthalene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Acenaphthylene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Acenaphthene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Fluorene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Phenanthrene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Anthracene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Fluoranthene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Pyrene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[a]anthracene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Chrysene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[b]fluoranthene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[k]fluoranthene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[a]pyrene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Dibenz[a,h]anthracene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[g,h,i]perylene	**ND**	0.0073	EPA 8270/SIM	1-7-10	1-7-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*72*	*39 - 103*				
Pyrene-d10	*82*	*39 - 115*				
Terphenyl-d14	*85*	*50 - 118*				

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO20-B-100105**					
Laboratory ID:	01-028-17					
Naphthalene	**ND**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
2-Methylnaphthalene	**ND**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
1-Methylnaphthalene	**ND**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Acenaphthylene	**0.012**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Acenaphthene	**ND**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Fluorene	**ND**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Phenanthrene	**0.095**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Anthracene	**0.020**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Fluoranthene	**0.22**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Pyrene	**0.19**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[a]anthracene	**0.11**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Chrysene	**0.14**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[b]fluoranthene	**0.14**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[k]fluoranthene	**0.039**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[a]pyrene	**0.094**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Indeno(1,2,3-c,d)pyrene	**0.080**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Dibenz[a,h]anthracene	**0.025**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[g,h,i]perylene	**0.096**	0.0081	EPA 8270/SIM	1-7-10	1-7-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*39 - 103*				
Pyrene-d10	*82*	*39 - 115*				
Terphenyl-d14	*113*	*50 - 118*				

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO21-S-100105**					
Laboratory ID:	01-028-18					
Naphthalene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
2-Methylnaphthalene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
1-Methylnaphthalene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthylene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Fluorene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Phenanthrene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Anthracene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Fluoranthene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Pyrene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]anthracene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Chrysene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[b]fluoranthene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[k]fluoranthene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]pyrene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[g,h,i]perylene	**ND**	0.0074	EPA 8270/SIM	1-7-10	1-8-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*69*	*39 - 103*				
Pyrene-d10	*87*	*39 - 115*				
Terphenyl-d14	*90*	*50 - 118*				

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

PAHs by EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO22-S-100105**					
Laboratory ID:	01-028-19					
Naphthalene	**0.014**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
2-Methylnaphthalene	**ND**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
1-Methylnaphthalene	**0.060**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthylene	**0.013**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Acenaphthene	**0.056**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Fluorene	**0.035**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Phenanthrene	**0.091**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Anthracene	**0.017**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Fluoranthene	**0.13**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Pyrene	**0.13**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]anthracene	**0.061**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Chrysene	**0.098**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[b]fluoranthene	**0.094**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[k]fluoranthene	**0.031**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[a]pyrene	**0.057**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Indeno(1,2,3-c,d)pyrene	**0.053**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Dibenz[a,h]anthracene	**0.017**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Benzo[g,h,i]perylene	**0.071**	0.0081	EPA 8270/SIM	1-7-10	1-8-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*39 - 103*				
Pyrene-d10	*83*	*39 - 115*				
Terphenyl-d14	*106*	*50 - 118*				

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0107S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Fluorene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Anthracene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Pyrene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Chrysene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[k]fluoranthene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	1-7-10	1-7-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*39 - 103*				
Pyrene-d10	*81*	*39 - 115*				
Terphenyl-d14	*83*	*50 - 118*				

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

PAHs by EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	01-028-14										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0646**	**0.0659**	0.0833	0.0833	ND	78	79	29 - 104	2	27	
Acenaphthylene	**0.0787**	**0.0876**	0.0833	0.0833	0.00899	84	94	44 - 111	11	20	
Acenaphthene	**0.0806**	**0.0847**	0.0833	0.0833	0.0110	84	88	45 - 108	5	19	
Fluorene	**0.117**	**0.125**	0.0833	0.0833	0.0391	94	103	49 - 113	7	16	
Phenanthrene	**0.150**	**0.145**	0.0833	0.0833	0.0561	113	107	43 - 124	3	36	
Anthracene	**0.118**	**0.131**	0.0833	0.0833	0.0432	90	105	51 - 115	10	17	
Fluoranthene	**0.269**	**0.288**	0.0833	0.0833	0.211	70	92	42 - 140	7	27	
Pyrene	**0.226**	**0.261**	0.0833	0.0833	0.183	52	94	40 - 140	14	30	
Benzo[a]anthracene	**0.132**	**0.149**	0.0833	0.0833	0.0798	63	83	33 - 134	12	21	
Chrysene	**0.162**	**0.187**	0.0833	0.0833	0.112	60	90	32 - 141	14	21	
Benzo[b]fluoranthene	**0.126**	**0.144**	0.0833	0.0833	0.0773	58	80	35 - 139	13	32	
Benzo[k]fluoranthene	**0.0900**	**0.0935**	0.0833	0.0833	0.0258	77	81	44 - 124	4	23	
Benzo[a]pyrene	**0.114**	**0.135**	0.0833	0.0833	0.0624	62	87	34 - 130	17	28	
Indeno(1,2,3-c,d)pyrene	**0.108**	**0.119**	0.0833	0.0833	0.0376	85	98	50 - 127	10	20	
Dibenz[a,h]anthracene	**0.0844**	**0.0865**	0.0833	0.0833	0.0141	84	87	58 - 122	2	15	
Benzo[g,h,i]perylene	**0.114**	**0.136**	0.0833	0.0833	0.0477	80	106	47 - 126	18	21	
Surrogate:											
2-Fluorobiphenyl						*79*	*85*	*39 - 103*			
Pyrene-d10						*73*	*78*	*39 - 115*			
Terphenyl-d14						*84*	*96*	*50 - 118*			

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B/7470A

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-028-17					
Client ID:	**KCP4-SO20-B-100105**					
Lead	**350**	4.0	6010B	1-12-10	1-12-10	
Mercury	**0.22**	0.050	7470A	1-12-10	1-12-10	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B/7470A
METHOD BLANK QUALITY CONTROL

Date Prepared:	1-11-10
Date Extracted:	1-12-10
Date Analyzed:	1-12-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0112T1&MB0112T2

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20
Mercury	7470A	**ND**	0.0050

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B/7470A
DUPLICATE QUALITY CONTROL

Date Prepared: 1-11-10
Date Extracted: 1-12-10
Date Analyzed: 1-12-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-028-17

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**350**	**345**	1	4.0	
Mercury	**0.219**	**0.226**	4	0.050	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B/7470A
MS/MSD QUALITY CONTROL

Date Prepared: 1-11-10
Date Extracted: 1-12-10
Date Analyzed: 1-12-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-028-17

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10	**339**	0	**332**	0	2	A
Mercury	0.050	**0.275**	112	**0.278**	120	1	

Date of Report: January 12, 2010
Samples Submitted: January 6, 2010
Laboratory Reference: 1001-028
Project: 000105-01.09

% MOISTURE

Date Analyzed: 1-7-10

Client ID	Lab ID	% Moisture
KCP4-SO06-S-100105	01-028-01	7
KCP4-SO07-S-100105	01-028-02	12
KCP4-SO08-B-100105	01-028-03	12
KCP4-SO09-B-100105	01-028-04	14
KCP4-SO10-S-100105	01-028-05	7
KCP4-SO11-B-100105	01-028-06	11
KCP4-SO12-B-100105	01-028-07	9
KCP4-SO12B-B-100105	01-028-08	10
KCP4-SO13-B-100105	01-028-09	9
KCP4-SO14-S-100105	01-028-10	7
KCP4-SO15-B-100105	01-028-11	8
KCP4-SO16-S-100105	01-028-12	7
KCP4-SO17-S-100105	01-028-13	6
KCP4-SO18-S-100105	01-028-14	24
KCP4-SO18B-S-100105	01-028-15	13
KCP4-SO19-S-100105	01-028-16	10
KCP4-SO20-B-100105	01-028-17	18
KCP4-SO21-S-100105	01-028-18	10
KCP4-SO22-S-100105	01-028-19	18

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
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Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: K-C Phase 4
Project Manager: Desrosiers
Sampled by: Whitaker

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 01-028

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Metals*						% Moisture
1	KCP4-S006-S-100105	1/5/10	15:00	So	1														X						X
2	" -S007-S-100105		15:02																X						X
3	-S008-B-100105		15:06																X						X
4	-S009-B-100105		15:10																X						X
5	-S010-S-100105		15:12																X						X
6	-S011-B-100105		15:16																X						X
7	-S012-B-100105		15:21																X						X
8	-S012B-B-100105		15:45																X						X
9	-S013-B-100105		15:23																X						X
10	-S014-S-100105		15:27																X						X

	Signature	Company	Date	Time
Relinquished by		Anchor QEA	11/6/2010	12:30
Received by		Speedy	11/6/10	1:57
Relinquished by		Speedy	11/6/10	2:27
Received by			11/6/10	1430
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
*Sb, As, Cr, Cu, Hg, Ni, Tl, Zn, Pb
Added 1/11/10. DB (6 day TAT)

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: K-C Phase 4
Project Manager: Desrosiers
Sampled by: Whitaker

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 01-028

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals (Pb, Hg)	HEM by 1664	Metals*						% Moisture
11	KCP4-S015-B-100105	1/5	15:30	SO	1														X						X
12	-S016-B-100105 DB		15:33																X						X
13	-S017-S-100105		15:35																X						X
14	KCP4-S018-S-100105		15:55									X							X						X
15	-S018B-S-100105		16:15									X							X						X
16	-S019-S-100105		15:59									X							X						X
17	-S020-B-100105		16:01									X					⊗		X						X
18	-S021-S-100105		16:03									X							X						X
19	-S022-S-100105		16:10									X							X						X
20	KCP4-RB-100105	1/5	17:00	W	2														Hold**						

	Signature	Company	Date	Time
Relinquished by		Anchor QEA	1/6/2010	12:30
Received by		Speedy	1/6/10	1:57
Relinquished by		Speedy	1/6/10	2:27
Received by			1/6/10	1430
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

* Sb, As, Cr, Cu, Hg, Ni, Tl, Zn, Pb

** Hold rinse blank.

⊗ Added 1/11/01. DB (1 day TAT)

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 01-028

Initiated by: MM

Date Initiated: 1/6/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 6	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

2.4) Sample 2) KCP4-S007-S-100105 1/5/10 15:02 on COC
" " " 1504 on label
Sample 12) KCP4-S016-B-100105 1/5 15:33 on COC
KCP4-S016-S-100105 " on label
S016-? on lid

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 15, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1001-052

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on January 11, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

Case Narrative

Samples were collected on January 8, 2010, and received by the laboratory on January 11, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis (samples 01-052-21 through 01-052-40)

The duplicate RPDs for Chromium and Nickel are outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Total Metals EPA 6010B/6020/7471A Analysis (samples 01-052-61 through 01-052-79)

The duplicate RPD for Chromium is outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-01					
Client ID:	**KCP4-SO23-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**22**	0.53	6010B	1-12-10	1-12-10	
Copper	**46**	1.1	6010B	1-12-10	1-12-10	
Lead	**ND**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**24**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**62**	2.7	6010B	1-12-10	1-12-10	
Lab ID:	01-052-02					
Client ID:	**KCP4-SO24-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**23**	0.53	6010B	1-12-10	1-12-10	
Copper	**53**	1.1	6010B	1-12-10	1-12-10	
Lead	**7.3**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**25**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**69**	2.7	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-03					
Client ID:	**KCP4-SO25-S-100108**					
Antimony	**8.5**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**16**	11	6010B	1-12-10	1-12-10	
Chromium	**34**	0.53	6010B	1-12-10	1-12-10	
Copper	**85**	1.1	6010B	1-12-10	1-12-10	
Lead	**20**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**34**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**440**	2.7	6010B	1-12-10	1-12-10	
Lab ID:	01-052-04					
Client ID:	**KCP4-SO26-S-100108**					
Antimony	**ND**	5.2	6010B	1-12-10	1-12-10	
Arsenic	**ND**	10	6010B	1-12-10	1-12-10	
Chromium	**21**	0.52	6010B	1-12-10	1-12-10	
Copper	**46**	1.0	6010B	1-12-10	1-12-10	
Lead	**5.5**	5.2	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**21**	2.6	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**100**	2.6	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-05					
Client ID:	**KCP4-SO27-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**12**	11	6010B	1-12-10	1-12-10	
Chromium	**38**	0.53	6010B	1-12-10	1-12-10	
Copper	**77**	1.1	6010B	1-12-10	1-12-10	
Lead	**15**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**38**	2.6	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**250**	2.6	6010B	1-12-10	1-12-10	
Lab ID:	01-052-06					
Client ID:	**KCP4-SO28-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**32**	0.53	6010B	1-12-10	1-12-10	
Copper	**59**	1.1	6010B	1-12-10	1-12-10	
Lead	**8.5**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**31**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**130**	2.7	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-07					
Client ID:	**KCP4-SO29-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**29**	0.53	6010B	1-12-10	1-12-10	
Copper	**55**	1.1	6010B	1-12-10	1-12-10	
Lead	**6.6**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**28**	2.6	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**91**	2.6	6010B	1-12-10	1-12-10	
Lab ID:	01-052-08					
Client ID:	**KCP4-SO30-S-100108**					
Antimony	**7.1**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**12**	11	6010B	1-12-10	1-12-10	
Chromium	**27**	0.53	6010B	1-12-10	1-12-10	
Copper	**64**	1.1	6010B	1-12-10	1-12-10	
Lead	**16**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**31**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**180**	2.7	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-09					
Client ID:	**KCP4-SO31-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**24**	0.53	6010B	1-12-10	1-12-10	
Copper	**56**	1.1	6010B	1-12-10	1-12-10	
Lead	**5.8**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**27**	2.6	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**85**	2.6	6010B	1-12-10	1-12-10	
Lab ID:	01-052-10					
Client ID:	**KCP4-SO32-S-100108**					
Antimony	**ND**	5.2	6010B	1-12-10	1-12-10	
Arsenic	**ND**	10	6010B	1-12-10	1-12-10	
Chromium	**24**	0.52	6010B	1-12-10	1-12-10	
Copper	**56**	1.0	6010B	1-12-10	1-12-10	
Lead	**5.5**	5.2	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**26**	2.6	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**85**	2.6	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-11					
Client ID:	**KCP4-SO33-S-100108**					
Antimony	**ND**	6.5	6010B	1-12-10	1-12-10	
Arsenic	**ND**	13	6010B	1-12-10	1-12-10	
Chromium	**28**	0.65	6010B	1-12-10	1-12-10	
Copper	**38**	1.3	6010B	1-12-10	1-12-10	
Lead	**13**	6.5	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.32	7471A	1-12-10	1-12-10	
Nickel	**35**	3.2	6010B	1-12-10	1-12-10	
Thallium	**ND**	3.2	6020	1-12-10	1-13-10	
Zinc	**92**	3.2	6010B	1-12-10	1-12-10	
Lab ID:	01-052-12					
Client ID:	**KCP4-SO34-S-100108**					
Antimony	**ND**	5.9	6010B	1-12-10	1-12-10	
Arsenic	**ND**	12	6010B	1-12-10	1-12-10	
Chromium	**31**	0.59	6010B	1-12-10	1-12-10	
Copper	**31**	1.2	6010B	1-12-10	1-12-10	
Lead	**20**	5.9	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.30	7471A	1-12-10	1-12-10	
Nickel	**42**	3.0	6010B	1-12-10	1-12-10	
Thallium	**ND**	3.0	6020	1-12-10	1-13-10	
Zinc	**82**	3.0	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-13					
Client ID:	**KCP4-SO35-S-100108**					
Antimony	**ND**	5.8	6010B	1-12-10	1-12-10	
Arsenic	**ND**	12	6010B	1-12-10	1-12-10	
Chromium	**20**	0.58	6010B	1-12-10	1-12-10	
Copper	**16**	1.2	6010B	1-12-10	1-12-10	
Lead	**6.6**	5.8	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.29	7471A	1-12-10	1-12-10	
Nickel	**22**	2.9	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.9	6020	1-12-10	1-13-10	
Zinc	**48**	2.9	6010B	1-12-10	1-12-10	
Lab ID:	01-052-14					
Client ID:	**KCP4-SO36-S-100108**					
Antimony	**ND**	5.4	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**22**	0.54	6010B	1-12-10	1-12-10	
Copper	**18**	1.1	6010B	1-12-10	1-12-10	
Lead	**ND**	5.4	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**39**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**26**	2.7	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-15					
Client ID:	**KCP4-SO37-S-100108**					
Antimony	**ND**	5.5	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**25**	0.55	6010B	1-12-10	1-12-10	
Copper	**37**	1.1	6010B	1-12-10	1-12-10	
Lead	**44**	5.5	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**40**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**62**	2.7	6010B	1-12-10	1-12-10	
Lab ID:	01-052-16					
Client ID:	**KCP4-SO38-S-100108**					
Antimony	**ND**	5.4	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**23**	0.54	6010B	1-12-10	1-12-10	
Copper	**47**	1.1	6010B	1-12-10	1-12-10	
Lead	**27**	5.4	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**41**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**69**	2.7	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-17					
Client ID:	**KCP4-SO39-S-100108**					
Antimony	**5.9**	5.4	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**23**	0.54	6010B	1-12-10	1-12-10	
Copper	**53**	1.1	6010B	1-12-10	1-12-10	
Lead	**6.0**	5.4	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**33**	2.7	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**120**	2.7	6010B	1-12-10	1-12-10	
Lab ID:	01-052-18					
Client ID:	**KCP4-SO40-S-100108**					
Antimony	**ND**	5.5	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**29**	0.55	6010B	1-12-10	1-12-10	
Copper	**64**	1.1	6010B	1-12-10	1-12-10	
Lead	**11**	5.5	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**34**	2.8	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**100**	2.8	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-19					
Client ID:	**KCP4-SO41-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**32**	0.53	6010B	1-12-10	1-12-10	
Copper	**56**	1.1	6010B	1-12-10	1-12-10	
Lead	**8.2**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**35**	2.6	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**150**	2.6	6010B	1-12-10	1-12-10	
Lab ID:	01-052-20					
Client ID:	**KCP4-SO42-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-12-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**26**	0.53	6010B	1-12-10	1-12-10	
Copper	**56**	1.1	6010B	1-12-10	1-12-10	
Lead	**7.2**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**30**	2.6	6010B	1-12-10	1-12-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**81**	2.6	6010B	1-12-10	1-12-10	

Date of Report: January 15, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0112S1,MB0112S3&MB0112S6

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**17.0**	**14.9**	13	0.50	
Copper	**13.8**	**12.7**	8	1.0	
Lead	**5.66**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**19.1**	**17.5**	9	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**41.5**	**39.1**	6	2.5	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.0**	91	**92.7**	93	2	
Arsenic	100	**95.4**	95	**92.7**	93	3	
Chromium	100	**111**	94	**110**	93	1	
Copper	50	**62.0**	97	**60.8**	94	2	
Lead	250	**227**	89	**226**	88	0	
Mercury	0.50	**0.485**	97	**0.480**	96	1	
Nickel	100	**112**	93	**110**	91	2	
Thallium	50	**51.9**	104	**49.6**	99	5	
Zinc	100	**135**	94	**134**	93	1	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0112S1,SB0112S3&SB0112S6

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**94.3**	94
Arsenic	6010B	100	**95.1**	95
Chromium	6010B	100	**99.0**	99
Copper	6010B	50	**50.9**	102
Lead	6010B	250	**233**	93
Mercury	7471A	0.50	**0.499**	100
Nickel	6010B	100	**98.2**	98
Thallium	6020	50	**51.4**	103
Zinc	6010B	100	**96.2**	96

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1011210P	1.00	0.987	1.3	+/- 10%
Arsenic	ICV1011210P	1.00	0.997	0.29	+/- 10%
Chromium	ICV1011210P	1.00	1.04	-3.7	+/- 10%
Copper	ICV1011210P	1.00	1.02	-1.5	+/- 10%
Lead	ICV1011210P	1.00	1.03	-2.6	+/- 10%
Mercury	ICV1011210Y	0.00500	0.00523	-4.6	+/- 10%
Nickel	ICV1011210P	1.00	1.03	-3.0	+/- 10%
Thallium	ICV1011310E	0.0500	0.0497	0.69	+/- 10%
Zinc	ICV1011210P	1.00	0.989	1.1	+/- 10%
Antimony	CCV1011210P	1.00	0.982	1.8	+/- 10%
Arsenic	CCV1011210P	1.00	0.998	0.24	+/- 10%
Chromium	CCV1011210P	1.00	1.00	0	+/- 10%
Copper	CCV1011210P	1.00	1.00	0	+/- 10%
Lead	CCV1011210P	10.0	9.94	0.60	+/- 10%
Mercury	CCV1011210Y	0.00500	0.00537	-7.4	+/- 20%
Nickel	CCV1011210P	1.00	1.01	-0.84	+/- 10%
Thallium	CCV1011310E	0.0400	0.0406	-1.4	+/- 10%
Zinc	CCV1011210P	1.00	0.988	1.2	+/- 10%
Antimony	CCV2011210P	1.00	0.994	0.56	+/- 10%
Arsenic	CCV2011210P	1.00	0.994	0.56	+/- 10%
Chromium	CCV2011210P	1.00	1.02	-1.7	+/- 10%
Copper	CCV2011210P	1.00	0.998	0.18	+/- 10%
Lead	CCV2011210P	10.0	10.1	-0.52	+/- 10%
Mercury	CCV2011210Y	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV2011210P	1.00	1.02	-1.7	+/- 10%
Thallium	CCV2011310E	0.0400	0.0413	-3.2	+/- 10%
Zinc	CCV2011210P	1.00	0.991	0.88	+/- 10%
Antimony	CCV3011210P	1.00	1.00	0	+/- 10%
Arsenic	CCV3011210P	1.00	0.993	0.68	+/- 10%
Chromium	CCV3011210P	1.00	1.02	-2.4	+/- 10%
Copper	CCV3011210P	1.00	1.00	0	+/- 10%
Lead	CCV3011210P	10.0	10.1	-1.5	+/- 10%
Mercury	CCV3011210Y	0.00500	0.00523	-4.5	+/- 20%
Nickel	CCV3011210P	1.00	1.02	-2.4	+/- 10%
Thallium	CCV3011310E	0.0400	0.0414	-3.5	+/- 10%
Zinc	CCV3011210P	1.00	1.00	0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4011210P	1.00	0.973	2.7	+/- 10%
Arsenic	CCV4011210P	1.00	0.988	1.2	+/- 10%
Chromium	CCV4011210P	1.00	1.02	-1.7	+/- 10%
Copper	CCV4011210P	1.00	1.00	0	+/- 10%
Lead	CCV4011210P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV4011210Y	0.00500	0.00527	-5.3	+/- 20%
Nickel	CCV4011210P	1.00	1.02	-1.9	+/- 10%
Thallium	CCV4011310E	0.0400	0.0415	-3.8	+/- 10%
Zinc	CCV4011210P	1.00	0.995	0.49	+/- 10%
Antimony	CCV5011210P	1.00	0.991	0.86	+/- 10%
Antimony	CCV6011210P	1.00	1.01	-1.3	+/- 10%
Antimony	CCV7011210P	1.00	0.991	0.88	+/- 10%

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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-21					
Client ID:	**KCP4-SO43-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**34**	0.53	6010B	1-12-10	1-13-10	
Copper	**67**	2.7	6010B	1-12-10	1-13-10	
Lead	**6.7**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**36**	2.7	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**94**	11	6010B	1-12-10	1-13-10	
Lab ID:	01-052-22					
Client ID:	**KCP4-SO44-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**30**	0.53	6010B	1-12-10	1-13-10	
Copper	**59**	2.6	6010B	1-12-10	1-13-10	
Lead	**5.3**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**30**	2.6	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**87**	11	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-23					
Client ID:	**KCP4-SO45-S-100108**					
Antimony	**6.4**	5.2	6010B	1-12-10	1-13-10	
Arsenic	**ND**	10	6010B	1-12-10	1-12-10	
Chromium	**43**	0.52	6010B	1-12-10	1-13-10	
Copper	**81**	2.6	6010B	1-12-10	1-13-10	
Lead	**ND**	5.2	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**46**	2.6	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**150**	10	6010B	1-12-10	1-13-10	
Lab ID:	01-052-24					
Client ID:	**KCP4-SO46-S-100108**					
Antimony	**46**	5.3	6010B	1-12-10	1-13-10	
Arsenic	**26**	11	6010B	1-12-10	1-12-10	
Chromium	**73**	0.53	6010B	1-12-10	1-13-10	
Copper	**160**	2.7	6010B	1-12-10	1-13-10	
Lead	**31**	5.3	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**110**	2.7	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**810**	11	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-25					
Client ID:	**KCP4-SO47-S-100108**					
Antimony	**ND**	5.2	6010B	1-12-10	1-13-10	
Arsenic	**ND**	10	6010B	1-12-10	1-12-10	
Chromium	**39**	0.52	6010B	1-12-10	1-13-10	
Copper	**76**	2.6	6010B	1-12-10	1-13-10	
Lead	**7.0**	5.2	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**39**	2.6	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**120**	10	6010B	1-12-10	1-13-10	
Lab ID:	01-052-26					
Client ID:	**KCP4-SO48-S-100108**					
Antimony	**ND**	5.4	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-12-10	
Chromium	**37**	0.54	6010B	1-12-10	1-13-10	
Copper	**62**	2.7	6010B	1-12-10	1-13-10	
Lead	**8.0**	5.4	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**42**	2.7	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**96**	11	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-27					
Client ID:	**KCP4-SO49-S-100108**					
Antimony	**ND**	5.8	6010B	1-12-10	1-13-10	
Arsenic	**ND**	12	6010B	1-12-10	1-12-10	
Chromium	**34**	0.58	6010B	1-12-10	1-13-10	
Copper	**30**	2.9	6010B	1-12-10	1-13-10	
Lead	**ND**	5.8	6010B	1-12-10	1-12-10	
Mercury	**ND**	0.29	7471A	1-12-10	1-12-10	
Nickel	**83**	2.9	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.9	6020	1-12-10	1-13-10	
Zinc	**75**	12	6010B	1-12-10	1-13-10	
Lab ID:	01-052-28					
Client ID:	**KCP4-SO50-S-100108**					
Antimony	**9.3**	5.3	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**31**	0.53	6010B	1-12-10	1-13-10	
Copper	**110**	2.6	6010B	1-12-10	1-13-10	
Lead	**6.5**	5.3	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**41**	2.6	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**420**	11	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-29					
Client ID:	**KCP4-SO51-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**48**	0.53	6010B	1-12-10	1-13-10	
Copper	**88**	2.6	6010B	1-12-10	1-13-10	
Lead	**5.5**	5.3	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.26	7471A	1-12-10	1-12-10	
Nickel	**45**	2.6	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.6	6020	1-12-10	1-13-10	
Zinc	**220**	11	6010B	1-12-10	1-13-10	
Lab ID:	01-052-30					
Client ID:	**KCP4-SO52-S-100108**					
Antimony	**ND**	5.3	6010B	1-12-10	1-13-10	
Arsenic	**14**	11	6010B	1-12-10	1-13-10	
Chromium	**47**	0.53	6010B	1-12-10	1-13-10	
Copper	**110**	2.7	6010B	1-12-10	1-13-10	
Lead	**25**	5.3	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**50**	2.7	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**380**	11	6010B	1-12-10	1-13-10	

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Samples Submitted: January 11, 2010
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-31					
Client ID:	**KCP4-SO53-B-100108**					
Antimony	**ND**	5.6	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**21**	0.56	6010B	1-12-10	1-13-10	
Copper	**16**	2.8	6010B	1-12-10	1-13-10	
Lead	**ND**	5.6	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**48**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**27**	11	6010B	1-12-10	1-13-10	
Lab ID:	01-052-32					
Client ID:	**KCP4-SO54-B-100108**					
Antimony	**ND**	5.5	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**28**	0.55	6010B	1-12-10	1-13-10	
Copper	**30**	2.8	6010B	1-12-10	1-13-10	
Lead	**42**	5.5	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**44**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**45**	11	6010B	1-12-10	1-13-10	

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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-33					
Client ID:	**KCP4-SO55-B-100108**					
Antimony	**ND**	5.6	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**23**	0.56	6010B	1-12-10	1-13-10	
Copper	**20**	2.8	6010B	1-12-10	1-13-10	
Lead	**ND**	5.6	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**55**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**31**	11	6010B	1-12-10	1-13-10	
Lab ID:	01-052-34					
Client ID:	**KCP4-SO56-B-100108**					
Antimony	**ND**	5.5	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**35**	0.55	6010B	1-12-10	1-13-10	
Copper	**24**	2.8	6010B	1-12-10	1-13-10	
Lead	**23**	5.5	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**51**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**46**	11	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-35					
Client ID:	**KCP4-SO57-B-100108**					
Antimony	**ND**	5.4	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**31**	0.54	6010B	1-12-10	1-13-10	
Copper	**23**	2.7	6010B	1-12-10	1-13-10	
Lead	**ND**	5.4	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.27	7471A	1-12-10	1-12-10	
Nickel	**42**	2.7	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.7	6020	1-12-10	1-13-10	
Zinc	**40**	11	6010B	1-12-10	1-13-10	
Lab ID:	01-052-36					
Client ID:	**KCP4-SO58-B-100108**					
Antimony	**ND**	5.9	6010B	1-12-10	1-13-10	
Arsenic	**ND**	12	6010B	1-12-10	1-13-10	
Chromium	**47**	0.59	6010B	1-12-10	1-13-10	
Copper	**20**	2.9	6010B	1-12-10	1-13-10	
Lead	**ND**	5.9	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.29	7471A	1-12-10	1-12-10	
Nickel	**73**	2.9	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.9	6020	1-12-10	1-13-10	
Zinc	**36**	12	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-37					
Client ID:	**KCP4-SO59-B-100108**					
Antimony	**ND**	5.6	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**24**	0.56	6010B	1-12-10	1-13-10	
Copper	**27**	2.8	6010B	1-12-10	1-13-10	
Lead	**ND**	5.6	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**45**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**37**	11	6010B	1-12-10	1-13-10	
Lab ID:	01-052-38					
Client ID:	**KCP4-SO60-B-100108**					
Antimony	**ND**	5.5	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**24**	0.55	6010B	1-12-10	1-13-10	
Copper	**27**	2.8	6010B	1-12-10	1-13-10	
Lead	**ND**	5.5	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**43**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**35**	11	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-39					
Client ID:	**KCP4-SO61-B-100108**					
Antimony	**ND**	5.5	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**25**	0.55	6010B	1-12-10	1-13-10	
Copper	**28**	2.8	6010B	1-12-10	1-13-10	
Lead	**ND**	5.5	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**48**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**33**	11	6010B	1-12-10	1-13-10	
Lab ID:	01-052-40					
Client ID:	**KCP4-SO62-B-100108**					
Antimony	**ND**	5.6	6010B	1-12-10	1-13-10	
Arsenic	**ND**	11	6010B	1-12-10	1-13-10	
Chromium	**32**	0.56	6010B	1-12-10	1-13-10	
Copper	**21**	2.8	6010B	1-12-10	1-13-10	
Lead	**ND**	5.6	6010B	1-12-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-12-10	1-12-10	
Nickel	**59**	2.8	6010B	1-12-10	1-13-10	
Thallium	**ND**	2.8	6020	1-12-10	1-13-10	
Zinc	**32**	11	6010B	1-12-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0112S2,MB0112S4&MB0112S7

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	2.5
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	10

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-31

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**18.3**	**29.4**	47	0.50	K
Copper	**14.0**	**15.2**	8	2.5	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**42.7**	**54.7**	25	2.5	K
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**24.3**	**24.3**	0	10	

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Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-31

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**95.0**	95	**94.9**	95	0	
Arsenic	100	**94.9**	95	**94.8**	95	0	
Chromium	100	**117**	99	**121**	103	3	
Copper	50	**65.9**	104	**68.0**	108	3	
Lead	250	**225**	90	**228**	91	1	
Mercury	0.50	**0.509**	102	**0.521**	104	2	
Nickel	100	**143**	100	**156**	114	9	
Thallium	50	**48.1**	96	**51.6**	103	7	
Zinc	100	**122**	97	**123**	98	1	

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Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 1-12-10
Date Analyzed: 1-12&13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0112S2,SB0112S4&SB0112S7

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**94.6**	95
Arsenic	6010B	100	**95.0**	95
Chromium	6010B	100	**96.7**	97
Copper	6010B	50	**52.5**	105
Lead	6010B	250	**236**	94
Mercury	7471A	0.50	**0.516**	103
Nickel	6010B	100	**97.0**	97
Thallium	6020	50	**50.2**	100
Zinc	6010B	100	**102**	102

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Samples Submitted: January 11, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1011310P	1.00	0.966	3.4	+/- 10%
Arsenic	ICV1011210P	1.00	0.997	0.29	+/- 10%
Chromium	ICV1011310P	1.00	1.00	0	+/- 10%
Copper	ICV1011310P	1.00	0.999	0.13	+/- 10%
Lead	ICV1011210P	1.00	1.03	-2.6	+/- 10%
Mercury	ICV1011210Y	0.00500	0.00523	-4.6	+/- 10%
Nickel	ICV1011310P	1.00	1.01	-0.83	+/- 10%
Thallium	ICV1011310E	0.0500	0.0485	3.1	+/- 10%
Zinc	ICV1011310P	1.00	0.986	1.4	+/- 10%
Antimony	CCV1011310P	1.00	0.969	3.1	+/- 10%
Arsenic	CCV1011210P	1.00	0.998	0.24	+/- 10%
Chromium	CCV1011310P	1.00	0.977	2.3	+/- 10%
Copper	CCV1011310P	1.00	0.981	1.9	+/- 10%
Lead	CCV1011210P	10.0	9.94	0.60	+/- 10%
Mercury	CCV1011210Y	0.00500	0.00537	-7.4	+/- 20%
Nickel	CCV1011310P	1.00	0.977	2.3	+/- 10%
Thallium	CCV1011310E	0.0400	0.0400	0	+/- 10%
Zinc	CCV1011310P	1.00	0.976	2.4	+/- 10%
Antimony	CCV2011310P	1.00	0.966	3.4	+/- 10%
Arsenic	CCV2011210P	1.00	0.994	0.56	+/- 10%
Chromium	CCV2011310P	1.00	0.989	1.1	+/- 10%
Copper	CCV2011310P	1.00	0.983	1.7	+/- 10%
Lead	CCV2011210P	10.0	10.1	-0.52	+/- 10%
Mercury	CCV2011210Y	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV2011310P	1.00	0.989	1.1	+/- 10%
Thallium	CCV2011310E	0.0400	0.0410	-2.4	+/- 10%
Zinc	CCV2011310P	1.00	0.987	1.3	+/- 10%
Antimony	CCV3011310P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV3011210P	1.00	0.993	0.68	+/- 10%
Chromium	CCV3011310P	1.00	0.995	0.49	+/- 10%
Copper	CCV3011310P	1.00	0.986	1.4	+/- 10%
Lead	CCV3011210P	10.0	10.1	-1.5	+/- 10%
Mercury	CCV3011210Y	0.00500	0.00523	-4.5	+/- 20%
Nickel	CCV3011310P	1.00	0.986	1.4	+/- 10%
Thallium	CCV3011310E	0.0400	0.0385	3.7	+/- 10%
Zinc	CCV3011310P	1.00	0.988	1.2	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4011310P	1.00	1.01	-1.2	+/- 10%
Arsenic	CCV4011210P	1.00	0.988	1.2	+/- 10%
Chromium	CCV4011310P	1.00	1.01	-0.90	+/- 10%
Copper	CCV4011310P	1.00	0.996	0.37	+/- 10%
Lead	CCV4011210P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV4011210Y	0.00500	0.00527	-5.3	+/- 20%
Nickel	CCV4011310P	1.00	1.02	-1.9	+/- 10%
Thallium	CCV4011310E	0.0400	0.0393	1.8	+/- 10%
Zinc	CCV4011310P	1.00	0.991	0.92	+/- 10%
Arsenic	CCV5011210P	1.00	1.01	-0.75	+/- 10%
Lead	CCV5011210P	10.0	10.0	0	+/- 10%
Mercury	CCV5011210Y	0.00500	0.00508	-1.6	+/- 20%
Arsenic	CCV6011210P	1.00	1.01	-1.1	+/- 10%
Lead	CCV6011210P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV6011210Y	0.00500	0.00518	-3.5	+/- 20%
Arsenic	CCV7011210P	1.00	0.988	1.2	+/- 10%
Lead	CCV7011210P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV7011210Y	0.00500	0.00520	-3.9	+/- 20%
Arsenic	CCV8011210P	1.00	0.996	0.36	+/- 10%
Lead	CCV8011210P	10.0	10.0	0	+/- 10%
Mercury	CCV8011210Y	0.00500	0.00522	-4.4	+/- 20%
Arsenic	CCV9011310P	1.00	0.982	1.8	+/- 10%
Lead	CCV9011310P	10.0	10.0	0	+/- 10%
Arsenic	CCV10011310P	1.00	0.979	2.1	+/- 10%
Lead	CCV10011310P	10.0	10.0	0	+/- 10%

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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-41					
Client ID:	**KCP4-SO63-B-100108**					
Antimony	**ND**	5.5	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**19**	0.55	6010B	1-13-10	1-13-10	
Copper	**25**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.5	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**38**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**150**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-42					
Client ID:	**KCP4-SO64-B-100108**					
Antimony	**ND**	5.5	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**32**	0.55	6010B	1-13-10	1-13-10	
Copper	**38**	1.1	6010B	1-13-10	1-13-10	
Lead	**8.9**	5.5	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**43**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**110**	2.8	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-43					
Client ID:	**KCP4-SO65-B-100108**					
Antimony	**ND**	5.5	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**31**	0.55	6010B	1-13-10	1-13-10	
Copper	**25**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.5	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**47**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**36**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-44					
Client ID:	**KCP4-SO66-B-100108**					
Antimony	**ND**	5.4	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**29**	0.54	6010B	1-13-10	1-13-10	
Copper	**31**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.4	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**54**	2.7	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.7	6020	1-13-10	1-13-10	
Zinc	**45**	2.7	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-45					
Client ID:	**KCP4-SO67-B-100108**					
Antimony	**ND**	5.8	6010B	1-13-10	1-13-10	
Arsenic	**ND**	12	6010B	1-13-10	1-13-10	
Chromium	**24**	0.58	6010B	1-13-10	1-13-10	
Copper	**25**	1.2	6010B	1-13-10	1-13-10	
Lead	**61**	5.8	6010B	1-13-10	1-13-10	
Mercury	**0.43**	0.29	7471A	1-13-10	1-13-10	
Nickel	**44**	2.9	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.9	6020	1-13-10	1-13-10	
Zinc	**41**	2.9	6010B	1-13-10	1-13-10	
Lab ID:	01-052-46					
Client ID:	**KCP4-SO68-B-100108**					
Antimony	**ND**	5.7	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**20**	0.57	6010B	1-13-10	1-13-10	
Copper	**22**	1.1	6010B	1-13-10	1-13-10	
Lead	**25**	5.7	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**30**	2.9	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.9	6020	1-13-10	1-13-10	
Zinc	**27**	2.9	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-47					
Client ID:	**KCP4-SO69-B-100108**					
Antimony	**ND**	5.6	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**18**	0.56	6010B	1-13-10	1-13-10	
Copper	**14**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.6	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**43**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**23**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-48					
Client ID:	**KCP4-SO70-B-100108**					
Antimony	**ND**	5.7	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**21**	0.57	6010B	1-13-10	1-13-10	
Copper	**26**	1.1	6010B	1-13-10	1-13-10	
Lead	**73**	5.7	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**38**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**42**	2.8	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-49					
Client ID:	**KCP4-SO71-B-100108**					
Antimony	**ND**	5.5	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**12**	0.55	6010B	1-13-10	1-13-10	
Copper	**13**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.5	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**25**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**20**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-50					
Client ID:	**KCP4-SO72-B-100108**					
Antimony	**ND**	5.5	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**16**	0.55	6010B	1-13-10	1-13-10	
Copper	**21**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.5	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**36**	2.7	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.7	6020	1-13-10	1-13-10	
Zinc	**28**	2.7	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-51					
Client ID:	**KCP4-SO73-B-100108**					
Antimony	**ND**	5.5	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**27**	0.55	6010B	1-13-10	1-13-10	
Copper	**17**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.5	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**48**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**25**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-52					
Client ID:	**KCP4-SO74-B-100108**					
Antimony	**ND**	5.7	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**24**	0.57	6010B	1-13-10	1-13-10	
Copper	**17**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.7	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**74**	2.9	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.9	6020	1-13-10	1-13-10	
Zinc	**32**	2.9	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-53					
Client ID:	**KCP4-SO75-B-100108**					
Antimony	**ND**	5.6	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**17**	0.56	6010B	1-13-10	1-13-10	
Copper	**20**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.6	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**44**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**28**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-54					
Client ID:	**KCP4-SO76-B-100108**					
Antimony	**ND**	5.8	6010B	1-13-10	1-13-10	
Arsenic	**ND**	12	6010B	1-13-10	1-13-10	
Chromium	**19**	0.58	6010B	1-13-10	1-13-10	
Copper	**17**	1.2	6010B	1-13-10	1-13-10	
Lead	**ND**	5.8	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**50**	2.9	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.9	6020	1-13-10	1-13-10	
Zinc	**29**	2.9	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-55					
Client ID:	**KCP4-SO77-B-100108**					
Antimony	**ND**	5.6	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**16**	0.56	6010B	1-13-10	1-13-10	
Copper	**21**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.6	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**31**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**86**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-56					
Client ID:	**KCP4-SO78-B-100108**					
Antimony	**ND**	5.4	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**19**	0.54	6010B	1-13-10	1-13-10	
Copper	**26**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.4	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**39**	2.7	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.7	6020	1-13-10	1-13-10	
Zinc	**61**	2.7	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-57					
Client ID:	**KCP4-SO79-B-100108**					
Antimony	**ND**	5.4	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**20**	0.54	6010B	1-13-10	1-13-10	
Copper	**18**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.4	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**31**	2.7	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.7	6020	1-13-10	1-13-10	
Zinc	**28**	2.7	6010B	1-13-10	1-13-10	
Lab ID:	01-052-58					
Client ID:	**KCP4-SO80-B-100108**					
Antimony	**ND**	5.7	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**33**	0.57	6010B	1-13-10	1-13-10	
Copper	**30**	1.1	6010B	1-13-10	1-13-10	
Lead	**14**	5.7	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**45**	2.9	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.9	6020	1-13-10	1-13-10	
Zinc	**60**	2.9	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-59					
Client ID:	**KCP4-SO81-B-100108**					
Antimony	**ND**	5.6	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**14**	0.56	6010B	1-13-10	1-13-10	
Copper	**13**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.6	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**32**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**24**	2.8	6010B	1-13-10	1-13-10	
Lab ID:	01-052-60					
Client ID:	**KCP4-SO82-B-100108**					
Antimony	**ND**	5.6	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**17**	0.56	6010B	1-13-10	1-13-10	
Copper	**16**	1.1	6010B	1-13-10	1-13-10	
Lead	**ND**	5.6	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**40**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**26**	2.8	6010B	1-13-10	1-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0113S4,MB0113S5&MB0113S7

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-52

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**20.9**	**22.0**	5	0.50	
Copper	**14.9**	**13.7**	8	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**65.0**	**59.7**	8	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**28.0**	**27.5**	2	2.5	

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TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-52

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**96.3**	96	**97.2**	97	1	
Arsenic	100	**94.4**	94	**97.2**	97	3	
Chromium	100	**115**	94	**125**	104	8	
Copper	50	**62.8**	96	**63.9**	98	2	
Lead	250	**240**	96	**244**	98	2	
Mercury	0.50	**0.507**	101	**0.519**	104	2	
Nickel	100	**156**	91	**162**	97	3	
Thallium	50	**48.8**	98	**49.0**	98	0	
Zinc	100	**125**	97	**128**	100	3	

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TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0113S4,SB0113S5&SB0113S7

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**102**	102
Arsenic	6010B	100	**93.7**	94
Chromium	6010B	100	**96.6**	97
Copper	6010B	50	**49.7**	99
Lead	6010B	250	**233**	93
Mercury	7471A	0.50	**0.516**	103
Nickel	6010B	100	**97.3**	97
Thallium	6020	50	**51.8**	104
Zinc	6010B	100	**98.9**	99

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1011310P	1.00	0.966	3.4	+/- 10%
Arsenic	ICV1011310P	1.00	0.977	2.3	+/- 10%
Chromium	ICV1011310P	1.00	1.00	0	+/- 10%
Copper	ICV1011310P	1.00	0.999	0.13	+/- 10%
Lead	ICV1011310P	1.00	0.997	0.26	+/- 10%
Mercury	ICV1011310Y	0.00500	0.00531	-6.3	+/- 10%
Nickel	ICV1011310P	1.00	1.01	-0.83	+/- 10%
Thallium	ICV1011310E	0.0500	0.0498	0.35	+/- 10%
Zinc	ICV1011310P	1.00	0.996	0.45	+/- 10%
Antimony	CCV1011310P	1.00	0.969	3.1	+/- 10%
Arsenic	CCV1011310P	1.00	0.981	1.9	+/- 10%
Chromium	CCV1011310P	1.00	0.977	2.3	+/- 10%
Copper	CCV1011310P	1.00	0.981	1.9	+/- 10%
Lead	CCV1011310P	10.0	9.60	4.0	+/- 10%
Mercury	CCV1011310Y	0.00500	0.00513	-2.5	+/- 20%
Nickel	CCV1011310P	1.00	0.977	2.3	+/- 10%
Thallium	CCV1011310E	0.0400	0.0382	4.5	+/- 10%
Zinc	CCV1011310P	1.00	0.967	3.3	+/- 10%
Antimony	CCV2011310P	1.00	0.966	3.4	+/- 10%
Arsenic	CCV2011310P	1.00	0.958	4.2	+/- 10%
Chromium	CCV2011310P	1.00	0.989	1.1	+/- 10%
Copper	CCV2011310P	1.00	0.983	1.7	+/- 10%
Lead	CCV2011310P	10.0	9.77	2.3	+/- 10%
Mercury	CCV2011310Y	0.00500	0.00511	-2.1	+/- 20%
Nickel	CCV2011310P	1.00	0.989	1.1	+/- 10%
Thallium	CCV2011310E	0.0400	0.0402	-0.43	+/- 10%
Zinc	CCV2011310P	1.00	1.01	-0.51	+/- 10%
Antimony	CCV3011310P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV3011310P	1.00	0.961	3.9	+/- 10%
Chromium	CCV3011310P	1.00	0.995	0.49	+/- 10%
Copper	CCV3011310P	1.00	0.986	1.4	+/- 10%
Lead	CCV3011310P	10.0	9.83	1.7	+/- 10%
Mercury	CCV3011310Y	0.00500	0.00510	-2.0	+/- 20%
Nickel	CCV3011310P	1.00	0.986	1.4	+/- 10%
Thallium	CCV3011310E	0.0400	0.0407	-1.8	+/- 10%
Zinc	CCV3011310P	1.00	1.01	-0.58	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4011310P	1.00	1.01	-1.2	+/- 10%
Arsenic	CCV4011310P	1.00	0.971	2.9	+/- 10%
Chromium	CCV4011310P	1.00	1.01	-0.90	+/- 10%
Copper	CCV4011310P	1.00	0.996	0.37	+/- 10%
Lead	CCV4011310P	10.0	9.95	0.50	+/- 10%
Mercury	CCV4011310Y	0.00500	0.00520	-3.9	+/- 20%
Nickel	CCV4011310P	1.00	1.02	-1.9	+/- 10%
Thallium	CCV4011310E	0.0400	0.0386	3.6	+/- 10%
Zinc	CCV4011310P	1.00	1.01	-0.88	+/- 10%
Antimony	CCV5011310P	1.00	0.977	2.3	+/- 10%
Arsenic	CCV5011310P	1.00	0.980	2.0	+/- 10%
Chromium	CCV5011310P	1.00	1.01	-0.50	+/- 10%
Copper	CCV5011310P	1.00	0.997	0.31	+/- 10%
Lead	CCV5011310P	10.0	10.0	0	+/- 10%
Mercury	CCV5011310Y	0.00500	0.00516	-3.2	+/- 20%
Nickel	CCV5011310P	1.00	1.02	-1.9	+/- 10%
Zinc	CCV5011310P	1.00	1.01	-1.2	+/- 10%
Antimony	CCV6011310P	1.00	0.990	1.0	+/- 10%
Arsenic	CCV6011310P	1.00	0.992	0.77	+/- 10%
Chromium	CCV6011310P	1.00	1.00	0	+/- 10%
Copper	CCV6011310P	1.00	0.992	0.75	+/- 10%
Lead	CCV6011310P	10.0	9.99	0.10	+/- 10%
Mercury	CCV6011310Y	0.00500	0.00527	-5.5	+/- 20%
Nickel	CCV6011310P	1.00	1.02	-1.6	+/- 10%
Zinc	CCV6011310P	1.00	1.02	-2.3	+/- 10%
Antimony	CCV7011310P	1.00	0.996	0.37	+/- 10%
Arsenic	CCV7011310P	1.00	0.994	0.62	+/- 10%
Chromium	CCV7011310P	1.00	1.01	-1.1	+/- 10%
Copper	CCV7011310P	1.00	0.998	0.17	+/- 10%
Lead	CCV7011310P	10.0	10.1	-1.4	+/- 10%
Mercury	CCV7011310Y	0.00500	0.00520	-3.9	+/- 20%
Nickel	CCV7011310P	1.00	1.01	-1.3	+/- 10%
Zinc	CCV7011310P	1.00	1.02	-1.9	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV8011310P	1.00	0.991	0.95	+/- 10%
Arsenic	CCV8011310P	1.00	0.966	3.4	+/- 10%
Chromium	CCV8011310P	1.00	1.01	-0.60	+/- 10%
Copper	CCV8011310P	1.00	0.989	1.1	+/- 10%
Lead	CCV8011310P	10.0	10.1	-1.2	+/- 10%
Mercury	CCV8011310Y	0.00500	0.00519	-3.7	+/- 20%
Nickel	CCV8011310P	1.00	1.03	-3.4	+/- 10%
Zinc	CCV8011310P	1.00	1.05	-4.6	+/- 10%
Antimony	CCV9011310P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV9011310P	1.00	0.987	1.3	+/- 10%
Chromium	CCV9011310P	1.00	1.01	-0.86	+/- 10%
Copper	CCV9011310P	1.00	0.988	1.2	+/- 10%
Lead	CCV9011310P	10.0	10.1	-1.3	+/- 10%
Nickel	CCV9011310P	1.00	1.02	-2.2	+/- 10%
Zinc	CCV9011310P	1.00	1.03	-2.9	+/- 10%
Antimony	CCV10011310P	1.00	0.999	0.065	+/- 10%
Arsenic	CCV10011310P	1.00	0.975	2.5	+/- 10%
Chromium	CCV10011310P	1.00	1.00	0	+/- 10%
Copper	CCV10011310P	1.00	0.983	1.7	+/- 10%
Lead	CCV10011310P	10.0	10.1	-1.1	+/- 10%
Nickel	CCV10011310P	1.00	1.02	-2.1	+/- 10%
Zinc	CCV10011310P	1.00	1.04	-3.7	+/- 10%
Antimony	CCV11011310P	1.00	1.01	-0.50	+/- 10%
Antimony	CCV12011310P	1.00	1.02	-2.4	+/- 10%
Antimony	CCV13011310P	1.00	0.966	3.4	+/- 10%

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-61					
Client ID:	**KCP4-SO83-B-100108**					
Antimony	**ND**	5.6	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**29**	0.56	6010B	1-14-10	1-14-10	
Copper	**22**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.6	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**40**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-14-10	
Zinc	**41**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-052-62					
Client ID:	**KCP4-SO84-B-100108**					
Antimony	**ND**	5.5	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**25**	0.55	6010B	1-14-10	1-14-10	
Copper	**26**	1.1	6010B	1-14-10	1-14-10	
Lead	**9.1**	5.5	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**35**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-14-10	
Zinc	**51**	2.7	6010B	1-14-10	1-14-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-63					
Client ID:	**KCP4-SO85-B-100108**					
Antimony	**ND**	5.4	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**20**	0.54	6010B	1-14-10	1-14-10	
Copper	**19**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.4	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**33**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-14-10	
Zinc	**27**	2.7	6010B	1-14-10	1-14-10	
Lab ID:	01-052-64					
Client ID:	**KCP4-SO86-B-100108**					
Antimony	**ND**	5.6	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**17**	0.56	6010B	1-14-10	1-14-10	
Copper	**19**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.6	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**32**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-14-10	
Zinc	**30**	2.8	6010B	1-14-10	1-14-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-65					
Client ID:	**KCP4-SO87-B-100108**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**42**	0.57	6010B	1-14-10	1-14-10	
Copper	**16**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**63**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-14-10	
Zinc	**31**	2.9	6010B	1-14-10	1-14-10	
Lab ID:	01-052-66					
Client ID:	**KCP4-SO88-B-100108**					
Antimony	**ND**	5.4	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**50**	0.54	6010B	1-14-10	1-14-10	
Copper	**27**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.4	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**34**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-14-10	
Zinc	**45**	2.7	6010B	1-14-10	1-14-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-67					
Client ID:	**KCP4-SO89-B-100108**					
Antimony	**ND**	5.6	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**100**	0.56	6010B	1-14-10	1-14-10	
Copper	**24**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.6	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**41**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-14-10	
Zinc	**38**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-052-68					
Client ID:	**KCP4-SO90-B-100108**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**26**	0.57	6010B	1-14-10	1-14-10	
Copper	**37**	1.1	6010B	1-14-10	1-14-10	
Lead	**6.7**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**54**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-14-10	
Zinc	**120**	2.8	6010B	1-14-10	1-14-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-69					
Client ID:	**KCP4-SO91-B-100108**					
Antimony	**ND**	5.5	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**58**	0.55	6010B	1-14-10	1-14-10	
Copper	**21**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.5	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**38**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-14-10	
Zinc	**32**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-052-70					
Client ID:	**KCP4-SO92-B-100108**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**26**	0.57	6010B	1-14-10	1-14-10	
Copper	**16**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**32**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-14-10	
Zinc	**24**	2.9	6010B	1-14-10	1-14-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-71					
Client ID:	**KCP4-SO93-B-100108**					
Antimony	**ND**	5.4	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**21**	0.54	6010B	1-14-10	1-14-10	
Copper	**18**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.4	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**34**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-14-10	
Zinc	**25**	2.7	6010B	1-14-10	1-14-10	
Lab ID:	01-052-72					
Client ID:	**KCP4-SO94-B-100108**					
Antimony	**ND**	5.8	6010B	1-14-10	1-14-10	
Arsenic	**ND**	12	6010B	1-14-10	1-14-10	
Chromium	**26**	0.58	6010B	1-14-10	1-14-10	
Copper	**21**	1.2	6010B	1-14-10	1-14-10	
Lead	**ND**	5.8	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**37**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-14-10	
Zinc	**31**	2.9	6010B	1-14-10	1-14-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-73					
Client ID:	**KCP4-SO32D-S-100108**					
Antimony	**6.0**	5.3	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**42**	0.53	6010B	1-14-10	1-14-10	
Copper	**59**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.3	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.26	7471A	1-13-10	1-13-10	
Nickel	**28**	2.6	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.6	6020	1-14-10	1-14-10	
Zinc	**90**	2.6	6010B	1-14-10	1-14-10	
Lab ID:	01-052-74					
Client ID:	**KCP4-SO42D-S-100108**					
Antimony	**ND**	5.2	6010B	1-14-10	1-14-10	
Arsenic	**ND**	10	6010B	1-14-10	1-14-10	
Chromium	**39**	0.52	6010B	1-14-10	1-14-10	
Copper	**65**	1.0	6010B	1-14-10	1-14-10	
Lead	**6.4**	5.2	6010B	1-14-10	1-14-10	
Mercury	**0.42**	0.26	7471A	1-13-10	1-13-10	
Nickel	**32**	2.6	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.6	6020	1-14-10	1-14-10	
Zinc	**89**	2.6	6010B	1-14-10	1-14-10	

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Samples Submitted: January 11, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-75					
Client ID:	**KCP4-SO52D-S-100108**					
Antimony	**ND**	5.3	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**42**	0.53	6010B	1-14-10	1-14-10	
Copper	**46**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.3	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**23**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-14-10	
Zinc	**91**	2.7	6010B	1-14-10	1-14-10	
Lab ID:	01-052-76					
Client ID:	**KCP4-SO62D-B-100108**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**27**	0.57	6010B	1-14-10	1-14-10	
Copper	**19**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**54**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-14-10	
Zinc	**31**	2.9	6010B	1-14-10	1-14-10	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-77					
Client ID:	**KCP4-SO72D-B-100108**					
Antimony	**ND**	5.5	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**24**	0.55	6010B	1-14-10	1-14-10	
Copper	**28**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.5	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**43**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-14-10	
Zinc	**31**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-052-78					
Client ID:	**KCP4-SO82D-B-100108**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**25**	0.57	6010B	1-14-10	1-14-10	
Copper	**18**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**47**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-14-10	
Zinc	**30**	2.8	6010B	1-14-10	1-14-10	

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Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-052-79					
Client ID:	**KCP4-SO92D-B-100108**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**34**	0.57	6010B	1-14-10	1-14-10	
Copper	**18**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-13-10	1-13-10	
Nickel	**38**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-14-10	
Zinc	**30**	2.9	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-13&14-10
Date Analyzed: 1-13&14-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0113S6,MB0114S1&MB0114S4

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 1-13&14-10
Date Analyzed: 1-13&14-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-65

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**37.2**	**30.1**	21	0.50	K
Copper	**14.2**	**13.7**	4	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**55.3**	**61.9**	11	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**26.8**	**27.7**	3	2.5	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 1-13&14-10
Date Analyzed: 1-13&14-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-052-65

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**96.7**	97	**97.7**	98	1	
Arsenic	100	**97.8**	98	**99.5**	99	2	
Chromium	100	**127**	90	**122**	85	4	
Copper	50	**63.4**	98	**64.3**	100	1	
Lead	250	**235**	94	**240**	96	2	
Mercury	0.50	**0.507**	101	**0.511**	102	1	
Nickel	100	**155**	100	**156**	101	0	
Thallium	50	**54.3**	109	**52.8**	106	3	
Zinc	100	**122**	96	**124**	97	1	

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 1-13&14-10
Date Analyzed: 1-13&14-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0113S6,SB0114S1&SB0114S4

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**98.9**	99
Arsenic	6010B	100	**95.8**	96
Chromium	6010B	100	**104**	104
Copper	6010B	50	**50.9**	102
Lead	6010B	250	**232**	93
Mercury	7471A	0.50	**0.506**	101
Nickel	6010B	100	**98.3**	98
Thallium	6020	50	**50.1**	100
Zinc	6010B	100	**98.2**	98

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1011410P	1.00	1.02	-1.6	+/- 10%
Arsenic	ICV1011410P	1.00	1.02	-1.9	+/- 10%
Chromium	ICV1011410P	1.00	1.02	-1.6	+/- 10%
Copper	ICV1011410P	1.00	0.997	0.31	+/- 10%
Lead	ICV1011410P	1.00	1.01	-1.2	+/- 10%
Mercury	ICV1011310Y	0.00500	0.00531	-6.3	+/- 10%
Nickel	ICV1011410P	1.00	1.02	-2.5	+/- 10%
Thallium	ICV1011410E	0.0500	0.0512	-2.4	+/- 10%
Zinc	ICV1011410P	1.00	1.01	-1.2	+/- 10%
Antimony	CCV1011410P	1.00	1.00	0	+/- 10%
Arsenic	CCV1011410P	1.00	0.975	2.5	+/- 10%
Chromium	CCV1011410P	1.00	1.00	0	+/- 10%
Copper	CCV1011410P	1.00	0.995	0.48	+/- 10%
Lead	CCV1011410P	10.0	9.85	1.5	+/- 10%
Mercury	CCV1011310Y	0.00500	0.00513	-2.5	+/- 20%
Nickel	CCV1011410P	1.00	1.01	-1.2	+/- 10%
Thallium	CCV1011410E	0.0400	0.0406	-1.4	+/- 10%
Zinc	CCV1011410P	1.00	1.00	0	+/- 10%
Antimony	CCV2011410P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV2011410P	1.00	0.993	0.67	+/- 10%
Chromium	CCV2011410P	1.00	1.00	0	+/- 10%
Copper	CCV2011410P	1.00	0.993	0.72	+/- 10%
Lead	CCV2011410P	10.0	9.82	1.8	+/- 10%
Mercury	CCV2011310Y	0.00500	0.00511	-2.1	+/- 20%
Nickel	CCV2011410P	1.00	0.988	1.2	+/- 10%
Thallium	CCV2011410E	0.0400	0.0403	-0.69	+/- 10%
Zinc	CCV2011410P	1.00	0.997	0.32	+/- 10%
Antimony	CCV3011410P	1.00	1.02	-2.1	+/- 10%
Arsenic	CCV3011410P	1.00	0.988	1.2	+/- 10%
Chromium	CCV3011410P	1.00	1.03	-2.7	+/- 10%
Copper	CCV3011410P	1.00	1.00	0	+/- 10%
Lead	CCV3011410P	10.0	9.97	0.30	+/- 10%
Mercury	CCV3011310Y	0.00500	0.00510	-2.0	+/- 20%
Nickel	CCV3011410P	1.00	1.02	-1.6	+/- 10%
Thallium	CCV3011410E	0.0400	0.0388	3.1	+/- 10%
Zinc	CCV3011410P	1.00	1.00	0	+/- 10%

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4011410P	1.00	1.03	-3.2	+/- 10%
Arsenic	CCV4011410P	1.00	0.992	0.83	+/- 10%
Chromium	CCV4011410P	1.00	1.05	-4.6	+/- 10%
Copper	CCV4011410P	1.00	1.00	0	+/- 10%
Lead	CCV4011410P	10.0	10.0	0	+/- 10%
Mercury	CCV4011310Y	0.00500	0.00520	-3.9	+/- 20%
Nickel	CCV4011410P	1.00	1.02	-2.2	+/- 10%
Thallium	CCV4011410E	0.0400	0.0418	-4.5	+/- 10%
Zinc	CCV4011410P	1.00	1.00	0	+/- 10%
Antimony	CCV5011410P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV5011410P	1.00	0.974	2.6	+/- 10%
Chromium	CCV5011410P	1.00	1.03	-3.1	+/- 10%
Copper	CCV5011410P	1.00	0.986	1.4	+/- 10%
Lead	CCV5011410P	10.0	9.89	1.1	+/- 10%
Mercury	CCV5011310Y	0.00500	0.00516	-3.2	+/- 20%
Nickel	CCV5011410P	1.00	1.01	-0.68	+/- 10%
Zinc	CCV5011410P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV6011410P	1.00	0.985	1.5	+/- 10%
Copper	CCV6011410P	1.00	0.983	1.7	+/- 10%
Lead	CCV6011410P	10.0	9.83	1.7	+/- 10%
Mercury	CCV6011310Y	0.00500	0.00527	-5.5	+/- 20%
Nickel	CCV6011410P	1.00	1.00	0	+/- 10%
Zinc	CCV6011410P	1.00	1.00	0	+/- 10%
Arsenic	CCV7011410P	1.00	1.00	0	+/- 10%
Copper	CCV7011410P	1.00	0.984	1.6	+/- 10%
Lead	CCV7011410P	10.0	9.86	1.4	+/- 10%
Mercury	CCV7011310Y	0.00500	0.00520	-3.9	+/- 20%
Nickel	CCV7011410P	1.00	1.00	0	+/- 10%
Zinc	CCV7011410P	1.00	0.995	0.46	+/- 10%
Arsenic	CCV8011410P	1.00	0.958	4.2	+/- 10%
Copper	CCV8011410P	1.00	0.977	2.3	+/- 10%
Lead	CCV8011410P	10.0	9.87	1.3	+/- 10%
Mercury	CCV8011310Y	0.00500	0.00519	-3.7	+/- 20%
Nickel	CCV8011410P	1.00	1.01	-0.74	+/- 10%
Zinc	CCV8011410P	1.00	0.990	1.0	+/- 10%

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Mercury	CCV9011310Y	0.00500	0.00527	-5.5	+/- 20%
Mercury	CCV10011310Y	0.00500	0.00525	-4.9	+/- 20%
Mercury	CCV11011310Y	0.00500	0.00525	-5.0	+/- 20%

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

% MOISTURE

Date Analyzed: 1-12-10

Client ID	Lab ID	% Moisture
KCP4-SO23-S-100108	01-052-01	6
KCP4-SO24-S-100108	01-052-02	6
KCP4-SO25-S-100108	01-052-03	6
KCP4-SO26-S-100108	01-052-04	4
KCP4-SO27-S-100108	01-052-05	5
KCP4-SO28-S-100108	01-052-06	6
KCP4-SO29-S-100108	01-052-07	5
KCP4-SO30-S-100108	01-052-08	6
KCP4-SO31-S-100108	01-052-09	5
KCP4-SO32-S-100108	01-052-10	5
KCP4-SO33-S-100108	01-052-11	23
KCP4-SO34-S-100108	01-052-12	15
KCP4-SO35-S-100108	01-052-13	14
KCP4-SO36-S-100108	01-052-14	8
KCP4-SO37-S-100108	01-052-15	9
KCP4-SO38-S-100108	01-052-16	7
KCP4-SO39-S-100108	01-052-17	8
KCP4-SO40-S-100108	01-052-18	9
KCP4-SO41-S-100108	01-052-19	6
KCP4-SO42-S-100108	01-052-20	6
KCP4-SO43-S-100108	01-052-21	6
KCP4-SO44-S-100108	01-052-22	5
KCP4-SO45-S-100108	01-052-23	3
KCP4-SO46-S-100108	01-052-24	6
KCP4-SO47-S-100108	01-052-25	4
KCP4-SO48-S-100108	01-052-26	7
KCP4-SO49-S-100108	01-052-27	13

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

% MOISTURE

Date Analyzed: 1-12-10

Client ID	Lab ID	% Moisture
KCP4-SO50-S-100108	01-052-28	5
KCP4-SO51-S-100108	01-052-29	6
KCP4-SO52-S-100108	01-052-30	6
KCP4-SO53-B-100108	01-052-31	12
KCP4-SO54-B-100108	01-052-32	9
KCP4-SO55-B-100108	01-052-33	11
KCP4-SO56-B-100108	01-052-34	9
KCP4-SO57-B-100108	01-052-35	7
KCP4-SO58-B-100108	01-052-36	15
KCP4-SO59-B-100108	01-052-37	11
KCP4-SO60-B-100108	01-052-38	10
KCP4-SO61-B-100108	01-052-39	10
KCP4-SO62-B-100108	01-052-40	11
KCP4-SO63-B-100108	01-052-41	9
KCP4-SO64-B-100108	01-052-42	10
KCP4-SO65-B-100108	01-052-43	9
KCP4-SO66-B-100108	01-052-44	8
KCP4-SO67-B-100108	01-052-45	14
KCP4-SO68-B-100108	01-052-46	13
KCP4-SO69-B-100108	01-052-47	10
KCP4-SO70-B-100108	01-052-48	12
KCP4-SO71-B-100108	01-052-49	10
KCP4-SO72-B-100108	01-052-50	9
KCP4-SO73-B-100108	01-052-51	10
KCP4-SO74-B-100108	01-052-52	12
KCP4-SO75-B-100108	01-052-53	10
KCP4-SO76-B-100108	01-052-54	14

Date of Report: January 15, 2010
Samples Submitted: January 11, 2010
Laboratory Reference: 1001-052
Project: 000105-01

% MOISTURE

Date Analyzed: 1-12-10

Client ID	Lab ID	% Moisture
KCP4-SO77-B-100108	01-052-55	10
KCP4-SO78-B-100108	01-052-56	8
KCP4-SO79-B-100108	01-052-57	8
KCP4-SO80-B-100108	01-052-58	13
KCP4-SO81-B-100108	01-052-59	10
KCP4-SO82-B-100108	01-052-60	11
KCP4-SO83-B-100108	01-052-61	11
KCP4-SO84-B-100108	01-052-62	9
KCP4-SO85-B-100108	01-052-63	8
KCP4-SO86-B-100108	01-052-64	11
KCP4-SO87-B-100108	01-052-65	12
KCP4-SO88-B-100108	01-052-66	7
KCP4-SO89-B-100108	01-052-67	11
KCP4-SO90-B-100108	01-052-68	12
KCP4-SO91-B-100108	01-052-69	10
KCP4-SO92-B-100108	01-052-70	13
KCP4-SO93-B-100108	01-052-71	7
KCP4-SO94-B-100108	01-052-72	14
KCP4-SO32D-S-100108	01-052-73	5
KCP4-SO42D-S-100108	01-052-74	4
KCP4-SO52D-S-100108	01-052-75	6
KCP4-SO62D-B-100108	01-052-76	13
KCP4-SO72D-B-100108	01-052-77	10
KCP4-SO82D-B-100108	01-052-78	12
KCP4-SO92D-B-100108	01-052-79	13

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

01-052

ANCHOR QEA

Date: Jan 11, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Total Metals	Test Parameters: % Moisture	Comments/Preservation
1	KCP4-SO23-S-1001 08	08Jan2010 / 1035	SO	1	x	x	2 DAY TAT
2	KCP4-SO24-S-1001 08	08Jan2010 / 1038	SO	1	x	x	
3	KCP4-SO25-S-1001 08	08Jan2010 / 1040	SO	1	x	x	
4	KCP4-SO26-S-1001 08	08Jan2010 / 1042	SO	1	x	x	
5	KCP4-SO27-S-1001 08	08Jan2010 / 1045	SO	1	x	x	
6	KCP4-SO28-S-1001 08	08Jan2010 / 1048	SO	1	x	x	
7	KCP4-SO29-S-1001 08	08Jan2010 / 1050	SO	1	x	x	
8	KCP4-SO30-S-1001 08	08Jan2010 / 1053	SO	1	x	x	
9	KCP4-SO31-S-1001 08	08Jan2010 / 1054	SO	1	x	x	
10	KCP4-SO32-S-1001 08	08Jan2010 / 1055	SO	1	x	x	
11	KCP4-SO33-S-1001 08	08Jan2010 / 1057	SO	1	x	x	
12	KCP4-SO34-S-1001 08	08Jan2010 / 1100	SO	1	x	x	
13	KCP4-SO35-S-1001 08	08Jan2010 / 1105	SO	1	x	x	
14	KCP4-SO36-S-1001 08	08Jan2010 / 1109	SO	1	x	x	
15	KCP4-SO37-S-1001 08	08Jan2010 / 1112	SO	1	x	x	

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company: Anchor QEA, LLC
Liz Vonckx 1/11/10 1200	
Signature/Printed Name	Date/Time

Received By:	Company: OSE
M. Vonk	1/11/10 1200
Signature/Printed Name	Date/Time

Relinquished By:	Company:
Signature/Printed Name	Date/Time

Received By:	Company:
Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

01-052

ANCHOR QEA

Date: Jan 11, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Total Metals	% Moisture	Comments/Preservation
16 (1)	KCP4-SO38-S-100108	08Jan2010 / 1116	SO	1	x	x	2 DAY TAT
17 (2)	KCP4-SO39-S-100108	08Jan2010 / 1128	SO	1	x	x	
18 (3)	KCP4-SO40-S-100108	08Jan2010 / 1130	SO	1	x	x	
19 (4)	KCP4-SO41-S-100108	08Jan2010 / 1142	SO	1	x	x	
20 (5)	KCP4-SO42-S-100108	08Jan2010 / 1143	SO	1	x	x	
21 (6)	KCP4-SO43-S-100108	08Jan2010 / 1345	SO	1	x	x	
22 (7)	KCP4-SO44-S-100108	08Jan2010 / 1350	SO	1	x	x	
23 (8)	KCP4-SO45-S-100108	08Jan2010 / 1352	SO	1	x	x	
24 (9)	KCP4-SO46-S-100108	08Jan2010 / 1354	SO	1	x	x	
25 (10)	KCP4-SO47-S-100108	08Jan2010 / 1355	SO	1	x	x	
26 (11)	KCP4-SO48-S-100108	08Jan2010 / 1358	SO	1	x	x	
27 (12)	KCP4-SO49-S-100108	08Jan2010 / 1405	SO	1	x	x	
28 (13)	KCP4-SO50-S-100108	08Jan2010 / 1408	SO	1	x	x	
29 (14)	KCP4-SO51-S-100108	08Jan2010 / 1420	SO	1	x	x	
30 (15)	KCP4-SO52-S-100108	08Jan2010 / 1435	SO	1	x	x	

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company: Anchor QEA, LLC
Signature/Printed Name: [signature] Liz Vonckx	Date/Time: 1/11/10 1200

Received By:	Company: OSE
Signature/Printed Name: [signature] M. Vown	Date/Time: 1/11/10 1200

Relinquished By:	Company:
Signature/Printed Name	Date/Time

Received By:	Company:
Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

01-052

ANCHOR QEA

Date: Jan 11, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Total Metals	Test Parameters: % Moisture	Comments/Preservation
31	1 KCP4-SO53-B-100108	08Jan2010 / 1510	SO	1	x	x	
32	2 KCP4-SO54-B-100108	08Jan2010 / 1512	SO	1	x	x	
33	3 KCP4-SO55-B-100108	08Jan2010 / 1515	SO	1	x	x	
34	4 KCP4-SO56-B-100108	08Jan2010 / 1516	SO	1	x	x	
35	5 KCP4-SO57-B-100108	08Jan2010 / 1517	SO	1	x	x	
36	6 KCP4-SO58-B-100108	08Jan2010 / 1522	SO	1	x	x	
37	7 KCP4-SO59-B-100108	08Jan2010 / 1524	SO	1	x	x	
38	8 KCP4-SO60-B-100108	08Jan2010 / 1528	SO	1	x	x	
39	9 KCP4-SO61-B-100108	08Jan2010 / 1529	SO	1	x	x	
40	10 KCP4-SO62-B-100108	08Jan2010 / 1530	SO	1	x	x	
41	11 KCP4-SO63-B-100108	08Jan2010 / 1533	SO	1	x	x	
42	12 KCP4-SO64-B-100108	08Jan2010 / 1535	SO	1	x	x	
43	13 KCP4-SO65-B-100108	08Jan2010 / 1540	SO	1	x	x	
44	14 KCP4-SO66-B-100108	08Jan2010 / 1541	SO	1	x	x	
45	15 KCP4-SO67-B-100108	08Jan2010 / 1542	SO	1	x	x	

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company: Anchor QEA, LLC
Liz Vonckx / Liz Vonckx	1/11/10 1200
Signature/Printed Name	Date/Time

Received By:	Company: OSE
M. Vouw	1/11/10 1200
Signature/Printed Name	Date/Time

Relinquished By:	Company:
Signature/Printed Name	Date/Time

Received By:	Company:
Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

01-052

ANCHOR QEA

Date: Jan 11, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

	Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Total Metals	% Moisture	Comments/Preservation
46	1	KCP4-SO68-B-100108	08Jan2010 / 1543	SO	1	x	x	
47	2	KCP4-SO69-B-100108	08Jan2010 / 1545	SO	1	x	x	
48	3	KCP4-SO70-B-100108	08Jan2010 / 1546	SO	1	x	x	
49	4	KCP4-SO71-B-100108	08Jan2010 / 1547	SO	1	x	x	
50	5	KCP4-SO72-B-100108	08Jan2010 / 1548	SO	1	x	x	
51	6	KCP4-SO73-B-100108	08Jan2010 / 1553	SO	1	x	x	
52	7	KCP4-SO74-B-100108	08Jan2010 / 1554	SO	1	x	x	
53	8	KCP4-SO75-B-100108	08Jan2010 / 1555	SO	1	x	x	
54	9	KCP4-SO76-B-100108	08Jan2010 / 1557	SO	1	x	x	
55	10	KCP4-SO77-B-100108	08Jan2010 / 1559	SO	1	x	x	
56	11	KCP4-SO78-B-100108	08Jan2010 / 1600	SO	1	x	x	
57	12	KCP4-SO79-B-100108	08Jan2010 / 1602	SO	1	x	x	
58	13	KCP4-SO80-B-100108	08Jan2010 / 1605	SO	1	x	x	
59	14	KCP4-SO81-B-100108	08Jan2010 / 1606	SO	1	x	x	
60	15	KCP4-SO82-B-100108	08Jan2010 / 1608	SO	1	x	x	

Test Parameters

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By: [signature] Liz Vonckx
Company: Anchor QEA, LLC
Signature/Printed Name — Date/Time: 1/11/10 1200

Received By: [signature] M. Nouv
Company: OSE
Signature/Printed Name — Date/Time: 1/11/10 1200

Relinquished By:
Company:
Signature/Printed Name — Date/Time

Received By:
Company:
Signature/Printed Name — Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

01-052

ANCHOR QEA

Date: Jan 11, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Total Metals	Test Parameters: % Moisture	Comments/Preservation
61 1	KCP4-SO83-B-100108	08Jan2010 / 1612	SO	1	x	x	
62 2	KCP4-SO84-B-100108	08Jan2010 / 1613	SO	1	x	x	
63 3	KCP4-SO85-B-100108	08Jan2010 / 1615	SO	1	x	x	
64 4	KCP4-SO86-B-100108	08Jan2010 / 1620	SO	1	x	x	
65 5	KCP4-SO87-B-100108	08Jan2010 / 1622	SO	1	x	x	
66 6	KCP4-SO88-B-100108	08Jan2010 / 1624	SO	1	x	x	
67 7	KCP4-SO89-B-100108	08Jan2010 / 1625	SO	1	x	x	
68 8	KCP4-SO90-B-100108	08Jan2010 / 1632	SO	1	x	x	
69 9	KCP4-SO91-B-100108	08Jan2010 / 1635	SO	1	x	x	
70 10	KCP4-SO92-B-100108	08Jan2010 / 1636	SO	1	x	x	
71 11	KCP4-SO93-B-100108	08Jan2010 / 1642	SO	1	x	x	
72 12	KCP4-SO94-B-100108	08Jan2010 / 1647	SO	1	x	x	
~~13~~	~~KCP4-SO95-B-1001 11~~	~~08Jan2010 /~~	~~SO~~	~~1~~	~~x~~	~~x~~	
~~14~~	~~KCP4-SO96-B-1001 11~~	~~08Jan2010 /~~	~~SO~~	~~1~~	~~x~~	~~x~~	
~~15~~	~~KCP4-SO97-B-1001 11~~	~~08Jan2010 /~~	~~SO~~	~~1~~	~~x~~	~~x~~	

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company: Anchor QEA, LLC
Liz Vonckx 1/11/10 1200	
Signature/Printed Name	Date/Time

Received By:	Company: OSE
M Vow 1/11/10 1200	
Signature/Printed Name	Date/Time

Relinquished By:	Company:
Signature/Printed Name	Date/Time

Received By:	Company:
Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

01-052

ANCHOR QEA

Date: Jan 11, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Total Metals	Test Parameters: % Moisture	Comments/Preservation
73 1	KCP4-S032D-S-100108	08Jan2010/1056	SO	1	x	x	
74 2	KCP4-S042D-S-100108	08Jan2010/1144	SO	1	x	x	
75 3	KCP4-S052D-S-100108	08Jan2010/1436	SO	1	x	x	
76 4	KCP4-S062D-B-100108	08Jan2010/1531	SO	1	x	x	
77 5	KCP4-S072D-B-100108	08Jan2010/1549	SO	1	x	x	
78 6	KCP4-S082D-B-100108	08Jan2010/1609	SO	1	x	x	
79 7	KCP4-S092D-B-100108	08Jan2010/1637	SO	1	x	x	
80 8	KCP4-PB-100108	08Jan2010/1730	SO	1	x	x	HOLD RINSATE BLANK
9			SO	1	x	x	
10			SO	1	x	x	
11			SO	1	x	x	
12			SO	1	x	x	
13			SO	1	x	x	
14			SO	1	x	x	
15			SO	1	x	x	

KWV 1/11/10

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company: Anchor QEA, LLC
KWVonckx LIZ VONCKX	1/11/10 1200
Signature/Printed Name	Date/Time

Received By:	Company: OSE
M.VOUN	1/11/10
Signature/Printed Name	Date/Time

Relinquished By:	Company:
Signature/Printed Name	Date/Time

Received By:	Company:
Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01

OnSite Project Number: 01-052

Initiated by: MM

Date Initiated: 1/11/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 0.0, 2	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 18, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-1
Laboratory Reference No. 1001-068

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on January 12, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

Case Narrative

Samples were collected on January 11, 2010, and received by the laboratory on January 12, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals (soil) EPA 6010B/6020/7471A (samples 01-068-21 thru 27) Analysis

The duplicate RPD for Chromium is outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-21					
Client ID:	**KCP4-SO115-B-100111**					
Antimony	**93**	6.3	6010B	1-13-10	1-13-10	
Arsenic	**ND**	13	6010B	1-13-10	1-13-10	
Chromium	**23**	0.63	6010B	1-13-10	1-13-10	
Copper	**66**	1.3	6010B	1-13-10	1-13-10	
Lead	**2000**	6.3	6010B	1-13-10	1-13-10	
Mercury	**75**	31	7471A	1-13-10	1-13-10	
Nickel	**33**	3.1	6010B	1-13-10	1-13-10	
Thallium	**ND**	3.1	6020	1-13-10	1-13-10	
Zinc	**95**	3.1	6010B	1-13-10	1-13-10	
Lab ID:	01-068-22					
Client ID:	**KCP4-SO116-B-100111**					
Antimony	**110**	6.7	6010B	1-13-10	1-13-10	
Arsenic	**18**	13	6010B	1-13-10	1-13-10	
Chromium	**44**	0.67	6010B	1-13-10	1-13-10	
Copper	**120**	1.3	6010B	1-13-10	1-13-10	
Lead	**9700**	67	6010B	1-13-10	1-13-10	
Mercury	**2.1**	1.7	7471A	1-13-10	1-13-10	
Nickel	**41**	3.4	6010B	1-13-10	1-13-10	
Thallium	**ND**	3.4	6020	1-13-10	1-13-10	
Zinc	**210**	3.4	6010B	1-13-10	1-13-10	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-23					
Client ID:	**KCP4-SO117-B-100111**					
Antimony	**ND**	5.4	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**26**	0.54	6010B	1-13-10	1-13-10	
Copper	**57**	1.1	6010B	1-13-10	1-13-10	
Lead	**13**	5.4	6010B	1-13-10	1-13-10	
Mercury	**0.31**	0.27	7471A	1-13-10	1-13-10	
Nickel	**31**	2.7	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.7	6020	1-13-10	1-13-10	
Zinc	**77**	2.7	6010B	1-13-10	1-13-10	
Lab ID:	01-068-24					
Client ID:	**KCP4-SO118-B-100111**					
Antimony	**ND**	5.4	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**32**	0.54	6010B	1-13-10	1-13-10	
Copper	**62**	1.1	6010B	1-13-10	1-13-10	
Lead	**9.5**	5.4	6010B	1-13-10	1-13-10	
Mercury	**0.30**	0.27	7471A	1-13-10	1-13-10	
Nickel	**36**	2.7	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.7	6020	1-13-10	1-13-10	
Zinc	**85**	2.7	6010B	1-13-10	1-13-10	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-26					
Client ID:	**KCP4-SO102D-B-100111**					
Antimony	**ND**	5.4	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**23**	0.54	6010B	1-13-10	1-13-10	
Copper	**24**	1.1	6010B	1-13-10	1-13-10	
Lead	**5.9**	5.4	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.27	7471A	1-13-10	1-13-10	
Nickel	**32**	2.7	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.7	6020	1-13-10	1-13-10	
Zinc	**37**	2.7	6010B	1-13-10	1-13-10	
Lab ID:	01-068-27					
Client ID:	**KCP4-SO112D-B-100111**					
Antimony	**ND**	5.6	6010B	1-13-10	1-13-10	
Arsenic	**ND**	11	6010B	1-13-10	1-13-10	
Chromium	**23**	0.56	6010B	1-13-10	1-13-10	
Copper	**50**	1.1	6010B	1-13-10	1-13-10	
Lead	**10**	5.6	6010B	1-13-10	1-13-10	
Mercury	**ND**	0.28	7471A	1-13-10	1-13-10	
Nickel	**29**	2.8	6010B	1-13-10	1-13-10	
Thallium	**ND**	2.8	6020	1-13-10	1-13-10	
Zinc	**120**	2.8	6010B	1-13-10	1-13-10	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0113S1,MB0113S2&MB0113S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-068-26

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**21.3**	**15.5**	32	0.50	K
Copper	**21.9**	**22.1**	1	1.0	
Lead	**5.50**	**5.45**	1	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**29.7**	**26.2**	13	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**34.6**	**30.5**	12	2.5	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-068-26

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**92.5**	92	**91.0**	91	2	
Arsenic	100	**94.4**	94	**93.9**	94	1	
Chromium	100	**115**	93	**115**	93	0	
Copper	50	**73.3**	103	**71.5**	99	2	
Lead	250	**240**	94	**238**	93	1	
Mercury	0.50	**0.517**	103	**0.502**	100	3	
Nickel	100	**125**	95	**124**	95	0	
Thallium	50	**45.6**	91	**45.7**	91	0	
Zinc	100	**134**	99	**131**	97	2	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 1-13-10
Date Analyzed: 1-13-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0113S1,SB0113S2&SB0113S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**93.8**	94
Arsenic	6010B	100	**94.1**	94
Chromium	6010B	100	**97.4**	97
Copper	6010B	50	**50.5**	101
Lead	6010B	250	**237**	95
Mercury	7471A	0.50	**0.511**	102
Nickel	6010B	100	**96.9**	97
Thallium	6020	50	**48.9**	98
Zinc	6010B	100	**97.2**	97

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1011310P	1.00	0.966	3.4	+/- 10%
Arsenic	ICV1011310P	1.00	0.977	2.3	+/- 10%
Chromium	ICV1011310P	1.00	1.00	0	+/- 10%
Copper	ICV1011310P	1.00	0.999	0.13	+/- 10%
Lead	ICV1011310P	1.00	0.997	0.26	+/- 10%
Mercury	ICV1011310Y	0.00500	0.00531	-6.3	+/- 10%
Nickel	ICV1011310P	1.00	1.01	-0.83	+/- 10%
Thallium	ICV1011310E	0.0500	0.0495	1.0	+/- 10%
Zinc	ICV1011310P	1.00	0.986	1.4	+/- 10%
Antimony	CCV1011310P	1.00	0.969	3.1	+/- 10%
Arsenic	CCV1011310P	1.00	0.981	1.9	+/- 10%
Chromium	CCV1011310P	1.00	0.977	2.3	+/- 10%
Copper	CCV1011310P	1.00	0.981	1.9	+/- 10%
Lead	CCV1011310P	10.0	9.60	4.0	+/- 10%
Mercury	CCV1011310Y	0.00500	0.00513	-2.5	+/- 20%
Nickel	CCV1011310P	1.00	0.977	2.3	+/- 10%
Thallium	CCV1011310E	0.0400	0.0403	-0.70	+/- 10%
Zinc	CCV1011310P	1.00	0.976	2.4	+/- 10%
Antimony	CCV2011310P	1.00	0.966	3.4	+/- 10%
Arsenic	CCV2011310P	1.00	0.958	4.2	+/- 10%
Chromium	CCV2011310P	1.00	0.989	1.1	+/- 10%
Copper	CCV2011310P	1.00	0.983	1.7	+/- 10%
Lead	CCV2011310P	10.0	9.77	2.3	+/- 10%
Mercury	CCV2011310Y	0.00500	0.00511	-2.1	+/- 20%
Nickel	CCV2011310P	1.00	0.989	1.1	+/- 10%
Thallium	CCV2011310E	0.0400	0.0400	0	+/- 10%
Zinc	CCV2011310P	1.00	0.987	1.3	+/- 10%
Antimony	CCV3011310P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV3011310P	1.00	0.961	3.9	+/- 10%
Chromium	CCV3011310P	1.00	0.995	0.49	+/- 10%
Copper	CCV3011310P	1.00	0.986	1.4	+/- 10%
Lead	CCV3011310P	10.0	9.83	1.7	+/- 10%
Mercury	CCV3011310Y	0.00500	0.00510	-2.0	+/- 20%
Nickel	CCV3011310P	1.00	0.986	1.4	+/- 10%
Thallium	CCV3011310E	0.0400	0.0389	2.9	+/- 10%
Zinc	CCV3011310P	1.00	0.988	1.2	+/- 10%

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4011310P	1.00	1.01	-1.2	+/- 10%
Arsenic	CCV4011310P	1.00	0.971	2.9	+/- 10%
Chromium	CCV4011310P	1.00	1.01	-0.90	+/- 10%
Copper	CCV4011310P	1.00	0.996	0.37	+/- 10%
Lead	CCV4011310P	10.0	9.95	0.50	+/- 10%
Mercury	CCV4011310Y	0.00500	0.00520	-3.9	+/- 20%
Nickel	CCV4011310P	1.00	1.02	-1.9	+/- 10%
Zinc	CCV4011310P	1.00	0.991	0.92	+/- 10%
Antimony	CCV5011310P	1.00	0.977	2.3	+/- 10%
Arsenic	CCV5011310P	1.00	0.980	2.0	+/- 10%
Chromium	CCV5011310P	1.00	1.01	-0.50	+/- 10%
Copper	CCV5011310P	1.00	0.997	0.31	+/- 10%
Lead	CCV5011310P	10.0	10.0	0	+/- 10%
Nickel	CCV5011310P	1.00	1.02	-1.9	+/- 10%
Zinc	CCV5011310P	1.00	0.994	0.62	+/- 10%
Antimony	CCV6011310P	1.00	0.990	1.0	+/- 10%
Arsenic	CCV6011310P	1.00	0.992	0.77	+/- 10%
Chromium	CCV6011310P	1.00	1.00	0	+/- 10%
Copper	CCV6011310P	1.00	0.992	0.75	+/- 10%
Lead	CCV6011310P	10.0	9.99	0.10	+/- 10%
Nickel	CCV6011310P	1.00	1.02	-1.6	+/- 10%
Zinc	CCV6011310P	1.00	0.989	1.1	+/- 10%
Antimony	CCV7011310P	1.00	0.996	0.37	+/- 10%
Lead	CCV7011310P	10.0	10.1	-1.4	+/- 10%

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-01					
Client ID:	**KCP4-SO98-B-100111**					
Antimony	**ND**	6.2	6010B	1-14-10	1-14-10	
Arsenic	**ND**	12	6010B	1-14-10	1-14-10	
Chromium	**41**	0.62	6010B	1-14-10	1-14-10	
Copper	**81**	1.2	6010B	1-14-10	1-14-10	
Lead	**90**	6.2	6010B	1-14-10	1-14-10	
Mercury	**0.43**	0.31	7471A	1-14-10	1-14-10	
Nickel	**53**	3.1	6010B	1-14-10	1-14-10	
Thallium	**ND**	3.1	6020	1-14-10	1-15-10	
Zinc	**130**	3.1	6010B	1-14-10	1-14-10	
Lab ID:	01-068-02					
Client ID:	**KCP4-SO99-B-100111**					
Antimony	**ND**	5.5	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**15**	0.55	6010B	1-14-10	1-14-10	
Copper	**17**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.5	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-14-10	1-14-10	
Nickel	**32**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-15-10	
Zinc	**26**	2.8	6010B	1-14-10	1-14-10	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-03					
Client ID:	**KCP4-SO100-B-100111**					
Antimony	**ND**	6.4	6010B	1-14-10	1-14-10	
Arsenic	**ND**	13	6010B	1-14-10	1-14-10	
Chromium	**15**	0.64	6010B	1-14-10	1-14-10	
Copper	**18**	1.3	6010B	1-14-10	1-14-10	
Lead	**22**	6.4	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.32	7471A	1-14-10	1-14-10	
Nickel	**8.3**	3.2	6010B	1-14-10	1-14-10	
Thallium	**ND**	3.2	6020	1-14-10	1-15-10	
Zinc	**59**	3.2	6010B	1-14-10	1-14-10	
Lab ID:	01-068-04					
Client ID:	**KCP4-SO101-B-100111**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**27**	0.57	6010B	1-14-10	1-14-10	
Copper	**29**	1.1	6010B	1-14-10	1-14-10	
Lead	**6.7**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-14-10	1-14-10	
Nickel	**42**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-15-10	
Zinc	**54**	2.8	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-05					
Client ID:	**KCP4-SO102-B-100111**					
Antimony	**ND**	5.5	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**19**	0.55	6010B	1-14-10	1-14-10	
Copper	**17**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.5	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-14-10	1-14-10	
Nickel	**27**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-15-10	
Zinc	**26**	2.7	6010B	1-14-10	1-14-10	
Lab ID:	01-068-06					
Client ID:	**KCP4-SO103-B-100111**					
Antimony	**ND**	5.3	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**16**	0.53	6010B	1-14-10	1-14-10	
Copper	**33**	1.1	6010B	1-14-10	1-14-10	
Lead	**14**	5.3	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.26	7471A	1-14-10	1-14-10	
Nickel	**19**	2.6	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.6	6020	1-14-10	1-15-10	
Zinc	**49**	2.6	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-07					
Client ID:	**KCP4-SO104-B-100111**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**21**	0.57	6010B	1-14-10	1-14-10	
Copper	**15**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-14-10	1-14-10	
Nickel	**28**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-15-10	
Zinc	**38**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-068-08					
Client ID:	**KCP4-SO105-B-100111**					
Antimony	**ND**	5.8	6010B	1-14-10	1-14-10	
Arsenic	**ND**	12	6010B	1-14-10	1-14-10	
Chromium	**27**	0.58	6010B	1-14-10	1-14-10	
Copper	**50**	1.2	6010B	1-14-10	1-14-10	
Lead	**7.5**	5.8	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-14-10	1-14-10	
Nickel	**30**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-15-10	
Zinc	**70**	2.9	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-09					
Client ID:	**KCP4-SO106-B-100111**					
Antimony	**ND**	5.6	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**29**	0.56	6010B	1-14-10	1-14-10	
Copper	**47**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.6	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-14-10	1-14-10	
Nickel	**29**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-15-10	
Zinc	**64**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-068-10					
Client ID:	**KCP4-SO107-B-100111**					
Antimony	**ND**	5.3	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**21**	0.53	6010B	1-14-10	1-14-10	
Copper	**26**	1.1	6010B	1-14-10	1-14-10	
Lead	**14**	5.3	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-14-10	1-14-10	
Nickel	**30**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-15-10	
Zinc	**41**	2.7	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-11					
Client ID:	**KCP4-SO108-B-100111**					
Antimony	**ND**	5.9	6010B	1-14-10	1-14-10	
Arsenic	**ND**	12	6010B	1-14-10	1-14-10	
Chromium	**21**	0.59	6010B	1-14-10	1-14-10	
Copper	**22**	1.2	6010B	1-14-10	1-14-10	
Lead	**130**	5.9	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-14-10	1-14-10	
Nickel	**38**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-15-10	
Zinc	**27**	2.9	6010B	1-14-10	1-14-10	
Lab ID:	01-068-12					
Client ID:	**KCP4-SO109-B-100111**					
Antimony	**ND**	5.9	6010B	1-14-10	1-14-10	
Arsenic	**ND**	12	6010B	1-14-10	1-14-10	
Chromium	**27**	0.59	6010B	1-14-10	1-14-10	
Copper	**27**	1.2	6010B	1-14-10	1-14-10	
Lead	**12**	5.9	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-14-10	1-14-10	
Nickel	**31**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-15-10	
Zinc	**500**	2.9	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-13					
Client ID:	**KCP4-SO110-B-100111**					
Antimony	**ND**	5.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**20**	0.57	6010B	1-14-10	1-14-10	
Copper	**29**	1.1	6010B	1-14-10	1-14-10	
Lead	**21**	5.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.29	7471A	1-14-10	1-14-10	
Nickel	**32**	2.9	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.9	6020	1-14-10	1-15-10	
Zinc	**41**	2.9	6010B	1-14-10	1-14-10	
Lab ID:	01-068-14					
Client ID:	**KCP4-SO111-B-100111**					
Antimony	**ND**	5.3	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**20**	0.53	6010B	1-14-10	1-14-10	
Copper	**21**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.3	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-14-10	1-14-10	
Nickel	**33**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-15-10	
Zinc	**49**	2.7	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-15					
Client ID:	**KCP4-SO112-B-100111**					
Antimony	**ND**	5.6	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**25**	0.56	6010B	1-14-10	1-14-10	
Copper	**73**	1.1	6010B	1-14-10	1-14-10	
Lead	**6.3**	5.6	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-14-10	1-14-10	
Nickel	**27**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-15-10	
Zinc	**210**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-068-16					
Client ID:	**KCP4-SO95-B-100111**					
Antimony	**ND**	5.6	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**18**	0.56	6010B	1-14-10	1-14-10	
Copper	**19**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.6	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-14-10	1-14-10	
Nickel	**32**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-15-10	
Zinc	**27**	2.8	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-17					
Client ID:	**KCP4-SO96-B-100111**					
Antimony	**ND**	5.6	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**14**	0.56	6010B	1-14-10	1-14-10	
Copper	**15**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.6	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.28	7471A	1-14-10	1-14-10	
Nickel	**29**	2.8	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.8	6020	1-14-10	1-15-10	
Zinc	**20**	2.8	6010B	1-14-10	1-14-10	
Lab ID:	01-068-18					
Client ID:	**KCP4-SO97-B100111**					
Antimony	**ND**	5.5	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**15**	0.55	6010B	1-14-10	1-14-10	
Copper	**16**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.5	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-14-10	1-14-10	
Nickel	**27**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-15-10	
Zinc	**21**	2.7	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-19					
Client ID:	**KCP4-SO113-B-100111**					
Antimony	**ND**	5.4	6010B	1-14-10	1-14-10	
Arsenic	**ND**	11	6010B	1-14-10	1-14-10	
Chromium	**23**	0.54	6010B	1-14-10	1-14-10	
Copper	**40**	1.1	6010B	1-14-10	1-14-10	
Lead	**ND**	5.4	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.27	7471A	1-14-10	1-14-10	
Nickel	**26**	2.7	6010B	1-14-10	1-14-10	
Thallium	**ND**	2.7	6020	1-14-10	1-15-10	
Zinc	**68**	2.7	6010B	1-14-10	1-14-10	
Lab ID:	01-068-20					
Client ID:	**KCP4-SO114-B-100111**					
Antimony	**ND**	6.7	6010B	1-14-10	1-14-10	
Arsenic	**ND**	13	6010B	1-14-10	1-14-10	
Chromium	**34**	0.67	6010B	1-14-10	1-14-10	
Copper	**61**	1.3	6010B	1-14-10	1-14-10	
Lead	**34**	6.7	6010B	1-14-10	1-14-10	
Mercury	**ND**	0.33	7471A	1-14-10	1-14-10	
Nickel	**38**	3.3	6010B	1-14-10	1-14-10	
Thallium	**ND**	3.3	6020	1-14-10	1-15-10	
Zinc	**100**	3.3	6010B	1-14-10	1-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-14-10
Date Analyzed: 1-14&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0114S1,MB0114S5&MB0114S6

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 1-14-10
Date Analyzed: 1-14&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-068-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**19.3**	**19.4**	0	0.50	
Copper	**24.7**	**26.4**	7	1.0	
Lead	**12.7**	**12.6**	1	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**28.0**	**29.0**	4	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**38.3**	**41.7**	9	2.5	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 1-14-10
Date Analyzed: 1-14&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-068-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**93.4**	93	**96.9**	97	4	
Arsenic	100	**96.3**	96	**94.5**	95	2	
Chromium	100	**119**	99	**113**	94	5	
Copper	50	**78.2**	107	**74.1**	99	5	
Lead	250	**243**	92	**240**	91	2	
Mercury	0.50	**0.496**	99	**0.496**	99	0	
Nickel	100	**121**	93	**118**	90	2	
Thallium	50	**50.1**	100	**49.0**	98	2	
Zinc	100	**132**	94	**132**	94	0	

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Samples Submitted: January 12, 2010
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Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 1-14-10
Date Analyzed: 1-14&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0114S1,SB0114S5&SB0114S6

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**98.1**	98
Arsenic	6010B	100	**91.5**	92
Chromium	6010B	100	**100**	100
Copper	6010B	50	**50.2**	100
Lead	6010B	250	**225**	90
Mercury	7471A	0.50	**0.499**	100
Nickel	6010B	100	**94.5**	94
Thallium	6020	50	**50.4**	101
Zinc	6010B	100	**95.5**	96

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1011410P	1.00	1.02	-1.6	+/- 10%
Arsenic	ICV1011410P	1.00	1.02	-1.9	+/- 10%
Chromium	ICV1011410P	1.00	1.02	-1.6	+/- 10%
Copper	ICV1011410P	1.00	0.997	0.31	+/- 10%
Lead	ICV1011410P	1.00	1.01	-1.2	+/- 10%
Mercury	ICV1011410Y	0.00500	0.00524	-4.7	+/- 10%
Nickel	ICV1011410P	1.00	1.02	-2.5	+/- 10%
Thallium	ICV1011510E	0.0500	0.0487	2.5	+/- 10%
Zinc	ICV1011410P	1.00	1.01	-1.2	+/- 10%
Antimony	CCV1011410P	1.00	1.00	0	+/- 10%
Arsenic	CCV1011410P	1.00	0.975	2.5	+/- 10%
Chromium	CCV1011410P	1.00	1.00	0	+/- 10%
Copper	CCV1011410P	1.00	0.995	0.48	+/- 10%
Lead	CCV1011410P	10.0	9.85	1.5	+/- 10%
Mercury	CCV1011410Y	0.00500	0.00519	-3.9	+/- 20%
Nickel	CCV1011410P	1.00	1.01	-1.2	+/- 10%
Thallium	CCV1011510E	0.0400	0.0410	-2.4	+/- 10%
Zinc	CCV1011410P	1.00	1.00	0	+/- 10%
Antimony	CCV2011410P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV2011410P	1.00	0.993	0.67	+/- 10%
Chromium	CCV2011410P	1.00	1.00	0	+/- 10%
Copper	CCV2011410P	1.00	0.993	0.72	+/- 10%
Lead	CCV2011410P	10.0	9.82	1.8	+/- 10%
Mercury	CCV2011410Y	0.00500	0.00522	-4.4	+/- 20%
Nickel	CCV2011410P	1.00	0.988	1.2	+/- 10%
Thallium	CCV2011510E	0.0400	0.0401	-0.28	+/- 10%
Zinc	CCV2011410P	1.00	0.997	0.32	+/- 10%
Antimony	CCV3011410P	1.00	1.02	-2.1	+/- 10%
Arsenic	CCV3011410P	1.00	0.988	1.2	+/- 10%
Chromium	CCV3011410P	1.00	1.03	-2.7	+/- 10%
Copper	CCV3011410P	1.00	1.00	0	+/- 10%
Lead	CCV3011410P	10.0	9.97	0.30	+/- 10%
Mercury	CCV3011410Y	0.00500	0.00524	-4.8	+/- 20%
Nickel	CCV3011410P	1.00	1.02	-1.6	+/- 10%
Thallium	CCV3011510E	0.0400	0.0401	-0.23	+/- 10%
Zinc	CCV3011410P	1.00	1.00	0	+/- 10%

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4011410P	1.00	1.03	-3.2	+/- 10%
Arsenic	CCV4011410P	1.00	0.992	0.83	+/- 10%
Chromium	CCV4011410P	1.00	1.05	-4.6	+/- 10%
Copper	CCV4011410P	1.00	1.00	0	+/- 10%
Lead	CCV4011410P	10.0	10.0	0	+/- 10%
Mercury	CCV4011410Y	0.00500	0.00524	-4.8	+/- 20%
Nickel	CCV4011410P	1.00	1.02	-2.2	+/- 10%
Thallium	CCV4011510E	0.0400	0.0417	-4.1	+/- 10%
Zinc	CCV4011410P	1.00	1.00	0	+/- 10%
Antimony	CCV5011410P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV5011410P	1.00	0.974	2.6	+/- 10%
Chromium	CCV5011410P	1.00	1.03	-3.1	+/- 10%
Copper	CCV5011410P	1.00	0.986	1.4	+/- 10%
Lead	CCV5011410P	10.0	9.89	1.1	+/- 10%
Nickel	CCV5011410P	1.00	1.01	-0.68	+/- 10%
Zinc	CCV5011410P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV6011410P	1.00	1.00	0	+/- 10%
Arsenic	CCV6011410P	1.00	0.985	1.5	+/- 10%
Chromium	CCV6011410P	1.00	1.03	-2.8	+/- 10%
Copper	CCV6011410P	1.00	0.983	1.7	+/- 10%
Lead	CCV6011410P	10.0	9.83	1.7	+/- 10%
Nickel	CCV6011410P	1.00	1.00	0	+/- 10%
Zinc	CCV6011410P	1.00	1.00	0	+/- 10%
Antimony	CCV7011410P	1.00	0.978	2.2	+/- 10%
Arsenic	CCV7011410P	1.00	1.00	0	+/- 10%
Chromium	CCV7011410P	1.00	1.03	-2.8	+/- 10%
Copper	CCV7011410P	1.00	0.984	1.6	+/- 10%
Lead	CCV7011410P	10.0	9.86	1.4	+/- 10%
Nickel	CCV7011410P	1.00	1.00	0	+/- 10%
Zinc	CCV7011410P	1.00	0.995	0.46	+/- 10%
Antimony	CCV8011410P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV8011410P	1.00	0.958	4.2	+/- 10%
Chromium	CCV8011410P	1.00	1.04	-4.1	+/- 10%
Copper	CCV8011410P	1.00	0.977	2.3	+/- 10%
Lead	CCV8011410P	10.0	9.87	1.3	+/- 10%
Nickel	CCV8011410P	1.00	1.01	-0.74	+/- 10%
Zinc	CCV8011410P	1.00	0.990	1.0	+/- 10%

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV9011410P	1.00	1.00	0	+/- 10%
Arsenic	CCV9011410P	1.00	0.956	4.4	+/- 10%
Chromium	CCV9011410P	1.00	1.03	-3.4	+/- 10%
Copper	CCV9011410P	1.00	0.975	2.5	+/- 10%
Lead	CCV9011410P	10.0	9.76	2.4	+/- 10%
Nickel	CCV9011410P	1.00	0.989	1.1	+/- 10%
Zinc	CCV9011410P	1.00	0.978	2.2	+/- 10%
Antimony	CCV10011410P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV10011410P	1.00	0.948	5.2	+/- 10%
Chromium	CCV10011410P	1.00	1.04	-4.0	+/- 10%
Copper	CCV10011410P	1.00	0.966	3.4	+/- 10%
Lead	CCV10011410P	10.0	9.73	2.7	+/- 10%
Nickel	CCV10011410P	1.00	0.981	1.9	+/- 10%
Zinc	CCV10011410P	1.00	0.988	1.2	+/- 10%
Antimony	CCV11011410P	1.00	0.995	0.47	+/- 10%
Arsenic	CCV11011410P	1.00	0.960	4.0	+/- 10%
Chromium	CCV11011410P	1.00	1.06	-5.8	+/- 10%
Copper	CCV11011410P	1.00	0.977	2.3	+/- 10%
Lead	CCV11011410P	10.0	9.77	2.3	+/- 10%
Nickel	CCV11011410P	1.00	0.998	0.18	+/- 10%
Zinc	CCV11011410P	1.00	0.991	0.90	+/- 10%
Antimony	CCV12011410P	1.00	0.946	5.4	+/- 10%
Antimony	CCV13011410P	1.00	0.987	1.3	+/- 10%
Antimony	CCV14011410P	1.00	0.933	6.7	+/- 10%

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TCLP Metals
EPA 1311/6010B/7470A

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-068-21					
Client ID:	**KCP4-SO115-B-100111**					
Lead	**20**	0.20	6010B	1-18-10	1-18-10	
Mercury	**ND**	0.0050	7470A	1-18-10	1-18-10	
Lab ID:	01-068-22					
Client ID:	**KCP4-SO116-B-100111**					
Lead	**1.7**	0.20	6010B	1-18-10	1-18-10	
Mercury	**ND**	0.0050	7470A	1-18-10	1-18-10	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TCLP Metals
EPA 1311/6010B/7470A
METHOD BLANK QUALITY CONTROL

Date Prepared:	1-15-10
Date Extracted:	1-18-10
Date Analyzed:	1-18-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0118T1&MB0118T2

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20
Mercury	7470A	**ND**	0.0050

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TCLP Metals
EPA 1311/6010B/7470A
DUPLICATE QUALITY CONTROL

Date Prepared: 1-15-10
Date Extracted: 1-18-10
Date Analyzed: 1-18-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-068-22

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**1.69**	**1.63**	4	0.20	
Mercury	**ND**	**ND**	NA	0.0050	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TCLP Metals
EPA 1311/6010B/7470A
MS/MSD QUALITY CONTROL

Date Prepared: 1-15-10
Date Extracted: 1-18-10
Date Analyzed: 1-18-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-068-22

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10	**10.6**	89	**10.7**	90	1	
Mercury	0.050	**0.0465**	93	**0.0468**	94	1	

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

TCLP Metals
EPA 1311/6010B/7470A
SPIKE BLANK QUALITY CONTROL

Date Prepared: 1-15-10
Date Extracted: 1-18-10
Date Analyzed: 1-18-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0118T1&SB0118T2

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	10	**9.13**	91
Mercury	7470A	0.050	**0.0458**	92

Date of Report: January 18, 2010
Samples Submitted: January 12, 2010
Laboratory Reference: 1001-068
Project: 000105-1

% MOISTURE

Date Analyzed: 1-13-10

Client ID	Lab ID	% Moisture
KCP4-SO98-B-100111	01-068-01	19
KCP4-SO99-B-100111	01-068-02	10
KCP4-SO100-B-100111	01-068-03	22
KCP4-SO101-B-100111	01-068-04	12
KCP4-SO102-B-100111	01-068-05	9
KCP4-SO103-B-100111	01-068-06	5
KCP4-SO104-B-100111	01-068-07	12
KCP4-SO105-B-100111	01-068-08	14
KCP4-SO106-B-100111	01-068-09	11
KCP4-SO107-B-100111	01-068-10	7
KCP4-SO108-B-100111	01-068-11	15
KCP4-SO109-B-100111	01-068-12	15
KCP4-SO110-B-100111	01-068-13	13
KCP4-SO111-B-100111	01-068-14	6
KCP4-SO112-B-100111	01-068-15	11
KCP4-SO95-B-100111	01-068-16	11
KCP4-SO96-B-100111	01-068-17	10
KCP4-SO97-B-100111	01-068-18	9
KCP4-SO113-B-100111	01-068-19	8
KCP4-SO114-B-100111	01-068-20	25
KCP4-SO115-B-100111	01-068-21	21
KCP4-SO116-B-100111	01-068-22	26
KCP4-SO117-B-100111	01-068-23	8
KCP4-SO118-B-100111	01-068-24	7
KCP4-SO102D-B-100111	01-068-26	7
KCP4-SO112D-B-100111	01-068-27	11

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

01-068

ANCHOR QEA

Date: January 12, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Total Metals	Test Parameters: % Moisture	Comments/Preservation
1	KCP4-SO98-B-1001 11	08Jan2010 / 1500	SO	1	x	x	
2	KCP4-SO99-B-1001 11	08Jan2010 / 1502	SO	1	x	x	
3	KCP4-SO100-B-1001 11	08Jan2010 / 1505	SO	1	x	x	
4	KCP4-SO101-B-1001 11	08Jan2010 / 1507	SO	1	x	x	
5	KCP4-SO102-B-1001 11	08Jan2010 / 1510	SO	1	x	x	
6	KCP4-SO103-B-1001 11	08Jan2010 / 1515	SO	1	x	x	
7	KCP4-SO104-B-1001 11	08Jan2010 / 1516	SO	1	x	x	(X) Added 1/14/10 4:50 PM. DB (1 day TAT)
8	KCP4-SO105-B-1001 11	08Jan2010 / 1518	SO	1	x	x	
9	KCP4-SO106-B-1001 11	08Jan2010 / 1522	SO	1	x	x	
10	KCP4-SO107-B-1001 11	08Jan2010 / 1524	SO	1	x	x	
11	KCP4-SO108-B-1001 11	08Jan2010 / 1528	SO	1	x	x	
12	KCP4-SO109-B-1001 11	08Jan2010 / 1535	SO	1	x	x	
13	KCP4-SO110-B-1001 11	08Jan2010 / 1550	SO	1	x	x	
14	KCP4-SO111-B-1001 11	08Jan2010 / 1555	SO	1	x	x	
15	KCP4-SO112-B-1001 11	08Jan2010 / 1610	SO	1	x	x	

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company:	Received By:	Company:
LIZ VONCK X	Anchor QEA, LLC	M. VOUN	QEA
Signature/Printed Name	Date/Time: Jan 12, 2010 / 1200	Signature/Printed Name	Date/Time: 1/12/10 1320
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

01-068

ANCHOR QEA

Date: January 12, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method: Courier

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Total Metals	Test Parameters: % Moisture	Test Parameters: TCLP Pb, Hg	Comments/Preservation
1	KCP4-S095-B-100111	11Jan10/ 1452	SO	1	x	x		
2	KCP4-S096-B-100111	11Jan10/ 1453	SO	1	x	x		
3	KCP4-S097-B100111	11Jan10/ 1454	SO	1	x	x		
4	KCP4-S0113-B-100111	11Jan10/ 1615	SO	1	x	x		
5	KCP4-S0114-B-100111	11Jan10/ 1622	SO	1	x	x		
6	KCP4-S0115-B-100111	11Jan10/ 1420	SO	1	x	x	⊗	PRIORITY - HIGH
7	KCP4-S0116-B-100111	11Jan10/ 1422	SO	1	x	x	⊗	PRIORITY - HIGH
8	KCP4-S0117-B-100111	11Jan10/ 1442	SO	1	x	x		
9	KCP4-S0118-B-100111	11Jan10/ 1446	SO	1	x	x		
10	KCP4-PB-100111	11Jan10/ 1730	~~SO~~ water	1	x	x		HOLD RINSATE BLANK
11	KCP4-S0102D-B-100111	11Jan10/ 1511	SO	1	x	x		
12	KCP4-S0112D-B-100111	11Jan10/ 1611	SO	1	x	x		
13			SO	1	x	x		
14			SO	1	x	x		⊗ Added 2/14/10 4:50 pm
15			SO	1	x	x		Results Monday 1/18/10

EWV 1/12/10

Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company:	Received By:	Company:
EWVonckx LIZ VONCKX	Anchor QEA, LLC	M. VOUN	QEC
Signature/Printed Name	Jan12, 2010/1200 Date/Time	Signature/Printed Name	1/12/10 1320 Date/Time
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 2, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.9
Laboratory Reference No. 1001-182

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on January 28, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

Case Narrative

Samples were collected on January 28, 2010, and received by the laboratory on January 28, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals by EPA 6010B/6020/7471A Analysis

The Matrix Spike/Matrix Spike Duplicate RPD for Antimony is outside control limits due to matrix effects. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-182-06					
Client ID:	**KCP4-CO124-100128**					
Lead	**ND**	0.20	6010B	2-2-10	2-2-10	
Mercury	**ND**	0.0050	7470A	2-2-10	2-2-10	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
METHOD BLANK QUALITY CONTROL

Date Prepared:	2-1-10
Date Extracted:	2-2-10
Date Analyzed:	2-2-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0202T1&MB0202T2

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20
Mercury	7470A	**ND**	0.0050

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
DUPLICATE QUALITY CONTROL

Date Prepared: 2-1-10
Date Extracted: 2-2-10
Date Analyzed: 2-2-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-182-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**ND**	**ND**	NA	0.20	
Mercury	**ND**	**ND**	NA	0.0050	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
MS/MSD QUALITY CONTROL

Date Prepared: 2-1-10
Date Extracted: 2-2-10
Date Analyzed: 2-2-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-182-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10	**8.44**	84	**8.13**	81	4	
Mercury	0.050	**0.0493**	99	**0.0484**	97	2	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
SPIKE BLANK QUALITY CONTROL

Date Prepared: 2-1-10
Date Extracted: 2-2-10
Date Analyzed: 2-2-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0202T1&SB0202T2

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	10	**8.93**	89
Mercury	7470A	0.050	**0.0474**	95

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV1020210P	1.00	0.980	2.0	+/- 10%
Mercury	ICV1020210Y	0.00500	0.00546	-9.2	+/- 10%
Lead	CCV1020210P	10.0	9.72	2.8	+/- 10%
Mercury	CCV1020210Y	0.00500	0.00521	-4.2	+/- 20%
Lead	CCV2020210P	10.0	9.56	4.4	+/- 10%
Mercury	CCV2020210Y	0.00500	0.00521	-4.2	+/- 20%

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-182-01					
Client ID:	**KCP4-SO119-S-100128**					
Antimony	**100**	5.2	6010B	2-1-10	2-1-10	
Arsenic	**41**	10	6010B	2-1-10	2-1-10	
Chromium	**150**	5.2	6010B	2-1-10	2-1-10	
Copper	**120**	1.0	6010B	2-1-10	2-1-10	
Lead	**29**	5.2	6010B	2-1-10	2-1-10	
Mercury	**ND**	0.26	7471A	2-2-10	2-2-10	
Nickel	**81**	2.6	6010B	2-1-10	2-1-10	
Thallium	**ND**	2.6	6020	2-1-10	2-2-10	
Zinc	**450**	2.6	6010B	2-1-10	2-1-10	
Lab ID:	01-182-02					
Client ID:	**KCP4-SO120-S-100128**					
Antimony	**16**	5.4	6010B	2-1-10	2-1-10	
Arsenic	**24**	11	6010B	2-1-10	2-1-10	
Chromium	**61**	5.4	6010B	2-1-10	2-1-10	
Copper	**86**	1.1	6010B	2-1-10	2-1-10	
Lead	**21**	5.4	6010B	2-1-10	2-1-10	
Mercury	**ND**	0.27	7471A	2-2-10	2-2-10	
Nickel	**42**	2.7	6010B	2-1-10	2-1-10	
Thallium	**ND**	2.7	6020	2-1-10	2-2-10	
Zinc	**400**	2.7	6010B	2-1-10	2-1-10	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-182-03					
Client ID:	**KCP4-SO121-B-100128**					
Antimony	**ND**	5.3	6010B	2-1-10	2-1-10	
Arsenic	**ND**	11	6010B	2-1-10	2-1-10	
Chromium	**73**	5.3	6010B	2-1-10	2-1-10	
Copper	**25**	1.1	6010B	2-1-10	2-1-10	
Lead	**ND**	5.3	6010B	2-1-10	2-1-10	
Mercury	**ND**	0.27	7471A	2-2-10	2-2-10	
Nickel	**51**	2.7	6010B	2-1-10	2-1-10	
Thallium	**ND**	2.7	6020	2-1-10	2-2-10	
Zinc	**37**	2.7	6010B	2-1-10	2-1-10	
Lab ID:	01-182-04					
Client ID:	**KCP4-SO122-S-100128**					
Antimony	**ND**	5.3	6010B	2-1-10	2-1-10	
Arsenic	**ND**	11	6010B	2-1-10	2-1-10	
Chromium	**40**	5.3	6010B	2-1-10	2-1-10	
Copper	**67**	1.1	6010B	2-1-10	2-1-10	
Lead	**66**	5.3	6010B	2-1-10	2-1-10	
Mercury	**0.49**	0.26	7471A	2-2-10	2-2-10	
Nickel	**38**	2.6	6010B	2-1-10	2-1-10	
Thallium	**ND**	2.6	6020	2-1-10	2-2-10	
Zinc	**100**	2.6	6010B	2-1-10	2-1-10	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-182-05					
Client ID:	**KCP4-SO123-B-100128**					
Antimony	**15**	5.9	6010B	2-1-10	2-1-10	
Arsenic	**ND**	12	6010B	2-1-10	2-1-10	
Chromium	**15**	5.9	6010B	2-1-10	2-1-10	
Copper	**110**	1.2	6010B	2-1-10	2-1-10	
Lead	**400**	5.9	6010B	2-1-10	2-1-10	
Mercury	**0.77**	0.29	7471A	2-2-10	2-2-10	
Nickel	**7.1**	2.9	6010B	2-1-10	2-1-10	
Thallium	**ND**	2.9	6020	2-1-10	2-2-10	
Zinc	**24**	2.9	6010B	2-1-10	2-1-10	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-1&2-10
Date Analyzed: 2-1&2-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0201S2,MB0201S5&MB0202S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 2-1&2-10
Date Analyzed: 2-1&2-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-182-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**97.0**	**90.6**	7	5.0	
Arsenic	**39.2**	**35.6**	10	10	
Chromium	**144**	**139**	4	5.0	
Copper	**116**	**108**	8	1.0	
Lead	**28.4**	**26.4**	7	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**77.9**	**80.3**	3	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**435**	**472**	8	2.5	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 2-1&2-10
Date Analyzed: 2-1&2-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-182-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**174**	77	**220**	123	23	W
Arsenic	100	**149**	110	**152**	113	2	
Chromium	100	**238**	95	**250**	107	5	
Copper	50	**165**	98	**170**	107	3	
Lead	250	**263**	94	**254**	90	4	
Mercury	0.50	**0.529**	106	**0.496**	99	6	
Nickel	100	**167**	89	**191**	113	14	
Thallium	50	**49.2**	98	**49.0**	98	0	
Zinc	100	**538**	103	**553**	118	3	

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 2-1&2-10
Date Analyzed: 2-1&2-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0201S2,SB0201S5&SB0202S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**89.0**	89
Arsenic	6010B	100	**92.8**	93
Chromium	6010B	100	**93.3**	93
Copper	6010B	50	**50.8**	102
Lead	6010B	250	**230**	92
Mercury	7471A	0.50	**0.508**	102
Nickel	6010B	100	**94.9**	95
Thallium	6020	50	**46.4**	93
Zinc	6010B	100	**93.8**	94

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1020110P	1.00	0.953	4.7	+/- 10%
Arsenic	ICV1020110P	1.00	0.982	1.8	+/- 10%
Chromium	ICV1020110P	1.00	0.992	0.78	+/- 10%
Copper	ICV1020110P	1.00	0.970	3.0	+/- 10%
Lead	ICV1020110P	1.00	0.983	1.7	+/- 10%
Mercury	ICV1020210Y	0.00500	0.00504	-0.70	+/- 10%
Nickel	ICV1020110P	1.00	1.00	0	+/- 10%
Thallium	ICV1020210E	0.0500	0.0496	0.85	+/- 10%
Zinc	ICV1020110P	1.00	0.952	4.8	+/- 10%
Antimony	CCV1020110P	1.00	0.978	2.2	+/- 10%
Arsenic	CCV1020110P	1.00	0.980	2.0	+/- 10%
Chromium	CCV1020110P	1.00	0.980	2.0	+/- 10%
Copper	CCV1020110P	1.00	0.942	5.8	+/- 10%
Lead	CCV1020110P	10.0	9.71	2.9	+/- 10%
Mercury	CCV1020210Y	0.00500	0.00539	-7.7	+/- 20%
Nickel	CCV1020110P	1.00	0.989	1.1	+/- 10%
Thallium	CCV1020210E	0.0400	0.0404	-0.87	+/- 10%
Zinc	CCV1020110P	1.00	0.957	4.3	+/- 10%
Antimony	CCV2020110P	1.00	0.966	3.4	+/- 10%
Arsenic	CCV2020110P	1.00	0.953	4.7	+/- 10%
Chromium	CCV2020110P	1.00	0.985	1.5	+/- 10%
Copper	CCV2020110P	1.00	0.987	1.3	+/- 10%
Lead	CCV2020110P	10.0	9.77	2.3	+/- 10%
Mercury	CCV2020210Y	0.00500	0.00538	-7.7	+/- 20%
Nickel	CCV2020110P	1.00	0.998	0.24	+/- 10%
Thallium	CCV2020210E	0.0400	0.0394	1.5	+/- 10%
Zinc	CCV2020110P	1.00	0.964	3.6	+/- 10%
Antimony	CCV3020110P	1.00	0.983	1.7	+/- 10%
Arsenic	CCV3020110P	1.00	0.953	4.7	+/- 10%
Chromium	CCV3020110P	1.00	0.986	1.4	+/- 10%
Copper	CCV3020110P	1.00	0.954	4.6	+/- 10%
Lead	CCV3020110P	10.0	9.80	2.0	+/- 10%
Mercury	CCV3020210Y	0.00500	0.00540	-7.9	+/- 20%
Nickel	CCV3020110P	1.00	0.986	1.4	+/- 10%
Thallium	CCV3020210E	0.0400	0.0378	5.6	+/- 10%
Zinc	CCV3020110P	1.00	0.956	4.4	+/- 10%

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

TOTAL METALS
EPA 6010B//6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4020110P	1.00	0.981	1.9	+/- 10%
Chromium	CCV4020110P	1.00	0.985	1.5	+/- 10%
Nickel	CCV4020110P	1.00	0.999	0.079	+/- 10%
Zinc	CCV4020110P	1.00	0.960	4.0	+/- 10%
Antimony	CCV5020110P	1.00	0.960	4.0	+/- 10%
Chromium	CCV5020110P	1.00	0.980	2.0	+/- 10%
Nickel	CCV5020110P	1.00	0.996	0.44	+/- 10%
Zinc	CCV5020110P	1.00	0.952	4.8	+/- 10%
Antimony	CCV6020110P	1.00	0.977	2.3	+/- 10%
Chromium	CCV6020110P	1.00	0.973	2.7	+/- 10%
Nickel	CCV6020110P	1.00	0.989	1.1	+/- 10%
Zinc	CCV6020110P	1.00	0.944	5.6	+/- 10%
Antimony	CCV7020110P	1.00	0.966	3.4	+/- 10%
Chromium	CCV7020110P	1.00	0.974	2.6	+/- 10%
Nickel	CCV7020110P	1.00	0.984	1.6	+/- 10%
Zinc	CCV7020110P	1.00	0.945	5.5	+/- 10%
Antimony	CCV8020110P	1.00	0.985	1.5	+/- 10%
Chromium	CCV8020110P	1.00	0.986	1.4	+/- 10%
Nickel	CCV8020110P	1.00	1.00	0	+/- 10%
Zinc	CCV8020110P	1.00	0.954	4.6	+/- 10%
Antimony	CCV9020110P	1.00	0.966	3.4	+/- 10%
Chromium	CCV9020110P	1.00	0.980	2.0	+/- 10%
Nickel	CCV9020110P	1.00	0.981	1.9	+/- 10%
Zinc	CCV9020110P	1.00	0.947	5.3	+/- 10%
Chromium	CCV10020110P	1.00	0.981	1.9	+/- 10%

Date of Report: February 2, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182
Project: 000105-01.9

% MOISTURE

Date Analyzed: 2-1-10

Client ID	Lab ID	% Moisture
KCP4-SO119-S-100128	01-182-01	4
KCP4-SO120-S-100128	01-182-02	8
KCP4-SO121-B-100128	01-182-03	6
KCP4-SO122-S-100128	01-182-04	5
KCP4-SO123-B-100128	01-182-05	15

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01.9
Project Name: KIMBERLY CLARK PHASE 4A
Project Manager: REBECCA DESROSIERS
Sampled by: BUD WHITAKER

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 01-182

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals Pb, Hg only	HEM by 1664	Metals only / No PAH						% Moisture
1	KCP4-S0119-S-100128	28JAN10	1335	S	1														X						X
2	KCP4-S0120-S-100128	28JAN10	1338																X						
3	KCP4-S0121-B-100128	28JAN10	1341																X						
4	KCP4-S0122-S-100128	28JAN10	1345																X						
5	KCP4-S0123-B-100128	28JAN10	1352																X						
6	KCP4-C0124-100128	28JAN10	1401														X								

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by		ANCHOR QEA	28JAN10	1645	Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn
Received by		QEA	1/28/10	1645	
Relinquished by					
Received by					
Relinquished by					
Received by					
Reviewed by/Date		Reviewed by/Date			Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

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February 9, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.9
Laboratory Reference No. 1001-182B

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on January 28, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 9, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182B
Project: 000105-01.9

Case Narrative

Samples were collected on January 28, 2010, and received by the laboratory on January 28, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: February 9, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-182-05					
Client ID:	**KCP4-SO123-B-100128**					
Lead	**1.2**	0.20	6010B	2-8-10	2-8-10	
Mercury	**ND**	0.0050	7470A	2-8-10	2-8-10	

Date of Report: February 9, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
METHOD BLANK QUALITY CONTROL

Date Prepared:	2-5-10
Date Extracted:	2-8-10
Date Analyzed:	2-8-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0208T1&MB0208T3

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20
Mercury	7470A	**ND**	0.0050

Date of Report: February 9, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
DUPLICATE QUALITY CONTROL

Date Prepared: 2-5-10
Date Extracted: 2-8-10
Date Analyzed: 2-8-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-182-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**1.19**	**1.25**	4	0.20	
Mercury	**ND**	**ND**	NA	0.0050	

Date of Report: February 9, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
MS/MSD QUALITY CONTROL

Date Prepared: 2-5-10
Date Extracted: 2-8-10
Date Analyzed: 2-8-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-182-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	20	**20.5**	97	**20.8**	98	2	
Mercury	0.050	**0.0499**	100	**0.0497**	99	0	

Date of Report: February 9, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
SPIKE BLANK QUALITY CONTROL

Date Prepared: 2-5-10
Date Extracted: 2-8-10
Date Analyzed: 2-8-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0208T1&SB0208T3

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	20	**19.4**	97
Mercury	7470A	0.050	**0.0491**	98

Date of Report: February 9, 2010
Samples Submitted: January 28, 2010
Laboratory Reference: 1001-182B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV1020810P	1.00	0.998	0.20	+/- 10%
Mercury	ICV1020810Y	0.00500	0.00516	-3.1	+/- 10%
Lead	CCV1020810P	10.0	9.94	0.59	+/- 10%
Mercury	CCV1020810Y	0.00500	0.00520	-4.1	+/- 20%
Lead	CCV2020810P	10.0	10.1	-1.3	+/- 10%
Mercury	CCV2020810Y	0.00500	0.00522	-4.4	+/- 20%
Lead	CCV3020810P	10.0	10.0	0	+/- 10%
Lead	CCV4020810P	10.0	10.0	0	+/- 10%
Lead	CCV5020810P	10.0	9.91	0.91	+/- 10%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01.9
Project Name: KIMBERLY CLARK PHASE 4A
Project Manager: REBECCA DESROSIERS
Sampled by: BUD WHITAKER

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 01-182

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals Pb, Hg only	HEM by 1664	Metals only/no PAH			TCLP Pb, Hg			% Moisture
1	KCP4-S0119-S-100128	28JAN10	1335	S	1														X						X
2	KCP4-S0120-S-100128	28JAN10	1338																X						X
3	KCP4-S0121-B-100128	28JAN10	1341																X						X
4	KCP4-S0122-S-100128	28JAN10	1345																X						X
5	KCP4-S0123-B-100128	28JAN10	1352																X			⊗			X
6	KCP4-C0124-100128	28JAN10	1401														X								

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by		ANCHOR QEA	28JAN10	1645	Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn
Received by		QEA	1/28/10	1645	⊗ added 2/5/10. DB (2 day TAT)
Relinquished by					
Received by					
Relinquished by					
Received by					
Reviewed by/Date		Reviewed by/Date			Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-019

OnSite Project Number: 01-182

Initiated by: JM

Date Initiated: 1/28/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 10	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 4, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.9
Laboratory Reference No. 1002-012

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on February 2, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

Case Narrative

Samples were collected on February 2, 2010, and received by the laboratory on February 2, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Lead are outside control limits due to matrix interferences. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 92%.

The Matrix Spike/ Matrix Spike Duplicate recoveries and RPD for Mercury are outside control limits due to matrix interferences. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 101%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-012-01					
Client ID:	**KCP4-SO125-S-100202**					
Antimony	**83**	5.9	6010B	2-3-10	2-3-10	
Arsenic	**ND**	12	6010B	2-3-10	2-3-10	
Chromium	**33**	0.59	6010B	2-3-10	2-3-10	
Copper	**97**	1.2	6010B	2-3-10	2-3-10	
Lead	**1600**	5.9	6010B	2-3-10	2-3-10	
Mercury	**2.4**	1.5	7471A	2-4-10	2-4-10	
Nickel	**19**	2.9	6010B	2-3-10	2-3-10	
Thallium	**ND**	2.9	6020	2-3-10	2-4-10	
Zinc	**52**	2.9	6010B	2-3-10	2-3-10	
Lab ID:	02-012-02					
Client ID:	**KCP4-SO126-B-100202**					
Antimony	**21**	5.7	6010B	2-3-10	2-3-10	
Arsenic	**ND**	11	6010B	2-3-10	2-3-10	
Chromium	**34**	0.57	6010B	2-3-10	2-3-10	
Copper	**66**	1.1	6010B	2-3-10	2-3-10	
Lead	**780**	5.7	6010B	2-3-10	2-3-10	
Mercury	**1.5**	1.4	7471A	2-4-10	2-4-10	
Nickel	**34**	2.9	6010B	2-3-10	2-3-10	
Thallium	**ND**	2.9	6020	2-3-10	2-4-10	
Zinc	**97**	2.9	6010B	2-3-10	2-3-10	

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-3&4-10
Date Analyzed: 2-3&4-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0203S1,MB0203S4&MB0204S4

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 2-3&4-10
Date Analyzed: 2-3&4-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-012-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**18.3**	**12.5**	37	5.0	C
Arsenic	**ND**	**ND**	NA	10	
Chromium	**30.0**	**29.6**	1	0.50	
Copper	**57.7**	**54.5**	6	1.0	
Lead	**684**	**605**	12	5.0	
Mercury	**1.31**	**1.43**	9	0.25	
Nickel	**29.9**	**32.6**	9	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**84.7**	**101**	17	2.5	

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 2-3&4-10
Date Analyzed: 2-3&4-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-012-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**113**	94	**119**	100	5	
Arsenic	100	**95.3**	95	**98.0**	98	3	
Chromium	100	**116**	86	**116**	86	1	
Copper	50	**99.1**	83	**100**	85	1	
Lead	250	**992**	123	**1010**	132	2	V
Mercury	0.50	**2.43**	224	**1.92**	121	24	V, W
Nickel	100	**118**	88	**124**	94	5	
Thallium	50	**45.0**	90	**45.3**	91	1	
Zinc	100	**177**	93	**183**	99	3	

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 2-3&4-10
Date Analyzed: 2-3&4-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0203S1,SB0203S4&SB0204S4

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**95.5**	96
Arsenic	6010B	100	**94.8**	95
Chromium	6010B	100	**98.8**	99
Copper	6010B	50	**51.8**	104
Lead	6010B	250	**230**	92
Mercury	7471A	0.50	**0.503**	101
Nickel	6010B	100	**100**	100
Thallium	6020	50	**47.7**	95
Zinc	6010B	100	**96.0**	96

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

TOTAL METALS
EPA 6010B/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1020310P	1.00	0.973	2.7	+/- 10%
Arsenic	ICV1020310P	1.00	0.982	1.8	+/- 10%
Chromium	ICV1020310P	1.00	1.02	-1.9	+/- 10%
Copper	ICV1020310P	1.00	1.03	-3.0	+/- 10%
Lead	ICV1020310P	1.00	1.01	-1.1	+/- 10%
Mercury	ICV1020410Y	0.00500	0.00524	-4.8	+/- 10%
Nickel	ICV1020310P	1.00	1.03	-2.7	+/- 10%
Thallium	ICV1020410E	0.0500	0.0496	0.88	+/- 10%
Zinc	ICV1020310P	1.00	0.986	1.4	+/- 10%
Antimony	CCV1020310P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV1020310P	1.00	0.958	4.2	+/- 10%
Chromium	CCV1020310P	1.00	0.998	0.24	+/- 10%
Copper	CCV1020310P	1.00	0.999	0.079	+/- 10%
Lead	CCV1020310P	10.0	9.94	0.56	+/- 10%
Mercury	CCV1020410Y	0.00500	0.00530	-5.9	+/- 20%
Nickel	CCV1020310P	1.00	1.01	-0.70	+/- 10%
Thallium	CCV1020410E	0.0400	0.0409	-2.3	+/- 10%
Zinc	CCV1020310P	1.00	0.983	1.7	+/- 10%
Antimony	CCV2020310P	1.00	0.987	1.3	+/- 10%
Arsenic	CCV2020310P	1.00	0.969	3.1	+/- 10%
Chromium	CCV2020310P	1.00	1.01	-0.94	+/- 10%
Copper	CCV2020310P	1.00	1.02	-2.2	+/- 10%
Lead	CCV2020310P	10.0	9.97	0.34	+/- 10%
Mercury	CCV2020410Y	0.00500	0.00524	-4.9	+/- 20%
Nickel	CCV2020310P	1.00	1.02	-2.1	+/- 10%
Thallium	CCV2020410E	0.0400	0.0375	6.3	+/- 10%
Zinc	CCV2020310P	1.00	0.991	0.92	+/- 10%
Antimony	CCV3020310P	1.00	0.976	2.4	+/- 10%
Arsenic	CCV3020310P	1.00	0.957	4.3	+/- 10%
Chromium	CCV3020310P	1.00	0.988	1.2	+/- 10%
Copper	CCV3020310P	1.00	0.990	1.0	+/- 10%
Lead	CCV3020310P	10.0	9.84	1.6	+/- 10%
Mercury	CCV3020410Y	0.00500	0.00527	-5.4	+/- 20%
Nickel	CCV3020310P	1.00	0.999	0.11	+/- 10%
Thallium	CCV3020410E	0.0400	0.0378	5.4	+/- 10%
Zinc	CCV3020310P	1.00	0.970	3.0	+/- 10%

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

TOTAL METALS
EPA 6010B/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4020310P	1.00	0.953	4.7	+/- 10%
Arsenic	CCV4020310P	1.00	0.930	7.0	+/- 10%
Chromium	CCV4020310P	1.00	0.972	2.8	+/- 10%
Copper	CCV4020310P	1.00	0.986	1.4	+/- 10%
Lead	CCV4020310P	10.0	9.58	4.2	+/- 10%
Mercury	CCV4020410Y	0.00500	0.00531	-6.2	+/- 20%
Nickel	CCV4020310P	1.00	0.967	3.3	+/- 10%
Zinc	CCV4020310P	1.00	0.953	4.7	+/- 10%
Antimony	CCV5020310P	1.00	0.948	5.2	+/- 10%
Arsenic	CCV5020310P	1.00	0.939	6.1	+/- 10%
Chromium	CCV5020310P	1.00	0.964	3.6	+/- 10%
Copper	CCV5020310P	1.00	0.983	1.7	+/- 10%
Lead	CCV5020310P	10.0	9.55	4.5	+/- 10%
Mercury	CCV5020410Y	0.00500	0.00517	-3.4	+/- 20%
Nickel	CCV5020310P	1.00	0.969	3.1	+/- 10%
Zinc	CCV5020310P	1.00	0.948	5.2	+/- 10%
Antimony	CCV6020310P	1.00	0.939	6.1	+/- 10%
Arsenic	CCV6020310P	1.00	0.942	5.8	+/- 10%
Chromium	CCV6020310P	1.00	0.999	0.13	+/- 10%
Copper	CCV6020310P	1.00	0.994	0.58	+/- 10%
Lead	CCV6020310P	10.0	10.0	0	+/- 10%
Mercury	CCV6020410Y	0.00500	0.00518	-3.7	+/- 20%
Nickel	CCV6020310P	1.00	1.01	-0.69	+/- 10%
Zinc	CCV6020310P	1.00	0.963	3.7	+/- 10%
Antimony	CCV7020310P	1.00	0.944	5.6	+/- 10%
Arsenic	CCV7020310P	1.00	0.934	6.6	+/- 10%
Chromium	CCV7020310P	1.00	0.984	1.6	+/- 10%
Copper	CCV7020310P	1.00	0.978	2.2	+/- 10%
Lead	CCV7020310P	10.0	9.88	1.2	+/- 10%
Nickel	CCV7020310P	1.00	0.996	0.42	+/- 10%
Zinc	CCV7020310P	1.00	0.963	3.7	+/- 10%
Antimony	CCV8020310P	1.00	1.02	-2.2	+/- 10%
Lead	CCV8020310P	10.0	9.97	0.27	+/- 10%
Antimony	CCV9020310P	1.00	0.986	1.4	+/- 10%
Lead	CCV9020310P	10.0	9.98	0.19	+/- 10%

Date of Report: February 4, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012
Project: 000105-01.9

% MOISTURE

Date Analyzed: 2-3-10

Client ID	Lab ID	% Moisture
KCP4-SO125-S-100202	02-012-01	15
KCP4-SO126-B-100202	02-012-02	13

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01.9
Project Name: KIMBERLY CLARK PHASE 4A
Project Manager: REBECCA DEROSIERS
Sampled by: BUD WALTAKER

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 02-012

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	METALS						% Moisture
1	KCP4-S0125-S-100202	02FEB10	11:30	S	1														X						X
2	KCP4-S0126-B-100202	02FEB10	11:35	↓	↓														X						↓

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by		ANCHOR QEA	02FEB10	1445	Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn
Received by			2/2/10	1445	
Relinquished by					
Received by					
Relinquished by					
Received by					
Reviewed by/Date		Reviewed by/Date			Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 00105-01.9

OnSite Project Number: 02-012

Initiated by: JMV

Date Initiated: 2/2/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 16	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 9, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.9
Laboratory Reference No. 1002-012B

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on February 2, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 9, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012B
Project: 000105-01.9

Case Narrative

Samples were collected on February 2, 2010, and received by the laboratory on February 2, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: February 9, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-012-01					
Client ID:	**KCP4-SO125-S-100202**					
Lead	**56**	0.20	6010B	2-8-10	2-8-10	
Mercury	**ND**	0.0050	7470A	2-8-10	2-8-10	
Lab ID:	02-012-02					
Client ID:	**KCP4-SO126-B-100202**					
Lead	**17**	0.20	6010B	2-8-10	2-8-10	
Mercury	**ND**	0.0050	7470A	2-8-10	2-8-10	

Date of Report: February 9, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
METHOD BLANK QUALITY CONTROL

Date Prepared:	2-5-10
Date Extracted:	2-8-10
Date Analyzed:	2-8-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0208T1&MB0208T3

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20
Mercury	7470A	**ND**	0.0050

Date of Report: February 9, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
DUPLICATE QUALITY CONTROL

Date Prepared: 2-5-10
Date Extracted: 2-8-10
Date Analyzed: 2-8-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-182-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**1.19**	**1.25**	4	0.20	
Mercury	**ND**	**ND**	NA	0.0050	

Date of Report: February 9, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
MS/MSD QUALITY CONTROL

Date Prepared: 2-5-10
Date Extracted: 2-8-10
Date Analyzed: 2-8-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 01-182-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	20	**20.5**	97	**20.8**	98	2	
Mercury	0.050	**0.0499**	100	**0.0497**	99	0	

Date of Report: February 9, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
SPIKE BLANK QUALITY CONTROL

Date Prepared: 2-5-10
Date Extracted: 2-8-10
Date Analyzed: 2-8-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0208T1&SB0208T3

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	20	**19.4**	97
Mercury	7470A	0.050	**0.0491**	98

Date of Report: February 9, 2010
Samples Submitted: February 2, 2010
Laboratory Reference: 1002-012B
Project: 000105-01.9

TCLP Metals
EPA 1311/6010B/7470A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV1020810P	1.00	0.998	0.20	+/- 10%
Mercury	ICV1020810Y	0.00500	0.00516	-3.1	+/- 10%
Lead	CCV1020810P	10.0	9.94	0.59	+/- 10%
Mercury	CCV1020810Y	0.00500	0.00520	-4.1	+/- 20%
Lead	CCV2020810P	10.0	10.1	-1.3	+/- 10%
Mercury	CCV2020810Y	0.00500	0.00522	-4.4	+/- 20%
Lead	CCV3020810P	10.0	10.0	0	+/- 10%
Lead	CCV4020810P	10.0	10.0	0	+/- 10%
Lead	CCV5020810P	10.0	9.91	0.91	+/- 10%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01.9
Project Name: KIMBERLY CLARK PHASE 4A
Project Manager: REBECCA DEROSIERS
Sampled by: BUD WALTAKER

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 02-012

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Metals		TCLP Pb, Hg				% Moisture
1	KCP4-S0125-S-100202	02FEB10	11:30	S	1														X		⊗				X
2	KCP4-S0126-B-100202	02FEB10	11:35	↓	↓														X		⊗				↓

	Signature	Company	Date	Time
Relinquished by		ANCHOR QEA	02FEB10	1445
Received by			2/2/10	1445
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn
⊗ Added 2/5/10. DB (2 day TAT)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 00105-01.9

OnSite Project Number: 02-012

Initiated by: JMV

Date Initiated: 2/2/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 16	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 8, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.9
Laboratory Reference No. 1002-046

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on February 5, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

Case Narrative

Samples were collected on February 5, 2010, and received by the laboratory on February 5, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-046-01					
Client ID:	**KCP4-SO127-S-100205**					
Antimony	**ND**	5.3	6010B	2-5-10	2-8-10	
Arsenic	**ND**	11	6010B	2-5-10	2-8-10	
Chromium	**26**	0.53	6010B	2-5-10	2-8-10	
Copper	**43**	1.1	6010B	2-5-10	2-8-10	
Lead	**ND**	5.3	6010B	2-5-10	2-8-10	
Mercury	**ND**	0.26	7471A	2-8-10	2-8-10	
Nickel	**38**	2.6	6010B	2-5-10	2-8-10	
Thallium	**ND**	2.6	6020	2-5-10	2-8-10	
Zinc	**90**	2.6	6010B	2-5-10	2-8-10	
Lab ID:	02-046-02					
Client ID:	**KCP4-SO128-S-100205**					
Antimony	**ND**	5.3	6010B	2-5-10	2-8-10	
Arsenic	**ND**	11	6010B	2-5-10	2-8-10	
Chromium	**27**	0.53	6010B	2-5-10	2-8-10	
Copper	**60**	1.1	6010B	2-5-10	2-8-10	
Lead	**6.6**	5.3	6010B	2-5-10	2-8-10	
Mercury	**0.28**	0.27	7471A	2-8-10	2-8-10	
Nickel	**29**	2.7	6010B	2-5-10	2-8-10	
Thallium	**ND**	2.7	6020	2-5-10	2-8-10	
Zinc	**88**	2.7	6010B	2-5-10	2-8-10	

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-046-03					
Client ID:	**KCP4-SO129-B-100205**					
Antimony	**ND**	5.4	6010B	2-5-10	2-8-10	
Arsenic	**ND**	11	6010B	2-5-10	2-8-10	
Chromium	**18**	0.54	6010B	2-5-10	2-8-10	
Copper	**21**	1.1	6010B	2-5-10	2-8-10	
Lead	**ND**	5.4	6010B	2-5-10	2-8-10	
Mercury	**ND**	0.27	7471A	2-8-10	2-8-10	
Nickel	**37**	2.7	6010B	2-5-10	2-8-10	
Thallium	**ND**	2.7	6020	2-5-10	2-8-10	
Zinc	**27**	2.7	6010B	2-5-10	2-8-10	
Lab ID:	02-046-04					
Client ID:	**KCP4-SO130-B-100205**					
Antimony	**ND**	5.4	6010B	2-5-10	2-8-10	
Arsenic	**ND**	11	6010B	2-5-10	2-8-10	
Chromium	**17**	0.54	6010B	2-5-10	2-8-10	
Copper	**23**	1.1	6010B	2-5-10	2-8-10	
Lead	**ND**	5.4	6010B	2-5-10	2-8-10	
Mercury	**ND**	0.27	7471A	2-8-10	2-8-10	
Nickel	**37**	2.7	6010B	2-5-10	2-8-10	
Thallium	**ND**	2.7	6020	2-5-10	2-8-10	
Zinc	**32**	2.7	6010B	2-5-10	2-8-10	

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-5&8-10
Date Analyzed: 2-8-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0205S2,MB0205S3&MB0208S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 2-5&8-10
Date Analyzed: 2-8-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-046-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**24.9**	**25.2**	1	0.50	
Copper	**40.6**	**39.9**	2	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**36.4**	**38.7**	6	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**84.6**	**72.6**	15	2.5	

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 2-5&8-10
Date Analyzed: 2-8-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-046-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**90.5**	90	**90.1**	90	0	
Arsenic	100	**98.9**	99	**102**	102	4	
Chromium	100	**114**	89	**116**	92	2	
Copper	50	**85.5**	90	**89.8**	98	5	
Lead	250	**223**	89	**223**	89	0	
Mercury	0.50	**0.509**	102	**0.573**	115	12	
Nickel	100	**127**	91	**131**	95	4	
Thallium	50	**46.4**	93	**47.7**	95	3	
Zinc	100	**164**	79	**169**	84	3	

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 2-5&8-10
Date Analyzed: 2-8-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0205S2,SB0205S3&SB0208S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**96.0**	96
Arsenic	6010B	100	**97.1**	97
Chromium	6010B	100	**98.1**	98
Copper	6010B	50	**52.3**	105
Lead	6010B	250	**230**	92
Mercury	7471A	0.50	**0.520**	104
Nickel	6010B	100	**100**	100
Thallium	6020	50	**49.0**	98
Zinc	6010B	100	**96.9**	97

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1020810P	1.00	1.01	-0.72	+/- 10%
Arsenic	ICV1020810P	1.00	1.02	-1.5	+/- 10%
Chromium	ICV1020810P	1.00	1.02	-1.8	+/- 10%
Copper	ICV1020810P	1.00	1.02	-2.0	+/- 10%
Lead	ICV1020810P	1.00	0.998	0.20	+/- 10%
Mercury	ICV1020810Y	0.00500	0.00540	-8.0	+/- 10%
Nickel	ICV1020810P	1.00	1.04	-3.9	+/- 10%
Thallium	ICV1020810E	0.0500	0.0479	4.2	+/- 10%
Zinc	ICV1020810P	1.00	0.983	1.7	+/- 10%
Antimony	CCV1020810P	1.00	0.973	2.7	+/- 10%
Arsenic	CCV1020810P	1.00	0.984	1.6	+/- 10%
Chromium	CCV1020810P	1.00	1.01	-0.51	+/- 10%
Copper	CCV1020810P	1.00	1.01	-0.64	+/- 10%
Lead	CCV1020810P	10.0	9.94	0.59	+/- 10%
Mercury	CCV1020810Y	0.00500	0.00532	-6.3	+/- 20%
Nickel	CCV1020810P	1.00	1.01	-1.2	+/- 10%
Thallium	CCV1020810E	0.0400	0.0370	7.5	+/- 10%
Zinc	CCV1020810P	1.00	0.986	1.4	+/- 10%
Antimony	CCV2020810P	1.00	1.00	0	+/- 10%
Arsenic	CCV2020810P	1.00	1.01	-0.53	+/- 10%
Chromium	CCV2020810P	1.00	1.00	0	+/- 10%
Copper	CCV2020810P	1.00	1.01	-1.2	+/- 10%
Lead	CCV2020810P	10.0	10.1	-1.3	+/- 10%
Mercury	CCV2020810Y	0.00500	0.00530	-6.0	+/- 20%
Nickel	CCV2020810P	1.00	1.02	-1.9	+/- 10%
Thallium	CCV2020810E	0.0400	0.0362	9.6	+/- 10%
Zinc	CCV2020810P	1.00	0.993	0.71	+/- 10%

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3020810P	1.00	1.00	0	+/- 10%
Arsenic	CCV3020810P	1.00	0.980	2.0	+/- 10%
Chromium	CCV3020810P	1.00	1.00	0	+/- 10%
Copper	CCV3020810P	1.00	1.01	-0.63	+/- 10%
Lead	CCV3020810P	10.0	10.0	-0.22	+/- 10%
Nickel	CCV3020810P	1.00	1.03	-2.7	+/- 10%
Zinc	CCV3020810P	1.00	0.988	1.2	+/- 10%
Antimony	CCV4020810P	1.00	0.983	1.7	+/- 10%
Antimony	CCV5020810P	1.00	0.997	0.34	+/- 10%

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

TOTAL METALS
EPA 6020
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Thallium	ICV1020810E	0.0500	0.0518	-3.6	+/- 10%
Thallium	CCV1020810E	0.0400	0.0390	2.4	+/- 10%
Thallium	CCV2020810E	0.0400	0.0393	1.7	+/- 10%

Date of Report: February 8, 2010
Samples Submitted: February 5, 2010
Laboratory Reference: 1002-046
Project: 000105-01.9

% MOISTURE

Date Analyzed: 2-5-10

Client ID	Lab ID	% Moisture
KCP4-SO127-S-100205	02-046-01	5
KCP4-SO128-S-100205	02-046-02	6
KCP4-SO129-B-100205	02-046-03	7
KCP4-SO130-B-100205	02-046-04	7

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01.9
Project Name: KIMBERLY CLARK PHASE 4A
Project Manager: REBECCA DESROSIERS
Sampled by: BUD WHITAKER

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 02-046

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	METALS ONLY						% Moisture
1	KCP4-S0127-S-100205	05FEB10	905	S	1														X						8
2	KCP4-S0128-S-100205	05FEB10	910	↓	1														X						1
3	KCP4-S0129-B-100205	05FEB10	915	↓	1														X						↓
4	KCP4-S0130-B-100205	05FEB10	920	↓	1														X						

	Signature	Company	Date	Time
Relinquished by		ANCHOR QEA	05 FEB 10	1220
Received by		CORE	2/5/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 23, 2010

Delaney Peterson
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1002-106

Dear Delaney:

Enclosed are the analytical results and associated quality control data for samples submitted on February 16, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

Case Narrative

Samples were collected on February 15, 2010, and received by the laboratory on February 16, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH-Gx Analysis

A Method 5035 VOA vial was not provided for sample KCP4-TP05-B-100215. Therefore the sample was extracted from an 8-ounce jar.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-106-01					
Client ID:	**KCP4-TP05-A-100215**					
Antimony	**ND**	6.0	6010B	2-18-10	2-18-10	
Arsenic	**ND**	12	6010B	2-17-10	2-17-10	
Chromium	**26**	0.60	6010B	2-17-10	2-17-10	
Copper	**50**	1.5	6010B	2-17-10	2-17-10	
Lead	**200**	6.0	6010B	2-17-10	2-17-10	
Mercury	**ND**	0.30	7471A	2-21-10	2-22-10	
Nickel	**23**	3.0	6010B	2-17-10	2-17-10	
Thallium	**ND**	3.0	6020	2-17-10	2-18-10	
Zinc	**110**	3.0	6010B	2-18-10	2-18-10	
Lab ID:	02-106-03					
Client ID:	**KCP4-TP06-A-100215**					
Antimony	**150**	8.3	6010B	2-18-10	2-18-10	
Arsenic	**ND**	17	6010B	2-17-10	2-17-10	
Chromium	**32**	0.83	6010B	2-17-10	2-17-10	
Copper	**560**	2.1	6010B	2-17-10	2-17-10	
Lead	**3500**	8.3	6010B	2-17-10	2-17-10	
Mercury	**1.4**	0.42	7471A	2-21-10	2-22-10	
Nickel	**28**	4.2	6010B	2-17-10	2-17-10	
Thallium	**ND**	4.2	6020	2-17-10	2-18-10	
Zinc	**610**	4.2	6010B	2-18-10	2-18-10	

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-106-04					
Client ID:	**KCP4-TP09-A-100215**					
Antimony	**ND**	6.4	6010B	2-18-10	2-18-10	
Arsenic	**ND**	13	6010B	2-17-10	2-17-10	
Chromium	**12**	0.64	6010B	2-17-10	2-17-10	
Copper	**20**	1.6	6010B	2-17-10	2-17-10	
Lead	**49**	6.4	6010B	2-17-10	2-17-10	
Mercury	**ND**	0.32	7471A	2-21-10	2-22-10	
Nickel	**15**	3.2	6010B	2-17-10	2-17-10	
Thallium	**ND**	3.2	6020	2-17-10	2-18-10	
Zinc	**77**	3.2	6010B	2-18-10	2-18-10	
Lab ID:	02-106-05					
Client ID:	**KCP4-TP11-A-100215**					
Antimony	**ND**	5.5	6010B	2-18-10	2-18-10	
Arsenic	**ND**	11	6010B	2-17-10	2-17-10	
Chromium	**19**	0.55	6010B	2-17-10	2-17-10	
Copper	**28**	1.4	6010B	2-17-10	2-17-10	
Lead	**32**	5.5	6010B	2-17-10	2-17-10	
Mercury	**ND**	0.28	7471A	2-21-10	2-22-10	
Nickel	**35**	2.8	6010B	2-17-10	2-17-10	
Thallium	**ND**	2.8	6020	2-17-10	2-18-10	
Zinc	**28**	2.8	6010B	2-18-10	2-18-10	

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-106-06					
Client ID:	**MJB2-Pretreat-100215**					
Antimony	**36**	5.9	6010B	2-18-10	2-18-10	
Arsenic	**ND**	12	6010B	2-17-10	2-17-10	
Chromium	**20**	0.59	6010B	2-17-10	2-17-10	
Copper	**120**	1.5	6010B	2-17-10	2-17-10	
Lead	**690**	5.9	6010B	2-17-10	2-17-10	
Mercury	**0.99**	0.29	7471A	2-21-10	2-22-10	
Nickel	**17**	2.9	6010B	2-17-10	2-17-10	
Thallium	**ND**	2.9	6020	2-17-10	2-18-10	
Zinc	**57**	2.9	6010B	2-18-10	2-18-10	

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-17,18&21-10
Date Analyzed: 2-17,18,&22-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0217S4,MB0218S1&MB0221S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.3
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 2-17,18&21-10
Date Analyzed: 2-17,18,&22-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-106-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**9.41**	**11.5**	20	0.50	
Copper	**15.7**	**14.3**	9	1.3	
Lead	**38.2**	**33.8**	12	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**11.9**	**13.3**	11	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**59.7**	**58.3**	2	2.5	

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 2-17,18&21-10
Date Analyzed: 2-17,18,&22-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-106-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**95.9**	96	**97.2**	97	1	
Arsenic	100	**98.7**	99	**99.6**	100	1	
Chromium	100	**106**	97	**108**	99	2	
Copper	50	**66.4**	102	**67.2**	103	1	
Lead	250	**277**	96	**278**	96	0	
Mercury	0.50	**0.472**	94	**0.491**	98	4	
Nickel	100	**110**	98	**108**	96	1	
Thallium	50	**48.0**	96	**48.7**	97	2	
Zinc	100	**153**	93	**157**	97	3	

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1021810P	1.00	0.999	0.14	+/- 10%
Arsenic	ICV1021710P	1.00	0.967	3.3	+/- 10%
Chromium	ICV1021710P	1.00	1.01	-1.1	+/- 10%
Copper	ICV1021710P	1.00	0.998	0.15	+/- 10%
Lead	ICV1021710P	1.00	1.01	-0.72	+/- 10%
Mercury	ICV1022210Y	0.00500	0.00521	-4.2	+/- 10%
Nickel	ICV1021710P	1.00	1.00	0	+/- 10%
Thallium	ICV1021810E	0.0500	0.0498	0.30	+/- 10%
Zinc	ICV1021810P	1.00	0.999	0.076	+/- 10%
Antimony	CCV1021810P	1.00	1.01	-0.77	+/- 10%
Arsenic	CCV1021710P	1.00	1.00	0	+/- 10%
Chromium	CCV1021710P	1.00	1.02	-1.6	+/- 10%
Copper	CCV1021710P	1.00	1.01	-1.3	+/- 10%
Lead	CCV1021710P	10.0	10.0	0	+/- 10%
Mercury	CCV1022210Y	0.00500	0.00513	-2.7	+/- 20%
Nickel	CCV1021710P	1.00	1.01	-0.93	+/- 10%
Thallium	CCV1021810E	0.0400	0.0409	-2.3	+/- 10%
Zinc	CCV1021810P	1.00	1.00	0	+/- 10%
Antimony	CCV2021810P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV2021710P	1.00	1.01	-0.88	+/- 10%
Chromium	CCV2021710P	1.00	1.03	-2.6	+/- 10%
Copper	CCV2021710P	1.00	1.01	-1.3	+/- 10%
Lead	CCV2021710P	10.0	10.1	-1.1	+/- 10%
Mercury	CCV2022210Y	0.00500	0.00520	-4.0	+/- 20%
Nickel	CCV2021710P	1.00	1.03	-2.9	+/- 10%
Thallium	CCV2021810E	0.0400	0.0407	-1.7	+/- 10%
Zinc	CCV2021810P	1.00	0.981	1.9	+/- 10%
Antimony	CCV3021810P	1.00	0.995	0.50	+/- 10%
Arsenic	CCV3021710P	1.00	0.966	3.4	+/- 10%
Chromium	CCV3021710P	1.00	1.01	-1.2	+/- 10%
Copper	CCV3021710P	1.00	0.994	0.55	+/- 10%
Lead	CCV3021710P	10.0	10.0	0	+/- 10%
Mercury	CCV3022210Y	0.00500	0.00506	-1.2	+/- 20%
Nickel	CCV3021710P	1.00	1.01	-1.1	+/- 10%
Thallium	CCV3021810E	0.0400	0.0403	-0.75	+/- 10%
Zinc	CCV3021810P	1.00	0.981	1.9	+/- 10%

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4021810P	1.00	0.976	2.4	+/- 10%
Arsenic	CCV4021710P	1.00	1.02	-2.1	+/- 10%
Chromium	CCV4021710P	1.00	1.04	-3.6	+/- 10%
Copper	CCV4021710P	1.00	1.02	-2.0	+/- 10%
Lead	CCV4021710P	10.0	10.1	-1.1	+/- 10%
Nickel	CCV4021710P	1.00	1.03	-3.4	+/- 10%
Zinc	CCV4021810P	1.00	0.984	1.6	+/- 10%
Antimony	CCV5021810P	1.00	0.977	2.3	+/- 10%
Arsenic	CCV5021710P	1.00	1.02	-1.8	+/- 10%
Chromium	CCV5021710P	1.00	1.03	-3.2	+/- 10%
Copper	CCV5021710P	1.00	1.03	-2.7	+/- 10%
Lead	CCV5021710P	10.0	10.1	-1.1	+/- 10%
Nickel	CCV5021710P	1.00	1.03	-2.7	+/- 10%
Zinc	CCV5021810P	1.00	0.986	1.4	+/- 10%

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

NWTPH-Dx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	02-106-02				
Client ID:	**KCP4-TP05-B-100215**				
Diesel Range Organics	**78**	36	2-19-10	2-19-10	Y
Lube Oil	**470**	71	2-19-10	2-19-10	Y
Surrogate: o-terphenyl	72%	50-150			

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-19-10
Date Analyzed:	2-19-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0219S2
Diesel Range:	**ND**
PQL:	25
Identification:	---
Lube Oil Range:	**ND**
PQL:	50
Identification:	---
Surrogate Recovery	
o-Terphenyl:	79%
Flags:	Y

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	2-19-10
Date Analyzed:	2-19-10
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	02-106-02	02-106-02 DUP
Diesel Range:	**54.7**	**32.3**
PQL:	25	25
RPD:	51	
Surrogate Recovery		
o-Terphenyl:	72%	67%
Flags:	Y	Y

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Contol Limits
DF2CCV0219R-V3	100	100	0	+/-15%
DF2CCV0219R-V4	100	102	-2	+/-15%

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-TP05-B-100215**					
Laboratory ID:	02-106-02					
Gasoline	**ND**	9.3	NWTPH-Gx	2-18-10	2-18-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*53-126*				

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0218S1					
Gasoline	**ND**	5.0	NWTPH-Gx	2-18-10	2-18-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*53-126*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-106-02										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*89*	*89*	*53-126*			

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

NWTPH-Gx
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVD0218G-1	5.00	4.13	17	+/- 20%
CCVD0218G-2	5.00	4.36	13	+/- 20%

Date of Report: February 23, 2010
Samples Submitted: February 16, 2010
Laboratory Reference: 1002-106
Project: 000105-01

% MOISTURE

Date Analyzed: 2-17&18-10

Client ID	Lab ID	% Moisture
KCP4-TP05-A-100215	02-106-01	17
KCP4-TP05-B-100215	02-106-02	30
KCP4-TP06-A-100215	02-106-03	40
KCP4-TP09-A-100215	02-106-04	22
KCP4-TP11-A-100215	02-106-05	9
MJB2-Pretreat	02-106-06	15

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

Page 1 of 1

Turnaround Requested: 48-hours for metals

Anchor Contact: Delaney Peterson

02-106

ANCHOR ENVIRONMENTAL, L.L.C.
1423 Third Ave, Suite 300
Seattle, WA 98101
Ph: (206) 287-9130 Fax: (206) 287-9131

Lab Contact: David Baumeister	Proj. Name: Kimberly Clark
Lab: On Site Environmental	Proj. Number: 000105-01
Address: 14648 NE 95th St. Redmond, WA 98052	Sampler: Rebecca DesRosiers
Phone: 425.883.3881	Shipping Method:
Fax:	AirBill:

	Sample ID	~~Sample Date~~	Sample Time	Sample Martix	# Containers	Metals	TPH-Dx	TPH-Gx	% Moisture	Notes/ Comments:
1	KCP4-TP05-A-	100215	1514	SO	1	X			X	
2	KCP4-TP05-B-	100215	1523				X	X		STD TAT
3	KCP4-TP06-A-	100215	1600			X				
4	KCP4-TP09-A-	100215	1718			X				
5	KCP4-TP11-A-	100215	1800			X				
6	MJB2-Pretreat-	100215	—			X			✓	

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes
Printed Name: David Gillingham	Printed Name: Tony Day	Printed Name:	Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn
Company: Anchor QEA	Company: Speedy Messenger	Company:	
Date/Time: 2/16/10 0930	Date/Time: 2/16/10 12:43pm	Date/Time:	
Received By:	Received By:	Received By:	
Printed Name: Young Day	Printed Name: M. VOUN	Printed Name:	
Company: Speedy Messenger	Company: CORE	Company:	# of Coolers: / Cooler Temp(s):
Date/Time: 2/16/10 1028	Date/Time: 2/16/10 1243	Date/Time:	COC Seals Intact? / Bottles Intact?

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01

OnSite Project Number: 02-106

Initiated by: MM

Date Initiated: 2/16/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 3	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 22, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1004-105

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on April 17, 2010.

Please note that the calibration data for the diesel analyses will follow in the final report.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

Case Narrative

Samples were collected on April 16, 2010 and received by the laboratory on April 17, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

Due to the high concentration of Copper in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 108%.

The duplicate RPDs for Copper and Lead are outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

The Matrix Spike/Matrix Spike Duplicate RPD for Copper is outside control limits due to matrix effects. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-01				
Client ID:	**RA11-TP03A-10B-100416**				
Diesel Range Organics	**90**	54	4-19-10	4-20-10	Y
Lube Oil	**250**	110	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	75%	50-150			
Lab ID:	04-105-02				
Client ID:	**RA11-TP03B-10B-100416**				
Diesel Range Organics	**280**	85	4-19-10	4-20-10	Y
Lube Oil	**1100**	170	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	51%	50-150			
Lab ID:	04-105-03				
Client ID:	**RA11-TP04A-3.5S-100416**				
Diesel Range	**ND**	28	4-19-10	4-20-10	Y
Lube Oil Range	**ND**	56	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	75%	50-150			
Lab ID:	04-105-04				
Client ID:	**RA11-TP04B-3.5S-100416**				
Diesel Range	**ND**	28	4-19-10	4-20-10	Y
Lube Oil Range	**ND**	56	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	69%	50-150			
Lab ID:	04-105-05				
Client ID:	**RA11-TP04A-7.5S-100416**				
Diesel Range Organics	**340**	43	4-19-10	4-20-10	Y
Lube Oil	**860**	87	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	59%	50-150			

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-06				
Client ID:	**RA11-TP04B-7.5S-100416**				
Diesel Range Organics	**66**	42	4-19-10	4-20-10	Y
Lube Oil	**280**	84	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	66%	50-150			
Lab ID:	04-105-07				
Client ID:	**RA11-TP04A-10B-100416**				
Diesel Range Organics	**87**	37	4-19-10	4-20-10	Y
Lube Oil	**240**	75	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	60%	50-150			
Lab ID:	04-105-08				
Client ID:	**RA11-TP04B-10B-100416**				
Diesel Range Organics	**160**	52	4-19-10	4-20-10	Y
Lube Oil	**860**	100	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	64%	50-150			
Lab ID:	04-105-09				
Client ID:	**RA11-TP05A-3.5S-100416**				
Diesel Range	**ND**	28	4-19-10	4-20-10	Y
Lube Oil	**65**	55	4-19-10	4-20-10	Y
Surrogate: o-terphenyl	64%	50-150			
Lab ID:	04-105-10				
Client ID:	**RA11-TP05B-3.5S-100416**				
Diesel Range	**ND**	28	4-19&20-10	4-20-10	Y
Lube Oil	**78**	57	4-19&20-10	4-20-10	Y
Surrogate: o-terphenyl	88%	50-150			

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-11				
Client ID:	**RA11-TP05A-7.5S-100416**				
Diesel Range	**ND**	62	4-19&20-10	4-20-10	Y,U1
Lube Oil	**580**	99	4-19&20-10	4-20-10	Y
Surrogate: o-terphenyl	67%	50-150			
Lab ID:	04-105-12				
Client ID:	**RA11-TP05B-7.5S-100416**				
Diesel Range	**ND**	36	4-19&20-10	4-20-10	Y
Lube Oil	**230**	71	4-19&20-10	4-20-10	Y
Surrogate: o-terphenyl	85%	50-150			
Lab ID:	04-105-13				
Client ID:	**RA11-TP05A-10B-100416**				
Diesel Range	**ND**	33	4-20-10	4-20-10	Y
Lube Oil Range	**ND**	66	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	84%	50-150			
Lab ID:	04-105-14				
Client ID:	**RA11-TP01A-3.5S-100416R**				
Diesel Range	**ND**	29	4-20-10	4-20-10	Y
Lube Oil Range	**ND**	57	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	79%	50-150			
Lab ID:	04-105-15				
Client ID:	**RA11-TP01B-3.5S-100416**				
Diesel Range	**ND**	28	4-20-10	4-20-10	Y
Lube Oil	**350**	57	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	80%	50-150			

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-16				
Client ID:	**RA11-TP01A-7.5S-100416**				
Diesel Range	**ND**	83	4-20-10	4-20-10	Y,U1
Lube Oil	**680**	81	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	87%	50-150			
Lab ID:	04-105-17				
Client ID:	**RA11-TP01B-7.5S-100416**				
Diesel Range	**ND**	34	4-20-10	4-20-10	Y,U1
Lube Oil	**410**	65	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	93%	50-150			
Lab ID:	04-105-18				
Client ID:	**RA11-TP01A-10B-100416**				
Diesel Range Organics	**180**	39	4-20-10	4-20-10	Y
Lube Oil	**670**	79	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	83%	50-150			
Lab ID:	04-105-19				
Client ID:	**RA11-TP02A-3.5S-100416**				
Diesel Range	**ND**	47	4-20-10	4-20-10	Y,U1
Lube Oil	**540**	87	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	78%	50-150			
Lab ID:	04-105-20				
Client ID:	**RA11-TP02B-3.5S-100416**				
Diesel Range Organics	**280**	120	4-20-10	4-21-10	Y
Lube Oil	**860**	250	4-20-10	4-21-10	Y
Surrogate: o-terphenyl	80%	50-150			

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-21				
Client ID:	**RA11-TP02A-7.5S-100416**				
Diesel Range Organics	**100**	42	4-20-10	4-21-10	Y
Lube Oil	**660**	84	4-20-10	4-21-10	Y
Surrogate: o-terphenyl	83%	50-150			
Lab ID:	04-105-22				
Client ID:	**RA11-TP02B-7.5S-100416**				
Diesel Range Organics	**70**	40	4-20-10	4-20-10	Y
Lube Oil	**430**	79	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	83%	50-150			
Lab ID:	04-105-23				
Client ID:	**RA11-TP02A-10B-100416**				
Diesel Range Organics	**530**	41	4-20-10	4-20-10	Y
Lube Oil	**720**	82	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	90%	50-150			
Lab ID:	04-105-24				
Client ID:	**RA11-TP02B-10B-100416**				
Diesel Range	**ND**	33	4-20-10	4-20-10	Y
Lube Oil Range	**ND**	67	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	77%	50-150			
Lab ID:	04-105-25				
Client ID:	**RA11-TP03A-3.5S-100416**				
Diesel Range	**ND**	160	4-20-10	4-21-10	Y
Lube Oil	**1400**	320	4-20-10	4-21-10	Y
Surrogate: o-terphenyl	81%	50-150			

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-26				
Client ID:	**RA11-TP03B-3.5S-100416**				
Diesel Range	**ND**	32	4-20-10	4-21-10	Y
Lube Oil	**96**	64	4-20-10	4-21-10	Y
Surrogate: o-terphenyl	74%	50-150			
Lab ID:	04-105-27				
Client ID:	**RA11-TP03A-7.5S-100416**				
Diesel Range Organics	**410**	60	4-20-10	4-21-10	Y
Lube Oil	**1100**	120	4-20-10	4-21-10	Y
Surrogate: o-terphenyl	63%	50-150			
Lab ID:	04-105-28				
Client ID:	**RA11-TP03B-7.5S-100416**				
Diesel Range Organics	**67**	64	4-20-10	4-20-10	Y
Lube Oil	**280**	130	4-20-10	4-20-10	Y
Surrogate: o-terphenyl	79%	50-150			

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	4-19-10
Date Analyzed:	4-20-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0419S1
Diesel Range:	**ND**
PQL:	25
Identification:	---
Lube Oil Range:	**ND**
PQL:	50
Identification:	---
Surrogate Recovery	
o-Terphenyl:	83%
Flags:	Y

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	4-20-10
Date Analyzed:	4-20-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0420S2
Diesel Range:	**ND**
PQL:	25
Identification:	---
Lube Oil Range:	**ND**
PQL:	50
Identification:	---
Surrogate Recovery	
o-Terphenyl:	82%
Flags:	Y

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	4-19-10
Date Analyzed:	4-20-10
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	04-074-01	04-074-01 DUP
Diesel Range:	**ND**	**ND**
PQL:	25	25
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	76%	74%
Flags:	Y	Y

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	4-19-10
Date Analyzed:	4-20-10
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	04-105-01	04-105-01 DUP
Diesel Range:	**41.8**	**ND**
PQL:	25	25
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	75%	56%
Flags:	Y	Y

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	4-20-10
Date Analyzed:	4-20-10
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	04-105-13	04-105-13 DUP
Diesel Range:	**ND**	**ND**
PQL:	25	25
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	84%	88%
Flags:	Y	Y

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	4-20-10
Date Analyzed:	4-21-10
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	04-105-26	04-105-26 DUP
Diesel Range:	**ND**	**ND**
PQL:	25	25
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	74%	82%
Flags:	Y	Y

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

NWTPH-Dx
CONTINUING CALIBRATION SUMMARY

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-01					
Client ID:	**RA11-TP03A-10B-100416**					
Antimony	**14**	11	6010B	4-20-10	4-20-10	
Arsenic	**ND**	11	6010B	4-20-10	4-20-10	
Chromium	**30**	1.1	6010B	4-20-10	4-20-10	
Copper	**250**	2.2	6010B	4-20-10	4-20-10	
Lead	**160**	11	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.54	7471A	4-19-10	4-19-10	
Nickel	**34**	5.4	6010B	4-20-10	4-20-10	
Thallium	**ND**	5.4	6020	4-20-10	4-20-10	
Zinc	**170**	5.4	6010B	4-20-10	4-20-10	
Lab ID:	04-105-02					
Client ID:	**RA11-TP03B-10B-100416**					
Antimony	**ND**	17	6010B	4-20-10	4-20-10	
Arsenic	**ND**	17	6010B	4-20-10	4-20-10	
Chromium	**19**	1.7	6010B	4-20-10	4-20-10	
Copper	**320**	3.4	6010B	4-20-10	4-20-10	
Lead	**130**	17	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.85	7471A	4-19-10	4-19-10	
Nickel	**19**	8.5	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.3	6020	4-20-10	4-20-10	
Zinc	**130**	8.5	6010B	4-20-10	4-20-10	

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-03					
Client ID:	**RA11-TP04A-3.5S-100416**					
Antimony	**ND**	5.6	6010B	4-20-10	4-20-10	
Arsenic	**ND**	11	6010B	4-20-10	4-20-10	
Chromium	**35**	0.56	6010B	4-20-10	4-20-10	
Copper	**15**	1.1	6010B	4-20-10	4-20-10	
Lead	**ND**	5.6	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.28	7471A	4-19-10	4-19-10	
Nickel	**72**	2.8	6010B	4-20-10	4-20-10	
Thallium	**ND**	2.8	6020	4-20-10	4-20-10	
Zinc	**30**	2.8	6010B	4-20-10	4-20-10	
Lab ID:	04-105-04					
Client ID:	**RA11-TP04B-3.5S-100416**					
Antimony	**ND**	5.6	6010B	4-20-10	4-20-10	
Arsenic	**ND**	11	6010B	4-20-10	4-20-10	
Chromium	**35**	0.56	6010B	4-20-10	4-20-10	
Copper	**14**	1.1	6010B	4-20-10	4-20-10	
Lead	**ND**	5.6	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.28	7471A	4-19-10	4-19-10	
Nickel	**63**	2.8	6010B	4-20-10	4-20-10	
Thallium	**ND**	2.8	6020	4-20-10	4-20-10	
Zinc	**32**	2.8	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-05					
Client ID:	**RA11-TP04A-7.5S-100416**					
Antimony	**ND**	8.7	6010B	4-20-10	4-20-10	
Arsenic	**ND**	17	6010B	4-20-10	4-20-10	
Chromium	**41**	0.87	6010B	4-20-10	4-20-10	
Copper	**95**	1.7	6010B	4-20-10	4-20-10	
Lead	**48**	8.7	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.43	7471A	4-19-10	4-19-10	
Nickel	**61**	4.3	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.3	6020	4-20-10	4-20-10	
Zinc	**110**	4.3	6010B	4-20-10	4-20-10	
Lab ID:	04-105-06					
Client ID:	**RA11-TP04B-7.5S-100416**					
Antimony	**ND**	8.4	6010B	4-20-10	4-20-10	
Arsenic	**ND**	17	6010B	4-20-10	4-20-10	
Chromium	**36**	0.84	6010B	4-20-10	4-20-10	
Copper	**140**	1.7	6010B	4-20-10	4-20-10	
Lead	**110**	8.4	6010B	4-20-10	4-20-10	
Mercury	**0.72**	0.42	7471A	4-19-10	4-19-10	
Nickel	**65**	4.2	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.2	6020	4-20-10	4-20-10	
Zinc	**81**	4.2	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-07					
Client ID:	**RA11-TP04A-10B-100416**					
Antimony	**ND**	7.5	6010B	4-20-10	4-20-10	
Arsenic	**ND**	15	6010B	4-20-10	4-20-10	
Chromium	**29**	0.75	6010B	4-20-10	4-20-10	
Copper	**88**	1.5	6010B	4-20-10	4-20-10	
Lead	**360**	7.5	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.37	7471A	4-19-10	4-19-10	
Nickel	**31**	3.7	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.7	6020	4-20-10	4-20-10	
Zinc	**79**	3.7	6010B	4-20-10	4-20-10	
Lab ID:	04-105-08					
Client ID:	**RA11-TP04B-10B-100416**					
Antimony	**13**	10	6010B	4-20-10	4-20-10	
Arsenic	**11**	10	6010B	4-20-10	4-20-10	
Chromium	**16**	1.0	6010B	4-20-10	4-20-10	
Copper	**710**	2.1	6010B	4-20-10	4-20-10	
Lead	**530**	10	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.52	7471A	4-19-10	4-19-10	
Nickel	**29**	5.2	6010B	4-20-10	4-20-10	
Thallium	**ND**	5.2	6020	4-20-10	4-20-10	
Zinc	**180**	5.2	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-09					
Client ID:	**RA11-TP05A-3.5S-100416**					
Antimony	**ND**	5.5	6010B	4-20-10	4-20-10	
Arsenic	**ND**	11	6010B	4-20-10	4-20-10	
Chromium	**23**	0.55	6010B	4-20-10	4-20-10	
Copper	**28**	1.1	6010B	4-20-10	4-20-10	
Lead	**7.2**	5.5	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.28	7471A	4-19-10	4-19-10	
Nickel	**36**	2.8	6010B	4-20-10	4-20-10	
Thallium	**ND**	2.8	6020	4-20-10	4-20-10	
Zinc	**41**	2.8	6010B	4-20-10	4-20-10	
Lab ID:	04-105-10					
Client ID:	**RA11-TP05B-3.5S-100416**					
Antimony	**ND**	5.7	6010B	4-20-10	4-20-10	
Arsenic	**ND**	11	6010B	4-20-10	4-20-10	
Chromium	**23**	0.57	6010B	4-20-10	4-20-10	
Copper	**46**	1.1	6010B	4-20-10	4-20-10	
Lead	**14**	5.7	6010B	4-20-10	4-20-10	
Mercury	**0.65**	0.28	7471A	4-19-10	4-19-10	
Nickel	**45**	2.8	6010B	4-20-10	4-20-10	
Thallium	**ND**	2.8	6020	4-20-10	4-20-10	
Zinc	**55**	2.8	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-11					
Client ID:	**RA11-TP05A-7.5S-100416**					
Antimony	**11**	9.9	6010B	4-20-10	4-20-10	
Arsenic	**23**	20	6010B	4-20-10	4-20-10	
Chromium	**40**	0.99	6010B	4-20-10	4-20-10	
Copper	**150**	2.0	6010B	4-20-10	4-20-10	
Lead	**280**	9.9	6010B	4-20-10	4-20-10	
Mercury	**0.94**	0.49	7471A	4-19-10	4-19-10	
Nickel	**47**	4.9	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.9	6020	4-20-10	4-20-10	
Zinc	**130**	4.9	6010B	4-20-10	4-20-10	
Lab ID:	04-105-12					
Client ID:	**RA11-TP05B-7.5S-100416**					
Antimony	**8.1**	7.1	6010B	4-20-10	4-20-10	
Arsenic	**ND**	14	6010B	4-20-10	4-20-10	
Chromium	**17**	0.71	6010B	4-20-10	4-20-10	
Copper	**75**	1.4	6010B	4-20-10	4-20-10	
Lead	**1100**	7.1	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.35	7471A	4-19-10	4-19-10	
Nickel	**31**	3.5	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.5	6020	4-20-10	4-20-10	
Zinc	**120**	3.5	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-13					
Client ID:	**RA11-TP05A-10B-100416**					
Antimony	**ND**	6.6	6010B	4-20-10	4-20-10	
Arsenic	**ND**	13	6010B	4-20-10	4-20-10	
Chromium	**33**	0.66	6010B	4-20-10	4-20-10	
Copper	**42**	1.3	6010B	4-20-10	4-20-10	
Lead	**14**	6.6	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.33	7471A	4-19-10	4-19-10	
Nickel	**39**	3.3	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.3	6020	4-20-10	4-20-10	
Zinc	**51**	3.3	6010B	4-20-10	4-20-10	
Lab ID:	04-105-14					
Client ID:	**RA11-TP01A-3.5S-100416**					
Antimony	**ND**	5.7	6010B	4-20-10	4-20-10	
Arsenic	**ND**	11	6010B	4-20-10	4-20-10	
Chromium	**19**	0.57	6010B	4-20-10	4-20-10	
Copper	**24**	1.1	6010B	4-20-10	4-20-10	
Lead	**6.8**	5.7	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.29	7471A	4-19-10	4-19-10	
Nickel	**53**	2.9	6010B	4-20-10	4-20-10	
Thallium	**ND**	2.9	6020	4-20-10	4-20-10	
Zinc	**38**	2.9	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-15					
Client ID:	**RA11-TP01B-3.5S-100416**					
Antimony	**ND**	5.7	6010B	4-20-10	4-20-10	
Arsenic	**ND**	11	6010B	4-20-10	4-20-10	
Chromium	**28**	0.57	6010B	4-20-10	4-20-10	
Copper	**43**	1.1	6010B	4-20-10	4-20-10	
Lead	**57**	5.7	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.28	7471A	4-19-10	4-19-10	
Nickel	**54**	2.8	6010B	4-20-10	4-20-10	
Thallium	**ND**	2.8	6020	4-20-10	4-20-10	
Zinc	**97**	2.8	6010B	4-20-10	4-20-10	
Lab ID:	04-105-16					
Client ID:	**RA11-TP01A-7.5S-100416**					
Antimony	**ND**	8.1	6010B	4-20-10	4-20-10	
Arsenic	**ND**	16	6010B	4-20-10	4-20-10	
Chromium	**35**	0.81	6010B	4-20-10	4-20-10	
Copper	**35**	1.6	6010B	4-20-10	4-20-10	
Lead	**28**	8.1	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.40	7471A	4-19-10	4-19-10	
Nickel	**40**	4.0	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.0	6020	4-20-10	4-20-10	
Zinc	**87**	4.0	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-17					
Client ID:	**RA11-TP01B-7.5S-100416**					
Antimony	**ND**	6.5	6010B	4-20-10	4-20-10	
Arsenic	**ND**	13	6010B	4-20-10	4-20-10	
Chromium	**28**	0.65	6010B	4-20-10	4-20-10	
Copper	**34**	1.3	6010B	4-20-10	4-20-10	
Lead	**22**	6.5	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.33	7471A	4-19-10	4-19-10	
Nickel	**44**	3.3	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.3	6020	4-20-10	4-20-10	
Zinc	**76**	3.3	6010B	4-20-10	4-20-10	
Lab ID:	04-105-18					
Client ID:	**RA11-TP01A-10B-100416**					
Antimony	**ND**	7.9	6010B	4-20-10	4-20-10	
Arsenic	**ND**	16	6010B	4-20-10	4-20-10	
Chromium	**30**	0.79	6010B	4-20-10	4-20-10	
Copper	**60**	1.6	6010B	4-20-10	4-20-10	
Lead	**25**	7.9	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.39	7471A	4-19-10	4-19-10	
Nickel	**26**	3.9	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.9	6020	4-20-10	4-20-10	
Zinc	**120**	3.9	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-19					
Client ID:	**RA11-TP02A-3.5S-100416**					
Antimony	**ND**	8.7	6010B	4-20-10	4-20-10	
Arsenic	**ND**	17	6010B	4-20-10	4-20-10	
Chromium	**31**	0.87	6010B	4-20-10	4-20-10	
Copper	**170**	1.7	6010B	4-20-10	4-20-10	
Lead	**82**	8.7	6010B	4-20-10	4-20-10	
Mercury	**0.71**	0.43	7471A	4-19-10	4-19-10	
Nickel	**34**	4.3	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.3	6020	4-20-10	4-20-10	
Zinc	**49**	4.3	6010B	4-20-10	4-20-10	
Lab ID:	04-105-20					
Client ID:	**RA11-TP02B-3.5S-100416**					
Antimony	**ND**	25	6010B	4-20-10	4-20-10	
Arsenic	**ND**	20	6020	4-20-10	4-21-10	
Chromium	**24**	2.5	6010B	4-20-10	4-20-10	
Copper	**2700**	49	6010B	4-20-10	4-20-10	
Lead	**210**	25	6010B	4-20-10	4-20-10	
Mercury	**ND**	1.2	7471A	4-19-10	4-19-10	
Nickel	**23**	12	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.9	6020	4-20-10	4-20-10	
Zinc	**14**	12	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-21					
Client ID:	**RA11-TP02A-7.5S-100416**					
Antimony	**8.8**	8.4	6010B	4-20-10	4-20-10	
Arsenic	**ND**	17	6010B	4-20-10	4-20-10	
Chromium	**30**	0.84	6010B	4-20-10	4-20-10	
Copper	**180**	1.7	6010B	4-20-10	4-20-10	
Lead	**200**	8.4	6010B	4-20-10	4-20-10	
Mercury	**0.55**	0.42	7471A	4-19-10	4-19-10	
Nickel	**69**	4.2	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.2	6020	4-20-10	4-20-10	
Zinc	**110**	4.2	6010B	4-20-10	4-20-10	
Lab ID:	04-105-22					
Client ID:	**RA11-TP02B-7.5S-100416**					
Antimony	**ND**	7.9	6010B	4-20-10	4-20-10	
Arsenic	**ND**	16	6010B	4-20-10	4-20-10	
Chromium	**26**	0.79	6010B	4-20-10	4-20-10	
Copper	**170**	1.6	6010B	4-20-10	4-20-10	
Lead	**23**	7.9	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.40	7471A	4-19-10	4-19-10	
Nickel	**31**	4.0	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.0	6020	4-20-10	4-20-10	
Zinc	**59**	4.0	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-23					
Client ID:	**RA11-TP02A-10B-100416**					
Antimony	**73**	8.2	6010B	4-20-10	4-20-10	
Arsenic	**ND**	16	6010B	4-20-10	4-20-10	
Chromium	**32**	0.82	6010B	4-20-10	4-20-10	
Copper	**5500**	33	6010B	4-20-10	4-21-10	
Lead	**3300**	8.2	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.41	7471A	4-19-10	4-19-10	
Nickel	**22**	4.1	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.1	6020	4-20-10	4-20-10	
Zinc	**160**	4.1	6010B	4-20-10	4-20-10	
Lab ID:	04-105-24					
Client ID:	**RA11-TP02B-10B-100416**					
Antimony	**ND**	6.7	6010B	4-20-10	4-20-10	
Arsenic	**ND**	13	6010B	4-20-10	4-20-10	
Chromium	**15**	0.67	6010B	4-20-10	4-20-10	
Copper	**23**	1.3	6010B	4-20-10	4-21-10	
Lead	**ND**	6.7	6010B	4-20-10	4-21-10	
Mercury	**ND**	0.33	7471A	4-19-10	4-19-10	
Nickel	**31**	3.3	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.3	6020	4-20-10	4-20-10	
Zinc	**34**	3.3	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-25					
Client ID:	**RA11-TP03A-3.5S-100416**					
Antimony	**ND**	6.4	6010B	4-20-10	4-20-10	
Arsenic	**ND**	13	6010B	4-20-10	4-20-10	
Chromium	**32**	0.64	6010B	4-20-10	4-20-10	
Copper	**43**	1.3	6010B	4-20-10	4-20-10	
Lead	**270**	6.4	6010B	4-20-10	4-20-10	
Mercury	**0.54**	0.32	7471A	4-19-10	4-19-10	
Nickel	**44**	3.2	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.2	6020	4-20-10	4-20-10	
Zinc	**82**	3.2	6010B	4-20-10	4-20-10	
Lab ID:	04-105-26					
Client ID:	**RA11-TP03B-3.5S-100416**					
Antimony	**110**	6.4	6010B	4-20-10	4-20-10	
Arsenic	**ND**	13	6010B	4-20-10	4-20-10	
Chromium	**34**	0.64	6010B	4-20-10	4-20-10	
Copper	**200**	1.3	6010B	4-20-10	4-20-10	
Lead	**3200**	6.4	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.32	7471A	4-19-10	4-19-10	
Nickel	**45**	3.2	6010B	4-20-10	4-20-10	
Thallium	**ND**	3.2	6020	4-20-10	4-20-10	
Zinc	**89**	3.2	6010B	4-20-10	4-20-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-27					
Client ID:	**RA11-TP03A-7.5S-100416**					
Antimony	**44**	12	6010B	4-20-10	4-20-10	
Arsenic	**35**	12	6010B	4-20-10	4-20-10	
Chromium	**60**	1.2	6010B	4-20-10	4-20-10	
Copper	**1600**	24	6010B	4-20-10	4-21-10	
Lead	**910**	12	6010B	4-20-10	4-20-10	
Mercury	**1.0**	0.60	7471A	4-19-10	4-19-10	
Nickel	**170**	6.0	6010B	4-20-10	4-20-10	
Thallium	**ND**	4.8	6020	4-20-10	4-20-10	
Zinc	**830**	6.0	6010B	4-20-10	4-20-10	
Lab ID:	04-105-28					
Client ID:	**RA11-TP03B-7.5S-100416**					
Antimony	**19**	13	6010B	4-20-10	4-20-10	
Arsenic	**ND**	13	6010B	4-20-10	4-20-10	
Chromium	**30**	1.3	6010B	4-20-10	4-20-10	
Copper	**290**	2.6	6010B	4-20-10	4-20-10	
Lead	**140**	13	6010B	4-20-10	4-20-10	
Mercury	**ND**	0.64	7471A	4-19-10	4-19-10	
Nickel	**37**	6.4	6010B	4-20-10	4-20-10	
Thallium	**ND**	5.1	6020	4-20-10	4-20-10	
Zinc	**200**	6.4	6010B	4-20-10	4-20-10	

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-19&20-10
Date Analyzed: 4-19&20-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0419S7,MB0420S1&MB0420S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	5.0
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	1.3
Zinc	6010B	**ND**	2.5

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-19&20-10
Date Analyzed: 4-19,20&21-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0419S8,MB0420S2&MB0420S4

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6020	**ND**	4.0
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	1.0
Zinc	6010B	**ND**	2.5

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 4-19&20-10
Date Analyzed: 4-19&20-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-105-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**31.7**	**37.1**	16	0.50	
Copper	**13.5**	**14.2**	5	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**64.9**	**56.2**	14	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**27.4**	**26.7**	3	2.5	

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 4-19&20-10
Date Analyzed: 4-19,20&21-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-105-20

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	4.0	
Chromium	**4.88**	**5.09**	4	0.50	
Copper	**541**	**253**	73	1.0	K
Lead	**43.0**	**24.0**	57	5.0	K
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**4.75**	**13.8**	97	2.5	C
Thallium	**ND**	**ND**	NA	1.0	
Zinc	**2.80**	**5.08**	58	2.5	C

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 4-19&20-10
Date Analyzed: 4-19&20-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-105-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.6**	92	**96.4**	96	5	
Arsenic	100	**102**	102	**106**	106	3	
Chromium	100	**121**	89	**123**	91	2	
Copper	50	**63.7**	100	**65.5**	104	3	
Lead	250	**229**	92	**232**	93	1	
Mercury	0.50	**0.468**	94	**0.479**	96	2	
Nickel	100	**151**	86	**154**	90	2	
Thallium	50	**51.4**	103	**52.8**	106	3	
Zinc	100	**123**	96	**125**	98	2	

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 4-19&20-10
Date Analyzed: 4-19,20&21-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-105-20

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.4**	91	**91.5**	92	0	
Arsenic	100	**101**	101	**108**	108	7	
Chromium	100	**101**	96	**102**	98	1	
Copper	75	**268**	0	**627**	114	80	A, W
Lead	375	**367**	86	**398**	95	8	
Mercury	0.50	**0.401**	80	**0.411**	82	3	
Nickel	100	**102**	97	**107**	102	6	
Thallium	50	**51.5**	103	**53.6**	107	4	
Zinc	100	**101**	98	**103**	100	2	

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1042010P	1.00	0.975	2.5	+/- 10%
Arsenic	ICV1042010P	1.00	1.00	0	+/- 10%
Chromium	ICV1042010P	1.00	1.02	-2.4	+/- 10%
Copper	ICV1042010P	1.00	1.01	-1.3	+/- 10%
Lead	ICV1042010P	1.00	1.04	-4.2	+/- 10%
Mercury	ICV1041910Y	0.00500	0.00475	5.0	+/- 10%
Nickel	ICV1042010P	1.00	1.04	-3.9	+/- 10%
Thallium	ICV1042010E	0.0500	0.0509	-1.9	+/- 10%
Zinc	ICV1042010P	1.00	0.985	1.5	+/- 10%
Antimony	CCV1042010P	1.00	0.982	1.8	+/- 10%
Arsenic	CCV1042010P	1.00	0.990	1.0	+/- 10%
Chromium	CCV1042010P	1.00	1.01	-1.3	+/- 10%
Copper	CCV1042010P	1.00	1.01	-0.64	+/- 10%
Lead	CCV1042010P	10.0	9.97	0.34	+/- 10%
Mercury	CCV1041910Y	0.00500	0.00503	-0.56	+/- 20%
Nickel	CCV1042010P	1.00	1.01	-1.1	+/- 10%
Thallium	CCV1042010E	0.0400	0.0402	-0.55	+/- 10%
Zinc	CCV1042010P	1.00	0.992	0.79	+/- 10%
Antimony	CCV2042010P	1.00	0.964	3.6	+/- 10%
Arsenic	CCV2042010P	1.00	0.999	0.068	+/- 10%
Chromium	CCV2042010P	1.00	1.01	-1.1	+/- 10%
Copper	CCV2042010P	1.00	1.00	0	+/- 10%
Lead	CCV2042010P	10.0	9.93	0.72	+/- 10%
Mercury	CCV2041910Y	0.00500	0.00518	-3.5	+/- 20%
Nickel	CCV2042010P	1.00	1.01	-0.76	+/- 10%
Thallium	CCV2042010E	0.0400	0.0420	-4.9	+/- 10%
Zinc	CCV2042010P	1.00	0.991	0.90	+/- 10%
Antimony	CCV3042010P	1.00	0.986	1.4	+/- 10%
Arsenic	CCV3042010P	1.00	0.996	0.39	+/- 10%
Chromium	CCV3042010P	1.00	1.02	-1.6	+/- 10%
Copper	CCV3042010P	1.00	1.01	-0.91	+/- 10%
Lead	CCV3042010P	10.0	10.0	0	+/- 10%
Mercury	CCV3041910Y	0.00500	0.00489	2.3	+/- 20%
Nickel	CCV3042010P	1.00	1.02	-1.7	+/- 10%
Thallium	CCV3042010E	0.0400	0.0424	-6.1	+/- 10%
Zinc	CCV3042010P	1.00	0.999	0.066	+/- 10%

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4042010P	1.00	0.997	0.29	+/- 10%
Arsenic	CCV4042010P	1.00	0.990	1.0	+/- 10%
Chromium	CCV4042010P	1.00	1.02	-1.6	+/- 10%
Copper	CCV4042010P	1.00	1.01	-1.1	+/- 10%
Lead	CCV4042010P	10.0	10.0	0	+/- 10%
Mercury	CCV4041910Y	0.00500	0.00516	-3.2	+/- 20%
Nickel	CCV4042010P	1.00	1.00	0	+/- 10%
Thallium	CCV4042010E	0.0400	0.0430	-7.5	+/- 10%
Zinc	CCV4042010P	1.00	0.997	0.30	+/- 10%
Antimony	CCV5042010P	1.00	0.990	1.0	+/- 10%
Arsenic	CCV5042010P	1.00	0.993	0.70	+/- 10%
Chromium	CCV5042010P	1.00	1.02	-1.9	+/- 10%
Copper	CCV5042010P	1.00	1.02	-1.8	+/- 10%
Lead	CCV5042010P	10.0	10.0	0	+/- 10%
Mercury	CCV5041910Y	0.00500	0.00513	-2.6	+/- 20%
Nickel	CCV5042010P	1.00	1.03	-2.6	+/- 10%
Thallium	CCV5042010E	0.0400	0.0431	-7.7	+/- 10%
Zinc	CCV5042010P	1.00	1.00	0	+/- 10%
Antimony	CCV6042010P	1.00	1.04	-4.4	+/- 10%
Arsenic	CCV6042010P	1.00	1.05	-5.3	+/- 10%
Chromium	CCV6042010P	1.00	1.05	-5.5	+/- 10%
Copper	CCV6042010P	1.00	1.04	-4.4	+/- 10%
Lead	CCV6042010P	10.0	10.4	-3.6	+/- 10%
Mercury	CCV6041910Y	0.00500	0.00510	-2.1	+/- 20%
Nickel	CCV6042010P	1.00	1.05	-5.4	+/- 10%
Thallium	CCV6042010E	0.0400	0.0429	-7.2	+/- 10%
Zinc	CCV6042010P	1.00	1.04	-3.5	+/- 10%
Antimony	CCV7042010P	1.00	1.04	-3.6	+/- 10%
Arsenic	CCV7042010P	1.00	1.01	-1.5	+/- 10%
Chromium	CCV7042010P	1.00	1.04	-4.0	+/- 10%
Copper	CCV7042010P	1.00	1.04	-3.9	+/- 10%
Lead	CCV7042010P	10.0	10.2	-2.1	+/- 10%
Mercury	CCV7041910Y	0.00500	0.00515	-3.0	+/- 20%
Nickel	CCV7042010P	1.00	1.04	-3.7	+/- 10%
Zinc	CCV7042010P	1.00	1.02	-1.8	+/- 10%

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV8042010P	1.00	0.989	1.1	+/- 10%
Arsenic	CCV8042010P	1.00	0.998	0.23	+/- 10%
Chromium	CCV8042010P	1.00	1.03	-2.5	+/- 10%
Copper	CCV8042010P	1.00	1.02	-2.2	+/- 10%
Lead	CCV8042010P	10.0	10.1	-1.1	+/- 10%
Mercury	CCV8041910Y	0.00500	0.00513	-2.6	+/- 20%
Nickel	CCV8042010P	1.00	1.03	-3.2	+/- 10%
Zinc	CCV8042010P	1.00	1.01	-0.70	+/- 10%
Antimony	CCV9042010P	1.00	0.993	0.70	+/- 10%
Arsenic	CCV9042010P	1.00	0.995	0.49	+/- 10%
Chromium	CCV9042010P	1.00	1.03	-3.3	+/- 10%
Copper	CCV9042010P	1.00	1.03	-2.6	+/- 10%
Lead	CCV9042010P	10.0	10.2	-1.8	+/- 10%
Mercury	CCV9041910Y	0.00500	0.00505	-1.0	+/- 20%
Nickel	CCV9042010P	1.00	1.03	-2.7	+/- 10%
Zinc	CCV9042010P	1.00	1.01	-0.70	+/- 10%
Chromium	CCV10042010P	1.00	1.03	-2.8	+/- 10%
Copper	CCV10042010P	1.00	1.03	-3.3	+/- 10%
Lead	CCV10042010P	10.0	10.1	-1.1	+/- 10%
Mercury	CCV10041910Y	0.00500	0.00508	-1.6	+/- 20%
Chromium	CCV11042010P	1.00	1.03	-3.0	+/- 10%
Copper	CCV11042010P	1.00	1.02	-2.5	+/- 10%
Lead	CCV11042010P	10.0	10.1	-0.84	+/- 10%
Mercury	CCV11041910Y	0.00500	0.00500	0	+/- 20%
Chromium	CCV12042010P	1.00	1.03	-3.4	+/- 10%
Copper	CCV12042010P	1.00	1.05	-4.8	+/- 10%
Lead	CCV12042010P	10.0	10.1	-1.4	+/- 10%
Mercury	CCV12041910Y	0.00500	0.00513	-2.5	+/- 20%

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV1042110E	0.0500	0.0501	-0.12	+/- 10%
Copper	ICV1042110P	1.00	1.00	0	+/- 10%
Lead	ICV1042110P	1.00	1.00	0	+/- 10%
Arsenic	CCV1042110E	0.0400	0.0406	-1.4	+/- 10%
Copper	CCV1042110P	1.00	0.995	0.51	+/- 10%
Lead	CCV1042110P	10.0	9.82	1.8	+/- 10%
Arsenic	CCV2042110E	0.0400	0.0405	-1.3	+/- 10%
Copper	CCV2042110P	1.00	0.999	0.10	+/- 10%
Lead	CCV2042110P	10.0	9.92	0.81	+/- 10%
Copper	CCV3042110P	1.00	1.03	-2.7	+/- 10%
Lead	CCV3042110P	10.0	10.1	-0.64	+/- 10%
Copper	CCV4042110P	1.00	1.04	-4.1	+/- 10%
Lead	CCV4042110P	10.0	10.1	-0.75	+/- 10%

Date of Report: April 22, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105
Project: 000105-01

% MOISTURE

Date Analyzed: 4-19-10

Client ID	Lab ID	% Moisture
RA11-TP03A-10B-100416	04-105-01	54
RA11-TP03B-10B-100416	04-105-02	71
RA11-TP04A-3.5S-100416	04-105-03	10
RA11-TP04B-3.5S-100416	04-105-04	11
RA11-TP04A-7.5S-100416	04-105-05	42
RA11-TP04B-7.5S-100416	04-105-06	40
RA11-TP04A-10B-100416	04-105-07	33
RA11-TP04B-10B-100416	04-105-08	52
RA11-TP05A-3.5S-100416	04-105-09	10
RA11-TP05B-3.5S-100416	04-105-10	12
RA11-TP05A-7.5S-100416	04-105-11	49
RA11-TP05B-7.5S-100416	04-105-12	29
RA11-TP05A-10B-100416	04-105-13	24
RA11-TP01A-3.5S-100416	04-105-14	13
RA11-TP01B-3.5S-100416	04-105-15	12
RA11-TP01A-7.5S-100416	04-105-16	38
RA11-TP01B-7.5S-100416	04-105-17	23
RA11-TP01A-10B-100416	04-105-18	36
RA11-TP02A-3.5S-100416	04-105-19	42
RA11-TP02B-3.5S-100416	04-105-20	80
RA11-TP02A-7.5S-100416	04-105-21	40
RA11-TP02B-7.5S-100416	04-105-22	37
RA11-TP02A-10B-100416	04-105-23	39
RA11-TP02B-10B-100416	04-105-24	25
RA11-TP03A-3.5S-100416	04-105-25	22
RA11-TP03B-3.5S-100416	04-105-26	22
RA11-TP03A-7.5S-100416	04-105-27	58
RA11-TP03B-7.5S-100416	04-105-28	61

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

04-105

Date: April 16, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method:

ANCHOR QEA

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Metals/TPH-Dx	Test Parameters: Archive	Test Parameters: % Moisture	Comments/Preservation
1	RA11-TP03A-10B-1004 16	16 April 10/1150	soil	1	✓		X	8oz only
2	RA11-TP03B-10B-1004 16	1155		1	✓			8oz only
3	RA11-TP04A-3.5S-1004 16	1220		2	✓	✓		archive the 16-oz jar
4	RA11-TP04B-3.5S-1004 16	1225		2	✓	✓		
5	RA11-TP04A-7.5S-1004 16	1230		2	✓	✓		
6	RA11-TP04B-7.5S-1004 16	1235		2	✓	✓		
7	RA11-TP04A-10B-1004 16	1240		1	✓			8-oz only
8	RA11-TP04B-10B-1004 16	1250		1	✓			8oz-only
9	RA11-TP05A-3.5S-1004 16	1310		2	✓	✓		
10	RA11-TP05B-3.5S-1004 16	1315		2	✓	✓		
11	RA11-TP05A-7.5S-1004 16	1325		2	✓	✓		
12	RA11-TP05B-7.5S-1004 16	1335		2	✓	✓		
13	RA11-TP05A-10B-1004 16	1340		1	✓	✓		8oz only
14	RA11-TP___-___-1004__							
15	RA11-TP___-___-1004__							

4 WCC 4/16/10

Metals: ~~Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn~~ same as previous

Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn results by COB Wed 4/21/2010

Relinquished By:	Company: Anchor QEA, LLC	Received By:	Company: OnSite Env.
R Desrosiers	4/17/2010		4/17/10 2010
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

04-105

Chain of Custody Record & Laboratory Analysis Request

Date: April 16, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method:

ANCHOR QEA

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Metals/TPH-Dx	Archive	% MOISTURE	Comments/Preservation
14	RA11-TP01A-3.5S-100416	16April10/0833	soil	2	✓	✓	X	Archive 16oz jar
15	RA11-TP01B-3.5S-100416	0840		2	✓	✓		
16	RA11-TP01A-7.5S-100416	0910		2	✓	✓		
17	RA11-TP01B-7.5S-100416	0930		2	✓	✓		
18	RA11-TP01B-10B-100416	0940		1	✓			8oz only
19	RA11-TP02A-3.5S-100416	1005		2	✓	✓		
20	RA11-TP02B-3.5S-100416	1015		2	✓	✓		
21	RA11-TP02A-7.5S-100416	1035		2	✓	✓		
22	RA11-TP02B-7.5S-100416	1040		2	✓	✓		
23	RA11-TP02A-10B-100416	1050		1	✓			8oz only
24	RA11-TP02B-10B-100416	1055		1	✓			8oz only
25	RA11-TP03A-3.5S-100416	1115		2	✓	✓		
26	RA11-TP03B-3.5S-100416	1125		2	✓	✓		
27	RA11-TP03A-7.5S-100416	1135		2	✓	✓		
28	RA11-TP03B-7.5S-100416	1140		2	✓	✓		

Test Parameters

Metals: ~~Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn~~ same as previous
Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Relinquished By:	Company:	Received By:	Company:
R Desrosiers	Anchor QEA, LLC		OnSite Env
R-Desrosiers	4/17/2010		4/17/10
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01

OnSite Project Number: 04-105

Initiated by: MBG

Date Initiated: 4/17&19/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 2°, 4° C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

2.4) Sample 15) RA-11-TP01B-3.5S-100416 4/16/10 0840 on COC
RA-11-TP01B-7.5S-100416 " " on label
TP01B-3.5 on lid

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 14, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1004-105C

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on April 17, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

Case Narrative

Samples were collected on April 16, 2010 and received by the laboratory on April 17, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

SPLP Metals EPA 1312/6010B/7470A Analysis

The SPLP fluid was prepared to a pH of 5.5, as per client request.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A

Matrix: SPLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-23					
Client ID:	**RA11-TP02A-10B-100416**					
Antimony	**ND**	0.20	6010B	5-12-10	5-12-10	
Arsenic	**ND**	0.40	6010B	5-12-10	5-12-10	
Chromium	**ND**	0.020	6010B	5-12-10	5-12-10	
Copper	**0.16**	0.020	6010B	5-12-10	5-12-10	
Lead	**0.53**	0.20	6010B	5-12-10	5-12-10	
Mercury	**ND**	0.0050	7470A	5-12-10	5-12-10	
Nickel	**ND**	0.10	6010B	5-12-10	5-12-10	
Thallium	**ND**	0.40	6010B	5-12-10	5-12-10	
Zinc	**0.47**	0.10	6010B	5-12-10	5-12-10	
Lab ID:	04-105-27					
Client ID:	**RA11-TP03A-7.5S-100416**					
Antimony	**ND**	0.20	6010B	5-12-10	5-12-10	
Arsenic	**ND**	0.40	6010B	5-12-10	5-12-10	
Chromium	**ND**	0.020	6010B	5-12-10	5-12-10	
Copper	**0.064**	0.020	6010B	5-12-10	5-12-10	
Lead	**ND**	0.20	6010B	5-12-10	5-12-10	
Mercury	**ND**	0.0050	7470A	5-12-10	5-12-10	
Nickel	**ND**	0.10	6010B	5-12-10	5-12-10	
Thallium	**ND**	0.40	6010B	5-12-10	5-12-10	
Zinc	**ND**	0.10	6010B	5-12-10	5-12-10	

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
METHOD BLANK QUALITY CONTROL

Date Prepared:	5-11-10
Date Extracted:	5-12-10
Date Analyzed:	5-12-10
Matrix:	SPLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0512SP1&MB0512SP2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	0.20
Arsenic	6010B	**ND**	0.40
Chromium	6010B	**ND**	0.020
Copper	6010B	**ND**	0.020
Lead	6010B	**ND**	0.20
Mercury	7470A	**ND**	0.0050
Nickel	6010B	**ND**	0.10
Thallium	6010B	**ND**	0.40
Zinc	6010B	**ND**	0.10

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
DUPLICATE QUALITY CONTROL

Date Prepared: 5-11-10
Date Extracted: 5-12-10
Date Analyzed: 5-12-10

Matrix: SPLP Extract
Units: mg/L (ppm)

Lab ID: 04-105-23

Analyte	Sample Result	Duplicate Result	RPD	Flags	PQL
Antimony	**ND**	**ND**	NA		0.20
Arsenic	**ND**	**ND**	NA		0.40
Chromium	**ND**	**ND**	NA		0.020
Copper	**0.160**	**0.162**	2		0.020
Lead	**0.525**	**0.477**	10		0.20
Mercury	**ND**	**ND**	NA		0.0050
Nickel	**ND**	**ND**	NA		0.10
Thallium	**ND**	**ND**	NA		0.40
Zinc	**0.471**	**0.458**	3		0.10

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
MS/MSD QUALITY CONTROL

Date Prepared: 5-11-10
Date Extracted: 5-12-10
Date Analyzed: 5-12-10

Matrix: SPLP Extract
Units: mg/L (ppm)

Lab ID: 04-105-23

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	4.0	**3.27**	82	**3.36**	84	3	
Arsenic	4.0	**3.48**	87	**3.66**	92	5	
Chromium	4.0	**3.59**	90	**3.84**	96	7	
Copper	2.0	**1.99**	91	**2.13**	99	7	
Lead	10	**9.03**	85	**9.61**	91	6	
Mercury	0.050	**0.0462**	92	**0.0472**	94	2	
Nickel	4.0	**3.69**	92	**3.96**	99	7	
Thallium	2.0	**1.62**	81	**1.59**	79	2	
Zinc	4.0	**4.04**	89	**4.31**	96	7	

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
SPIKE BLANK QUALITY CONTROL

Date Prepared: 5-11-10
Date Extracted: 5-12-10
Date Analyzed: 5-12-10

Matrix: SPLP Extract
Units: mg/L (ppm)

Lab ID: SB0512SP1&SB0512SP2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	4.0	**3.67**	92
Arsenic	6010B	4.0	**3.59**	90
Chromium	6010B	4.0	**3.77**	94
Copper	6010B	2.0	**1.92**	96
Lead	6010B	10	**8.97**	90
Mercury	7470A	0.050	**0.0455**	91
Nickel	6010B	4.0	**3.78**	94
Thallium	6010B	2.0	**1.81**	90
Zinc	6010B	4.0	**3.70**	93

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1051210P	1.00	0.947	5.3	+/- 10%
Arsenic	ICV1051210P	1.00	0.976	2.4	+/- 10%
Chromium	ICV1051210P	1.00	1.01	-0.52	+/- 10%
Copper	ICV1051210P	1.00	0.993	0.71	+/- 10%
Lead	ICV1051210P	1.00	0.997	0.30	+/- 10%
Mercury	ICV1051210Y	0.00500	0.00497	0.64	+/- 10%
Nickel	ICV1051210P	1.00	1.01	-0.51	+/- 10%
Thallium	ICV1051210P	1.00	0.975	2.5	+/- 10%
Zinc	ICV1051210P	1.00	0.998	0.24	+/- 10%
Antimony	CCV1051210P	1.00	0.925	7.5	+/- 10%
Arsenic	CCV1051210P	1.00	0.939	6.1	+/- 10%
Chromium	CCV1051210P	1.00	0.960	4.0	+/- 10%
Copper	CCV1051210P	1.00	0.953	4.7	+/- 10%
Lead	CCV1051210P	10.0	9.52	4.8	+/- 10%
Mercury	CCV1051210Y	0.00500	0.00503	-0.52	+/- 20%
Nickel	CCV1051210P	1.00	0.957	4.3	+/- 10%
Thallium	CCV1051210P	1.00	0.910	9.0	+/- 10%
Zinc	CCV1051210P	1.00	0.951	4.9	+/- 10%
Antimony	CCV2051210P	1.00	0.936	6.4	+/- 10%
Arsenic	CCV2051210P	1.00	0.931	6.9	+/- 10%
Chromium	CCV2051210P	1.00	0.956	4.4	+/- 10%
Copper	CCV2051210P	1.00	0.963	3.7	+/- 10%
Lead	CCV2051210P	10.0	9.45	5.5	+/- 10%
Mercury	CCV2051210Y	0.00500	0.00500	0	+/- 20%
Nickel	CCV2051210P	1.00	0.952	4.8	+/- 10%
Thallium	CCV2051210P	1.00	0.923	7.7	+/- 10%
Zinc	CCV2051210P	1.00	0.941	5.9	+/- 10%

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A

Matrix: SPLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-105-12					
Client ID:	**RA11-TP05B-7.5S-100416**					
Antimony	**ND**	0.20	6010B	5-13-10	5-13-10	
Arsenic	**ND**	0.40	6010B	5-13-10	5-13-10	
Chromium	**ND**	0.020	6010B	5-13-10	5-13-10	
Copper	**ND**	0.020	6010B	5-13-10	5-13-10	
Lead	**ND**	0.20	6010B	5-13-10	5-13-10	
Mercury	**ND**	0.0050	7470A	5-13-10	5-13-10	
Nickel	**ND**	0.10	6010B	5-13-10	5-13-10	
Thallium	**ND**	0.40	6010B	5-13-10	5-13-10	
Zinc	**ND**	0.10	6010B	5-13-10	5-13-10	

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
METHOD BLANK QUALITY CONTROL

Date Prepared:	5-12-10
Date Extracted:	5-13-10
Date Analyzed:	5-13-10
Matrix:	SPLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0513SP1&MB0513SP2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	0.20
Arsenic	6010B	**ND**	0.40
Chromium	6010B	**ND**	0.020
Copper	6010B	**ND**	0.020
Lead	6010B	**ND**	0.20
Mercury	7470A	**ND**	0.0050
Nickel	6010B	**ND**	0.10
Thallium	6010B	**ND**	0.40
Zinc	6010B	**ND**	0.10

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
DUPLICATE QUALITY CONTROL

Date Prepared: 5-12-10
Date Extracted: 5-13-10
Date Analyzed: 5-13-10

Matrix: SPLP Extract
Units: mg/L (ppm)

Lab ID: 04-105-12

Analyte	Sample Result	Duplicate Result	RPD	Flags	PQL
Antimony	**ND**	**ND**	NA		0.20
Arsenic	**ND**	**ND**	NA		0.40
Chromium	**ND**	**ND**	NA		0.020
Copper	**ND**	**ND**	NA		0.020
Lead	**ND**	**ND**	NA		0.20
Mercury	**ND**	**ND**	NA		0.0050
Nickel	**ND**	**ND**	NA		0.10
Thallium	**ND**	**ND**	NA		0.40
Zinc	**ND**	**ND**	NA		0.10

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
MS/MSD QUALITY CONTROL

Date Prepared: 5-12-10
Date Extracted: 5-13-10
Date Analyzed: 5-13-10

Matrix: SPLP Extract
Units: mg/L (ppm)

Lab ID: 04-105-12

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	4.0	**3.87**	97	**4.01**	100	4	
Arsenic	4.0	**3.68**	92	**3.84**	96	4	
Chromium	4.0	**3.88**	97	**4.02**	101	4	
Copper	2.0	**2.03**	102	**2.11**	106	4	
Lead	10	**9.16**	92	**9.41**	94	3	
Mercury	0.050	**0.0474**	95	**0.0473**	95	0	
Nickel	4.0	**3.84**	96	**3.96**	99	3	
Thallium	2.0	**2.01**	100	**1.98**	99	1	
Zinc	4.0	**3.82**	96	**3.93**	98	3	

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
SPIKE BLANK QUALITY CONTROL

Date Prepared: 5-12-10
Date Extracted: 5-13-10
Date Analyzed: 5-13-10

Matrix: SPLP Extract
Units: mg/L (ppm)

Lab ID: SB0513SP1&SB0513SP2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	4.0	**3.90**	98
Arsenic	6010B	4.0	**3.76**	94
Chromium	6010B	4.0	**3.99**	100
Copper	6010B	2.0	**2.09**	105
Lead	6010B	10	**9.36**	94
Mercury	7470A	0.050	**0.0470**	94
Nickel	6010B	4.0	**3.95**	99
Thallium	6010B	2.0	**2.01**	100
Zinc	6010B	4.0	**3.88**	97

Date of Report: May 14, 2010
Samples Submitted: April 17, 2010
Laboratory Reference: 1004-105C
Project: 000105-01

SPLP Metals
EPA 1312/6010B/7470A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1051310P	1.00	0.982	1.8	+/- 10%
Arsenic	ICV1051310P	1.00	0.957	4.3	+/- 10%
Chromium	ICV1051310P	1.00	1.03	-3.3	+/- 10%
Copper	ICV1051310P	1.00	1.03	-3.3	+/- 10%
Lead	ICV1051310P	1.00	1.01	-1.0	+/- 10%
Mercury	ICV1051310Y	0.00500	0.00482	3.5	+/- 10%
Nickel	ICV1051310P	1.00	1.03	-2.5	+/- 10%
Thallium	ICV1051310P	1.00	0.952	4.8	+/- 10%
Zinc	ICV1051310P	1.00	1.01	-0.51	+/- 10%
Antimony	CCV1051310P	1.00	0.941	5.9	+/- 10%
Arsenic	CCV1051310P	1.00	0.929	7.1	+/- 10%
Chromium	CCV1051310P	1.00	0.979	2.1	+/- 10%
Copper	CCV1051310P	1.00	0.991	0.94	+/- 10%
Lead	CCV1051310P	10.0	9.66	3.4	+/- 10%
Mercury	CCV1051310Y	0.00500	0.00504	-0.82	+/- 20%
Nickel	CCV1051310P	1.00	0.977	2.3	+/- 10%
Thallium	CCV1051310P	1.00	0.947	5.3	+/- 10%
Zinc	CCV1051310P	1.00	0.956	4.4	+/- 10%
Antimony	CCV2051310P	1.00	0.950	5.0	+/- 10%
Arsenic	CCV2051310P	1.00	0.932	6.8	+/- 10%
Chromium	CCV2051310P	1.00	0.969	3.1	+/- 10%
Copper	CCV2051310P	1.00	0.996	0.39	+/- 10%
Lead	CCV2051310P	10.0	9.49	5.1	+/- 10%
Mercury	CCV2051310Y	0.00500	0.00518	-3.5	+/- 20%
Nickel	CCV2051310P	1.00	0.956	4.4	+/- 10%
Thallium	CCV2051310P	1.00	0.913	8.7	+/- 10%
Zinc	CCV2051310P	1.00	0.944	5.6	+/- 10%
Antimony	CCV3051310P	1.00	0.936	6.4	+/- 10%
Arsenic	CCV3051310P	1.00	0.923	7.7	+/- 10%
Chromium	CCV3051310P	1.00	0.972	2.8	+/- 10%
Copper	CCV3051310P	1.00	1.00	0	+/- 10%
Lead	CCV3051310P	10.0	9.58	4.2	+/- 10%
Nickel	CCV3051310P	1.00	0.966	3.4	+/- 10%
Thallium	CCV3051310P	1.00	0.908	9.2	+/- 10%
Zinc	CCV3051310P	1.00	0.955	4.5	+/- 10%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

04-105

Date: April 16, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method:

ANCHOR QEA

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Metals/TPH-Dx	Test Parameters: Archive	Test Parameters: SPLP Metals	Test Parameters: % Moisture	Comments/Preservation
1	RA11-TP03A-10B-100416	16 April 10/1150	soil	1	✓			X	8oz only
2	RA11-TP03B-10B-100416	1155		1	✓				8oz only
3	RA11-TP04A-3.5S-100416	1220		2	✓	✓			archive the 16-oz jar
4	RA11-TP04B-3.5S-100416	1225		2	✓	✓			
5	RA11-TP04A-7.5S-100416	1230		2	✓	✓			
6	RA11-TP04B-7.5S-100416	1235		2	✓	✓			
7	RA11-TP04A-10B-100416	1240		1	✓				8-oz only
8	RA11-TP04B-10B-100416	1250		1	✓				8oz-only
9	RA11-TP05A-3.5S-100416	1310		2	✓	✓			
10	RA11-TP05B-3.5S-100416	1315		2	✓	✓			
11	RA11-TP05A-7.5S-100416	1325		2	✓	✓			
12	RA11-TP05B-7.5S-100416	1335		2	✓	✓	⊗		
13	RA11-TP05A-10B-100416	1340		1	✓	✓		↓	8oz only
14	RA11-TP___-___-1004__								
15	RA11-TP___-___-1004__								

4 WK 4/16/10

Metals: ~~Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn~~ same as previous
Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn per email by COB Wed 4/21/2010
⊗ Added 5/10/10. DB (2 day TAT)

Relinquished By:	Company:	Received By:	Company:
R. Desrosiers	Anchor QEA, LLC		OnSite Env
Signature/Printed Name	4/17/2010 Date/Time	Signature/Printed Name	4/17/10 2010 Date/Time
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Chain of Custody Record & Laboratory Analysis Request

04-105

ANCHOR QEA

Date: april 16, 2010
Laboratory Number: OnSite Environmental
Project Name: Kimberly Clark Phase 4
Project Number: 000105-01
Project Manager: Rebecca Desrosiers
Phone Number: 206.287.9130
Shipment Method:

	Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Metals/TPH-Dx	Archive	METALS RE-ANALYSIS	SPLP Metals	% MOISTURE	Comments/Preservation
14	~~1~~	RA11-TP01A-3.5S-100416	16April10/0833	soil	2	✓	✓			X	Archive 16OZ jar
15	~~2~~	RA11-TP01B-3.5S-100416	0840	↓	2	✓	✓			↓	↓
16	~~3~~	RA11-TP01A-7.5S-100416	0910		2	✓	✓				
17	~~4~~	RA11-TP01B-7.5S-100416	0930		2	✓	✓				
18	~~5~~	RA11-TP01B 10 B-100416	0940		1	✓					8oz only
19	~~6~~	RA11-TP02A-3.5S-100416	1005		2	✓	✓				
20	~~7~~	RA11-TP02B-3.5S-100416	1015		2	✓	✓				
21	~~8~~	RA11-TP02A-7.5S-100416	1035		2	✓	✓				
22	~~9~~	RA11-TP02B 7.5S-100416	1040		2	✓	✓				
23	~~10~~	RA11-TP02A-10 B-100416	1050		1	✓		O	⊗		8oz only
24	~~11~~	RA11-TP02B-10 B-100416	1055		1	✓					8oz only
25	~~12~~	RA11-TP03A-3.5S-100416	1115		2	✓	✓				
26	~~13~~	RA11-TP03B-3.5S-100416	1125		2	✓	✓				
27	~~14~~	RA11-TP03A-7.5S-100416	1135		2	✓	✓		⊗		
28	~~15~~	RA11-TP03B-7.5S-100416	1140	↓	2	✓	✓			↓	↓

Metals: ~~Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn~~ - same as previous
Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

O - Added 5/4/10. DB (2 day TAT)
⊗ Added 5/10/10. DB (2 day TAT)

Relinquished By: [signature] Company: Anchor QEA, LLC
R Desrosiers 4/17/2010
Signature/Printed Name Date/Time

Received By: [signature] Company: OnSite Env
4/17/10
Signature/Printed Name Date/Time

Relinquished By: Company:
Signature/Printed Name Date/Time

Received By: Company:
Signature/Printed Name Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page 2 of 2

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01

OnSite Project Number: 04-105

Initiated by: MMB6

Date Initiated: 4/17&19/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 2°, 4° C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

2.4) Sample 15) RA-11-TP01B-3.5S-100416 4/16/10 0840 on COC
RA-11-TP01B-7.5S-100416 " " on label
TP01B-3.5 on lid

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 6, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 5147-007-15-T100
Laboratory Reference No. 1004-122

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on April 20, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference :1004-122
Project: 5147-007-15-T100

Case Narrative

Samples were collected on April 16, 2010 and received by the laboratory on April 20, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

Due to the high concentration of Copper in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 112%.

The duplicate RPDs for Copper and Zinc are outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Lead are outside control limits due to matrix interferences. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 107%.

The Matrix Spike/Matrix Spike Duplicate RPDs for Copper and Lead are outside control limits due to matrix effects. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference: 1004-122
Project: 5147-007-15-T100

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-122-10					
Client ID:	**TP-2A-3**					
Antimony	**23**	7.5	6010B	5-5-10	5-6-10	
Arsenic	**ND**	15	6010B	5-4-10	5-5-10	
Chromium	**31**	0.75	6010B	5-5-10	5-6-10	
Copper	**5200**	15	6010B	5-4-10	5-5-10	
Lead	**1100**	7.5	6010B	5-4-10	5-5-10	
Mercury	**ND**	0.37	7471A	5-4-10	5-4-10	
Nickel	**17**	3.7	6010B	5-4-10	5-5-10	
Thallium	**ND**	3.7	6020	5-4-10	5-6-10	
Zinc	**110**	3.7	6010B	5-5-10	5-6-10	

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference: 1004-122
Project: 5147-007-15-T100

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-4&5-10
Date Analyzed:	5-4,5&6-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0504S4,MB0504S5&MB0505S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference: 1004-122
Project: 5147-007-15-T100

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-4&5-10
Date Analyzed: 5-4,5&6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-105-23

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**8.43**	**8.78**	4	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**21.2**	**21.3**	0	0.50	
Copper	**1830**	**1480**	21	1.0	K
Lead	**782**	**896**	14	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**12.8**	**11.7**	9	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**71.6**	**56.3**	24	2.5	K

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference: 1004-122
Project: 5147-007-15-T100

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-4&5-10
Date Analyzed: 5-4,5&6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-105-23

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**100**	92	**103**	94	2	
Arsenic	100	**96.4**	96	**94.6**	95	2	
Chromium	100	**113**	92	**115**	94	1	
Copper	50	**722**	0	**1390**	0	63	A, W
Lead	250	**475**	0	**806**	10	52	V, W
Mercury	0.50	**0.454**	91	**0.457**	91	1	
Nickel	100	**113**	100	**111**	98	2	
Thallium	50	**49.7**	99	**52.3**	105	5	
Zinc	100	**149**	77	**161**	90	8	

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference: 1004-122
Project: 5147-007-15-T100

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-4&5-10
Date Analyzed: 5-4,5&6-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0504S4,SB0504S5&SB0505S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**98.0**	98
Arsenic	6010B	100	**99.9**	100
Chromium	6010B	100	**102**	102
Copper	6010B	50	**56.1**	112
Lead	6010B	250	**267**	107
Mercury	7471A	0.50	**0.475**	95
Nickel	6010B	100	**107**	107
Thallium	6020	50	**52.4**	105
Zinc	6010B	100	**110**	110

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference: 1004-122
Project: 5147-007-15-T100

TOTAL METALS
EPA 6010B/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1050610P	1.00	0.999	0.14	+/- 10%
Arsenic	ICV1050510P	1.00	0.974	2.6	+/- 10%
Chromium	ICV1050610P	1.00	1.03	-3.5	+/- 10%
Copper	ICV1050510P	1.00	1.02	-1.6	+/- 10%
Lead	ICV1050510P	1.00	1.05	-4.9	+/- 10%
Mercury	ICV1050410Y	0.00500	0.00497	0.66	+/- 10%
Nickel	ICV1050510P	1.00	1.03	-3.3	+/- 10%
Thallium	ICV1050610E	0.0500	0.0503	-0.63	+/- 10%
Zinc	ICV1050610P	1.00	1.02	-2.3	+/- 10%
Antimony	CCV1050610P	1.00	0.981	1.9	+/- 10%
Arsenic	CCV1050510P	1.00	0.957	4.3	+/- 10%
Chromium	CCV1050610P	1.00	1.01	-0.89	+/- 10%
Copper	CCV1050510P	1.00	1.00	0	+/- 10%
Lead	CCV1050510P	10.0	9.94	0.63	+/- 10%
Mercury	CCV1050410Y	0.00500	0.00482	3.6	+/- 20%
Nickel	CCV1050510P	1.00	0.996	0.36	+/- 10%
Thallium	CCV1050610E	0.0400	0.0412	-3.0	+/- 10%
Zinc	CCV1050610P	1.00	1.01	-0.50	+/- 10%
Antimony	CCV2050610P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV2050510P	1.00	0.956	4.4	+/- 10%
Chromium	CCV2050610P	1.00	1.03	-2.5	+/- 10%
Copper	CCV2050510P	1.00	1.00	0	+/- 10%
Lead	CCV2050510P	10.0	10.1	-0.65	+/- 10%
Mercury	CCV2050410Y	0.00500	0.00500	0	+/- 20%
Nickel	CCV2050510P	1.00	1.02	-1.9	+/- 10%
Thallium	CCV2050610E	0.0400	0.0414	-3.5	+/- 10%
Zinc	CCV2050610P	1.00	1.03	-3.5	+/- 10%
Antimony	CCV3050610P	1.00	1.02	-2.0	+/- 10%
Arsenic	CCV3050510P	1.00	0.968	3.2	+/- 10%
Chromium	CCV3050610P	1.00	1.02	-2.4	+/- 10%
Copper	CCV3050510P	1.00	1.00	0	+/- 10%
Lead	CCV3050510P	10.0	10.1	-0.90	+/- 10%
Mercury	CCV3050410Y	0.00500	0.00486	2.8	+/- 20%
Nickel	CCV3050510P	1.00	1.01	-0.57	+/- 10%
Thallium	CCV3050610E	0.0400	0.0408	-2.0	+/- 10%
Zinc	CCV3050610P	1.00	1.02	-2.1	+/- 10%
Mercury	CCV4050410Y	0.00500	0.00478	4.4	+/- 20%

Date of Report: May 6, 2010
Samples Submitted: April 20, 2010
Laboratory Reference: 1004-122
Project: 5147-007-15-T100

% MOISTURE

Date Analyzed: 5-4-10

Client ID	Lab ID	% Moisture
TP-2A-3	04-122-10	33

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: GeoEngineers
Project Number: Former Scott Mill
Project Name: 5147-007-15 T100
Project Manager: Robert Trahan
Sampled by: Robert Trahan

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Day ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 04-122

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture
1	TP-1A-10	4-16-10	830	S	2														
2	TP-1B-10		835																
3	TP-1A-6		920																
4	TP-1B-6		925																
5	TP-1A-3		940																
~~—~~	~~TP-1B-3~~																		
6	TP-2A-10		1010																
7	TP-2B-10		1015																
8	TP-2A-6		1030																
9	TP-2B-6		1035																

	Signature	Company	Date	Time
Relinquished by		GeoEngineers	4-20-10	1545
Received by			4/20/10	1545
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
⊗ Added 5/4/10. DS (2 day TAT)
Released to Anchor QEA - Rebecca Dorroers.

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Chain of Custody

OnSite Environmental Inc.
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: GeoEngineers
Project Number: 5147-007-15 T100
Project Name: Former Scott Mill
Project Manager: Robert Trahan
Sampled by: Robert Trahan

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☐ _____ (other)

Laboratory Number: 04-122

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		TOTAL METALS				% Moisture
10	TP-2A-3	4-16-10	1100	S	2															⊗				⊗
11	TP-2B-3		1105																					
12	TP-3A-9.5		1115																					
13	TP-3B-9.5		1120																					
14	TP-3A-6		1130																					
15	TP-3B-6		1135																					
16	TP-3A-3		1150																					
17	TP-3B-3		1155																					
18	TP-4A-9.5		1210																					
19	TP-4B-9.5		1215																					

	Signature	Company	Date	Time
Relinquished by		GEI	4-20-10	1545
Received by		OnSite	4/20/10	1545
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
⊗ Released to Anchor QEA. 5/4/10. DB
(2day TAT)

Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 5147-007-@15 T100
Project Name: Former Scott Mill
Project Manager: Robert Trahan
Sampled by: Robert Trahan

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☐ _____ (other)

Laboratory Number: 04-122

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture
20	TP-4A-5.5	4-16-10	1230	S	2														
21	TP-4B-5.5		1235																
22	TP-4A-3		1240																
23	TP-4B-3		1245																
24	TP-5A-9.5		1310																
25	TP-5B-9.5		1315																
26	TP-5A-5.5		1320																
27	TP-5B-5.5		1325																
28	TP-5A-3		1340																

	Signature	Company	Date	Time
Relinquished by		GEI	4-20-10	1545
Received by		CDE	4/20/10	1545
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-007-15-T100

OnSite Project Number: 04-122

Initiated by: MM

Date Initiated: 4/20/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	(N/A)	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	Temperature: 5	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)		
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	(No)		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	(N/A)	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	(N/A)	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

2.4) Sample 7) TP-2B-10 4-16-10 1015 on COC & label
TP-3B- on lid of 8oz jar
Sample 12) TP-3A-9.5 4-16-10 11:15 on COC ✱
TP-3A-10 " " on labels
TP-4B- on lid

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 16, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1007-046

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on July 8, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

Case Narrative

Samples were collected on July 6 and 7, 2010 and received by the laboratory on June 8, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

Due to the high concentration of Zinc in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 104%.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Copper are outside control limits due to matrix interferences. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 101%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-046-01					
Client ID:	**KCP4-SP01-100706**					
Antimony	**9.2**	5.2	6010B	7-9-10	7-9-10	
Arsenic	**50**	10	6010B	7-9-10	7-9-10	
Chromium	**64**	5.2	6010B	7-9-10	7-9-10	
Copper	**91**	1.0	6010B	7-12-10	7-12-10	
Lead	**59**	5.2	6010B	7-9-10	7-9-10	
Mercury	**0.32**	0.26	7471A	7-9-10	7-9-10	
Nickel	**58**	2.6	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.6	6020	7-9-10	7-9-10	
Zinc	**510**	2.6	6010B	7-9-10	7-9-10	
Lab ID:	07-046-02					
Client ID:	**KCP4-SP02-100706**					
Antimony	**5.3**	5.2	6010B	7-9-10	7-9-10	
Arsenic	**26**	10	6010B	7-9-10	7-9-10	
Chromium	**64**	0.52	6010B	7-9-10	7-9-10	
Copper	**85**	1.0	6010B	7-12-10	7-12-10	
Lead	**42**	5.2	6010B	7-9-10	7-9-10	
Mercury	**ND**	0.26	7471A	7-9-10	7-9-10	
Nickel	**67**	2.6	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.6	6020	7-9-10	7-9-10	
Zinc	**390**	2.6	6010B	7-9-10	7-9-10	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-046-03					
Client ID:	**KCP4-SP03-100706**					
Antimony	**9.2**	5.2	6010B	7-9-10	7-9-10	
Arsenic	**44**	10	6010B	7-9-10	7-9-10	
Chromium	**57**	0.52	6010B	7-9-10	7-9-10	
Copper	**75**	1.0	6010B	7-12-10	7-12-10	
Lead	**32**	5.2	6010B	7-9-10	7-9-10	
Mercury	**ND**	0.26	7471A	7-9-10	7-9-10	
Nickel	**65**	2.6	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.6	6020	7-9-10	7-9-10	
Zinc	**410**	2.6	6010B	7-9-10	7-9-10	
Lab ID:	07-046-04					
Client ID:	**KCP4-SP04-100706**					
Antimony	**ND**	5.2	6010B	7-9-10	7-9-10	
Arsenic	**23**	10	6010B	7-9-10	7-9-10	
Chromium	**54**	0.52	6010B	7-9-10	7-9-10	
Copper	**86**	1.0	6010B	7-12-10	7-12-10	
Lead	**22**	5.2	6010B	7-9-10	7-9-10	
Mercury	**ND**	0.26	7471A	7-9-10	7-9-10	
Nickel	**70**	2.6	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.6	6020	7-9-10	7-9-10	
Zinc	**310**	2.6	6010B	7-9-10	7-9-10	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-046-05					
Client ID:	**KCP4-SP05-100706**					
Antimony	**9.3**	5.3	6010B	7-9-10	7-9-10	
Arsenic	**13**	11	6010B	7-9-10	7-9-10	
Chromium	**61**	0.53	6010B	7-9-10	7-9-10	
Copper	**100**	1.1	6010B	7-12-10	7-12-10	
Lead	**110**	5.3	6010B	7-9-10	7-9-10	
Mercury	**0.34**	0.26	7471A	7-9-10	7-9-10	
Nickel	**64**	2.6	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.6	6020	7-9-10	7-9-10	
Zinc	**220**	2.6	6010B	7-9-10	7-9-10	
Lab ID:	07-046-06					
Client ID:	**KCP4-BK01-100707**					
Antimony	**ND**	5.4	6010B	7-9-10	7-9-10	
Arsenic	**ND**	11	6010B	7-9-10	7-9-10	
Chromium	**23**	0.54	6010B	7-9-10	7-9-10	
Copper	**48**	1.1	6010B	7-12-10	7-12-10	
Lead	**120**	5.4	6010B	7-9-10	7-9-10	
Mercury	**ND**	0.27	7471A	7-9-10	7-9-10	
Nickel	**38**	2.7	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.7	6020	7-9-10	7-9-10	
Zinc	**42**	2.7	6010B	7-9-10	7-9-10	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-046-07					
Client ID:	**KCP4-BK02-100707**					
Antimony	**14**	5.9	6010B	7-9-10	7-9-10	
Arsenic	**ND**	12	6010B	7-9-10	7-9-10	
Chromium	**21**	0.59	6010B	7-9-10	7-9-10	
Copper	**50**	1.2	6010B	7-12-10	7-12-10	
Lead	**280**	5.9	6010B	7-9-10	7-9-10	
Mercury	**1.1**	0.30	7471A	7-9-10	7-9-10	
Nickel	**38**	3.0	6010B	7-9-10	7-9-10	
Thallium	**ND**	3.0	6020	7-9-10	7-9-10	
Zinc	**64**	3.0	6010B	7-9-10	7-9-10	
Lab ID:	07-046-08					
Client ID:	**KCP4-BK03-100707**					
Antimony	**11**	5.7	6010B	7-9-10	7-9-10	
Arsenic	**ND**	11	6010B	7-9-10	7-9-10	
Chromium	**28**	0.57	6010B	7-9-10	7-9-10	
Copper	**49**	1.1	6010B	7-12-10	7-12-10	
Lead	**210**	5.7	6010B	7-9-10	7-9-10	
Mercury	**7.6**	2.8	7471A	7-9-10	7-9-10	
Nickel	**39**	2.8	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.8	6020	7-9-10	7-9-10	
Zinc	**68**	2.8	6010B	7-9-10	7-9-10	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-046-09					
Client ID:	**KCP4-BK04-100707**					
Antimony	**ND**	5.4	6010B	7-9-10	7-9-10	
Arsenic	**ND**	11	6010B	7-9-10	7-9-10	
Chromium	**22**	0.54	6010B	7-9-10	7-9-10	
Copper	**36**	1.1	6010B	7-12-10	7-12-10	
Lead	**220**	5.4	6010B	7-9-10	7-9-10	
Mercury	**ND**	0.27	7471A	7-9-10	7-9-10	
Nickel	**25**	2.7	6010B	7-9-10	7-9-10	
Thallium	**ND**	2.7	6020	7-9-10	7-9-10	
Zinc	**87**	2.7	6010B	7-9-10	7-9-10	
Lab ID:	07-046-10					
Client ID:	**KCP4-BK05-100707**					
Antimony	**48**	6.2	6010B	7-9-10	7-9-10	
Arsenic	**ND**	12	6010B	7-9-10	7-9-10	
Chromium	**24**	0.62	6010B	7-9-10	7-9-10	
Copper	**210**	1.2	6010B	7-12-10	7-12-10	
Lead	**1000**	6.2	6010B	7-9-10	7-9-10	
Mercury	**0.33**	0.31	7471A	7-9-10	7-9-10	
Nickel	**39**	3.1	6010B	7-9-10	7-9-10	
Thallium	**ND**	3.1	6020	7-9-10	7-9-10	
Zinc	**120**	3.1	6010B	7-9-10	7-9-10	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-9&12-10
Date Analyzed:	7-9&12-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0709S2,MB0709S3&MB0712S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: July 16, 2010
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Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 7-9&12-10
Date Analyzed: 7-9&12-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-046-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**8.90**	**8.00**	11	5.0	
Arsenic	**48.6**	**50.5**	4	10	
Chromium	**62.5**	**59.0**	6	0.50	
Copper	**88.2**	**103**	16	1.0	
Lead	**57.7**	**54.6**	6	5.0	
Mercury	**0.314**	**0.294**	7	0.25	
Nickel	**56.2**	**56.8**	1	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**494**	**515**	4	2.5	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 7-9&12-10
Date Analyzed: 7-9&12-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-046-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**101**	92	**100**	91	0	
Arsenic	100	**134**	86	**127**	78	6	
Chromium	100	**158**	95	**154**	91	3	
Copper	50	**163**	149	**146**	115	11	V
Lead	250	**255**	79	**249**	77	2	
Mercury	0.50	**0.721**	81	**0.743**	86	3	
Nickel	100	**141**	85	**142**	86	1	
Thallium	50	**49.4**	99	**50.3**	101	2	
Zinc	100	**535**	42	**475**	0	12	A

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 7-9&12-10
Date Analyzed: 7-9&12-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0709S2,SB0709S3&SB0712S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**99.4**	99
Arsenic	6010B	100	**101**	101
Chromium	6010B	100	**100**	100
Copper	6010B	50	**50.5**	101
Lead	6010B	250	**231**	92
Mercury	7471A	0.50	**0.479**	96
Nickel	6010B	100	**103**	103
Thallium	6020	50	**51.9**	104
Zinc	6010B	100	**104**	104

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV070910P	1.00	1.03	-2.7	+/- 10%
Arsenic	ICV070910P	1.00	0.982	1.8	+/- 10%
Chromium	ICV070910P	1.00	1.03	-3.4	+/- 10%
Copper	ICV071210P	1.00	1.03	-3.5	+/- 10%
Lead	ICV070910P	1.00	1.02	-2.5	+/- 10%
Mercury	ICV070910Y	0.00500	0.00497	0.52	+/- 10%
Nickel	ICV070910P	1.00	1.05	-4.8	+/- 10%
Thallium	ICV070910E	0.0500	0.0496	0.87	+/- 10%
Zinc	ICV070910P	1.00	1.01	-1.1	+/- 10%
Antimony	CCV1070910P	1.00	0.994	0.62	+/- 10%
Arsenic	CCV1070910P	1.00	0.993	0.73	+/- 10%
Chromium	CCV1070910P	1.00	1.02	-2.1	+/- 10%
Copper	CCV1071210P	1.00	1.01	-1.0	+/- 10%
Lead	CCV1070910P	10.0	10.1	-0.80	+/- 10%
Mercury	CCV1070910Y	0.00500	0.00492	1.5	+/- 20%
Nickel	CCV1070910P	1.00	1.02	-1.9	+/- 10%
Thallium	CCV1070910E	0.0400	0.0401	-0.35	+/- 10%
Zinc	CCV1070910P	1.00	1.00	0	+/- 10%
Antimony	CCV2070910P	1.00	1.02	-2.4	+/- 10%
Arsenic	CCV2070910P	1.00	1.03	-2.5	+/- 10%
Chromium	CCV2070910P	1.00	1.04	-4.3	+/- 10%
Copper	CCV2071210P	1.00	1.02	-2.4	+/- 10%
Lead	CCV2070910P	10.0	10.2	-2.4	+/- 10%
Mercury	CCV2070910Y	0.00500	0.00474	5.2	+/- 20%
Nickel	CCV2070910P	1.00	1.04	-3.6	+/- 10%
Thallium	CCV2070910E	0.0400	0.0403	-0.85	+/- 10%
Zinc	CCV2070910P	1.00	1.02	-1.9	+/- 10%

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3070910P	1.00	1.01	-1.2	+/- 10%
Arsenic	CCV3070910P	1.00	0.998	0.22	+/- 10%
Chromium	CCV3070910P	1.00	1.03	-2.7	+/- 10%
Copper	CCV3071210P	1.00	1.03	-2.7	+/- 10%
Lead	CCV3070910P	10.0	10.1	-1.4	+/- 10%
Mercury	CCV3070910Y	0.00500	0.00480	4.1	+/- 20%
Nickel	CCV3070910P	1.00	1.02	-2.3	+/- 10%
Thallium	CCV3070910E	0.0400	0.0416	-4.0	+/- 10%
Zinc	CCV3070910P	1.00	1.02	-1.5	+/- 10%
Antimony	CCV4070910P	1.00	1.03	-3.2	+/- 10%
Arsenic	CCV4070910P	1.00	0.998	0.21	+/- 10%
Chromium	CCV4070910P	1.00	1.03	-2.9	+/- 10%
Lead	CCV4070910P	10.0	10.1	-1.2	+/- 10%
Mercury	CCV4070910Y	0.00500	0.00487	2.6	+/- 20%
Nickel	CCV4070910P	1.00	1.02	-1.8	+/- 10%
Zinc	CCV4070910P	1.00	1.01	-1.5	+/- 10%
Antimony	CCV5070910P	1.00	1.03	-2.9	+/- 10%
Arsenic	CCV5070910P	1.00	0.987	1.3	+/- 10%
Chromium	CCV5070910P	1.00	1.04	-3.6	+/- 10%
Lead	CCV5070910P	10.0	10.2	-1.8	+/- 10%
Mercury	CCV5070910Y	0.00500	0.00487	2.7	+/- 20%
Nickel	CCV5070910P	1.00	1.03	-2.7	+/- 10%
Zinc	CCV5070910P	1.00	1.01	-1.4	+/- 10%
Chromium	CCV6070910P	1.00	1.03	-2.8	+/- 10%
Mercury	CCV6070910Y	0.00500	0.00494	1.1	+/- 20%
Chromium	CCV7070910P	1.00	1.01	-1.2	+/- 10%
Mercury	CCV7070910Y	0.00500	0.00497	0.68	+/- 20%
Chromium	CCV8070910P	1.00	1.04	-3.6	+/- 10%
Mercury	CCV8070910Y	0.00500	0.00494	1.1	+/- 20%

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-046-06					
Client ID:	**KCP4-BK01-100707**					
Lead	**0.54**	0.20	6010B	7-14-10	7-15-10	
Lab ID:	07-046-07					
Client ID:	**KCP4-BK02-100707**					
Lead	**2.5**	0.20	6010B	7-14-10	7-15-10	
Lab ID:	07-046-08					
Client ID:	**KCP4-BK03-100707**					
Lead	**2.6**	0.20	6010B	7-14-10	7-15-10	
Lab ID:	07-046-09					
Client ID:	**KCP4-BK04-100707**					
Lead	**0.27**	0.20	6010B	7-14-10	7-15-10	
Lab ID:	07-046-10					
Client ID:	**KCP4-BK05-100707**					
Lead	**2.4**	0.20	6010B	7-14-10	7-15-10	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	7-13-10
Date Extracted:	7-14-10
Date Analyzed:	7-15-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0714T7

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 7-13-10
Date Extracted: 7-14-10
Date Analyzed: 7-15-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 07-046-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**0.544**	**0.538**	1	0.20	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared:	7-13-10
Date Extracted:	7-14-10
Date Analyzed:	7-15-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	07-046-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10	**9.73**	92	**9.72**	92	0	

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
SPIKE BLANK QUALITY CONTROL

Date Prepared: 7-13-10
Date Extracted: 7-14-10
Date Analyzed: 7-15-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0714T7

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	10	**9.36**	94

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV071510P	1.00	1.04	-4.2	+/- 10%
Lead	CCV1071510P	10.0	9.99	0.12	+/- 10%
Lead	CCV2071510P	10.0	9.78	2.2	+/- 10%
Lead	CCV3071510P	10.0	9.87	1.3	+/- 10%
Lead	CCV4071510P	10.0	9.79	2.1	+/- 10%
Lead	CCV5071510P	10.0	9.70	3.0	+/- 10%

Date of Report: July 16, 2010
Samples Submitted: July 8, 2010
Laboratory Reference: 1007-046
Project: 000105-01.09

% MOISTURE

Date Analyzed: 7-9-10

Client ID	Lab ID	% Moisture
KCP4-SP01-100706	07-046-01	3
KCP4-SP02-100706	07-046-02	3
KCP4-SP03-100706	07-046-03	4
KCP4-SP04-100706	07-046-04	4
KCP4-SP05-100706	07-046-05	5
KCP4-BK01-100707	07-046-06	8
KCP4-BK02-100707	07-046-07	16
KCP4-BK03-100707	07-046-08	12
KCP4-BK04-100707	07-046-09	8
KCP4-BK05-100707	07-046-10	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01.09
Project Name: PHASE 4A / KIMBERLY CLARK / SCOTT PAPER
Project Manager: REBECCA DESROSIERS
Sampled by: BEN HOWARD / BUD WHITAKER

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Day 48 HRS ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☒ 4 DAY
(other)

Laboratory Number: 07-046

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals – LEAD	HEM by 1664		Metals *					% Moisture
1	KCP4-SP01-100706	6-July 2010	11:40AM	SOIL	1															X					X
2	KCP4-SP02-100706	6-July 2010	11:50AM																	X					X
3	KCP4-SP03-100706	6-July 2010	12:05pm																	X					X
4	KCP4-SP04-100706	6-July 2010	12:20pm																	X					X
5	KCP4-SP05-100706	6-July 2010	12:45pm																	X					X
6	KCP4-BK01-100707	7-July 2010	10:25am														⊗			X					X
7	KCP4-BK02-100707	7-July 2010	12:10pm														⊗			X					X
8	KCP4-BK03-100707	7-July 2010	1:45pm														⊗			X					X
9	KCP4-BK04-100707	7-July 2010	3:30pm														⊗			X					X
10	KCP4-BK05-100707	7-July 2010	5:00pm														⊗			X					X

	Signature	Company	Date	Time
Relinquished by		ANCHOR QEA	7/8/10	2:20PM
Received by		CSE	7/8/10	2:20pm
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
ANALYSIS – METALS THEN HOLD FOR FURTHER INSTRUCTIONS FROM OFFICE

* Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn

⊗ Added 7/12/10. DB (4 dow TAT)

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 16, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1007-057

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on July 9, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

Case Narrative

Samples were collected on July 9, 2010 and received by the laboratory on July 9, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-01					
Client ID:	**KCP4-SO131-B-100709**					
Antimony	**ND**	8.3	6010B	7-13-10	7-13-10	
Arsenic	**ND**	17	6010B	7-13-10	7-13-10	
Chromium	**35**	1.7	6010B	7-13-10	7-13-10	
Copper	**30**	1.7	6010B	7-14-10	7-14-10	
Lead	**22**	8.3	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.41	7471A	7-13-10	7-13-10	
Nickel	**28**	4.1	6010B	7-13-10	7-13-10	
Thallium	**ND**	4.1	6020	7-14-10	7-15-10	
Zinc	**32**	4.1	6010B	7-13-10	7-13-10	
Lab ID:	07-057-02					
Client ID:	**KCP4-SO131B-B-100709**					
Antimony	**ND**	7.7	6010B	7-13-10	7-13-10	
Arsenic	**ND**	15	6010B	7-13-10	7-13-10	
Chromium	**41**	1.5	6010B	7-13-10	7-13-10	
Copper	**29**	1.5	6010B	7-14-10	7-14-10	
Lead	**56**	7.7	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.39	7471A	7-13-10	7-13-10	
Nickel	**33**	3.9	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.9	6020	7-14-10	7-15-10	
Zinc	**38**	3.9	6010B	7-13-10	7-13-10	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-03					
Client ID:	**KCP4-SO132-S2-100709**					
Antimony	**74**	6.9	6010B	7-13-10	7-13-10	
Arsenic	**16**	14	6010B	7-13-10	7-13-10	
Chromium	**48**	1.4	6010B	7-13-10	7-13-10	
Copper	**250**	1.4	6010B	7-14-10	7-14-10	
Lead	**2000**	6.9	6010B	7-13-10	7-13-10	
Mercury	**14**	6.9	7471A	7-13-10	7-13-10	
Nickel	**50**	3.4	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.4	6020	7-14-10	7-15-10	
Zinc	**95**	3.4	6010B	7-13-10	7-13-10	
Lab ID:	07-057-04					
Client ID:	**KCP4-SO133-S2-100709**					
Antimony	**13**	5.6	6010B	7-13-10	7-13-10	
Arsenic	**62**	11	6010B	7-13-10	7-13-10	
Chromium	**34**	1.1	6010B	7-13-10	7-13-10	
Copper	**120**	1.1	6010B	7-14-10	7-14-10	
Lead	**150**	5.6	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.28	7471A	7-13-10	7-13-10	
Nickel	**44**	2.8	6010B	7-13-10	7-13-10	
Thallium	**ND**	2.8	6020	7-14-10	7-15-10	
Zinc	**540**	2.8	6010B	7-13-10	7-13-10	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-05					
Client ID:	**KCP4-SO133-S1-100709**					
Antimony	**ND**	5.4	6010B	7-13-10	7-14-10	
Arsenic	**17**	11	6010B	7-13-10	7-14-10	
Chromium	**21**	1.1	6010B	7-13-10	7-14-10	
Copper	**53**	1.1	6010B	7-14-10	7-14-10	
Lead	**24**	5.4	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**39**	2.7	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**130**	2.7	6010B	7-13-10	7-14-10	
Lab ID:	07-057-06					
Client ID:	**KCP4-SO134-S1-100709**					
Antimony	**ND**	5.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	11	6010B	7-13-10	7-14-10	
Chromium	**23**	1.1	6010B	7-13-10	7-14-10	
Copper	**27**	1.1	6010B	7-14-10	7-14-10	
Lead	**22**	5.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**40**	2.7	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**55**	2.7	6010B	7-13-10	7-14-10	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-07					
Client ID:	**KCP4-SO134-S2-100709**					
Antimony	**ND**	5.8	6010B	7-13-10	7-13-10	
Arsenic	**ND**	12	6010B	7-13-10	7-13-10	
Chromium	**24**	1.2	6010B	7-13-10	7-13-10	
Copper	**42**	1.2	6010B	7-14-10	7-14-10	
Lead	**33**	5.8	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.29	7471A	7-13-10	7-13-10	
Nickel	**17**	2.9	6010B	7-13-10	7-13-10	
Thallium	**ND**	2.9	6020	7-14-10	7-15-10	
Zinc	**69**	2.9	6010B	7-13-10	7-13-10	
Lab ID:	07-057-08					
Client ID:	**KCP4-SO135-S2-100709**					
Antimony	**ND**	5.8	6010B	7-13-10	7-13-10	
Arsenic	**ND**	12	6010B	7-13-10	7-13-10	
Chromium	**21**	1.2	6010B	7-13-10	7-13-10	
Copper	**15**	1.2	6010B	7-14-10	7-14-10	
Lead	**11**	5.8	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.29	7471A	7-13-10	7-13-10	
Nickel	**19**	2.9	6010B	7-13-10	7-13-10	
Thallium	**ND**	2.9	6020	7-14-10	7-15-10	
Zinc	**87**	2.9	6010B	7-13-10	7-13-10	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-09					
Client ID:	**KCP4-SO135-S1-100709**					
Antimony	**6.7**	5.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	11	6010B	7-13-10	7-14-10	
Chromium	**28**	1.1	6010B	7-13-10	7-14-10	
Copper	**97**	1.1	6010B	7-14-10	7-14-10	
Lead	**460**	5.3	6010B	7-13-10	7-14-10	
Mercury	**0.93**	0.26	7471A	7-13-10	7-13-10	
Nickel	**36**	2.6	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.6	6020	7-14-10	7-15-10	
Zinc	**61**	2.6	6010B	7-13-10	7-14-10	
Lab ID:	07-057-10					
Client ID:	**KCP4-SO136-S2-100709**					
Antimony	**ND**	6.6	6010B	7-13-10	7-13-10	
Arsenic	**ND**	13	6010B	7-13-10	7-13-10	
Chromium	**19**	1.3	6010B	7-13-10	7-13-10	
Copper	**9.6**	1.3	6010B	7-14-10	7-14-10	
Lead	**ND**	6.6	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.33	7471A	7-13-10	7-13-10	
Nickel	**14**	3.3	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.3	6020	7-14-10	7-15-10	
Zinc	**30**	3.3	6010B	7-13-10	7-13-10	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-11					
Client ID:	**KCP4-SO136-S1-100709**					
Antimony	**ND**	5.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	11	6010B	7-13-10	7-14-10	
Chromium	**26**	1.1	6010B	7-13-10	7-14-10	
Copper	**17**	1.1	6010B	7-14-10	7-14-10	
Lead	**5.6**	5.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**42**	2.7	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**46**	2.7	6010B	7-13-10	7-14-10	
Lab ID:	07-057-12					
Client ID:	**KCP4-SO137-S2-100709**					
Antimony	**ND**	5.6	6010B	7-13-10	7-13-10	
Arsenic	**ND**	11	6010B	7-13-10	7-13-10	
Chromium	**24**	1.1	6010B	7-13-10	7-13-10	
Copper	**73**	1.1	6010B	7-14-10	7-14-10	
Lead	**210**	5.6	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.28	7471A	7-13-10	7-13-10	
Nickel	**21**	2.8	6010B	7-13-10	7-13-10	
Thallium	**ND**	2.8	6020	7-14-10	7-15-10	
Zinc	**58**	2.8	6010B	7-13-10	7-13-10	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-13					
Client ID:	**KCP4-SO137-S1-100709**					
Antimony	**ND**	5.1	6010B	7-13-10	7-14-10	
Arsenic	**25**	10	6010B	7-13-10	7-14-10	
Chromium	**58**	1.0	6010B	7-13-10	7-14-10	
Copper	**110**	1.0	6010B	7-14-10	7-14-10	
Lead	**29**	5.1	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.26	7471A	7-13-10	7-13-10	
Nickel	**56**	2.6	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.6	6020	7-14-10	7-15-10	
Zinc	**330**	2.6	6010B	7-13-10	7-14-10	
Lab ID:	07-057-14					
Client ID:	**KCP4-SO138-S2-100709**					
Antimony	**ND**	5.4	6010B	7-13-10	7-13-10	
Arsenic	**ND**	11	6010B	7-13-10	7-13-10	
Chromium	**23**	1.1	6010B	7-13-10	7-13-10	
Copper	**19**	1.1	6010B	7-14-10	7-14-10	
Lead	**6.2**	5.4	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**38**	2.7	6010B	7-13-10	7-13-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**31**	2.7	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-15					
Client ID:	**KCP4-SO138-S1-100709**					
Antimony	**ND**	5.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	11	6010B	7-13-10	7-14-10	
Chromium	**24**	1.1	6010B	7-13-10	7-14-10	
Copper	**24**	1.1	6010B	7-14-10	7-14-10	
Lead	**ND**	5.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**35**	2.7	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**54**	2.7	6010B	7-13-10	7-14-10	
Lab ID:	07-057-16					
Client ID:	**KCP4-SO139-S2-100709**					
Antimony	**ND**	5.5	6010B	7-13-10	7-13-10	
Arsenic	**ND**	11	6010B	7-13-10	7-13-10	
Chromium	**24**	1.1	6010B	7-13-10	7-13-10	
Copper	**20**	1.1	6010B	7-14-10	7-14-10	
Lead	**ND**	5.5	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.28	7471A	7-13-10	7-13-10	
Nickel	**36**	2.8	6010B	7-13-10	7-13-10	
Thallium	**ND**	2.8	6020	7-14-10	7-15-10	
Zinc	**73**	2.8	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-17					
Client ID:	**KCP4-SO139-S1-100709**					
Antimony	**ND**	5.3	6010B	7-13-10	7-14-10	
Arsenic	**20**	11	6010B	7-13-10	7-14-10	
Chromium	**35**	1.1	6010B	7-13-10	7-14-10	
Copper	**40**	1.1	6010B	7-14-10	7-14-10	
Lead	**16**	5.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.26	7471A	7-13-10	7-13-10	
Nickel	**53**	2.6	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.6	6020	7-14-10	7-15-10	
Zinc	**210**	2.6	6010B	7-13-10	7-14-10	
Lab ID:	07-057-18					
Client ID:	**KCP4-SO140-S2-100709**					
Antimony	**ND**	6.8	6010B	7-13-10	7-13-10	
Arsenic	**ND**	14	6010B	7-13-10	7-13-10	
Chromium	**21**	1.4	6010B	7-13-10	7-13-10	
Copper	**23**	1.4	6010B	7-14-10	7-14-10	
Lead	**9.8**	6.8	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.34	7471A	7-13-10	7-13-10	
Nickel	**13**	3.4	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.4	6020	7-14-10	7-15-10	
Zinc	**18**	3.4	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-19					
Client ID:	**KCP4-SO140-S1-100709**					
Antimony	**ND**	5.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	11	6010B	7-13-10	7-14-10	
Chromium	**19**	1.1	6010B	7-13-10	7-14-10	
Copper	**20**	1.1	6010B	7-14-10	7-14-10	
Lead	**ND**	5.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**38**	2.7	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**42**	2.7	6010B	7-13-10	7-14-10	
Lab ID:	07-057-20					
Client ID:	**KCP4-SO141-S2-100709**					
Antimony	**ND**	6.0	6010B	7-13-10	7-13-10	
Arsenic	**ND**	12	6010B	7-13-10	7-13-10	
Chromium	**25**	1.2	6010B	7-13-10	7-13-10	
Copper	**410**	1.2	6010B	7-14-10	7-14-10	
Lead	**85**	6.0	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.30	7471A	7-13-10	7-13-10	
Nickel	**31**	3.0	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.0	6020	7-14-10	7-15-10	
Zinc	**44**	3.0	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-21					
Client ID:	**KCP4-SO141-S1-100709**					
Antimony	**ND**	5.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	11	6010B	7-13-10	7-14-10	
Chromium	**25**	1.1	6010B	7-13-10	7-14-10	
Copper	**21**	1.1	6010B	7-14-10	7-14-10	
Lead	**7.5**	5.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**45**	2.7	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**37**	2.7	6010B	7-13-10	7-14-10	
Lab ID:	07-057-22					
Client ID:	**KCP4-SO142-S2-100709**					
Antimony	**ND**	5.4	6010B	7-13-10	7-13-10	
Arsenic	**ND**	11	6010B	7-13-10	7-13-10	
Chromium	**21**	1.1	6010B	7-13-10	7-13-10	
Copper	**15**	1.1	6010B	7-14-10	7-14-10	
Lead	**9.2**	5.4	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**51**	2.7	6010B	7-13-10	7-13-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**28**	2.7	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-23					
Client ID:	**KCP4-SO143-B-100709**					
Antimony	**ND**	6.2	6010B	7-13-10	7-13-10	
Arsenic	**ND**	12	6010B	7-13-10	7-13-10	
Chromium	**25**	1.2	6010B	7-13-10	7-13-10	
Copper	**9.0**	1.2	6010B	7-14-10	7-14-10	
Lead	**13**	6.2	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.31	7471A	7-13-10	7-13-10	
Nickel	**57**	3.1	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.1	6020	7-14-10	7-15-10	
Zinc	**33**	3.1	6010B	7-13-10	7-13-10	
Lab ID:	07-057-24					
Client ID:	**KCP4-SO144-B-100709**					
Antimony	**20**	7.9	6010B	7-13-10	7-13-10	
Arsenic	**ND**	16	6010B	7-13-10	7-13-10	
Chromium	**40**	1.6	6010B	7-13-10	7-13-10	
Copper	**63**	1.6	6010B	7-14-10	7-14-10	
Lead	**1300**	7.9	6010B	7-13-10	7-13-10	
Mercury	**1.4**	0.39	7471A	7-13-10	7-13-10	
Nickel	**49**	3.9	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.9	6020	7-14-10	7-15-10	
Zinc	**54**	3.9	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-25					
Client ID:	**KCP4-SO143B-B-100709**					
Antimony	**ND**	6.3	6010B	7-13-10	7-13-10	
Arsenic	**ND**	13	6010B	7-13-10	7-13-10	
Chromium	**26**	1.3	6010B	7-13-10	7-13-10	
Copper	**9.4**	1.3	6010B	7-14-10	7-14-10	
Lead	**24**	6.3	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.31	7471A	7-13-10	7-13-10	
Nickel	**16**	3.1	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.1	6020	7-14-10	7-15-10	
Zinc	**29**	3.1	6010B	7-13-10	7-13-10	
Lab ID:	07-057-26					
Client ID:	**KCP4-SO145-B-100709**					
Antimony	**ND**	7.6	6010B	7-13-10	7-13-10	
Arsenic	**ND**	15	6010B	7-13-10	7-13-10	
Chromium	**48**	1.5	6010B	7-13-10	7-13-10	
Copper	**82**	1.5	6010B	7-14-10	7-14-10	
Lead	**35**	7.6	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.38	7471A	7-13-10	7-13-10	
Nickel	**33**	3.8	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.8	6020	7-14-10	7-15-10	
Zinc	**58**	3.8	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-27					
Client ID:	**KCP4-SO146-B-100709**					
Antimony	**ND**	6.3	6010B	7-13-10	7-13-10	
Arsenic	**ND**	13	6010B	7-13-10	7-13-10	
Chromium	**23**	1.3	6010B	7-13-10	7-13-10	
Copper	**5.4**	1.3	6010B	7-14-10	7-14-10	
Lead	**ND**	6.3	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.32	7471A	7-13-10	7-13-10	
Nickel	**14**	3.2	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.2	6020	7-14-10	7-15-10	
Zinc	**33**	3.2	6010B	7-13-10	7-13-10	
Lab ID:	07-057-28					
Client ID:	**KCP4-SO147-B-100709**					
Antimony	**ND**	6.8	6010B	7-13-10	7-13-10	
Arsenic	**ND**	14	6010B	7-13-10	7-13-10	
Chromium	**59**	1.4	6010B	7-13-10	7-13-10	
Copper	**16**	1.4	6010B	7-14-10	7-14-10	
Lead	**7.1**	6.8	6010B	7-13-10	7-13-10	
Mercury	**ND**	0.34	7471A	7-13-10	7-13-10	
Nickel	**38**	3.4	6010B	7-13-10	7-13-10	
Thallium	**ND**	3.4	6020	7-14-10	7-15-10	
Zinc	**66**	3.4	6010B	7-13-10	7-13-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-29					
Client ID:	**KCP4-SO148-B-100709**					
Antimony	**ND**	6.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	13	6010B	7-13-10	7-14-10	
Chromium	**27**	1.3	6010B	7-13-10	7-14-10	
Copper	**6.3**	1.3	6010B	7-14-10	7-14-10	
Lead	**ND**	6.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.32	7471A	7-13-10	7-13-10	
Nickel	**15**	3.2	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.2	6020	7-14-10	7-15-10	
Zinc	**26**	3.2	6010B	7-13-10	7-14-10	
Lab ID:	07-057-30					
Client ID:	**KCP4-SO149-B-100709**					
Antimony	**ND**	6.6	6010B	7-13-10	7-14-10	
Arsenic	**ND**	13	6010B	7-13-10	7-14-10	
Chromium	**29**	1.3	6010B	7-13-10	7-14-10	
Copper	**13**	1.3	6010B	7-14-10	7-14-10	
Lead	**ND**	6.6	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.33	7471A	7-13-10	7-13-10	
Nickel	**25**	3.3	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.3	6020	7-14-10	7-15-10	
Zinc	**61**	3.3	6010B	7-13-10	7-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-31					
Client ID:	**KCP4-SO150-B-100709**					
Antimony	**ND**	6.3	6010B	7-13-10	7-14-10	
Arsenic	**ND**	13	6010B	7-13-10	7-14-10	
Chromium	**49**	1.3	6010B	7-13-10	7-14-10	
Copper	**7.0**	1.3	6010B	7-14-10	7-14-10	
Lead	**ND**	6.3	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.32	7471A	7-13-10	7-13-10	
Nickel	**21**	3.2	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.2	6020	7-14-10	7-15-10	
Zinc	**27**	3.2	6010B	7-13-10	7-14-10	
Lab ID:	07-057-32					
Client ID:	**KCP4-SO151-B-100709**					
Antimony	**ND**	6.9	6010B	7-13-10	7-14-10	
Arsenic	**ND**	14	6010B	7-13-10	7-14-10	
Chromium	**30**	1.4	6010B	7-13-10	7-14-10	
Copper	**13**	1.4	6010B	7-14-10	7-14-10	
Lead	**ND**	6.9	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.35	7471A	7-13-10	7-13-10	
Nickel	**27**	3.5	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.5	6020	7-14-10	7-15-10	
Zinc	**52**	3.5	6010B	7-13-10	7-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-33					
Client ID:	**KCP4-SO152-B-100709**					
Antimony	**ND**	6.5	6010B	7-13-10	7-14-10	
Arsenic	**ND**	13	6010B	7-13-10	7-14-10	
Chromium	**25**	1.3	6010B	7-13-10	7-14-10	
Copper	**6.7**	1.3	6010B	7-14-10	7-14-10	
Lead	**14**	6.5	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.32	7471A	7-13-10	7-13-10	
Nickel	**16**	3.2	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.2	6020	7-14-10	7-15-10	
Zinc	**38**	3.2	6010B	7-13-10	7-14-10	
Lab ID:	07-057-34					
Client ID:	**KCP4-SO153-B-100709**					
Antimony	**ND**	7.7	6010B	7-13-10	7-14-10	
Arsenic	**ND**	15	6010B	7-13-10	7-14-10	
Chromium	**38**	1.5	6010B	7-13-10	7-14-10	
Copper	**25**	1.5	6010B	7-14-10	7-14-10	
Lead	**48**	7.7	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.38	7471A	7-13-10	7-13-10	
Nickel	**39**	3.8	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.8	6020	7-14-10	7-15-10	
Zinc	**66**	3.8	6010B	7-13-10	7-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-35					
Client ID:	**KCP4-SO154-B-100709**					
Antimony	**ND**	7.8	6010B	7-13-10	7-14-10	
Arsenic	**ND**	16	6010B	7-13-10	7-14-10	
Chromium	**35**	1.6	6010B	7-13-10	7-14-10	
Copper	**20**	1.6	6010B	7-14-10	7-14-10	
Lead	**ND**	7.8	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.39	7471A	7-13-10	7-13-10	
Nickel	**33**	3.9	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.9	6020	7-14-10	7-15-10	
Zinc	**64**	3.9	6010B	7-13-10	7-14-10	
Lab ID:	07-057-36					
Client ID:	**KCP4-SO155-B-100709**					
Antimony	**ND**	6.9	6010B	7-13-10	7-14-10	
Arsenic	**ND**	14	6010B	7-13-10	7-14-10	
Chromium	**35**	1.4	6010B	7-13-10	7-14-10	
Copper	**19**	1.4	6010B	7-14-10	7-14-10	
Lead	**ND**	6.9	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.34	7471A	7-13-10	7-13-10	
Nickel	**41**	3.4	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.4	6020	7-14-10	7-15-10	
Zinc	**50**	3.4	6010B	7-13-10	7-14-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-057-37					
Client ID:	**KCP4-SO140B-S1-100709**					
Antimony	**ND**	5.4	6010B	7-13-10	7-14-10	
Arsenic	**ND**	11	6010B	7-13-10	7-14-10	
Chromium	**23**	1.1	6010B	7-13-10	7-14-10	
Copper	**21**	1.1	6010B	7-14-10	7-14-10	
Lead	**ND**	5.4	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.27	7471A	7-13-10	7-13-10	
Nickel	**48**	2.7	6010B	7-13-10	7-14-10	
Thallium	**ND**	2.7	6020	7-14-10	7-15-10	
Zinc	**34**	2.7	6010B	7-13-10	7-14-10	
Lab ID:	07-057-38					
Client ID:	**KCP4-SO140B-S2-100709**					
Antimony	**ND**	7.1	6010B	7-13-10	7-14-10	
Arsenic	**ND**	14	6010B	7-13-10	7-14-10	
Chromium	**15**	1.4	6010B	7-13-10	7-14-10	
Copper	**27**	1.4	6010B	7-14-10	7-14-10	
Lead	**12**	7.1	6010B	7-13-10	7-14-10	
Mercury	**ND**	0.35	7471A	7-13-10	7-13-10	
Nickel	**9.8**	3.5	6010B	7-13-10	7-14-10	
Thallium	**ND**	3.5	6020	7-14-10	7-15-10	
Zinc	**13**	3.5	6010B	7-13-10	7-14-10	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-13&14-10
Date Analyzed:	7-13&15-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0713S1,MB0713S2&MB0714S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	1.0
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-13&14-10
Date Analyzed:	7-13,14&15-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0713S3,MB0713S4&MB0714S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	1.0
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 7-13&14-10
Date Analyzed: 7-13&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-057-18

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**15.3**	**17.6**	14	1.0	
Copper	**16.7**	**15.5**	8	1.0	
Lead	**7.25**	**6.85**	6	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**9.25**	**12.1**	26	2.5	C
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**13.3**	**16.0**	18	2.5	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 7-13&14-10
Date Analyzed: 7-13,14&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-057-30

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**22.2**	**23.8**	7	1.0	
Copper	**9.65**	**9.10**	6	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**19.4**	**20.0**	3	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**46.8**	**46.8**	0	2.5	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 7-13&14-10
Date Analyzed: 7-13&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-057-18

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**96.4**	96	**97.2**	97	1	
Arsenic	100	**101**	101	**101**	101	0	
Chromium	100	**114**	98	**110**	95	3	
Copper	50	**65.7**	98	**65.6**	98	0	
Lead	250	**230**	89	**229**	89	0	
Mercury	0.50	**0.481**	96	**0.481**	96	0	
Nickel	100	**110**	100	**106**	97	3	
Thallium	50	**50.7**	101	**52.0**	104	3	
Zinc	100	**117**	104	**113**	99	4	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 7-13&14-10
Date Analyzed: 7-13,14&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-057-30

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**94.6**	95	**92.2**	92	3	
Arsenic	100	**102**	102	**100**	100	2	
Chromium	100	**115**	93	**115**	93	1	
Copper	50	**58.7**	98	**57.9**	96	2	
Lead	250	**217**	87	**218**	87	0	
Mercury	0.50	**0.490**	98	**0.477**	95	3	
Nickel	100	**113**	94	**113**	93	0	
Thallium	50	**52.6**	105	**50.9**	102	3	
Zinc	100	**145**	98	**144**	98	0	

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 7-13&14-10
Date Analyzed: 7-13&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0713S1,SB0713S2&SB0714S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**95.1**	95
Arsenic	6010B	100	**99.8**	100
Chromium	6010B	100	**99.7**	100
Copper	6010B	50	**52.5**	105
Lead	6010B	250	**231**	92
Mercury	7471A	0.50	**0.480**	96
Nickel	6010B	100	**103**	103
Thallium	6020	50	**52.3**	105
Zinc	6010B	100	**104**	104

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 7-13&14-10
Date Analyzed: 7-13,14&15-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0713S3,SB0713S4&SB0714S2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**96.1**	96
Arsenic	6010B	100	**98.9**	99
Chromium	6010B	100	**97.6**	98
Copper	6010B	50	**53.8**	108
Lead	6010B	250	**224**	90
Mercury	7471A	0.50	**0.485**	97
Nickel	6010B	100	**99.9**	100
Thallium	6020	50	**54.1**	108
Zinc	6010B	100	**102**	102

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV071310P	1.00	1.03	-3.2	+/- 10%
Arsenic	ICV071310P	1.00	1.00	0	+/- 10%
Chromium	ICV071310P	1.00	1.04	-4.1	+/- 10%
Lead	ICV071310P	1.00	1.04	-4.5	+/- 10%
Mercury	ICV071310Y	0.00500	0.00489	2.2	+/- 10%
Nickel	ICV071310P	1.00	1.05	-5.1	+/- 10%
Thallium	ICV071510E	0.0500	0.0511	-2.2	+/- 10%
Zinc	ICV071310P	1.00	1.01	-1.4	+/- 10%
Antimony	CCV1071310P	1.00	1.01	-0.51	+/- 10%
Arsenic	CCV1071310P	1.00	0.990	1.0	+/- 10%
Chromium	CCV1071310P	1.00	1.03	-2.6	+/- 10%
Lead	CCV1071310P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV1071310Y	0.00500	0.00502	-0.44	+/- 20%
Nickel	CCV1071310P	1.00	1.03	-2.7	+/- 10%
Thallium	CCV1071510E	0.0400	0.0411	-2.7	+/- 10%
Zinc	CCV1071310P	1.00	1.00	0	+/- 10%
Antimony	CCV2071310P	1.00	1.04	-3.7	+/- 10%
Arsenic	CCV2071310P	1.00	1.02	-1.9	+/- 10%
Chromium	CCV2071310P	1.00	1.04	-3.8	+/- 10%
Lead	CCV2071310P	10.0	10.2	-1.8	+/- 10%
Mercury	CCV2071310Y	0.00500	0.00498	0.48	+/- 20%
Nickel	CCV2071310P	1.00	1.03	-3.2	+/- 10%
Thallium	CCV2071510E	0.0400	0.0426	-6.5	+/- 10%
Zinc	CCV2071310P	1.00	1.01	-1.4	+/- 10%
Antimony	CCV3071310P	1.00	1.00	0	+/- 10%
Arsenic	CCV3071310P	1.00	0.992	0.80	+/- 10%
Chromium	CCV3071310P	1.00	1.04	-4.1	+/- 10%
Lead	CCV3071310P	10.0	10.2	-2.1	+/- 10%
Mercury	CCV3071310Y	0.00500	0.00500	0	+/- 20%
Nickel	CCV3071310P	1.00	1.03	-3.2	+/- 10%
Thallium	CCV3071510E	0.0400	0.0429	-7.2	+/- 10%
Zinc	CCV3071310P	1.00	1.02	-1.8	+/- 10%

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4071310P	1.00	1.01	-0.88	+/- 10%
Arsenic	CCV4071310P	1.00	1.01	-1.1	+/- 10%
Chromium	CCV4071310P	1.00	1.04	-3.9	+/- 10%
Lead	CCV4071310P	10.0	10.2	-2.1	+/- 10%
Mercury	CCV4071310Y	0.00500	0.00501	-0.14	+/- 20%
Nickel	CCV4071310P	1.00	1.04	-3.6	+/- 10%
Thallium	CCV4071510E	0.0400	0.0433	-8.2	+/- 10%
Zinc	CCV4071310P	1.00	1.02	-1.9	+/- 10%
Mercury	CCV5071310Y	0.00500	0.00507	-1.4	+/- 20%
Thallium	CCV5071510E	0.0400	0.0436	-8.9	+/- 10%
Mercury	CCV6071310Y	0.00500	0.00513	-2.5	+/- 20%
Thallium	CCV6071510E	0.0400	0.0436	-8.9	+/- 10%
Mercury	CCV7071310Y	0.00500	0.00512	-2.5	+/- 20%
Thallium	CCV7071510E	0.0400	0.0433	-8.2	+/- 10%

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

% MOISTURE

Date Analyzed: 7-13-10

Client ID	Lab ID	% Moisture
KCP4-SO131-B-100709	07-057-01	40
KCP4-SO131B-B-100709	07-057-02	35
KCP4-SO132-S2-100709	07-057-03	27
KCP4-SO133-S2-100709	07-057-04	11
KCP4-SO133-S1-100709	07-057-05	7
KCP4-SO134-S1-100709	07-057-06	6
KCP4-SO134-S2-100709	07-057-07	13
KCP4-SO135-S2-100709	07-057-08	14
KCP4-SO135-S1-100709	07-057-09	6
KCP4-SO136-S2-100709	07-057-10	24
KCP4-SO136-S1-100709	07-057-11	6
KCP4-SO137-S2-100709	07-057-12	11
KCP4-SO137-S1-100709	07-057-13	2
KCP4-SO138-S2-100709	07-057-14	8
KCP4-SO138-S1-100709	07-057-15	6
KCP4-SO139-S2-100709	07-057-16	10
KCP4-SO139-S1-100709	07-057-17	5
KCP4-SO140-S2-100709	07-057-18	26
KCP4-SO140-S1-100709	07-057-19	6
KCP4-SO141-S2-100709	07-057-20	17
KCP4-SO141-S1-100709	07-057-21	6
KCP4-SO142-S2-100709	07-057-22	8
KCP4-SO143-B-100709	07-057-23	20
KCP4-SO144-B-100709	07-057-24	37

Date of Report: July 16, 2010
Samples Submitted: July 9, 2010
Laboratory Reference: 1007-057
Project: 000105-01

% MOISTURE

Date Analyzed: 7-13-10

Client ID	Lab ID	% Moisture
KCP4-SO143B-B-100709	07-057-25	20
KCP4-SO145-B-100709	07-057-26	34
KCP4-SO146-B-100709	07-057-27	21
KCP4-SO147-B-100709	07-057-28	26
KCP4-SO148-B-100709	07-057-29	21
KCP4-SO149-B-100709	07-057-30	24
KCP4-SO150-B-100709	07-057-31	21
KCP4-SO151-B-100709	07-057-32	28
KCP4-SO152-B-100709	07-057-33	23
KCP4-SO153-B-100709	07-057-34	35
KCP4-SO154-B-100709	07-057-35	36
KCP4-SO155-B-100709	07-057-36	27
KCP4-SO140B-S1-100709	07-057-37	7
KCP4-SO140B-S2-100709	07-057-38	29

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01
Project Name: Kim Clark Phase 4
Project Manager: Rebecca Desrosiers
Sampled by: LV, DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☒ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☑ 4 days (other)

Laboratory Number: 07-057

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals	TCLP Metals	HEM by 1664	Archive / Hold					% Moisture
1	KCP4-S0131-B-100709	7/9/10	1020	SO	1											X								X
2	KCP4-S0131B-B-100709		1025													X								X
3	KCP4-S0132-S2-100709		1035													X								X
4	KCP4-S0133-S2-100709		1050													X								X
5	KCP4-S0133-S1-100709		1055													⊗			X					⊗
6	KCP4-S0134-S1-100709		1100													⊗			X					⊗
7	KCP4-S0134-S2-100709		1105													X								X
8	KCP4-S0135-S2-100709		1110													X								X
9	KCP4-S0135-S1-100709		1118													⊗			X					⊗
10	KCP4-S0136-S2-100709		1125													X								X

	Signature	Company	Date	Time
Relinquished by		AQ	7/9/10	1730
Received by			7/9/10	1730
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
Metals: Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn
⊗ Added 7/13/10. DB (3 day TAT)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: AQ
Project Number: 060105-01
Project Name: Kim Clark Phase 4
Project Manager: Desrosiers
Sampled by: LV/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Day ☒ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☑ 4 days (other)

Laboratory Number: 07-057

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Hold / Archive						% Moisture
11	KCP4-S0136-S1-100709	7/9/10	1130	SO	1											⊗			X						⊗
12	KCP4-S0137-S2-100709		1140													X									X
13	KCP4-S0137-S1-100709		1145													⊗			X						⊗
14	KCP4-S0138-S2-100709		1150													X									X
15	KCP4-S0138-S1-100709		1200													⊗			X						⊗
16	KCP4-S0139-S2-100709		1205													X									X
17	KCP4-S0139-S1-100709		1210													⊗			X						⊗
18	KCP4-S0140-S2-100709		1220													X									X
19	KCP4-S0140-S1-100709		1230													⊗			X						⊗
20	KCP4-S0141-S2-100709	↓	1240	↓	↓											X									X

	Signature	Company	Date	Time
Relinquished by		AQ	7/9/10	1730
Received by		ONE	7/9/10	1730
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
⊗ added 7/13/10. DB
(3day)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: AQ
Project Number: 000105-01
Project Name: Kim Clark Phase 4
Project Manager: Desrosiers
Sampled by: LV/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☒ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 07-057

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Hold/Archive					% Moisture
21	KCP4-~~MW~~DP-S0141-S1-100709	7/9/10	1245	SO	1											☒			X					☒
22	KCP4-S0142-S2-100709		1255													X								X
23	KCP4-S0143-B-100709		1415													X								X
24	KCP4-S0144-B-100709		1420													X								X
25	KCP4-S0143B-B-100709		1417													X								X
26	KCP4-S0~~1445~~145-~~DP~~B-100709		1440													X								X
27	KCP4-S0146-B-100709		1445													X								X
28	KCP4-S0147-B-100709		1450													X								X
29	KCP4-S0148-B-100709		1455													X								X
30	KCP4-S0149-B-100709	↓	1500	↓	↓											X								X

	Signature	Company	Date	Time
Relinquished by		AQ	7/9/10	1730
Received by		ORE	7/9/10	1730
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
☒ Added 7/13/10. DB (3 day TAT)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: AQ
Project Number: 000105-01
Project Name: Kim Clark Phase 4
Project Manager: Desrosiers
Sampled by: LV/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ⊘ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☑ 4 day (other)

Laboratory Number: 07-057

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Hold / Archive	% Moisture
31	KCP4-S0150-B-100709	7/9/10	1505	SO	1											X				X
32	KCP4-S0151-B-100709		1510													X				
33	KCP4-S0152-B-100709		1515													X				
34	KCP4-S0153-B-100709		1520													X				
35	KCP4-S0154-B-100709		1525													X				
36	KCP4-S0155-B-100709		1530													X				
37	KCP4-S0140B-S1-100709		1235													X				
38	KCP4-S0140B-S2-100709		1225													X				
39	KCP4-EB-100709		1600	W												⊘	NO DB	X		

	Signature	Company	Date	Time
Relinquished by		AQ	7/9/10	1730
Received by			7/9/10	1730
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
⊘ Added 7/13/10. DB (3 day TAT)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01

OnSite Project Number: 07-057

Initiated by: MM

Date Initiated: 7/9/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 4	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

2.4) Sample 2) KCP4-SO131B-B-100709 7/9/10 1025 on COC 1020 on label
Sample 25) KCP4-SO143B-B-100709 7/9/10 1417 on COC 1415 on label
Sample 37) KCP4-SO140B-S1-100709 7/9/10 1235 on COC 1230 on label
Sample 38) KCP4-SO140B-S2-100709 7/9/10 1225 on COC 1220 on label

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 3, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1007-197

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on July 28, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

Case Narrative

Samples were collected on July 28, 2010 and received by the laboratory on July 28, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

NWTPH-HCID

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Identification	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-01				
Client ID:	**KCP4-BK01-A-100728**				
Gasoline Range	**ND**	26	7-30-10	7-30-10	
Diesel Range	**Diesel Range Organics**	66	7-30-10	7-30-10	
Lube Oil Range	**Lube Oil**	130	7-30-10	7-30-10	
Surrogate: o-terphenyl	95%	50-150			
Lab ID:	07-197-20				
Client ID:	**KCP4-BK03-E**				
Gasoline Range	**ND**	26	7-30-10	7-30-10	
Diesel Range	**ND**	66	7-30-10	7-30-10	
Lube Oil Range	**Lube Oil**	130	7-30-10	7-30-10	
Surrogate: o-terphenyl	98%	50-150			

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-01					
Client ID:	**KCP4-BK01-A-100728**					
Antimony	**45**	6.6	6010B	7-29-10	7-30-10	
Arsenic	**ND**	13	6010B	7-29-10	7-30-10	
Chromium	**32**	0.66	6010B	7-29-10	7-30-10	
Copper	**130**	1.3	6010B	7-30-10	7-30-10	
Lead	**1600**	6.6	6010B	7-29-10	7-30-10	
Mercury	**3.6**	3.3	7471A	7-30-10	7-30-10	
Nickel	**29**	3.3	6010B	7-29-10	7-30-10	
Thallium	**ND**	3.3	6020	7-29-10	7-30-10	
Zinc	**57**	3.3	6010B	7-29-10	7-30-10	
Lab ID:	07-197-02					
Client ID:	**KCP4-BK01-B-100728**					
Antimony	**13**	5.7	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**27**	0.57	6010B	7-29-10	7-30-10	
Copper	**83**	1.1	6010B	7-30-10	7-30-10	
Lead	**270**	5.7	6010B	7-29-10	7-30-10	
Mercury	**0.4**	0.29	7471A	7-30-10	7-30-10	
Nickel	**37**	2.9	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.9	6020	7-29-10	7-30-10	
Zinc	**96**	2.9	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-03					
Client ID:	**KCP4-BK01-C-100728**					
Antimony	**5.7**	5.5	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**22**	0.55	6010B	7-29-10	7-30-10	
Copper	**76**	1.1	6010B	7-30-10	7-30-10	
Lead	**110**	5.5	6010B	7-29-10	7-30-10	
Mercury	**0.49**	0.28	7471A	7-30-10	7-30-10	
Nickel	**37**	2.8	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.8	6020	7-29-10	7-30-10	
Zinc	**65**	2.8	6010B	7-29-10	7-30-10	
Lab ID:	07-197-04					
Client ID:	**KCP4-BK01-D-100728**					
Antimony	**7.8**	5.4	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**19**	0.54	6010B	7-29-10	7-30-10	
Copper	**45**	1.1	6010B	7-30-10	7-30-10	
Lead	**290**	5.4	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**27**	2.7	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.7	6020	7-29-10	7-30-10	
Zinc	**53**	2.7	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-07					
Client ID:	**KCP4-SO156-B-100728**					
Antimony	**ND**	5.3	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**28**	0.53	6010B	7-29-10	7-30-10	
Copper	**42**	1.1	6010B	7-30-10	7-30-10	
Lead	**29**	5.3	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**61**	2.7	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.7	6020	7-29-10	7-30-10	
Zinc	**49**	2.7	6010B	7-29-10	7-30-10	
Lab ID:	07-197-08					
Client ID:	**KCP4-SO157-S1-100728**					
Antimony	**10**	5.1	6010B	7-29-10	7-30-10	
Arsenic	**43**	10	6010B	7-29-10	7-30-10	
Chromium	**63**	0.51	6010B	7-29-10	7-30-10	
Copper	**140**	1.0	6010B	7-30-10	7-30-10	
Lead	**32**	5.1	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.26	7471A	7-30-10	7-30-10	
Nickel	**58**	2.6	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.6	6020	7-29-10	7-30-10	
Zinc	**520**	2.6	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-09					
Client ID:	**KCP4-SO158-S1-100728**					
Antimony	**13**	5.1	6010B	7-29-10	7-30-10	
Arsenic	**52**	10	6010B	7-29-10	7-30-10	
Chromium	**62**	0.51	6010B	7-29-10	7-30-10	
Copper	**180**	1.0	6010B	7-30-10	7-30-10	
Lead	**38**	5.1	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.25	7471A	7-30-10	7-30-10	
Nickel	**57**	2.5	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.5	6020	7-29-10	7-30-10	
Zinc	**490**	2.5	6010B	7-29-10	7-30-10	
Lab ID:	07-197-10					
Client ID:	**KCP4-SO159-B-100728**					
Antimony	**ND**	5.4	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**21**	0.54	6010B	7-29-10	7-30-10	
Copper	**20**	1.1	6010B	7-30-10	7-30-10	
Lead	**16**	5.4	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**23**	2.7	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.7	6020	7-29-10	7-30-10	
Zinc	**82**	2.7	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-11					
Client ID:	**KCP4-SO159B-B-100728**					
Antimony	**ND**	5.4	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**18**	0.54	6010B	7-29-10	7-30-10	
Copper	**18**	1.1	6010B	7-30-10	7-30-10	
Lead	**17**	5.4	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**19**	2.7	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.7	6020	7-29-10	7-30-10	
Zinc	**89**	2.7	6010B	7-29-10	7-30-10	
Lab ID:	07-197-12					
Client ID:	**KCP4-SO160-S1-100728**					
Antimony	**5.7**	5.2	6010B	7-29-10	7-30-10	
Arsenic	**13**	10	6010B	7-29-10	7-30-10	
Chromium	**49**	0.52	6010B	7-29-10	7-30-10	
Copper	**140**	1.0	6010B	7-30-10	7-30-10	
Lead	**78**	5.2	6010B	7-29-10	7-30-10	
Mercury	**0.31**	0.26	7471A	7-30-10	7-30-10	
Nickel	**55**	2.6	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.6	6020	7-29-10	7-30-10	
Zinc	**200**	2.6	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	7-197-13					
Client ID:	**KCP4-SO161-S1-100728**					
Antimony	**9.8**	5.5	6010B	7-29-10	7-30-10	
Arsenic	**16**	11	6010B	7-29-10	7-30-10	
Chromium	**36**	0.55	6010B	7-29-10	7-30-10	
Copper	**78**	1.1	6010B	7-30-10	7-30-10	
Lead	**600**	5.5	6010B	7-29-10	7-30-10	
Mercury	**0.71**	0.28	7471A	7-30-10	7-30-10	
Nickel	**40**	2.8	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.8	6020	7-29-10	7-30-10	
Zinc	**150**	2.8	6010B	7-29-10	7-30-10	
Lab ID:	07-197-14					
Client ID:	**KCP4-SO162-S1-100728**					
Antimony	**11**	5.6	6010B	7-29-10	7-30-10	
Arsenic	**15**	11	6010B	7-29-10	7-30-10	
Chromium	**23**	0.56	6010B	7-29-10	7-30-10	
Copper	**120**	1.1	6010B	7-30-10	7-30-10	
Lead	**3000**	5.6	6010B	7-29-10	7-30-10	
Mercury	**0.64**	0.28	7471A	7-30-10	7-30-10	
Nickel	**28**	2.8	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.8	6020	7-29-10	7-30-10	
Zinc	**220**	2.8	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-15					
Client ID:	**KCP4-SO163-B-100728**					
Antimony	**ND**	6.4	6010B	7-29-10	7-30-10	
Arsenic	**ND**	13	6010B	7-29-10	7-30-10	
Chromium	**25**	0.64	6010B	7-29-10	7-30-10	
Copper	**7.4**	1.3	6010B	7-30-10	7-30-10	
Lead	**18**	6.4	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.32	7471A	7-30-10	7-30-10	
Nickel	**20**	3.2	6010B	7-29-10	7-30-10	
Thallium	**ND**	3.2	6020	7-29-10	7-30-10	
Zinc	**26**	3.2	6010B	7-29-10	7-30-10	
Lab ID:	07-197-26					
Client ID:	**KCP4-SO164-B-100728**					
Antimony	**ND**	5.9	6010B	7-29-10	7-30-10	
Arsenic	**ND**	12	6010B	7-29-10	7-30-10	
Chromium	**36**	0.59	6010B	7-29-10	7-30-10	
Copper	**5.7**	1.2	6010B	7-30-10	7-30-10	
Lead	**ND**	5.9	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.30	7471A	7-30-10	7-30-10	
Nickel	**18**	3.0	6010B	7-29-10	7-30-10	
Thallium	**ND**	3.0	6020	7-29-10	7-30-10	
Zinc	**27**	3.0	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-27					
Client ID:	**KCP4-SO165-S1-100728**					
Antimony	**ND**	5.3	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**20**	0.53	6010B	7-29-10	7-30-10	
Copper	**23**	1.1	6010B	7-30-10	7-30-10	
Lead	**17**	5.3	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**39**	2.7	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.7	6020	7-29-10	7-30-10	
Zinc	**34**	2.7	6010B	7-29-10	7-30-10	
Lab ID:	07-197-28					
Client ID:	**KCP4-SO165B-S1-100728**					
Antimony	**ND**	5.3	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**33**	0.53	6010B	7-29-10	7-30-10	
Copper	**19**	1.1	6010B	7-30-10	7-30-10	
Lead	**55**	5.3	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.26	7471A	7-30-10	7-30-10	
Nickel	**53**	2.6	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.6	6020	7-29-10	7-30-10	
Zinc	**33**	2.6	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-29					
Client ID:	**KCP4-SO165-S2-100728**					
Antimony	**ND**	5.7	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**19**	0.57	6010B	7-29-10	7-30-10	
Copper	**39**	1.1	6010B	7-30-10	7-30-10	
Lead	**50**	5.7	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.29	7471A	7-30-10	7-30-10	
Nickel	**19**	2.9	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.9	6020	7-29-10	7-30-10	
Zinc	**210**	2.9	6010B	7-29-10	7-30-10	
Lab ID:	07-197-30					
Client ID:	**KCP4-SO166-S2-100728**					
Antimony	**ND**	6.1	6010B	7-29-10	7-30-10	
Arsenic	**ND**	12	6010B	7-29-10	7-30-10	
Chromium	**23**	0.61	6010B	7-29-10	7-30-10	
Copper	**40**	1.2	6010B	7-30-10	7-30-10	
Lead	**74**	6.1	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.30	7471A	7-30-10	7-30-10	
Nickel	**33**	3.0	6010B	7-29-10	7-30-10	
Thallium	**ND**	3.0	6020	7-29-10	7-30-10	
Zinc	**120**	3.0	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-31					
Client ID:	**KCP4-SO167-S2-100728**					
Antimony	**ND**	5.4	6010B	7-29-10	7-30-10	
Arsenic	**ND**	11	6010B	7-29-10	7-30-10	
Chromium	**18**	0.54	6010B	7-29-10	7-30-10	
Copper	**15**	1.1	6010B	7-30-10	7-30-10	
Lead	**ND**	5.4	6010B	7-29-10	7-30-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**40**	2.7	6010B	7-29-10	7-30-10	
Thallium	**ND**	2.7	6020	7-29-10	7-30-10	
Zinc	**27**	2.7	6010B	7-29-10	7-30-10	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-05					
Client ID:	**KCP4-BK01-E-100728**					
Antimony	**22**	5.9	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**33**	0.59	6010B	7-30-10	8-2-10	
Copper	**44**	1.2	6010B	7-30-10	8-2-10	
Lead	**270**	5.9	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.30	7471A	7-30-10	7-30-10	
Nickel	**38**	3.0	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.0	6020	7-30-10	7-30-10	
Zinc	**60**	3.0	6010B	7-30-10	8-2-10	
Lab ID:	07-197-06					
Client ID:	**KCP4B-BK01-E-100728**					
Antimony	**170**	5.6	6010B	7-30-10	8-2-10	
Arsenic	**ND**	11	6010B	7-30-10	8-2-10	
Chromium	**28**	0.56	6010B	7-30-10	8-2-10	
Copper	**45**	1.1	6010B	7-30-10	8-2-10	
Lead	**1100**	5.6	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.28	7471A	7-30-10	7-30-10	
Nickel	**34**	2.8	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.8	6020	7-30-10	7-30-10	
Zinc	**54**	2.8	6010B	7-30-10	8-2-10	

Date of Report: August 3, 2010
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-16					
Client ID:	**KCP4-BK03-A-100728**					
Antimony	**15**	6.3	6010B	7-30-10	8-2-10	
Arsenic	**ND**	13	6010B	7-30-10	8-2-10	
Chromium	**35**	0.63	6010B	7-30-10	8-2-10	
Copper	**85**	1.3	6010B	7-30-10	8-2-10	
Lead	**300**	6.3	6010B	7-30-10	8-2-10	
Mercury	**1.1**	0.32	7471A	7-30-10	7-30-10	
Nickel	**29**	3.2	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.2	6020	7-30-10	7-30-10	
Zinc	**90**	3.2	6010B	7-30-10	8-2-10	
Lab ID:	07-197-17					
Client ID:	**KCP4-BK03-B-100728**					
Antimony	**31**	5.8	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**27**	0.58	6010B	7-30-10	8-2-10	
Copper	**83**	1.2	6010B	7-30-10	8-2-10	
Lead	**530**	5.8	6010B	7-30-10	8-2-10	
Mercury	**0.59**	0.29	7471A	7-30-10	7-30-10	
Nickel	**33**	2.9	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.9	6020	7-30-10	7-30-10	
Zinc	**86**	2.9	6010B	7-30-10	8-2-10	

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Samples Submitted: July 28, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-18					
Client ID:	**KCP4-BK03-C-100728**					
Antimony	**10**	5.8	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**32**	0.58	6010B	7-30-10	8-2-10	
Copper	**87**	1.2	6010B	7-30-10	8-2-10	
Lead	**450**	5.8	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.29	7471A	7-30-10	7-30-10	
Nickel	**32**	2.9	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.9	6020	7-30-10	7-30-10	
Zinc	**74**	2.9	6010B	7-30-10	8-2-10	
Lab ID:	07-197-19					
Client ID:	**KCP4-BK03-D-100728**					
Antimony	**33**	6.4	6010B	7-30-10	8-2-10	
Arsenic	**ND**	13	6010B	7-30-10	8-2-10	
Chromium	**26**	0.64	6010B	7-30-10	8-2-10	
Copper	**96**	1.3	6010B	7-30-10	8-2-10	
Lead	**980**	6.4	6010B	7-30-10	8-2-10	
Mercury	**6.1**	3.2	7471A	7-30-10	7-30-10	
Nickel	**29**	3.2	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.2	6020	7-30-10	7-30-10	
Zinc	**57**	3.2	6010B	7-30-10	8-2-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-20					
Client ID:	**KCP4-BK03-E-100728**					
Antimony	**21**	6.6	6010B	7-30-10	8-2-10	
Arsenic	**ND**	13	6010B	7-30-10	8-2-10	
Chromium	**30**	0.66	6010B	7-30-10	8-2-10	
Copper	**71**	1.3	6010B	7-30-10	8-2-10	
Lead	**560**	6.6	6010B	7-30-10	8-2-10	
Mercury	**0.69**	0.33	7471A	7-30-10	7-30-10	
Nickel	**29**	3.3	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.3	6020	7-30-10	7-30-10	
Zinc	**72**	3.3	6010B	7-30-10	8-2-10	
Lab ID:	07-197-21					
Client ID:	**KCP4-BK04-A-100728**					
Antimony	**20**	6.1	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**30**	0.61	6010B	7-30-10	8-2-10	
Copper	**95**	1.2	6010B	7-30-10	8-2-10	
Lead	**400**	6.1	6010B	7-30-10	8-2-10	
Mercury	**0.57**	0.31	7471A	7-30-10	7-30-10	
Nickel	**31**	3.1	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.1	6020	7-30-10	7-30-10	
Zinc	**91**	3.1	6010B	7-30-10	8-2-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-22					
Client ID:	**KCP4-BK04-B-100728**					
Antimony	**9.7**	5.8	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**25**	0.58	6010B	7-30-10	8-2-10	
Copper	**67**	1.2	6010B	7-30-10	8-2-10	
Lead	**190**	5.8	6010B	7-30-10	8-2-10	
Mercury	**0.53**	0.29	7471A	7-30-10	7-30-10	
Nickel	**30**	2.9	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.9	6020	7-30-10	7-30-10	
Zinc	**77**	2.9	6010B	7-30-10	8-2-10	
Lab ID:	07-197-23					
Client ID:	**KCP4-BK04-C-100728**					
Antimony	**24**	5.4	6010B	7-30-10	8-2-10	
Arsenic	**ND**	11	6010B	7-30-10	8-2-10	
Chromium	**27**	0.54	6010B	7-30-10	8-2-10	
Copper	**64**	1.1	6010B	7-30-10	8-2-10	
Lead	**210**	5.4	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**32**	2.7	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.7	6020	7-30-10	7-30-10	
Zinc	**100**	2.7	6010B	7-30-10	8-2-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-24					
Client ID:	**KCP4-BK04-D-100728**					
Antimony	**25**	5.9	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**31**	0.59	6010B	7-30-10	8-2-10	
Copper	**150**	1.2	6010B	7-30-10	8-2-10	
Lead	**330**	5.9	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.29	7471A	7-30-10	7-30-10	
Nickel	**68**	2.9	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.9	6020	7-30-10	7-30-10	
Zinc	**140**	2.9	6010B	7-30-10	8-2-10	
Lab ID:	07-197-25					
Client ID:	**KCP4-BK04-E-100728**					
Antimony	**27**	6.1	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**28**	0.61	6010B	7-30-10	8-2-10	
Copper	**120**	1.2	6010B	7-30-10	8-2-10	
Lead	**320**	6.1	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.30	7471A	7-30-10	7-30-10	
Nickel	**31**	3.0	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.0	6020	7-30-10	7-30-10	
Zinc	**130**	3.0	6010B	7-30-10	8-2-10	

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Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-32					
Client ID:	**KCP4-BK06-A-100728**					
Antimony	**ND**	5.3	6010B	7-30-10	8-2-10	
Arsenic	**ND**	11	6010B	7-30-10	8-2-10	
Chromium	**34**	0.53	6010B	7-30-10	8-2-10	
Copper	**49**	1.1	6010B	7-30-10	8-2-10	
Lead	**110**	5.3	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**44**	2.7	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.7	6020	7-30-10	7-30-10	
Zinc	**56**	2.7	6010B	7-30-10	8-2-10	
Lab ID:	07-197-33					
Client ID:	**KCP4-BK06B-A-100728**					
Antimony	**ND**	5.3	6010B	7-30-10	8-2-10	
Arsenic	**ND**	11	6010B	7-30-10	8-2-10	
Chromium	**110**	0.53	6010B	7-30-10	8-2-10	
Copper	**48**	1.1	6010B	7-30-10	8-2-10	
Lead	**140**	5.3	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.27	7471A	7-30-10	7-30-10	
Nickel	**44**	2.7	6010B	7-30-10	8-2-10	
Thallium	**ND**	2.7	6020	7-30-10	7-30-10	
Zinc	**57**	2.7	6010B	7-30-10	8-2-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-34					
Client ID:	**KCP4-BK06-B-100728**					
Antimony	**ND**	6.2	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**29**	0.62	6010B	7-30-10	8-2-10	
Copper	**60**	1.2	6010B	7-30-10	8-2-10	
Lead	**190**	6.2	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.31	7471A	7-30-10	7-30-10	
Nickel	**31**	3.1	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.1	6020	7-30-10	7-30-10	
Zinc	**96**	3.1	6010B	7-30-10	8-2-10	
Lab ID:	07-197-35					
Client ID:	**KCP4-BK06-C-100728**					
Antimony	**ND**	7.5	6010B	7-30-10	8-2-10	
Arsenic	**ND**	15	6010B	7-30-10	8-2-10	
Chromium	**39**	0.75	6010B	7-30-10	8-2-10	
Copper	**75**	1.5	6010B	7-30-10	8-2-10	
Lead	**200**	7.5	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.38	7471A	7-30-10	7-30-10	
Nickel	**35**	3.8	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.8	6020	7-30-10	7-30-10	
Zinc	**160**	3.8	6010B	7-30-10	8-2-10	

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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-197-36					
Client ID:	**KCP4-BK06-D-100728**					
Antimony	**12**	6.1	6010B	7-30-10	8-2-10	
Arsenic	**ND**	12	6010B	7-30-10	8-2-10	
Chromium	**35**	0.61	6010B	7-30-10	8-2-10	
Copper	**99**	1.2	6010B	7-30-10	8-2-10	
Lead	**520**	6.1	6010B	7-30-10	8-2-10	
Mercury	**1.4**	1.2	7471A	7-30-10	7-30-10	
Nickel	**32**	3.1	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.1	6020	7-30-10	7-30-10	
Zinc	**560**	3.1	6010B	7-30-10	8-2-10	
Lab ID:	07-197-37					
Client ID:	**KCP4-BK06-E-100728**					
Antimony	**ND**	6.4	6010B	7-30-10	8-2-10	
Arsenic	**ND**	13	6010B	7-30-10	8-2-10	
Chromium	**57**	0.64	6010B	7-30-10	8-2-10	
Copper	**83**	1.3	6010B	7-30-10	8-2-10	
Lead	**120**	6.4	6010B	7-30-10	8-2-10	
Mercury	**ND**	0.32	7471A	7-30-10	7-30-10	
Nickel	**35**	3.2	6010B	7-30-10	8-2-10	
Thallium	**ND**	3.2	6020	7-30-10	7-30-10	
Zinc	**220**	3.2	6010B	7-30-10	8-2-10	

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Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

NWTPH-HCID
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-30-10
Date Analyzed:	7-30-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0730S1
Gasoline:	**ND**
PQL:	20
Diesel Fuel:	**ND**
PQL:	50
Lube Oil:	**ND**
PQL:	100
Surrogate Recovery:	
o-Terphenyl	93%

Flags

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

NWTPH-HCID
STANDARDS RESPONSE SUMMARY

GASOLINE RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0730R-V2	17761928	10 ppm

DIESEL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
CCV0730R-V2	265488176	100 ppm
CCV0730R-V3	274538931	100 ppm

HEAVY OIL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0730R-V2	137302328	50 ppm

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-29&30-10
Date Analyzed:	7-30-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0729S3,MB0729S5&MB0730S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 7-29&30-10
Date Analyzed: 7-30-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-197-07

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**26.5**	**27.7**	5	0.50	
Copper	**40.0**	**45.1**	12	1.0	
Lead	**27.3**	**24.3**	12	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**57.1**	**60.3**	5	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**46.5**	**46.1**	1	2.5	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 7-29&30-10
Date Analyzed: 7-30-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-197-07

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**92.3**	92	**92.9**	93	1	
Arsenic	100	**99.1**	99	**96.9**	97	2	
Chromium	100	**114**	87	**115**	88	1	
Copper	50	**85.6**	91	**85.0**	90	1	
Lead	250	**248**	88	**244**	87	2	
Mercury	0.50	**0.382**	76	**0.375**	75	2	
Nickel	100	**155**	98	**146**	89	6	
Thallium	50	**48.7**	97	**48.3**	97	1	
Zinc	100	**138**	91	**136**	89	2	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 7-29&30-10
Date Analyzed: 7-30-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0729S3,SB0729S5&SB0730S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**92.6**	93
Arsenic	6010B	100	**97.7**	98
Chromium	6010B	100	**96.0**	96
Copper	6010B	50	**52.0**	104
Lead	6010B	250	**236**	95
Mercury	7471A	0.50	**0.409**	82
Nickel	6010B	100	**97.9**	98
Thallium	6020	50	**49.3**	99
Zinc	6010B	100	**98.9**	99

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1073010P	1.00	0.957	4.3	+/- 10%
Arsenic	ICV1073010P	1.00	0.946	5.4	+/- 10%
Chromium	ICV1073010P	1.00	0.985	1.5	+/- 10%
Copper	ICV1073010P	1.00	0.996	0.40	+/- 10%
Lead	ICV1073010P	1.00	0.988	1.2	+/- 10%
Mercury	ICV1073010Y	0.00500	0.00487	2.6	+/- 10%
Nickel	ICV1073010P	1.00	1.00	0	+/- 10%
Thallium	ICV1073010E	0.0500	0.0500	0	+/- 10%
Zinc	ICV1073010P	1.00	0.958	4.2	+/- 10%
Antimony	CCV1073010P	1.00	0.941	5.9	+/- 10%
Arsenic	CCV1073010P	1.00	0.933	6.7	+/- 10%
Chromium	CCV1073010P	1.00	0.961	3.9	+/- 10%
Copper	CCV1073010P	1.00	0.962	3.8	+/- 10%
Lead	CCV1073010P	10.0	9.52	4.8	+/- 10%
Mercury	CCV1073010Y	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV1073010P	1.00	0.958	4.2	+/- 10%
Thallium	CCV1073010E	0.0400	0.0390	2.5	+/- 10%
Zinc	CCV1073010P	1.00	0.947	5.3	+/- 10%
Antimony	CCV2073010P	1.00	0.969	3.1	+/- 10%
Arsenic	CCV2073010P	1.00	0.950	5.0	+/- 10%
Chromium	CCV2073010P	1.00	0.965	3.5	+/- 10%
Copper	CCV2073010P	1.00	0.991	0.90	+/- 10%
Lead	CCV2073010P	10.0	9.48	5.2	+/- 10%
Mercury	CCV2073010Y	0.00500	0.00463	7.4	+/- 20%
Nickel	CCV2073010P	1.00	0.973	2.7	+/- 10%
Thallium	CCV2073010E	0.0400	0.0389	2.8	+/- 10%
Zinc	CCV2073010P	1.00	0.963	3.7	+/- 10%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3073010P	1.00	0.966	3.4	+/- 10%
Arsenic	CCV3073010P	1.00	0.941	5.9	+/- 10%
Chromium	CCV3073010P	1.00	0.955	4.5	+/- 10%
Copper	CCV3073010P	1.00	0.996	0.40	+/- 10%
Lead	CCV3073010P	10.0	9.39	6.1	+/- 10%
Nickel	CCV3073010P	1.00	0.958	4.2	+/- 10%
Thallium	CCV3073010E	0.0400	0.0389	2.8	+/- 10%
Zinc	CCV3073010P	1.00	0.953	4.7	+/- 10%
Antimony	CCV4073010P	1.00	0.961	3.9	+/- 10%
Arsenic	CCV4073010P	1.00	0.926	7.4	+/- 10%
Chromium	CCV4073010P	1.00	0.945	5.5	+/- 10%
Copper	CCV4073010P	1.00	0.987	1.3	+/- 10%
Lead	CCV4073010P	10.0	9.33	6.7	+/- 10%
Nickel	CCV4073010P	1.00	0.958	4.2	+/- 10%
Thallium	CCV4073010E	0.0400	0.0384	4.0	+/- 10%
Zinc	CCV4073010P	1.00	0.944	5.6	+/- 10%
Copper	CCV5073010P	1.00	0.989	1.1	+/- 10%
Copper	CCV6073010P	1.00	0.975	2.5	+/- 10%
Copper	CCV7073010P	1.00	0.978	2.2	+/- 10%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL MERCURY
EPA 7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference
Mercury	ICV21073010Y	0.00500	0.00489	2.2
Mercury	CCV1073010Y	0.00500	0.00493	1.4
Mercury	CCV2073010Y	0.00500	0.00494	1.2

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL MERCURY
EPA 7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Mercury	ICV31073010Y	0.00500	0.00481	3.8	+/- 10%
Mercury	CCV1073010Y	0.00500	0.00495	1.0	+/- 20%
Mercury	CCV2073010Y	0.00500	0.00486	2.8	+/- 20%
Mercury	CCV3073010Y	0.00500	0.00491	1.8	+/- 20%
Mercury	CCV4073010Y	0.00500	0.00450	10	+/- 20%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-30-10
Date Analyzed:	7-30&8-2-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0730S2&MB0730S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 7-30-10
Date Analyzed: 7-30&8-2-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-197-32

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**32.3**	**28.3**	13	0.50	
Copper	**46.4**	**47.0**	1	1.0	
Lead	**102**	**114**	11	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**41.3**	**39.5**	5	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**52.9**	**54.8**	4	2.5	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 7-30-10
Date Analyzed: 7-30&8-2-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-197-32

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**96.8**	97	**94.3**	94	3	
Arsenic	100	**102**	102	**101**	101	1	
Chromium	100	**116**	84	**120**	87	3	
Copper	50	**92.9**	93	**92.8**	93	0	
Lead	500	**537**	87	**637**	107	17	
Mercury	0.50	**0.437**	87	**0.410**	82	6	
Nickel	100	**127**	86	**128**	87	1	
Thallium	50	**48.0**	96	**43.5**	87	10	
Zinc	100	**135**	83	**131**	78	3	

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 7-30-10
Date Analyzed: 7-30&8-2-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0730S2&SB0730S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**98.2**	98
Arsenic	6010B	100	**98.7**	99
Chromium	6010B	100	**99.7**	100
Copper	6010B	50	**56.5**	113
Lead	6010B	500	**470**	94
Mercury	7471A	0.50	**0.474**	95
Nickel	6010B	100	**100**	100
Thallium	6020	50	**51.2**	102
Zinc	6010B	100	**88.3**	88

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1080210P	1.00	0.963	3.7	+/- 10%
Arsenic	ICV1080210P	1.00	0.956	4.4	+/- 10%
Chromium	ICV1080210P	1.00	1.01	-1.0	+/- 10%
Copper	ICV1080210P	1.00	1.02	-2.0	+/- 10%
Lead	ICV1080210P	1.00	1.01	-1.0	+/- 10%
Mercury	ICV1073010Y	0.00500	0.00489	2.2	+/- 10%
Nickel	ICV1080210P	1.00	1.02	-2.0	+/- 10%
Thallium	ICV1073010E	0.0500	0.0493	1.4	+/- 10%
Zinc	ICV1080210P	1.00	0.984	1.6	+/- 10%
Antimony	CCV1080210P	1.00	0.948	5.2	+/- 10%
Arsenic	CCV1080210P	1.00	0.952	4.8	+/- 10%
Chromium	CCV1080210P	1.00	0.992	0.80	+/- 10%
Copper	CCV1080210P	1.00	0.990	1.0	+/- 10%
Lead	CCV1080210P	10.0	9.75	2.5	+/- 10%
Mercury	CCV1073010Y	0.00500	0.00494	1.2	+/- 20%
Nickel	CCV1080210P	1.00	0.981	1.9	+/- 10%
Thallium	CCV1073010E	0.0400	0.0394	1.5	+/- 10%
Zinc	CCV1080210P	1.00	0.973	2.7	+/- 10%
Antimony	CCV2080210P	1.00	0.961	3.9	+/- 10%
Arsenic	CCV2080210P	1.00	0.996	0.40	+/- 10%
Chromium	CCV2080210P	1.00	0.994	0.60	+/- 10%
Copper	CCV2080210P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2080210P	10.0	10.0	0	+/- 10%
Mercury	CCV2073010Y	0.00500	0.00494	1.2	+/- 20%
Nickel	CCV2080210P	1.00	1.00	0	+/- 10%
Thallium	CCV2073010E	0.0400	0.0391	2.3	+/- 10%
Zinc	CCV2080210P	1.00	0.981	1.9	+/- 10%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV6080210P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV6080210P	1.00	0.980	2.0	+/- 10%
Chromium	CCV6080210P	1.00	0.994	0.60	+/- 10%
Copper	CCV6080210P	1.00	1.03	-3.0	+/- 10%
Lead	CCV6080210P	10.0	9.66	3.4	+/- 10%
Nickel	CCV6080210P	1.00	0.987	1.3	+/- 10%
Zinc	CCV6080210P	1.00	0.987	1.3	+/- 10%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3080210P	1.00	0.968	3.2	+/- 10%
Arsenic	CCV3080210P	1.00	0.961	3.9	+/- 10%
Chromium	CCV3080210P	1.00	0.992	0.80	+/- 10%
Copper	CCV3080210P	1.00	1.03	-3.0	+/- 10%
Lead	CCV3080210P	10.0	9.71	2.9	+/- 10%
Mercury	CCV3073010Y	0.00500	0.00488	2.4	+/- 20%
Nickel	CCV3080210P	1.00	0.987	1.3	+/- 10%
Thallium	CCV3073010E	0.0400	0.0393	1.8	+/- 10%
Zinc	CCV3080210P	1.00	0.982	1.8	+/- 10%
Antimony	CCV4080210P	1.00	0.990	1.0	+/- 10%
Arsenic	CCV4080210P	1.00	0.992	0.80	+/- 10%
Chromium	CCV4080210P	1.00	0.999	0.10	+/- 10%
Copper	CCV4080210P	1.00	1.03	-3.0	+/- 10%
Lead	CCV4080210P	10.0	9.82	1.8	+/- 10%
Nickel	CCV4080210P	1.00	0.989	1.1	+/- 10%
Thallium	CCV4073010E	0.0400	0.0398	0.50	+/- 10%
Zinc	CCV4080210P	1.00	0.985	1.5	+/- 10%
Antimony	CCV5080210P	1.00	0.976	2.4	+/- 10%
Arsenic	CCV5080210P	1.00	0.958	4.2	+/- 10%
Chromium	CCV5080210P	1.00	1.00	0	+/- 10%
Copper	CCV5080210P	1.00	1.02	-2.0	+/- 10%
Lead	CCV5080210P	10.0	9.76	2.4	+/- 10%
Nickel	CCV5080210P	1.00	0.990	1.0	+/- 10%
Zinc	CCV5080210P	1.00	0.986	1.4	+/- 10%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL METALS
EPA 6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV6080210P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV6080210P	1.00	0.980	2.0	+/- 10%
Chromium	CCV6080210P	1.00	0.994	0.60	+/- 10%
Copper	CCV6080210P	1.00	1.03	-3.0	+/- 10%
Lead	CCV6080210P	10.0	9.66	3.4	+/- 10%
Nickel	CCV6080210P	1.00	0.987	1.3	+/- 10%
Zinc	CCV6080210P	1.00	0.987	1.3	+/- 10%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

TOTAL MERCURY
EPA 7471
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Mercury	ICV21073010Y	0.00500	0.00481	3.8	+/- 10%
Mercury	CCV1073010Y	0.00500	0.00495	1.0	+/- 20%
Mercury	CCV2073010Y	0.00500	0.00486	2.8	+/- 20%

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

% MOISTURE
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Date Analyzed: 7-29-10

Client ID	Lab ID	% Moisture
KCP4-BK01-A-100728	07-197-01	24
KCP4-BK01-B-100728	07-197-02	12
KCP4-BK01-C-100728	07-197-03	10
KCP4-BK01-D-100728	07-197-04	8
KCP4-BK01-E-100728	07-197-05	16
KCP4-BK01B-E-100728	07-197-06	11
KCP4-SO156-B-100728	07-197-07	
KCP4-SO157-S1-100728	07-197-08	2
KCP4-SO158-S1-100728	07-197-09	2
KCP4-SO159-B-100728	07-197-10	7
KCP4-SO159B-B-100728	07-197-11	8
KCP4-SO160-S1-100728	07-197-12	3
KCP4-SO161-S1-100728	07-197-13	9
KCP4-SO162-S1-100728	07-197-14	11
KCP4-SO163-B-100728	07-197-15	22
KCP4-BK03-A-100728	07-197-16	21
KCP4-BK03-B-100728	07-197-17	13
KCP4-BK03-C-100728	07-197-18	13
KCP4-BK03-D-100728	07-197-19	22
KCP4-BK03-E-100728	07-197-20	24
KCP4-BK04-A-100728	07-197-21	18
KCP4-BK04-B-100728	07-197-22	13
KCP4-BK04-C-100728	07-197-23	8
KCP4-BK04-D-100728	07-197-24	15
KCP4-BK04-E-100728	07-197-25	18
KCP4-SO164-B-100728	07-197-26	15
KCP4-SO165-S1-100728	07-197-27	6

Date of Report: August 3, 2010
Samples Submitted: July 28, 2010
Laboratory Reference: 1007-197
Project: 000105-01

% MOISTURE
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Date Analyzed: 7-29-10

Client ID	Lab ID	% Moisture
KCP4-SO165B-S1-100728	07-197-28	6
KCP4-SO165-S2-100728	07-197-29	13
KCP4-SO166-S2-100728	07-197-30	18
KCP4-SO167-S2-100728	07-197-31	8
KCP4-BK06-A-100728	07-197-32	6
KCP4-BK06B-A-100728	07-197-33	6
KCP4-BK06-B-100728	07-197-34	19
KCP4-BK06-C-100728	07-197-35	34
KCP4-BK06-D-100728	07-197-36	18
KCP4-BK06-E-100728	07-197-37	22

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 4

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01
Project Name: Kim Clark CM Phase 4
Project Manager: Rebecca Desrosiers
Sampled by: DP/DG

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☑ 2 Day
- ☑ 3 Day ⊗
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 07-197

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total ~~HCHA~~ Metals (⊗)	TCLP Metals	HEM by 1664	% Moisture
1	KCP4-BK01-A-100728	7/28/10	0830	SO	1	⊗										X			X
2	-B-		0835													X			X
3	-C-		0840													X			X
4	-D-		0845													X			X
5	-E-		0850													X			X
6	-BK01B-E-		0855													X			X
7	-S0156-B-		0930													X			X
8	-S0157-S1-		0935													X			X
9	-S0158-S1-		0940													X			X
10	-S0159-B-		1000													X			X

	Signature	Company	Date	Time
Relinquished by		AQ	7/28/10	1605
Received by		OnSite Env	7/28/10	1605
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
48hr TAT on "SO" samples
3-4 day TAT on "BK" samples
⊗ Added 7/29/10. DB 3 day TAT

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: AQ
Project Number: 000105-01
Project Name: KC Phase 4
Project Manager: Desrosiers
Sampled by: DG/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☑ 2 Day
- ☑ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 07-197

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture
11	KCP4-S0159B-B-100728	7/28/10	1003	SO	1											X			X
12	S0160-S1		1005													X			X
13	S0161-S1		1010													X			X
14	S0162-S1		1015													X			X
15	S0163-B		1100													X			X
16	BK03-A		1130													X			X
17	-B		1135													X			X
18	-C		1140													X			X
19	-D		1145													X			X
20	-E		1150			⊗										X			X

	Signature	Company	Date	Time
Relinquished by		AQ	7/28/10	1605
Received by		OnSite Env.	7/28/10	1605
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:

⊗ Added 7/29/10. DB (3 day TAT)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: AQ
Project Number: 060105-01
Project Name: KC Phase 4
Project Manager: Desrosiers
Sampled by: DA/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☑ 2 Day
- ☑ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 07-197

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664							% Moisture
21	KCP4-BK04-A-100728	7/28/10	1230	SO	1											X									X
22	B		1235													X									X
23	C		1240													X									X
24	D		1245													X									X
25	E		1250													X									X
26	SO164-B-100728		1253													X									X
27	SO165-S1		1255													X									X
28	SO165B-S1		~~1300~~ 1320													X									X
29	SO165-S2		1300													X									X
30	SO166-S2		1310													X									X

	Signature	Company	Date	Time
Relinquished by		AQ	7/28/10	1605
Received by		OnSite Env	7/28/10	1605
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: AQ
Project Number: KC Phase 4
Project Name: 000105-01
Project Manager: Desrosiers
Sampled by: DG/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☑ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 07-197

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total ~~RCRA~~ Metals ~~(8)~~	TCLP Metals	HEM by 1664	Hold						% Moisture
31	KCP4-S0167-S2-100728	7/28/10	1315	SO	1											X									X
32	KCP4-BK06-A-100728		1340													X									X
33	BK06B-A		1343													X									X
34	BK06-B		1345													X									X
35	C		1350													X									X
36	D		1355													X									X
37	E		1400													X									X
38	KCP4-EB-100728	7/28	1045	W	1														X						
							7/28/10 DP																		

	Signature	Company	Date	Time
Relinquished by		AQ	7/28/10	1605
Received by		OnSite EA	7/28/10	1605
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01

OnSite Project Number: 07-197

Initiated by: MBG

Date Initiated: 7/28 & 29/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 6°, 6° C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 18, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1008-103

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on August 16, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

Case Narrative

Samples were collected on August 16, 2010 and received by the laboratory on August 16, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-01					
Client ID:	**KCP4-BK168-100816**					
Antimony	**ND**	5.2	6010B	8-17-10	8-17-10	
Arsenic	**13**	10	6010B	8-17-10	8-17-10	
Chromium	**40**	0.52	6010B	8-17-10	8-17-10	
Copper	**75**	1.0	6010B	8-17-10	8-17-10	
Lead	**14**	5.2	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**50**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**180**	2.6	6010B	8-17-10	8-17-10	
Lab ID:	08-103-02					
Client ID:	**KCP4-BK169-100816**					
Antimony	**ND**	5.3	6010B	8-17-10	8-17-10	
Arsenic	**ND**	11	6010B	8-17-10	8-17-10	
Chromium	**34**	0.53	6010B	8-17-10	8-17-10	
Copper	**48**	1.1	6010B	8-17-10	8-17-10	
Lead	**14**	5.3	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**64**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**73**	2.6	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-03					
Client ID:	**KCP4-BK-169B-100816**					
Antimony	**ND**	5.3	6010B	8-17-10	8-17-10	
Arsenic	**ND**	11	6010B	8-17-10	8-17-10	
Chromium	**31**	0.53	6010B	8-17-10	8-17-10	
Copper	**51**	1.1	6010B	8-17-10	8-17-10	
Lead	**11**	5.3	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.27	7471A	8-17-10	8-17-10	
Nickel	**57**	2.7	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.7	6020	8-17-10	8-17-10	
Zinc	**79**	2.7	6010B	8-17-10	8-17-10	
Lab ID:	08-103-04					
Client ID:	**KCP4-BK170-100816**					
Antimony	**ND**	5.2	6010B	8-17-10	8-17-10	
Arsenic	**ND**	10	6010B	8-17-10	8-17-10	
Chromium	**29**	0.52	6010B	8-17-10	8-17-10	
Copper	**31**	1.0	6010B	8-17-10	8-17-10	
Lead	**6.7**	5.2	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**62**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**72**	2.6	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-05					
Client ID:	**KCP4-BK173-100816**					
Antimony	**ND**	5.6	6010B	8-17-10	8-17-10	
Arsenic	**ND**	11	6010B	8-17-10	8-17-10	
Chromium	**32**	0.56	6010B	8-17-10	8-17-10	
Copper	**84**	1.1	6010B	8-17-10	8-17-10	
Lead	**320**	5.6	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.28	7471A	8-17-10	8-17-10	
Nickel	**33**	2.8	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.8	6020	8-17-10	8-17-10	
Zinc	**95**	2.8	6010B	8-17-10	8-17-10	
Lab ID:	08-103-06					
Client ID:	**KCP4-BK174-100816**					
Antimony	**6.0**	5.3	6010B	8-17-10	8-17-10	
Arsenic	**28**	11	6010B	8-17-10	8-17-10	
Chromium	**36**	0.53	6010B	8-17-10	8-17-10	
Copper	**99**	1.1	6010B	8-17-10	8-17-10	
Lead	**190**	5.3	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.27	7471A	8-17-10	8-17-10	
Nickel	**50**	2.7	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.7	6020	8-17-10	8-17-10	
Zinc	**290**	2.7	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-07					
Client ID:	**KCP4-SO171-S1-100816**					
Antimony	**ND**	5.2	6010B	8-17-10	8-17-10	
Arsenic	**17**	10	6010B	8-17-10	8-17-10	
Chromium	**42**	0.52	6010B	8-17-10	8-17-10	
Copper	**98**	1.0	6010B	8-17-10	8-17-10	
Lead	**15**	5.2	6010B	8-17-10	8-17-10	
Mercury	**0.26**	0.26	7471A	8-17-10	8-17-10	
Nickel	**43**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**190**	2.6	6010B	8-17-10	8-17-10	
Lab ID:	08-103-08					
Client ID:	**KCP4-SO172-S1-100816**					
Antimony	**ND**	5.2	6010B	8-17-10	8-17-10	
Arsenic	**13**	10	6010B	8-17-10	8-17-10	
Chromium	**41**	0.52	6010B	8-17-10	8-17-10	
Copper	**83**	1.0	6010B	8-17-10	8-17-10	
Lead	**15**	5.2	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**53**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**160**	2.6	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-09					
Client ID:	**KCP4-SO175-B-100816**					
Antimony	**ND**	5.3	6010B	8-17-10	8-17-10	
Arsenic	**ND**	11	6010B	8-17-10	8-17-10	
Chromium	**24**	0.53	6010B	8-17-10	8-17-10	
Copper	**21**	1.1	6010B	8-17-10	8-17-10	
Lead	**ND**	5.3	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**41**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**32**	2.6	6010B	8-17-10	8-17-10	
Lab ID:	08-103-10					
Client ID:	**KCP4-SO176-B-100816**					
Antimony	**ND**	5.3	6010B	8-17-10	8-17-10	
Arsenic	**ND**	11	6010B	8-17-10	8-17-10	
Chromium	**32**	0.53	6010B	8-17-10	8-17-10	
Copper	**16**	1.1	6010B	8-17-10	8-17-10	
Lead	**ND**	5.3	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**59**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**26**	2.6	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-11					
Client ID:	**KCP4-SO176B-B-100816**					
Antimony	**ND**	5.3	6010B	8-17-10	8-17-10	
Arsenic	**ND**	11	6010B	8-17-10	8-17-10	
Chromium	**27**	0.53	6010B	8-17-10	8-17-10	
Copper	**17**	1.1	6010B	8-17-10	8-17-10	
Lead	**ND**	5.3	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.27	7471A	8-17-10	8-17-10	
Nickel	**59**	2.7	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.7	6020	8-17-10	8-17-10	
Zinc	**26**	2.7	6010B	8-17-10	8-17-10	
Lab ID:	08-103-12					
Client ID:	**KCP4-SO177-S1-100816**					
Antimony	**8.6**	5.2	6010B	8-17-10	8-17-10	
Arsenic	**49**	10	6010B	8-17-10	8-17-10	
Chromium	**51**	0.52	6010B	8-17-10	8-17-10	
Copper	**160**	1.0	6010B	8-17-10	8-17-10	
Lead	**48**	5.2	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**56**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**610**	2.6	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-13					
Client ID:	**KCP4-SO178-B-100816**					
Antimony	**ND**	5.2	6010B	8-17-10	8-17-10	
Arsenic	**ND**	10	6010B	8-17-10	8-17-10	
Chromium	**27**	0.52	6010B	8-17-10	8-17-10	
Copper	**9.3**	1.0	6010B	8-17-10	8-17-10	
Lead	**ND**	5.2	6010B	8-17-10	8-17-10	
Mercury	**ND**	0.26	7471A	8-17-10	8-17-10	
Nickel	**19**	2.6	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.6	6020	8-17-10	8-17-10	
Zinc	**39**	2.6	6010B	8-17-10	8-17-10	
Lab ID:	08-103-14					
Client ID:	**KCP4-SO179-S1-100816**					
Antimony	**8.8**	5.9	6010B	8-17-10	8-17-10	
Arsenic	**17**	12	6010B	8-17-10	8-17-10	
Chromium	**59**	0.59	6010B	8-17-10	8-17-10	
Copper	**75**	1.2	6010B	8-17-10	8-17-10	
Lead	**140**	5.9	6010B	8-17-10	8-17-10	
Mercury	**0.39**	0.29	7471A	8-17-10	8-17-10	
Nickel	**36**	2.9	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.9	6020	8-17-10	8-17-10	
Zinc	**120**	2.9	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-103-15					
Client ID:	**KCP4-SO180-S1-100816**					
Antimony	**7.9**	5.3	6010B	8-17-10	8-17-10	
Arsenic	**14**	11	6010B	8-17-10	8-17-10	
Chromium	**61**	0.53	6010B	8-17-10	8-17-10	
Copper	**110**	1.1	6010B	8-17-10	8-17-10	
Lead	**370**	5.3	6010B	8-17-10	8-17-10	
Mercury	**0.53**	0.27	7471A	8-17-10	8-17-10	
Nickel	**48**	2.7	6010B	8-17-10	8-17-10	
Thallium	**ND**	2.7	6020	8-17-10	8-17-10	
Zinc	**180**	2.7	6010B	8-17-10	8-17-10	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-17-10
Date Analyzed:	8-17-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0817S2&MB0817S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 8-17-10
Date Analyzed: 8-17-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-103-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**30.6**	**35.8**	16	0.50	
Copper	**14.7**	**16.8**	13	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**56.3**	**65.3**	15	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**24.5**	**24.4**	0	2.5	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 8-17-10
Date Analyzed: 8-17-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-103-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.9**	92	**94.4**	94	3	
Arsenic	100	**101**	101	**106**	106	4	
Chromium	100	**128**	97	**121**	90	5	
Copper	50	**66.6**	104	**68.8**	108	3	
Lead	250	**229**	92	**231**	92	1	
Mercury	0.50	**0.495**	99	**0.483**	97	3	
Nickel	100	**160**	104	**153**	97	4	
Thallium	50	**51.7**	103	**53.8**	108	4	
Zinc	100	**124**	99	**125**	101	1	

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 8-17-10
Date Analyzed: 8-17-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0817S2&SB0817S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**95.6**	96
Arsenic	6010B	100	**102**	102
Chromium	6010B	100	**103**	103
Copper	6010B	50	**57.2**	114
Lead	6010B	250	**240**	96
Mercury	7471A	0.50	**0.480**	96
Nickel	6010B	100	**103**	103
Thallium	6020	50	**52.2**	104
Zinc	6010B	100	**104**	104

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV081710P	1.00	1.03	-2.5	+/- 10%
Arsenic	ICV081710P	1.00	1.03	-2.6	+/- 10%
Chromium	ICV081710P	1.00	1.05	-5.3	+/- 10%
Copper	ICV081710P	1.00	1.06	-6.3	+/- 10%
Lead	ICV081710P	1.00	1.04	-4.1	+/- 10%
Mercury	ICV081710Y	0.00500	0.00537	-7.3	+/- 10%
Nickel	ICV081710P	1.00	1.05	-5.2	+/- 10%
Thallium	ICV081710E	0.0500	0.0506	-1.2	+/- 10%
Zinc	ICV081710P	1.00	1.03	-3.0	+/- 10%
Antimony	CCV1081710P	1.00	0.998	0.19	+/- 10%
Arsenic	CCV1081710P	1.00	1.00	0	+/- 10%
Chromium	CCV1081710P	1.00	1.03	-2.8	+/- 10%
Copper	CCV1081710P	1.00	1.03	-3.1	+/- 10%
Lead	CCV1081710P	10.0	10.1	-0.53	+/- 10%
Mercury	CCV1081710Y	0.00500	0.00505	-0.90	+/- 20%
Nickel	CCV1081710P	1.00	1.02	-2.4	+/- 10%
Thallium	CCV1081710E	0.0400	0.0401	-0.32	+/- 10%
Zinc	CCV1081710P	1.00	1.01	-1.2	+/- 10%
Antimony	CCV2081710P	1.00	0.977	2.3	+/- 10%
Arsenic	CCV2081710P	1.00	0.977	2.3	+/- 10%
Chromium	CCV2081710P	1.00	1.03	-2.7	+/- 10%
Copper	CCV2081710P	1.00	1.03	-3.2	+/- 10%
Lead	CCV2081710P	10.0	10.0	0	+/- 10%
Mercury	CCV2081710Y	0.00500	0.00500	0	+/- 20%
Nickel	CCV2081710P	1.00	1.02	-2.4	+/- 10%
Thallium	CCV2081710E	0.0400	0.0409	-2.3	+/- 10%
Zinc	CCV2081710P	1.00	1.01	-0.80	+/- 10%

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3081710P	1.00	0.996	0.38	+/- 10%
Arsenic	CCV3081710P	1.00	0.991	0.93	+/- 10%
Chromium	CCV3081710P	1.00	1.01	-1.5	+/- 10%
Copper	CCV3081710P	1.00	1.03	-2.7	+/- 10%
Lead	CCV3081710P	10.0	9.87	1.3	+/- 10%
Mercury	CCV3081710Y	0.00500	0.00499	0.12	+/- 20%
Nickel	CCV3081710P	1.00	1.01	-0.53	+/- 10%
Thallium	CCV3081710E	0.0400	0.0414	-3.5	+/- 10%
Zinc	CCV3081710P	1.00	1.00	0	+/- 10%
Antimony	CCV4081710P	1.00	0.991	0.90	+/- 10%
Arsenic	CCV4081710P	1.00	0.999	0.13	+/- 10%
Chromium	CCV4081710P	1.00	1.01	-0.71	+/- 10%
Copper	CCV4081710P	1.00	1.03	-2.7	+/- 10%
Lead	CCV4081710P	10.0	9.81	1.9	+/- 10%
Mercury	CCV4081710Y	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV4081710P	1.00	1.00	0	+/- 10%
Thallium	CCV4081710E	0.0400	0.0418	-4.6	+/- 10%
Zinc	CCV4081710P	1.00	0.999	0.062	+/- 10%
Mercury	CCV5081710Y	0.00500	0.00508	-1.7	+/- 20%
Mercury	CCV6081710Y	0.00500	0.00507	-1.3	+/- 20%

Date of Report: August 18, 2010
Samples Submitted: August 16, 2010
Laboratory Reference: 1008-103
Project: 000105-01

% MOISTURE

Date Analyzed: 8-17-10

Client ID	Lab ID	% Moisture
KCP4-BK168-100816	08-103-01	5
KCP4-BK169-100816	08-103-02	5
KCP4-BK169B-100816	08-103-03	6
KCP4-BK170-100816	08-103-04	4
KCP4-BK173-100816	08-103-05	11
KCP4-BK174-100816	08-103-06	6
KCP4-SO171-S1-100816	08-103-07	3
KCP4-SO172-S1-100816	08-103-08	4
KCP4-SO175-B-100816	08-103-09	5
KCP4-SO176-B-100816	08-103-10	5
KCP4-SO176B-B-100816	08-103-11	6
KCP4-SO177-S1-100816	08-103-12	3
KCP4-SO178-B-100816	08-103-13	3
KCP4-SO179-S1-100816	08-103-14	15
KCP4-SO180-S1-100816	08-103-15	6

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01
Project Name: Kim Clark CM Phase 4
Project Manager: Desrosiers
Sampled by: DH/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☒ 2 Day ☐ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 08-103 19

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total ~~RCRA~~ Metals (8)	TCLP Metals	HEM by 1664						% Moisture
1	KCP4-BK168-100816	8/16/10	0915	SO	1											X								X
2	169		~~0920~~ 0910													X								X
3	169B		0913 ~~0933~~													X								X
4	170		0930													X								X
5	173		1001													X								X
6	174		1016													X								X
7	-SO171-SI-100816		0945													X								X
8	-SO172-SI-		0950													X								X
9	-SO ~~176-B~~ 175-B-		1000													X								X
10	-SO176-B-		1010													X								X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by		AQ	8/16/10	1345	
Received by			8/16/10	1345	
Relinquished by					
Received by					
Relinquished by					
Received by					
Reviewed by/Date		Reviewed by/Date			Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: AQ
Project Number: 000105-01
Project Name: KC CMPh.4
Project Manager: Desrosiers
Sampled by: BH/DP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ ~~X~~ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 08-103 20

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	~~Total~~ RCRA Metals (8)	TCLP Metals	HEM by 1664	Hold						% Moisture
11	KCP4-S0176B-B-100816	8/16/10	1013	SO	1											X									X
12	S0177-S1		1045													X									X
13	S0178-B		1050													X									X
14	S0179-S1		1055													X									X
15	S0180-S1		1100													X									X
16	KCP4-EB1-100816	8/16/10	1120	W	W													~~X~~	X						
																Cancel ~~TCLP~~									
							8/16/10 DP																		

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by		AQ	8/16/10	1345	
Received by			8/16/10	1345	
Relinquished by					
Received by					
Relinquished by					
Received by					

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 500105-01

OnSite Project Number: 08-103

Initiated by: MV

Date Initiated: 8/16/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 6	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 9, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1008-176

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on August 24, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

Case Narrative

Samples were collected on August 23, 2010 and received by the laboratory on August 24, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The duplicate RPD for lead is outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-176-01					
Client ID:	**KCP4-SO181-S-100823**					
Antimony	**ND**	5.3	6010B	8-26-10	8-26-10	
Arsenic	**ND**	11	6010B	8-26-10	8-26-10	
Chromium	**31**	0.53	6010B	8-26-10	8-26-10	
Copper	**27**	1.1	6010B	8-26-10	8-26-10	
Lead	**81**	5.3	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.26	7471A	8-26-10	8-26-10	
Nickel	**55**	2.6	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.6	6020	8-26-10	8-27-10	
Zinc	**55**	2.6	6010B	8-26-10	8-26-10	
Lab ID:	08-176-02					
Client ID:	**KCP4-SO182-B-100823**					
Antimony	**ND**	5.6	6010B	8-26-10	8-26-10	
Arsenic	**ND**	11	6010B	8-26-10	8-26-10	
Chromium	**20**	0.56	6010B	8-26-10	8-26-10	
Copper	**48**	1.1	6010B	8-26-10	8-26-10	
Lead	**78**	5.6	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.28	7471A	8-26-10	8-26-10	
Nickel	**18**	2.8	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.8	6020	8-26-10	8-27-10	
Zinc	**94**	2.8	6010B	8-26-10	8-26-10	

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-176-03					
Client ID:	**KCP4-SO183-S-100823**					
Antimony	**11**	5.1	6010B	8-26-10	8-26-10	
Arsenic	**49**	10	6010B	8-26-10	8-26-10	
Chromium	**46**	0.51	6010B	8-26-10	8-26-10	
Copper	**200**	1.0	6010B	8-26-10	8-26-10	
Lead	**35**	5.1	6010B	8-26-10	8-26-10	
Mercury	**0.27**	0.26	7471A	8-26-10	8-26-10	
Nickel	**46**	2.6	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.6	6020	8-26-10	8-27-10	
Zinc	**390**	2.6	6010B	8-26-10	8-26-10	
Lab ID:	08-176-04					
Client ID:	**KCP4-SO184-B-100823**					
Antimony	**ND**	5.3	6010B	8-26-10	8-26-10	
Arsenic	**ND**	11	6010B	8-26-10	8-26-10	
Chromium	**19**	0.53	6010B	8-26-10	8-26-10	
Copper	**22**	1.1	6010B	8-26-10	8-26-10	
Lead	**ND**	5.3	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.26	7471A	8-26-10	8-26-10	
Nickel	**38**	2.6	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.6	6020	8-26-10	8-27-10	
Zinc	**26**	2.6	6010B	8-26-10	8-26-10	

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-176-05					
Client ID:	**KCP4-SO185-B-100823**					
Antimony	**10**	5.3	6010B	8-26-10	8-26-10	
Arsenic	**66**	11	6010B	8-26-10	8-26-10	
Chromium	**48**	0.53	6010B	8-26-10	8-26-10	
Copper	**160**	1.1	6010B	8-26-10	8-26-10	
Lead	**14**	5.3	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.26	7471A	8-26-10	8-26-10	
Nickel	**57**	2.6	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.6	6020	8-26-10	8-27-10	
Zinc	**180**	2.6	6010B	8-26-10	8-26-10	
Lab ID:	08-176-06					
Client ID:	**KCP4-BK186-100823**					
Antimony	**38**	6.3	6010B	8-26-10	8-26-10	
Arsenic	**ND**	13	6010B	8-26-10	8-26-10	
Chromium	**20**	0.63	6010B	8-26-10	8-26-10	
Copper	**580**	1.3	6010B	8-26-10	8-26-10	
Lead	**2400**	6.3	6010B	8-26-10	8-26-10	
Mercury	**0.69**	0.32	7471A	8-26-10	8-26-10	
Nickel	**30**	3.2	6010B	8-26-10	8-26-10	
Thallium	**ND**	3.2	6020	8-26-10	8-27-10	
Zinc	**210**	3.2	6010B	8-26-10	8-26-10	

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Samples Submitted: August 24, 2010
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-176-07					
Client ID:	**KCP4-BK187-100823**					
Antimony	**ND**	5.2	6010B	8-26-10	8-26-10	
Arsenic	**ND**	10	6010B	8-26-10	8-26-10	
Chromium	**23**	0.52	6010B	8-26-10	8-26-10	
Copper	**40**	1.0	6010B	8-26-10	8-26-10	
Lead	**6.0**	5.2	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.26	7471A	8-26-10	8-26-10	
Nickel	**44**	2.6	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.6	6020	8-26-10	8-27-10	
Zinc	**49**	2.6	6010B	8-26-10	8-26-10	
Lab ID:	08-176-08					
Client ID:	**KCP4-BK188-100823**					
Antimony	**13**	5.2	6010B	8-26-10	8-26-10	
Arsenic	**66**	10	6010B	8-26-10	8-26-10	
Chromium	**43**	0.52	6010B	8-26-10	8-26-10	
Copper	**3500**	10	6010B	8-26-10	8-26-10	
Lead	**30**	5.2	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.26	7471A	8-26-10	8-26-10	
Nickel	**61**	2.6	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.6	6020	8-26-10	8-27-10	
Zinc	**310**	2.6	6010B	8-26-10	8-26-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-176-09					
Client ID:	**KCP4-CO189-100823**					
Antimony	**5.4**	5.0	6010B	8-26-10	8-26-10	
Arsenic	**10**	10	6010B	8-26-10	8-26-10	
Chromium	**16**	0.50	6010B	8-26-10	8-26-10	
Copper	**45**	1.0	6010B	8-26-10	8-26-10	
Lead	**15**	5.0	6010B	8-26-10	8-26-10	
Mercury	**0.33**	0.25	7471A	8-26-10	8-26-10	
Nickel	**25**	2.5	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.5	6020	8-26-10	8-27-10	
Zinc	**52**	2.5	6010B	8-26-10	8-26-10	
Lab ID:	08-176-10					
Client ID:	**KCP4-CO190-100823**					
Antimony	**ND**	5.0	6010B	8-26-10	8-26-10	
Arsenic	**ND**	10	6010B	8-26-10	8-26-10	
Chromium	**15**	0.50	6010B	8-26-10	8-26-10	
Copper	**36**	1.0	6010B	8-26-10	8-26-10	
Lead	**17**	5.0	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.25	7471A	8-26-10	8-26-10	
Nickel	**17**	2.5	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.5	6020	8-26-10	8-27-10	
Zinc	**41**	2.5	6010B	8-26-10	8-26-10	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-176-11					
Client ID:	**KCP4-CO191-100823**					
Antimony	**9.0**	5.0	6010B	8-26-10	8-26-10	
Arsenic	**ND**	10	6010B	8-26-10	8-26-10	
Chromium	**14**	0.50	6010B	8-26-10	8-26-10	
Copper	**41**	1.0	6010B	8-26-10	8-26-10	
Lead	**260**	5.0	6010B	8-26-10	8-26-10	
Mercury	**2.7**	2.5	7471A	8-26-10	8-26-10	
Nickel	**16**	2.5	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.5	6020	8-26-10	8-27-10	
Zinc	**40**	2.5	6010B	8-26-10	8-26-10	
Lab ID:	08-176-12					
Client ID:	**KCP4-CO192-100823**					
Antimony	**39**	5.0	6010B	8-26-10	8-26-10	
Arsenic	**93**	10	6010B	8-26-10	8-26-10	
Chromium	**31**	0.50	6010B	8-26-10	8-26-10	
Copper	**100**	1.0	6010B	8-26-10	8-26-10	
Lead	**18**	5.0	6010B	8-26-10	8-26-10	
Mercury	**ND**	0.25	7471A	8-26-10	8-26-10	
Nickel	**46**	2.5	6010B	8-26-10	8-26-10	
Thallium	**ND**	2.5	6020	8-26-10	8-27-10	
Zinc	**90**	2.5	6010B	8-26-10	8-26-10	

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-26-10
Date Analyzed:	8-26&27-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0826S1,MB0826S2&MB0826S4

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 8-26-10
Date Analyzed: 8-26&27-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-176-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**29.1**	**31.9**	9	0.50	
Copper	**25.7**	**22.3**	14	1.0	
Lead	**76.1**	**46.3**	49	5.0	K
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**52.3**	**53.0**	1	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**52.1**	**51.2**	2	2.5	

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Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 8-26-10
Date Analyzed: 8-26&27-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-176-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**95.0**	95	**95.1**	95	0	
Arsenic	100	**102**	102	**104**	104	2	
Chromium	100	**123**	94	**126**	97	2	
Copper	50	**72.2**	93	**71.6**	92	1	
Lead	250	**279**	81	**273**	79	2	
Mercury	0.50	**0.493**	99	**0.488**	98	1	
Nickel	100	**148**	96	**152**	100	3	
Thallium	50	**50.8**	102	**49.4**	99	3	
Zinc	100	**157**	105	**152**	100	3	

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Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 8-26-10
Date Analyzed: 8-26&27-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0826S1,SB0826S2&SB0826S4

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**98.0**	98
Arsenic	6010B	100	**100**	100
Chromium	6010B	100	**103**	103
Copper	6010B	50	**54.5**	109
Lead	6010B	250	**228**	91
Mercury	7471A	0.50	**0.486**	97
Nickel	6010B	100	**105**	105
Thallium	6020	50	**49.9**	100
Zinc	6010B	100	**96.8**	97

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Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV082610P	1.00	0.988	1.2	+/- 10%
Arsenic	ICV082610P	1.00	0.971	2.9	+/- 10%
Chromium	ICV082610P	1.00	1.03	-3.0	+/- 10%
Copper	ICV082610P	1.00	1.05	-5.0	+/- 10%
Lead	ICV082610P	1.00	1.01	-1.0	+/- 10%
Mercury	ICV082610Y	0.00500	0.00514	-2.8	+/- 10%
Nickel	ICV082610P	1.00	1.01	-1.0	+/- 10%
Thallium	ICV082710E	0.0500	0.0513	-2.6	+/- 10%
Zinc	ICV082610P	1.00	0.993	0.70	+/- 10%
Antimony	CCV1082610P	1.00	0.969	3.1	+/- 10%
Arsenic	CCV1082610P	1.00	0.976	2.4	+/- 10%
Chromium	CCV1082610P	1.00	1.04	-4.0	+/- 10%
Copper	CCV1082610P	1.00	1.02	-2.0	+/- 10%
Lead	CCV1082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV1082610Y	0.00500	0.00505	-1.0	+/- 20%
Nickel	CCV1082610P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV1082610E	0.0400	0.0403	-0.75	+/- 10%
Zinc	CCV1082610P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV2082610P	1.00	0.997	0.30	+/- 10%
Arsenic	CCV2082610P	1.00	1.00	0	+/- 10%
Chromium	CCV2082610P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV2082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV2082610Y	0.00500	0.00506	-1.2	+/- 20%
Nickel	CCV2082610P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV2082710E	0.0400	0.0408	-2.0	+/- 10%
Zinc	CCV2082610P	1.00	1.02	-2.0	+/- 10%

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3082610P	1.00	0.985	1.5	+/- 10%
Arsenic	CCV3082610P	1.00	0.994	0.60	+/- 10%
Chromium	CCV3082610P	1.00	1.04	-4.0	+/- 10%
Copper	CCV3082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV3082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV3082610Y	0.00500	0.00505	-1.0	+/- 20%
Nickel	CCV3082610P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV3082710E	0.0400	0.0408	-2.0	+/- 10%
Zinc	CCV3082610P	1.00	1.02	-2.0	+/- 10%
Antimony	CCV4082610P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV4082610P	1.00	0.983	1.7	+/- 10%
Chromium	CCV4082610P	1.00	1.02	-2.0	+/- 10%
Copper	CCV4082610P	1.00	1.01	-1.0	+/- 10%
Lead	CCV4082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV4082610Y	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV4082610P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV4082710E	0.0400	0.0403	-0.75	+/- 10%
Zinc	CCV4082610P	1.00	1.02	-2.0	+/- 10%
Antimony	CCV5082610P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV5082610P	1.00	0.957	4.3	+/- 10%
Chromium	CCV5082610P	1.00	0.987	1.3	+/- 10%
Copper	CCV5082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV5082610P	10.0	9.94	0.60	+/- 10%
Nickel	CCV5082610P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV5082710E	0.0400	0.0404	-1.0	+/- 10%
Zinc	CCV5082610P	1.00	1.00	0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	CCV6082610P	10.0	10.1	-1.0	+/- 10%
Thallium	CCV6082710E	0.0400	0.0403	-0.75	+/- 10%
Zinc	CCV6082610P	1.00	1.01	-1.0	+/- 10%
Lead	CCV7082610P	10.0	10.1	-1.0	+/- 10%
Thallium	CCV7082710E	0.0400	0.0404	-1.0	+/- 10%
Zinc	CCV7082610P	1.00	1.01	-1.0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Asphalt
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-176-13					
Client ID:	**KCP4-AS193-100823**					
Antimony	**ND**	5.0	6010B	8-31-10	8-31-10	
Arsenic	**ND**	10	6010B	8-31-10	8-31-10	
Chromium	**19**	0.50	6010B	8-31-10	8-31-10	
Copper	**18**	2.0	6010B	8-31-10	8-31-10	
Lead	**ND**	5.0	6010B	8-31-10	8-31-10	
Mercury	**ND**	0.25	7471A	9-1-10	9-1-10	
Nickel	**38**	2.5	6010B	8-31-10	8-31-10	
Thallium	**ND**	2.5	6020	9-1-10	9-1-10	
Zinc	**24**	2.5	6010B	8-31-10	8-31-10	

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-31&9-1-10
Date Analyzed:	8-31&9-1-10
Matrix:	Asphalt
Units:	mg/kg (ppm)
Lab ID:	MB0831S4&MB0901S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	2.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 8-31&9-1-10
Date Analyzed: 8-31&9-1-10

Matrix: Asphalt
Units: mg/kg (ppm)

Lab ID: 08-176-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**19.4**	**18.7**	4	0.50	
Copper	**18.1**	**14.8**	20	2.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**37.6**	**31.7**	17	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**24.0**	**22.6**	6	2.5	

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TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 8-31&9-1-10
Date Analyzed: 8-31&9-1-10

Matrix: Asphalt
Units: mg/kg (ppm)

Lab ID: 08-176-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.4**	91	**90.9**	91	0	
Arsenic	100	**98.2**	98	**96.2**	96	2	
Chromium	100	**121**	101	**117**	97	4	
Copper	50	**67.1**	98	**64.7**	93	4	
Lead	250	**239**	96	**238**	95	0	
Mercury	0.50	**0.477**	95	**0.485**	97	2	
Nickel	100	**130**	93	**124**	87	5	
Thallium	50	**49.7**	99	**48.7**	97	2	
Zinc	100	**118**	94	**117**	93	1	

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 8-31&9-1-10
Date Analyzed: 8-31&9-1-10

Matrix: Asphalt
Units: mg/kg (ppm)

Lab ID: SB0831S4&SB0901S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**96.9**	97
Arsenic	6010B	100	**97.4**	97
Chromium	6010B	100	**102**	102
Copper	6010B	50	**55.6**	111
Lead	6010B	250	**251**	100
Mercury	7471A	0.50	**0.500**	100
Nickel	6010B	100	**103**	103
Thallium	6020	50	**50.9**	102
Zinc	6010B	100	**102**	102

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV082610P	1.00	0.988	1.2	+/- 10%
Arsenic	ICV082610P	1.00	0.971	2.9	+/- 10%
Chromium	ICV082610P	1.00	1.03	-3.0	+/- 10%
Copper	ICV082610P	1.00	1.05	-5.0	+/- 10%
Lead	ICV082610P	1.00	1.01	-1.0	+/- 10%
Mercury	ICV082610Y	0.00500	0.00514	-2.8	+/- 10%
Nickel	ICV082610P	1.00	1.01	-1.0	+/- 10%
Thallium	ICV082710E	0.0500	0.0513	-2.6	+/- 10%
Zinc	ICV082610P	1.00	0.993	0.70	+/- 10%
Antimony	CCV1082610P	1.00	0.969	3.1	+/- 10%
Arsenic	CCV1082610P	1.00	0.976	2.4	+/- 10%
Chromium	CCV1082610P	1.00	1.04	-4.0	+/- 10%
Copper	CCV1082610P	1.00	1.02	-2.0	+/- 10%
Lead	CCV1082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV1082610Y	0.00500	0.00505	-1.0	+/- 20%
Nickel	CCV1082610P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV1082610E	0.0400	0.0403	-0.75	+/- 10%
Zinc	CCV1082610P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV2082610P	1.00	0.997	0.30	+/- 10%
Arsenic	CCV2082610P	1.00	1.00	0	+/- 10%
Chromium	CCV2082610P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV2082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV2082610Y	0.00500	0.00506	-1.2	+/- 20%
Nickel	CCV2082610P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV2082710E	0.0400	0.0408	-2.0	+/- 10%
Zinc	CCV2082610P	1.00	1.02	-2.0	+/- 10%
Antimony	CCV3082610P	1.00	0.985	1.5	+/- 10%
Arsenic	CCV3082610P	1.00	0.994	0.60	+/- 10%
Chromium	CCV3082610P	1.00	1.04	-4.0	+/- 10%
Copper	CCV3082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV3082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV3082610Y	0.00500	0.00505	-1.0	+/- 20%
Nickel	CCV3082610P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV3082710E	0.0400	0.0408	-2.0	+/- 10%
Zinc	CCV3082610P	1.00	1.02	-2.0	+/- 10%

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV5082610P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV5082610P	1.00	0.957	4.3	+/- 10%
Chromium	CCV5082610P	1.00	0.987	1.3	+/- 10%
Copper	CCV5082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV5082610P	10.0	9.94	0.60	+/- 10%
Nickel	CCV5082610P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV5082710E	0.0400	0.0404	-1.0	+/- 10%
Zinc	CCV5082610P	1.00	1.00	0	+/- 10%
Lead	CCV6082610P	10.0	10.1	-1.0	+/- 10%
Thallium	CCV6082710E	0.0400	0.0403	-0.75	+/- 10%
Zinc	CCV6082610P	1.00	1.01	-1.0	+/- 10%
Lead	CCV7082610P	10.0	10.1	-1.0	+/- 10%
Thallium	CCV7082710E	0.0400	0.0404	-1.0	+/- 10%
Zinc	CCV7082610P	1.00	1.01	-1.0	+/- 10%

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3082610P	1.00	0.985	1.5	+/- 10%
Arsenic	CCV3082610P	1.00	0.994	0.60	+/- 10%
Chromium	CCV3082610P	1.00	1.04	-4.0	+/- 10%
Copper	CCV3082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV3082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV3082610Y	0.00500	0.00505	-1.0	+/- 20%
Nickel	CCV3082610P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV3082710E	0.100	0.102	-2.0	+/- 10%
Zinc	CCV3082610P	1.00	1.0	-2.0	+/- 10%
Thallium	CCV3082710E	0.0400	0.0408	-2.0	+/- 10%
Antimony	CCV4082610P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV4082610P	1.00	0.983	1.7	+/- 10%
Chromium	CCV4082610P	1.00	1.02	-2.0	+/- 10%
Copper	CCV4082610P	1.00	1.01	-1.0	+/- 10%
Lead	CCV4082610P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV4082610Y	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV4082610P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV4082710E	0.100	0.101	-1.0	+/- 10%
Zinc	CCV4082610P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV4082710E	0.0400	0.0403	-0.8	+/- 10%
Antimony	CCV5082610P	1.00	0.974	2.6	+/- 10%
Arsenic	CCV5082610P	1.00	0.957	4.3	+/- 10%
Chromium	CCV5082610P	1.00	0.987	1.3	+/- 10%
Copper	CCV5082610P	1.00	1.03	-3.0	+/- 10%
Lead	CCV5082610P	10.0	9.94	0.60	+/- 10%
Nickel	CCV5082610P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV5082710E	0.100	0.101	-1.0	+/- 10%
Zinc	CCV5082610P	1.00	1.00	0	+/- 10%
Thallium	CCV5082710E	0.0400	0.0404	-1.0	+/- 10%
Thallium	CCV6082710E	0.100	0.101	-1.0	+/- 10%
Zinc	CCV6082610P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV6082710E	0.0400	0.0403	-0.75	+/- 10%
Thallium	CCV7082710E	0.100	0.101	-1.0	+/- 10%
Zinc	CCV7082610P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV7082710E	0.0400	0.0404	-1.0	+/- 10%

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B

Date Prepared: 8-31-10
Date Extracted: 9-1-10
Date Analyzed: 9-1-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 08-176-06,08 Comp.
Client ID: **KCP4-BK186,188-100823 Comp.**

Analyte	Method	Result	PQL
Copper	6010B	**0.36**	0.020
Lead	6010B	**ND**	0.20

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	8-31-10
Date Extracted:	9-1-10
Date Analyzed:	9-1-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0901T1

Analyte	Method	Result	PQL
Copper	6010B	**ND**	0.020
Lead	6010B	**ND**	0.20

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 8-31-10
Date Extracted: 9-1-10
Date Analyzed: 9-1-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 08-223-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Copper	**ND**	**ND**	NA	0.020	
Lead	**ND**	**ND**	NA	0.20	

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared: 8-31-10
Date Extracted: 9-1-10
Date Analyzed: 9-1-10

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 08-223-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Copper	2.0	**2.19**	110	**2.09**	104	5	
Lead	10	**10.6**	106	**9.88**	99	7	

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B
SPIKE BLANK QUALITY CONTROL

Date Prepared:	8-31-10
Date Extracted:	9-1-10
Date Analyzed:	9-1-10
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	SB0901T1

Analyte	Method	Spike Level	SB	Percent Recovery
Copper	6010B	2.0	**2.19**	109
Lead	6010B	10	**10.8**	108

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

TCLP METALS
EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Copper	ICV090110P	1.00	1.06	-5.6	+/- 10%
Lead	ICV090110P	1.00	1.06	-5.9	+/- 10%
Copper	CCV1090110P	1.00	1.02	-2.1	+/- 10%
Lead	CCV1090110P	10.0	10.0	0	+/- 10%
Copper	CCV2090110P	1.00	1.03	-2.6	+/- 10%
Lead	CCV2090110P	10.0	9.74	2.6	+/- 10%
Copper	CCV3090110P	1.00	1.04	-3.6	+/- 10%
Lead	CCV3090110P	10.0	9.63	3.7	+/- 10%

Date of Report: September 9, 2010
Samples Submitted: August 24, 2010
Laboratory Reference: 1008-176
Project: 000105-01.09

% MOISTURE

Date Analyzed: 8-27-10

Client ID	Lab ID	% Moisture
KCP4-SO181-S-100823	08-176-01	6
KCP4-SO182-B-100823	08-176-02	10
KCP4-SO183-S-100823	08-176-03	2
KCP4-SO184-B-100823	08-176-04	5
KCP4-SO185-B-100823	08-176-05	5
KCP4-BK186-100823	08-176-06	21
KCP4-BK187-100823	08-176-07	5
KCP4-BK188-100823	08-176-08	4

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA, LLC
Project Number: 000105-01.09
Project Name: K-C Phase 4
Project Manager: Desrosiers
Sampled by: Desrosiers

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 08-176

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Project list metals		TCLP Cu, Pb				% Moisture
1	KCP4-S0181-S-100823	Aug23	13:25	Soil	1														X						X
2	KCP4-S0182-B-100823		13:26		1														X						
3	KCP4-S0183-S-100823		14:23		1														X						
4	KCP4-S0184-B-100823		14:22		1														X						
5	KCP4-S0185-B-100823		14:24		1														X						
6	KCP4-BK186-100823		14:10		1														X		⊗				
7	KCP4-BK187-100823		14:11		1														X						
8	KCP4-BK188-100823		14:35		1														X		⊗				
9	KCP4-CO189-100823		14:00	Concrete	1														X						
10	KCP4-CO190-100823		14:01	"	1														X						

Composite

	Signature	Company	Date	Time
Relinquished by	Rebecca Brown	AQ	Aug 24	10:00
Received by	Amy Jean Fuller	AQ	Aug 24/10	10:00
Relinquished by				
Received by	Michael Right	Speedy	8-24-10	1325
Relinquished by	Michael Right	Speedy	8-24-10	1635
Received by		OSE	8/24/10	1635
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions

⊗ - Composite 1008-176-06 & 1008-176-08

⊗ Added 8/30/10. DB (2 day TAT)

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA, LLC
Project Number: 000105-01.09
Project Name: K-C Phase 4
Project Manager: Desrosiers
Sampled by: Desrosiers

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days) (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 08-176

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Project list metals						% Moisture
11	KCP4-C0191-100823	Aug23	14:02	Concrete	1														X						
12	KCP4-C0192-100823	↓	~~14:05~~ 14:30 (PD)	"	1														X						
13	KCP4-AS193-100823	↓	~~14:07~~ 14:32 (FD)	Asphalt	1						HOLD								⊗						

	Signature	Company	Date	Time
Relinquished by		AQ	Aug24	10:00
Received by		AQ	Aug 24, 2010	10:00
Relinquished by				
Received by		Speedy	8-24-10	1325
Relinquished by		Speedy	8-24-10	1635
Received by		QEC	8/24/10	1635
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

⊗ Added 8/30/10 DB (2 day TAT)

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 08-176

Initiated by: JMV

Date Initiated: 8/24/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 6	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

24) Sample 1) KCP4-S0181-S-100823 Aug 23 13:25 on COC
KCP4-S0181-S- " " on label
Sample 2) KCP4-S0182-B-100823 Aug 23 13:26 on COC
KCP4-S0182-B " " on label

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 22, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project Kimberly Clark Phase 4
Laboratory Reference No. 1009-189

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on September 20, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

Case Narrative

Samples were collected on September 20, 2010 and received by the laboratory on September 20, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	09-189-01					
Client ID:	**KCP4-SO194-B-100920**					
Antimony	**ND**	5.5	6010B	9-21-10	9-22-10	
Arsenic	**ND**	11	6010B	9-21-10	9-22-10	
Chromium	**23**	0.55	6010B	9-22-10	9-22-10	
Copper	**24**	1.1	6010B	9-22-10	9-22-10	
Lead	**6.9**	5.5	6010B	9-21-10	9-22-10	
Mercury	**ND**	0.28	7471A	9-21-10	9-21-10	
Nickel	**36**	2.8	6010B	9-21-10	9-22-10	
Thallium	**ND**	2.8	6020	9-22-10	9-22-10	
Zinc	**38**	2.8	6010B	9-21-10	9-22-10	
Lab ID:	09-189-02					
Client ID:	**KCP4-SO195-B-100920**					
Antimony	**ND**	5.5	6010B	9-21-10	9-22-10	
Arsenic	**ND**	11	6010B	9-21-10	9-22-10	
Chromium	**21**	0.55	6010B	9-22-10	9-22-10	
Copper	**20**	1.1	6010B	9-22-10	9-22-10	
Lead	**ND**	5.5	6010B	9-21-10	9-22-10	
Mercury	**ND**	0.27	7471A	9-21-10	9-21-10	
Nickel	**40**	2.7	6010B	9-21-10	9-22-10	
Thallium	**ND**	2.7	6020	9-22-10	9-22-10	
Zinc	**160**	2.7	6010B	9-21-10	9-22-10	

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	09-189-03					
Client ID:	**KCP4-SO196-S-100920**					
Antimony	**ND**	5.4	6010B	9-21-10	9-22-10	
Arsenic	**30**	11	6010B	9-21-10	9-22-10	
Chromium	**38**	0.54	6010B	9-22-10	9-22-10	
Copper	**110**	1.1	6010B	9-22-10	9-22-10	
Lead	**35**	5.4	6010B	9-21-10	9-22-10	
Mercury	**ND**	0.27	7471A	9-21-10	9-21-10	
Nickel	**40**	2.7	6010B	9-21-10	9-22-10	
Thallium	**ND**	2.7	6020	9-22-10	9-22-10	
Zinc	**360**	2.7	6010B	9-21-10	9-22-10	
Lab ID:	09-189-04					
Client ID:	**KCP4-SO197-S-100920**					
Antimony	**ND**	5.4	6010B	9-21-10	9-22-10	
Arsenic	**12**	11	6010B	9-21-10	9-22-10	
Chromium	**35**	0.54	6010B	9-22-10	9-22-10	
Copper	**60**	1.1	6010B	9-22-10	9-22-10	
Lead	**12**	5.4	6010B	9-21-10	9-22-10	
Mercury	**ND**	0.27	7471A	9-21-10	9-21-10	
Nickel	**31**	2.7	6010B	9-21-10	9-22-10	
Thallium	**ND**	2.7	6020	9-22-10	9-22-10	
Zinc	**130**	2.7	6010B	9-21-10	9-22-10	

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	09-189-05					
Client ID:	**KCP4-SO198-D-100920**					
Antimony	**ND**	5.5	6010B	9-21-10	9-22-10	
Arsenic	**ND**	11	6010B	9-21-10	9-22-10	
Chromium	**20**	0.55	6010B	9-22-10	9-22-10	
Copper	**21**	1.1	6010B	9-22-10	9-22-10	
Lead	**7.8**	5.5	6010B	9-21-10	9-22-10	
Mercury	**ND**	0.27	7471A	9-21-10	9-21-10	
Nickel	**34**	2.7	6010B	9-21-10	9-22-10	
Thallium	**ND**	2.7	6020	9-22-10	9-22-10	
Zinc	**110**	2.7	6010B	9-21-10	9-22-10	
Lab ID:	09-189-06					
Client ID:	**KCP4-SO199-B-100920**					
Antimony	**ND**	5.5	6010B	9-21-10	9-22-10	
Arsenic	**ND**	11	6010B	9-21-10	9-22-10	
Chromium	**16**	0.55	6010B	9-22-10	9-22-10	
Copper	**18**	1.1	6010B	9-22-10	9-22-10	
Lead	**ND**	5.5	6010B	9-21-10	9-22-10	
Mercury	**ND**	0.27	7471A	9-21-10	9-21-10	
Nickel	**31**	2.7	6010B	9-21-10	9-22-10	
Thallium	**ND**	2.7	6020	9-22-10	9-22-10	
Zinc	**28**	2.7	6010B	9-21-10	9-22-10	

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	9-21&22-10
Date Analyzed:	9-21&22-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0921S2,MB0921S5&MB0922S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 9-21&22-10
Date Analyzed: 9-21&22-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-189-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**15.1**	**14.5**	4	0.50	
Copper	**16.5**	**16.4**	1	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**28.9**	**32.0**	10	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**25.3**	**23.7**	7	2.5	

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 9-21&22-10
Date Analyzed: 9-21&22-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-189-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	500	**465**	93	**456**	91	2	
Arsenic	100	**100**	100	**97.7**	98	2	
Chromium	100	**106**	91	**111**	96	4	
Copper	50	**65.9**	99	**68.2**	103	3	
Lead	250	**236**	94	**232**	93	2	
Mercury	0.50	**0.488**	98	**0.508**	102	4	
Nickel	100	**128**	99	**124**	95	3	
Thallium	50	**48.5**	97	**49.5**	99	2	
Zinc	100	**124**	99	**122**	97	2	

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 9-21&22-10
Date Analyzed: 9-21&22-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0921S2,SB0921S5&SB0922S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	500	**487**	97
Arsenic	6010B	100	**100**	100
Chromium	6010B	100	**99.8**	100
Copper	6010B	50	**52.8**	106
Lead	6010B	250	**250**	100
Mercury	7471A	0.50	**0.493**	99
Nickel	6010B	100	**105**	105
Thallium	6020	50	**48.4**	97
Zinc	6010B	100	**103**	103

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV092210P	1.00	0.986	1.4	+/- 10%
Arsenic	ICV092210P	1.00	0.988	1.2	+/- 10%
Chromium	ICV092210P	1.00	1.04	-4.5	+/- 10%
Copper	ICV092210P	1.00	1.04	-4.3	+/- 10%
Lead	ICV092210P	1.00	1.03	-2.7	+/- 10%
Mercury	ICV092110Y	0.00500	0.00499	0.30	+/- 10%
Nickel	ICV092210P	1.00	1.04	-4.5	+/- 10%
Thallium	ICV092210E	0.0500	0.0528	-5.5	+/- 10%
Zinc	ICV092210P	1.00	1.01	-0.94	+/- 10%
Antimony	CCV1092210P	1.00	0.985	1.5	+/- 10%
Arsenic	CCV1092210P	1.00	0.967	3.3	+/- 10%
Chromium	CCV1092210P	1.00	1.02	-1.6	+/- 10%
Copper	CCV1092210P	1.00	1.01	-1.4	+/- 10%
Lead	CCV1092210P	10.0	9.99	0.14	+/- 10%
Mercury	CCV1092110Y	0.00500	0.00510	-2.1	+/- 20%
Nickel	CCV1092210P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV1092210E	0.0400	0.0414	-3.5	+/- 10%
Zinc	CCV1092210P	1.00	1.00	0	+/- 10%
Antimony	CCV2092210P	1.00	1.00	0	+/- 10%
Arsenic	CCV2092210P	1.00	0.979	2.1	+/- 10%
Chromium	CCV2092210P	1.00	1.02	-2.1	+/- 10%
Copper	CCV2092210P	1.00	1.03	-3.0	+/- 10%
Lead	CCV2092210P	10.0	10.0	0	+/- 10%
Mercury	CCV2092110Y	0.00500	0.00510	-1.9	+/- 20%
Nickel	CCV2092210P	1.00	1.02	-2.1	+/- 10%
Thallium	CCV2092210E	0.0400	0.0410	-2.4	+/- 10%
Zinc	CCV2092210P	1.00	1.01	-0.92	+/- 10%

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3092210P	1.00	0.998	0.22	+/- 10%
Arsenic	CCV3092210P	1.00	0.982	1.8	+/- 10%
Chromium	CCV3092210P	1.00	1.02	-1.7	+/- 10%
Copper	CCV3092210P	1.00	1.03	-3.0	+/- 10%
Lead	CCV3092210P	10.0	9.97	0.34	+/- 10%
Mercury	CCV3092110Y	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV3092210P	1.00	1.01	-0.57	+/- 10%
Thallium	CCV3092210E	0.0400	0.0409	-2.4	+/- 10%
Zinc	CCV3092210P	1.00	1.01	-0.78	+/- 10%
Chromium	CCV4092210P	1.00	1.02	-2.0	+/- 10%
Copper	CCV4092210P	1.00	1.04	-3.7	+/- 10%
Mercury	CCV4092110Y	0.00500	0.00507	-1.5	+/- 20%
Chromium	CCV5092210P	1.00	1.01	-1.3	+/- 10%
Copper	CCV5092210P	1.00	1.03	-3.4	+/- 10%
Mercury	CCV5092110Y	0.00500	0.00504	-0.86	+/- 20%

Date of Report: September 22, 2010
Samples Submitted: September 20, 2010
Laboratory Reference: 1009-189
Project: Kimberly Clark Phase 4

% MOISTURE

Date Analyzed: 9-21-10

Client ID	Lab ID	% Moisture
KCP4-SO194-B-100920	09-189-01	10
KCP4-SO195-B-100920	09-189-02	8
KCP4-SO196-S-100920	09-189-03	8
KCP4-SO197-S-100920	09-189-04	7
KCP4-SO198-D-100920	09-189-05	9
KCP4-SO199-B-100920	09-189-06	8

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

09-189

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: ONSITE ENVIRONMENTAL
Date: 9/20/10
Project Name: KIMBERLY CLARK PHASE 4
Project Number:
Project Manager: REBECCA DESROSIERS
Phone Number: 206 903 3300
Shipment Method: DELIVERED BY ACE (IWM)

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Atterberg Limits	Moisture Content (D2216)	Grainsize	Specific Gravity	Consolidation	CuTriax	Sediment Permeability	Dioxin/Furans	PCB Congeners	PCB Aroclors	SVOCs	Metals	TOC	Total Solids	Pesticides	VOCs	Archive	% moisture	Archive	Comments/Preservation
1	KCP4-SO194-B-100920	9/20/10 10:40	SOIL	1												X						X		Sb, As, Cr, Cu, Pb, Hg,
2	KCP4-SO195-B-100920	9/20/10 10:52	"	1												X								Ni, Tl, Zn
3	KCP4-SO196-S-100920	" 11:10	"	1												X								
4	KCP4-SO197-S-100920	" 11:20	"	1												X								
5	KCP4-SO198-D-100920	" 10:54	"	1												X								
6	KCP4-SO199-B-100920	" 11:00	"	1												X								
7																								
8																								
9																								
10																								
11			9/20/10																					
12		IWM																						
13																								
14																								
15																								

ANCHOR QEA

Notes: 48 hr. TAT

Relinquished By:	Company:	Received By:	Company:
Wesley MacDonald WES MACDONALD	Anchor QEA, LLC	M VOUN	OSE
Signature/Printed Name	9/20/10 14:30 Date/Time	Signature/Printed Name	9/20/10 1430 Date/Time
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: Kimberly Clark Phase 4

OnSite Project Number: 09-189

Initiated by: MM

Date Initiated: 9/20/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 6	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 28, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1009-248

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

Case Narrative

Samples were collected on September 23, 2010 and received by the laboratory on September 23, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	09-248-01					
Client ID:	**KCP4-SO200-B-100923**					
Antimony	**ND**	5.4	6010B	9-24-10	9-27-10	
Arsenic	**ND**	11	6010B	9-24-10	9-27-10	
Chromium	**22**	0.54	6010B	9-24-10	9-27-10	
Copper	**25**	1.9	6010B	9-24-10	9-27-10	
Lead	**8.0**	5.4	6010B	9-24-10	9-27-10	
Mercury	**ND**	0.27	7471A	9-24-10	9-24-10	
Nickel	**43**	2.7	6010B	9-24-10	9-27-10	
Thallium	**ND**	2.7	6020	9-24-10	9-27-10	
Zinc	**27**	2.7	6010B	9-27-10	9-27-10	
Lab ID:	09-248-02					
Client ID:	**KCP4-SO201-D-100923**					
Antimony	**ND**	5.4	6010B	9-24-10	9-27-10	
Arsenic	**ND**	11	6010B	9-24-10	9-27-10	
Chromium	**23**	0.54	6010B	9-24-10	9-27-10	
Copper	**23**	1.9	6010B	9-24-10	9-27-10	
Lead	**ND**	5.4	6010B	9-24-10	9-27-10	
Mercury	**ND**	0.27	7471A	9-24-10	9-24-10	
Nickel	**46**	2.7	6010B	9-24-10	9-27-10	
Thallium	**ND**	2.7	6020	9-24-10	9-27-10	
Zinc	**23**	2.7	6010B	9-27-10	9-27-10	

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	09-248-03					
Client ID:	**KCP4-SO202-S-100923**					
Antimony	**28**	5.2	6010B	9-24-10	9-27-10	
Arsenic	**100**	10	6010B	9-24-10	9-27-10	
Chromium	**49**	0.52	6010B	9-24-10	9-27-10	
Copper	**200**	1.8	6010B	9-24-10	9-27-10	
Lead	**71**	5.2	6010B	9-24-10	9-27-10	
Mercury	**ND**	0.26	7471A	9-24-10	9-24-10	
Nickel	**49**	2.6	6010B	9-24-10	9-27-10	
Thallium	**ND**	2.6	6020	9-24-10	9-27-10	
Zinc	**420**	2.6	6010B	9-27-10	9-27-10	
Lab ID:	09-248-04					
Client ID:	**KCP4-SO203-S-100923**					
Antimony	**ND**	5.4	6010B	9-24-10	9-27-10	
Arsenic	**ND**	11	6010B	9-24-10	9-27-10	
Chromium	**31**	0.54	6010B	9-24-10	9-27-10	
Copper	**66**	1.9	6010B	9-24-10	9-27-10	
Lead	**12**	5.4	6010B	9-24-10	9-27-10	
Mercury	**0.27**	0.27	7471A	9-24-10	9-24-10	
Nickel	**34**	2.7	6010B	9-24-10	9-27-10	
Thallium	**ND**	2.7	6020	9-24-10	9-27-10	
Zinc	**84**	2.7	6010B	9-27-10	9-27-10	

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	09-248-05					
Client ID:	**KCP4-CO204-A-100923**					
Antimony	**ND**	5.6	6010B	9-24-10	9-27-10	
Arsenic	**ND**	11	6010B	9-24-10	9-27-10	
Chromium	**24**	0.56	6010B	9-24-10	9-27-10	
Copper	**110**	2.0	6010B	9-24-10	9-27-10	
Lead	**58**	5.6	6010B	9-24-10	9-27-10	
Mercury	**ND**	0.28	7471A	9-24-10	9-24-10	
Nickel	**23**	2.8	6010B	9-24-10	9-27-10	
Thallium	**ND**	2.8	6020	9-24-10	9-27-10	
Zinc	**300**	2.8	6010B	9-27-10	9-27-10	
Lab ID:	09-248-06					
Client ID:	**KCP4-CO205-B-100923**					
Antimony	**ND**	5.8	6010B	9-24-10	9-27-10	
Arsenic	**ND**	12	6010B	9-24-10	9-27-10	
Chromium	**25**	0.58	6010B	9-24-10	9-27-10	
Copper	**150**	2.0	6010B	9-24-10	9-27-10	
Lead	**73**	5.8	6010B	9-24-10	9-27-10	
Mercury	**ND**	0.29	7471A	9-24-10	9-24-10	
Nickel	**23**	2.9	6010B	9-24-10	9-27-10	
Thallium	**ND**	2.9	6020	9-24-10	9-27-10	
Zinc	**130**	2.9	6010B	9-27-10	9-27-10	

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	9-24&27-10
Date Analyzed:	9-24&27-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0924S1,MB0924S2&MB0927S5

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.8
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 9-24&27-10
Date Analyzed: 9-24&27-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-248-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**20.3**	**16.6**	20	0.50	
Copper	**22.9**	**19.6**	16	1.8	
Lead	**7.45**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**40.2**	**35.6**	12	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**25.0**	**27.3**	9	2.5	

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 9-24&27-10
Date Analyzed: 9-24&27-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 09-248-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	500	**448**	90	**458**	92	2	
Arsenic	100	**96.7**	97	**98.8**	99	2	
Chromium	100	**110**	90	**113**	93	3	
Copper	50	**69.5**	93	**69.6**	94	0	
Lead	250	**224**	86	**229**	89	2	
Mercury	0.50	**0.463**	93	**0.459**	92	1	
Nickel	100	**131**	91	**132**	91	0	
Thallium	50	**48.5**	97	**48.5**	97	0	
Zinc	100	**116**	91	**118**	93	2	

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 9-24&27-10
Date Analyzed: 9-24&27-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0924S1,SB0924S2&SB0927S5

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	500	**469**	94
Arsenic	6010B	100	**96.7**	97
Chromium	6010B	100	**99.8**	100
Copper	6010B	50	**55.2**	110
Lead	6010B	250	**235**	94
Mercury	7471A	0.50	**0.497**	99
Nickel	6010B	100	**102**	102
Thallium	6020	50	**50.0**	100
Zinc	6010B	100	**92.1**	92

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV092710P	1.00	0.960	4.0	+/- 10%
Arsenic	ICV092710P	1.00	0.948	5.2	+/- 10%
Chromium	ICV092710P	1.00	1.02	-2.3	+/- 10%
Copper	ICV092710P	1.00	1.03	-2.6	+/- 10%
Lead	ICV092710P	1.00	1.01	-1.1	+/- 10%
Mercury	ICV092410Y	0.00500	0.00502	-0.38	+/- 10%
Nickel	ICV092710P	1.00	1.03	-3.3	+/- 10%
Thallium	ICV092710E	0.0500	0.0498	0.34	+/- 10%
Zinc	ICV092710P	1.00	0.993	0.65	+/- 10%
Antimony	CCV1092710P	1.00	0.935	6.5	+/- 10%
Arsenic	CCV1092710P	1.00	0.952	4.8	+/- 10%
Chromium	CCV1092710P	1.00	1.00	0	+/- 10%
Copper	CCV1092710P	1.00	1.00	0	+/- 10%
Lead	CCV1092710P	10.0	9.84	1.6	+/- 10%
Mercury	CCV1092410Y	0.00500	0.00514	-2.9	+/- 20%
Nickel	CCV1092710P	1.00	1.01	-0.87	+/- 10%
Thallium	CCV1092710E	0.0400	0.0396	0.89	+/- 10%
Zinc	CCV1092710P	1.00	0.989	1.1	+/- 10%
Antimony	CCV2092710P	1.00	0.945	5.5	+/- 10%
Arsenic	CCV2092710P	1.00	0.959	4.1	+/- 10%
Chromium	CCV2092710P	1.00	0.999	0.086	+/- 10%
Copper	CCV2092710P	1.00	1.00	0	+/- 10%
Lead	CCV2092710P	10.0	9.84	1.6	+/- 10%
Mercury	CCV2092410Y	0.00500	0.00524	-4.8	+/- 20%
Nickel	CCV2092710P	1.00	0.995	0.46	+/- 10%
Thallium	CCV2092710E	0.0400	0.0404	-1.1	+/- 10%
Zinc	CCV2092710P	1.00	0.987	1.3	+/- 10%

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3092710P	1.00	0.942	5.8	+/- 10%
Arsenic	CCV3092710P	1.00	0.979	2.1	+/- 10%
Chromium	CCV3092710P	1.00	0.992	0.78	+/- 10%
Copper	CCV3092710P	1.00	1.00	0	+/- 10%
Lead	CCV3092710P	10.0	9.77	2.3	+/- 10%
Mercury	CCV3092410Y	0.00500	0.00512	-2.4	+/- 20%
Nickel	CCV3092710P	1.00	0.995	0.54	+/- 10%
Thallium	CCV3092710E	0.0400	0.0405	-1.2	+/- 10%
Zinc	CCV3092710P	1.00	0.984	1.6	+/- 10%
Antimony	CCV4092710P	1.00	0.946	5.4	+/- 10%
Arsenic	CCV4092710P	1.00	0.958	4.2	+/- 10%
Chromium	CCV4092710P	1.00	1.00	0	+/- 10%
Copper	CCV4092710P	1.00	1.01	-0.60	+/- 10%
Lead	CCV4092710P	10.0	9.83	1.7	+/- 10%
Nickel	CCV4092710P	1.00	1.00	0	+/- 10%
Zinc	CCV4092710P	1.00	0.986	1.4	+/- 10%
Antimony	CCV5092710P	1.00	0.927	7.3	+/- 10%
Arsenic	CCV5092710P	1.00	0.971	2.9	+/- 10%
Chromium	CCV5092710P	1.00	1.00	0	+/- 10%
Copper	CCV5092710P	1.00	1.01	-0.58	+/- 10%
Lead	CCV5092710P	10.0	9.81	1.9	+/- 10%
Nickel	CCV5092710P	1.00	1.00	0	+/- 10%
Zinc	CCV5092710P	1.00	0.983	1.7	+/- 10%
Antimony	CCV6092710P	1.00	0.919	8.1	+/- 10%
Arsenic	CCV6092710P	1.00	0.951	4.9	+/- 10%
Chromium	CCV6092710P	1.00	1.00	0	+/- 10%
Copper	CCV6092710P	1.00	1.01	-0.66	+/- 10%
Lead	CCV6092710P	10.0	9.70	3.0	+/- 10%
Nickel	CCV6092710P	1.00	0.993	0.69	+/- 10%
Zinc	CCV6092710P	1.00	0.981	1.9	+/- 10%

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

TOTAL ZINC
EPA 6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Zinc	CCV7092710P	1.00	0.961	3.9	+/- 10%
Zinc	CCV8092710P	1.00	0.971	2.9	+/- 10%
Zinc	CCV9092710P	1.00	0.972	2.8	+/- 10%

Date of Report: September 28, 2010
Samples Submitted: September 23, 2010
Laboratory Reference: 1009-248
Project: 000105-01.09

% MOISTURE

Date Analyzed: 9-24-10

Client ID	Lab ID	% Moisture
KCP4-SO200-B-100923	09-248-01	7
KCP4-SO201-D-100923	09-248-02	7
KCP4-SO202-S-100923	09-248-03	4
KCP4-SO203-S-100923	09-248-04	7
KCP4-CO204-A-100923	09-248-05	11
KPC4-CO205-B-100923	09-248-06	14

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Date: 9/23/10
Project Name: KIMBERLY CLARK
Project Number:
Project Manager: REBECCA DESROSIERS
Phone Number: 206 903 3300
Shipment Method: BE HAND DELIVERED

ANCHOR QEA

09-248

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Atterberg Limits	Moisture Content (D2216)	Grainsize	Specific Gravity	Consolidation	CuTriax	Sediment Permeability	Dioxin/Furans	PCB Congeners	PCB Aroclors	SVOCs	Metals	TOC	Total Solids	Pesticides	VOCs	Archive	% MOISTURE	Archive	Comments/Preservation
1	KCP4-SO200-B-100923	9/23/10	SOIL	1												X						X		METALS - Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn
2	KCP4-SO201-D-100923	9		1												X								
3	KCP4-SO202-S-100923			1												X								
4	KCP4-SO203-S-100923			1												X								
5	KCP4-CO204-A-100923			1												X								
6	KCP4-CO205-B-100923			1												X								
7																								
8																								
9																								
10																								
11					9/23/10																			
12			W.M																					
13																								
14																								
15																								

Notes: 48 HR TAT

Relinquished By:	Company:	Received By:	Company:
Wes MacDonald	Anchor QEA, LLC	MVOUN	OSE
Signature/Printed Name	9/23/10 1710 Date/Time	Signature/Printed Name	9/23/10 1710 Date/Time
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: Kimberly Clark

OnSite Project Number: 09-248

Initiated by: MR

Date Initiated: 9/23/10

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 2	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 13, 2010

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1010-093

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on October 11, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

Case Narrative

Samples were collected on October 11, 2010 and received by the laboratory on October 11, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-093-01					
Client ID:	**KCP4-SO207-B101011**					
Antimony	**ND**	5.4	6010B	10-12-10	10-12-10	
Arsenic	**ND**	11	6010B	10-12-10	10-12-10	
Chromium	**24**	0.54	6010B	10-12-10	10-12-10	
Copper	**22**	1.1	6010B	10-12-10	10-12-10	
Lead	**6.2**	5.4	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.27	7471A	10-11-10	10-11-10	
Nickel	**48**	2.7	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.7	6020	10-12-10	10-12-10	
Zinc	**47**	2.7	6010B	10-12-10	10-12-10	
Lab ID:	10-093-02					
Client ID:	**KCP4-SO208-B101011**					
Antimony	**ND**	5.6	6010B	10-12-10	10-12-10	
Arsenic	**ND**	11	6010B	10-12-10	10-12-10	
Chromium	**36**	0.56	6010B	10-12-10	10-12-10	
Copper	**17**	1.1	6010B	10-12-10	10-12-10	
Lead	**ND**	5.6	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.28	7471A	10-11-10	10-11-10	
Nickel	**91**	2.8	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.8	6020	10-12-10	10-12-10	
Zinc	**35**	2.8	6010B	10-12-10	10-12-10	

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-093-03					
Client ID:	**KCP4-SO209-D101011**					
Antimony	**ND**	5.7	6010B	10-12-10	10-12-10	
Arsenic	**ND**	11	6010B	10-12-10	10-12-10	
Chromium	**33**	0.57	6010B	10-12-10	10-12-10	
Copper	**20**	1.1	6010B	10-12-10	10-12-10	
Lead	**ND**	5.7	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.28	7471A	10-11-10	10-11-10	
Nickel	**88**	2.8	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.8	6020	10-12-10	10-12-10	
Zinc	**35**	2.8	6010B	10-12-10	10-12-10	
Lab ID:	10-093-04					
Client ID:	**KCP4-SO210-B101011**					
Antimony	**ND**	5.4	6010B	10-12-10	10-12-10	
Arsenic	**ND**	11	6010B	10-12-10	10-12-10	
Chromium	**20**	0.54	6010B	10-12-10	10-12-10	
Copper	**16**	1.1	6010B	10-12-10	10-12-10	
Lead	**ND**	5.4	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.27	7471A	10-11-10	10-11-10	
Nickel	**38**	2.7	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.7	6020	10-12-10	10-12-10	
Zinc	**28**	2.7	6010B	10-12-10	10-12-10	

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-093-05					
Client ID:	**KCP4-SO211-S101011**					
Antimony	**ND**	5.3	6010B	10-12-10	10-12-10	
Arsenic	**ND**	11	6010B	10-12-10	10-12-10	
Chromium	**63**	0.53	6010B	10-12-10	10-12-10	
Copper	**34**	1.1	6010B	10-12-10	10-12-10	
Lead	**ND**	5.3	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.26	7471A	10-11-10	10-11-10	
Nickel	**67**	2.6	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.6	6020	10-12-10	10-12-10	
Zinc	**36**	2.6	6010B	10-12-10	10-12-10	
Lab ID:	10-093-06					
Client ID:	**KCP4-SO212-S101011**					
Antimony	**ND**	5.4	6010B	10-12-10	10-12-10	
Arsenic	**19**	11	6010B	10-12-10	10-12-10	
Chromium	**53**	0.54	6010B	10-12-10	10-12-10	
Copper	**92**	1.1	6010B	10-12-10	10-12-10	
Lead	**11**	5.4	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.27	7471A	10-11-10	10-11-10	
Nickel	**120**	2.7	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.7	6020	10-12-10	10-12-10	
Zinc	**180**	2.7	6010B	10-12-10	10-12-10	

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-093-07					
Client ID:	**KCP4-SO213-S101011**					
Antimony	**ND**	5.4	6010B	10-12-10	10-12-10	
Arsenic	**12**	11	6010B	10-12-10	10-12-10	
Chromium	**28**	0.54	6010B	10-12-10	10-12-10	
Copper	**56**	1.1	6010B	10-12-10	10-12-10	
Lead	**15**	5.4	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.27	7471A	10-11-10	10-11-10	
Nickel	**50**	2.7	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.7	6020	10-12-10	10-12-10	
Zinc	**130**	2.7	6010B	10-12-10	10-12-10	
Lab ID:	10-093-08					
Client ID:	**KCP4-CO206-101011**					
Antimony	**ND**	5.5	6010B	10-12-10	10-12-10	
Arsenic	**ND**	11	6010B	10-12-10	10-12-10	
Chromium	**11**	0.55	6010B	10-12-10	10-12-10	
Copper	**33**	1.1	6010B	10-12-10	10-12-10	
Lead	**170**	5.5	6010B	10-12-10	10-12-10	
Mercury	**ND**	0.28	7471A	10-11-10	10-11-10	
Nickel	**11**	2.8	6010B	10-12-10	10-12-10	
Thallium	**ND**	2.8	6020	10-12-10	10-12-10	
Zinc	**100**	2.8	6010B	10-12-10	10-12-10	

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	10-11&12-10
Date Analyzed:	10-11&12-10
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB1011S3,MB1012S1&MB1012S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 10-11&12-10
Date Analyzed: 10-11&12-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-093-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**32.7**	**30.6**	7	0.50	
Copper	**15.7**	**16.1**	3	1.0	
Lead	**ND**	**5.10**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**82.0**	**84.4**	3	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**31.0**	**32.8**	6	2.5	

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 10-11&12-10
Date Analyzed: 10-11&12-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-093-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	500	**464**	93	**459**	92	1	
Arsenic	100	**102**	102	**102**	102	1	
Chromium	100	**129**	96	**126**	93	2	
Copper	50	**65.9**	101	**67.3**	103	2	
Lead	250	**229**	92	**230**	92	0	
Mercury	0.50	**0.519**	104	**0.512**	102	1	
Nickel	100	**187**	105	**177**	95	6	
Thallium	50	**50.2**	100	**48.8**	98	3	
Zinc	100	**128**	97	**129**	98	0	

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 10-11&12-10
Date Analyzed: 10-11&12-10

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB1011S3,SB1012S1&SB1012S2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	500	**474**	95
Arsenic	6010B	100	**98.4**	98
Chromium	6010B	100	**101**	101
Copper	6010B	50	**51.7**	103
Lead	6010B	250	**241**	96
Mercury	7471A	0.50	**0.526**	105
Nickel	6010B	100	**103**	103
Thallium	6020	50	**48.5**	97
Zinc	6010B	100	**102**	102

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV101210P	1.00	0.988	1.2	+/- 10%
Arsenic	ICV101210P	1.00	0.985	1.5	+/- 10%
Chromium	ICV101210P	1.00	1.04	-4.3	+/- 10%
Copper	ICV101210P	1.00	1.03	-3.5	+/- 10%
Lead	ICV101210P	1.00	1.06	-6.4	+/- 10%
Mercury	ICV101110Y	0.00500	0.00495	1.1	+/- 10%
Nickel	ICV101210P	1.00	1.05	-4.6	+/- 10%
Thallium	ICV101210E	0.0500	0.0512	-2.4	+/- 10%
Zinc	ICV101210P	1.00	1.01	-0.81	+/- 10%
Antimony	CCV1101210P	1.00	0.998	0.20	+/- 10%
Arsenic	CCV1101210P	1.00	0.985	1.5	+/- 10%
Chromium	CCV1101210P	1.00	1.02	-1.6	+/- 10%
Copper	CCV1101210P	1.00	1.00	0	+/- 10%
Lead	CCV1101210P	10.0	10.0	0	+/- 10%
Mercury	CCV1101110Y	0.00500	0.00524	-4.8	+/- 20%
Nickel	CCV1101210P	1.00	1.01	-1.2	+/- 10%
Thallium	CCV1101210E	0.0400	0.0408	-2.0	+/- 10%
Zinc	CCV1101210P	1.00	1.00	0	+/- 10%
Antimony	CCV2101210P	1.00	0.972	2.8	+/- 10%
Arsenic	CCV2101210P	1.00	0.961	3.9	+/- 10%
Chromium	CCV2101210P	1.00	1.01	-1.0	+/- 10%
Copper	CCV2101210P	1.00	1.01	-0.69	+/- 10%
Lead	CCV2101210P	10.0	10.0	0	+/- 10%
Mercury	CCV2101110Y	0.00500	0.00526	-5.2	+/- 20%
Nickel	CCV2101210P	1.00	1.01	-1.2	+/- 10%
Thallium	CCV2101210E	0.0400	0.0410	-2.6	+/- 10%
Zinc	CCV2101210P	1.00	0.995	0.49	+/- 10%

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3101210P	1.00	1.00	0	+/- 10%
Arsenic	CCV3101210P	1.00	0.988	1.2	+/- 10%
Chromium	CCV3101210P	1.00	1.02	-2.3	+/- 10%
Copper	CCV3101210P	1.00	1.01	-1.1	+/- 10%
Lead	CCV3101210P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV3101110Y	0.00500	0.00537	-7.4	+/- 20%
Nickel	CCV3101210P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV3101210E	0.0400	0.0408	-2.1	+/- 10%
Zinc	CCV3101210P	1.00	1.01	-0.57	+/- 10%
Antimony	CCV4101210P	1.00	0.965	3.5	+/- 10%
Arsenic	CCV4101210P	1.00	0.975	2.5	+/- 10%
Chromium	CCV4101210P	1.00	1.02	-1.7	+/- 10%
Copper	CCV4101210P	1.00	1.01	-0.87	+/- 10%
Lead	CCV4101210P	10.0	10.0	0	+/- 10%
Mercury	CCV4101110Y	0.00500	0.00541	-8.1	+/- 20%
Nickel	CCV4101210P	1.00	1.02	-1.5	+/- 10%
Zinc	CCV4101210P	1.00	1.00	0	+/- 10%
Copper	CCV5101210P	1.00	1.02	-1.6	+/- 10%
Mercury	CCV5101110Y	0.00500	0.00544	-8.7	+/- 20%
Copper	CCV6101210P	1.00	1.02	-1.6	+/- 10%
Copper	CCV7101210P	1.00	1.01	-1.4	+/- 10%
Copper	CCV8101210P	1.00	1.01	-1.1	+/- 10%

Date of Report: October 13, 2010
Samples Submitted: October 11, 2010
Laboratory Reference: 1010-093
Project: 000105-01

% MOISTURE

Date Analyzed: 10-11-10

Client ID	Lab ID	% Moisture
KCP4-SO207-B 101011	10-093-01	7
KCP4-SO208-B 101011	10-093-02	10
KCP4-SO209-D 101011	10-093-03	12
KCP4-SO210-B 101011	10-093-04	7
KCP4-SO211-S 101011	10-093-05	5
KCP4-SO212-S 101011	10-093-06	7
KCP4-SO213-S 101011	10-093-07	8
KCP4-CO206-101011	10-093-08	9

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 10, 2011

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1102-058

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on February 8, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

Case Narrative

Samples were collected on February 8, 2011 and received by the laboratory on February 8, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for mercury are outside control limits due to matrix inhomogeniety. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 94%.

The Matrix Spike/Matrix Spike Duplicate RPD for mercury is outside control limits due to matrix inhomogeniety. The samples were re-extracted and re-analyzed with similar results

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

NWTPH-HCID

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Identification	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	02-058-05				
Client ID:	**KCP4-SO218-S-110208**				
Gasoline Range	**ND**	39	2-9-11	2-9-11	
Diesel Range	**ND**	97	2-9-11	2-9-11	
Lube Oil Range	**Lube Oil**	190	2-9-11	2-9-11	
Surrogate: o-terphenyl	116%	50-150			
Lab ID:	02-058-08				
Client ID:	**KCP4-SO221-B-110208**				
Gasoline Range	**ND**	37	2-9-11	2-9-11	
Diesel Range	**Diesel Range Organics**	93	2-9-11	2-9-11	
Lube Oil Range	**Lube Oil**	190	2-9-11	2-9-11	
Surrogate: o-terphenyl	114%	50-150			
Lab ID:	02-058-09				
Client ID:	**KCP4-SO222-B-110208**				
Gasoline Range	**ND**	30	2-9-11	2-9-11	
Diesel Range	**Diesel Range Organics**	74	2-9-11	2-9-11	
Lube Oil Range	**Lube Oil**	150	2-9-11	2-9-11	
Surrogate: o-terphenyl	118%	50-150			

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

NWTPH-HCID
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-9-11
Date Analyzed:	2-9-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0209S2
Gasoline:	**ND**
PQL:	20
Diesel Fuel:	**ND**
PQL:	50
Lube Oil:	**ND**
PQL:	100
Surrogate Recovery:	
o-Terphenyl	115%

Flags

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

NWTPH-HCID
STANDARDS RESPONSE SUMMARY

GASOLINE RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0209R-V1	14260495	10 ppm

DIESEL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
CCV0209R-V2	256886414	100 ppm
CCV0209R-V3	277458290	100 ppm
CCV0209R-V4	286108203	100 ppm

HEAVY OIL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0209R-V1	151584796	50 ppm

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-058-01					
Client ID:	**KCP4-SO214-S-110208**					
Antimony	**ND**	5.8	6010B	2-9-11	2-9-11	
Arsenic	**ND**	12	6010B	2-9-11	2-9-11	
Chromium	**20**	0.58	6010B	2-9-11	2-9-11	
Copper	**52**	1.2	6010B	2-9-11	2-9-11	
Lead	**7.9**	5.8	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.29	7471A	2-9-11	2-9-11	
Nickel	**19**	2.9	6010B	2-9-11	2-9-11	
Thallium	**ND**	1.4	6020	2-9-11	2-9-11	
Zinc	**57**	2.9	6010B	2-9-11	2-9-11	
Lab ID:	02-058-02					
Client ID:	**KCP4-SO215-S-110208**					
Antimony	**ND**	5.6	6010B	2-9-11	2-9-11	
Arsenic	**ND**	11	6010B	2-9-11	2-9-11	
Chromium	**25**	0.56	6010B	2-9-11	2-9-11	
Copper	**15**	1.1	6010B	2-9-11	2-9-11	
Lead	**16**	5.6	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.28	7471A	2-9-11	2-9-11	
Nickel	**43**	2.8	6010B	2-9-11	2-9-11	
Thallium	**ND**	1.4	6020	2-9-11	2-9-11	
Zinc	**26**	2.8	6010B	2-9-11	2-9-11	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-058-03					
Client ID:	**KCP4-SO216-S-110208**					
Antimony	**ND**	5.8	6010B	2-9-11	2-9-11	
Arsenic	**ND**	12	6010B	2-9-11	2-9-11	
Chromium	**28**	0.58	6010B	2-9-11	2-9-11	
Copper	**36**	1.2	6010B	2-9-11	2-9-11	
Lead	**930**	5.8	6010B	2-9-11	2-9-11	
Mercury	**2.4**	1.4	7471A	2-9-11	2-9-11	
Nickel	**51**	2.9	6010B	2-9-11	2-9-11	
Thallium	**ND**	1.4	6020	2-9-11	2-9-11	
Zinc	**33**	2.9	6010B	2-9-11	2-9-11	
Lab ID:	02-058-04					
Client ID:	**KCP4-SO217-B-110208**					
Antimony	**19**	12	6010B	2-9-11	2-9-11	
Arsenic	**ND**	25	6010B	2-9-11	2-9-11	
Chromium	**32**	1.2	6010B	2-9-11	2-9-11	
Copper	**520**	2.5	6010B	2-9-11	2-9-11	
Lead	**770**	12	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.62	7471A	2-9-11	2-9-11	
Nickel	**54**	6.2	6010B	2-9-11	2-9-11	
Thallium	**ND**	3.1	6020	2-9-11	2-9-11	
Zinc	**360**	6.2	6010B	2-9-11	2-9-11	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-058-05					
Client ID:	**KCP4-SO218-S-110208**					
Antimony	**ND**	9.7	6010B	2-9-11	2-9-11	
Arsenic	**ND**	19	6010B	2-9-11	2-9-11	
Chromium	**34**	0.97	6010B	2-9-11	2-9-11	
Copper	**59**	1.9	6010B	2-9-11	2-9-11	
Lead	**27**	9.7	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.49	7471A	2-9-11	2-9-11	
Nickel	**38**	4.9	6010B	2-9-11	2-9-11	
Thallium	**ND**	2.4	6020	2-9-11	2-9-11	
Zinc	**140**	4.9	6010B	2-9-11	2-9-11	
Lab ID:	02-058-06					
Client ID:	**KCP4-SO219-S-110208**					
Antimony	**ND**	9.6	6010B	2-9-11	2-9-11	
Arsenic	**ND**	19	6010B	2-9-11	2-9-11	
Chromium	**40**	0.96	6010B	2-9-11	2-9-11	
Copper	**290**	1.9	6010B	2-9-11	2-9-11	
Lead	**49**	9.6	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.48	7471A	2-9-11	2-9-11	
Nickel	**11**	4.8	6010B	2-9-11	2-9-11	
Thallium	**ND**	2.4	6020	2-9-11	2-9-11	
Zinc	**17**	4.8	6010B	2-9-11	2-9-11	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-058-07					
Client ID:	**KCP4-SO220-S-110208**					
Antimony	**ND**	6.0	6010B	2-9-11	2-9-11	
Arsenic	**ND**	12	6010B	2-9-11	2-9-11	
Chromium	**43**	0.60	6010B	2-9-11	2-9-11	
Copper	**24**	1.2	6010B	2-9-11	2-9-11	
Lead	**30**	6.0	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.30	7471A	2-9-11	2-9-11	
Nickel	**56**	3.0	6010B	2-9-11	2-9-11	
Thallium	**ND**	1.5	6020	2-9-11	2-9-11	
Zinc	**58**	3.0	6010B	2-9-11	2-9-11	
Lab ID:	02-058-08					
Client ID:	**KCP4-SO221-B-110208**					
Antimony	**ND**	9.3	6010B	2-9-11	2-9-11	
Arsenic	**ND**	19	6010B	2-9-11	2-9-11	
Chromium	**9.5**	0.93	6010B	2-9-11	2-9-11	
Copper	**82**	1.9	6010B	2-9-11	2-9-11	
Lead	**67**	9.3	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.46	7471A	2-9-11	2-9-11	
Nickel	**13**	4.6	6010B	2-9-11	2-9-11	
Thallium	**ND**	2.3	6020	2-9-11	2-9-11	
Zinc	**79**	4.6	6010B	2-9-11	2-9-11	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-058-09					
Client ID:	**KCP4-SO222-B-110208**					
Antimony	**7.4**	7.4	6010B	2-9-11	2-9-11	
Arsenic	**ND**	15	6010B	2-9-11	2-9-11	
Chromium	**44**	0.74	6010B	2-9-11	2-9-11	
Copper	**1600**	15	6010B	2-9-11	2-9-11	
Lead	**280**	7.4	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.37	7471A	2-9-11	2-9-11	
Nickel	**23**	3.7	6010B	2-9-11	2-9-11	
Thallium	**ND**	1.9	6020	2-9-11	2-9-11	
Zinc	**39**	3.7	6010B	2-9-11	2-9-11	
Lab ID:	02-058-12					
Client ID:	**KCP4-SO217-D-110208**					
Antimony	**20**	12	6010B	2-9-11	2-9-11	
Arsenic	**ND**	23	6010B	2-9-11	2-9-11	
Chromium	**34**	1.2	6010B	2-9-11	2-9-11	
Copper	**550**	2.3	6010B	2-9-11	2-9-11	
Lead	**2100**	12	6010B	2-9-11	2-9-11	
Mercury	**ND**	0.59	7471A	2-9-11	2-9-11	
Nickel	**53**	5.9	6010B	2-9-11	2-9-11	
Thallium	**ND**	2.9	6020	2-9-11	2-9-11	
Zinc	**480**	5.9	6010B	2-9-11	2-9-11	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-9-11
Date Analyzed:	2-9-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0209S2,MB0209S3&MB0209S4

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	1.3
Zinc	6010B	**ND**	2.5

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 2-9-11
Date Analyzed: 2-9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-058-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**22.0**	**21.5**	2	0.50	
Copper	**13.0**	**13.1**	0	1.0	
Lead	**14.7**	**15.9**	8	5.0	
Mercury	**ND**	**0.257**	NA	0.25	
Nickel	**37.8**	**34.4**	10	2.5	
Thallium	**ND**	**ND**	NA	1.3	
Zinc	**23.5**	**24.5**	4	2.5	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 2-9-11
Date Analyzed: 2-9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-058-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**85.3**	85	**86.4**	86	1	
Arsenic	100	**91.7**	92	**93.1**	93	2	
Chromium	100	**112**	90	**113**	91	0	
Copper	50	**65.4**	105	**60.4**	95	8	
Lead	250	**262**	99	**233**	88	12	
Mercury	0.50	**0.800**	160	**0.542**	108	38	V,W
Nickel	100	**126**	88	**130**	92	3	
Thallium	50	**48.0**	96	**50.0**	100	4	
Zinc	100	**111**	88	**115**	91	3	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 2-9-11
Date Analyzed: 2-9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0209S2,SB0209S3&SB0209S4

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**81.9**	82
Arsenic	6010B	100	**85.1**	85
Chromium	6010B	100	**45.5**	88
Copper	6010B	50	**47.6**	95
Lead	6010B	250	**213**	85
Mercury	7471A	0.50	**0.469**	94
Nickel	6010B	100	**88.7**	89
Thallium	6020	50	**46.0**	92
Zinc	6010B	100	**86.0**	86

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV020911P	1.00	0.928	7.2	+/- 10%
Arsenic	ICV020911P	1.00	0.936	6.4	+/- 10%
Chromium	ICV020911P	1.00	0.963	3.7	+/- 10%
Copper	ICV020911P	1.00	0.961	3.9	+/- 10%
Lead	ICV020911P	1.00	0.941	5.9	+/- 10%
Mercury	ICV020911Y	0.00500	0.00485	3.0	+/- 10%
Nickel	ICV020911P	1.00	0.975	2.5	+/- 10%
Thallium	ICV020911E	0.0500	0.0509	-1.8	+/- 10%
Zinc	ICV020911P	1.00	0.919	8.1	+/- 10%
Antimony	CCV1020911P	1.00	0.973	2.7	+/- 10%
Arsenic	CCV1020911P	1.00	0.957	4.3	+/- 10%
Chromium	CCV1020911P	1.00	0.982	1.8	+/- 10%
Copper	CCV1020911P	1.00	0.983	1.7	+/- 10%
Lead	CCV1020911P	10.0	9.73	2.7	+/- 10%
Mercury	CCV1020911Y	0.00500	0.00497	0.60	+/- 20%
Nickel	CCV1020911P	1.00	0.991	0.90	+/- 10%
Thallium	CCV1020911E	0.0400	0.0411	-2.7	+/- 10%
Zinc	CCV1020911P	1.00	0.974	2.6	+/- 10%
Antimony	CCV2020911P	1.00	1.02	-2.0	+/- 10%
Arsenic	CCV2020911P	1.00	0.975	2.5	+/- 10%
Chromium	CCV2020911P	1.00	1.02	-2.0	+/- 10%
Copper	CCV2020911P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2020911P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV2020911Y	0.00500	0.00493	1.4	+/- 20%
Nickel	CCV2020911P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV2020911E	0.0400	0.0400	0	+/- 10%
Zinc	CCV2020911P	1.00	1.00	0	+/- 10%

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3020911P	1.00	1.06	-6.0	+/- 10%
Arsenic	CCV3020911P	1.00	0.967	3.3	+/- 10%
Chromium	CCV3020911P	1.00	1.03	-3.0	+/- 10%
Copper	CCV3020911P	1.00	1.06	-6.0	+/- 10%
Lead	CCV3020911P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV3020911Y	0.00500	0.00464	7.2	+/- 20%
Nickel	CCV3020911P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV3020911E	0.0400	0.0402	-0.50	+/- 10%
Zinc	CCV3020911P	1.00	1.03	-3.0	+/- 10%
Copper	CCV4020911P	1.00	1.00	0	+/- 10%
Mercury	CCV4020911Y	0.00500	0.00493	1.4	+/- 20%
Copper	CCV5020911P	1.00	1.03	-3.0	+/- 10%
Copper	CCV6020911P	1.00	1.04	-4.0	+/- 10%

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TCLP METALS
EPA 1311/6010B

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-058-10					
Client ID:	**KCP4-S0223-BK-110208**					
Copper	**ND**	0.020	6010B	2-9-11	2-9-11	
Lead	**7.5**	0.20	6010B	2-9-11	2-9-11	
Lab ID:	02-058-11					
Client ID:	**KCP4-S0224-BK-110208**					
Copper	**ND**	0.020	6010B	2-9-11	2-9-11	
Lead	**ND**	0.20	6010B	2-9-11	2-9-11	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TCLP METALS
EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	2-8-11
Date Extracted:	2-9-11
Date Analyzed:	2-9-11
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0209T1

Analyte	Method	Result	PQL
Copper	6010B	**ND**	0.020
Lead	6010B	**ND**	0.20

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TCLP METALS
EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 2-8-11
Date Extracted: 2-9-11
Date Analyzed: 2-9-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 02-058-10

Analyte	Sample Result	Duplicate Result	RPD	Flags	PQL
Copper	**ND**	**ND**	NA		0.020
Lead	**7.48**	**7.63**	2		0.20

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TCLP METALS
EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared: 2-8-11
Date Extracted: 2-9-11
Date Analyzed: 2-9-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 02-058-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Copper	2.0	**1.89**	95	**1.90**	95	1	
Lead	10	**16.1**	86	**15.9**	84	1	

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TCLP METALS
EPA 1311/6010B
SPIKE BLANKS QUALITY CONTROL

Date Prepared: 2-8-11
Date Extracted: 2-9-11
Date Analyzed: 2-9-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0209T1

Analyte	Method	Spike Level	SB	Percent Recovery
Copper	6010B	2.0	**1.94**	97
Lead	6010B	10	**8.77**	88

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

TCLP METALS
EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Copper	ICV1020911P	1.00	0.961	3.9	+/- 10%
Lead	ICV1020911P	1.00	0.941	5.9	+/- 10%
Copper	CCV1020911P	1.00	0.983	1.7	+/- 10%
Lead	CCV1020911P	10.0	9.73	2.7	+/- 10%
Copper	CCV2020911P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2020911P	10.0	10.1	-1.0	+/- 10%
Copper	CCV3020911P	1.00	1.06	-6.0	+/- 10%
Lead	CCV3020911P	10.0	10.2	-2.0	+/- 10%
Copper	CCV4020911P	1.00	1.00	0	+/- 10%
Lead	CCV4020911P	10.0	9.61	3.9	+/- 10%

Date of Report: February 10, 2011
Samples Submitted: February 8, 2011
Laboratory Reference: 1102-058
Project: 000105-01

% MOISTURE

Date Analyzed: 2-8-11

Client ID	Lab ID	% Moisture
KCP4-SO214-S-110208	02-058-01	14
KCP4-SO215-S-110208	02-058-02	11
KCP4-SO216-S-110208	02-058-03	13
KCP4-SO217-B-110208	02-058-04	60
KCP4-SO218-S-110208	02-058-05	48
KCP4-SO219-S-110208	02-058-06	48
KCP4-SO220-S-110208	02-058-07	16
KCP4-SO221-B-110208	02-058-08	46
KCP4-SO222-B-110208	02-058-09	33
KCP4-SO217-D-110208	02-058-12	57

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Desrosiers
Sampled by: WM, IF

Turnaround Request (in working days)
(Check One)
☐ Same Day ☑ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 02-058

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total ~~RCRA / MTCA~~ Metals (circle one)	TCLP Metals Cu, Pb	HEM (oil and grease) 1664	% Moisture
1	KCP4-S0214-S-110208	2/8/2011	1030	SO	1													X			X
2	KCP4-S0215-S-110208	2/8/2011	1035	SO	1													X			X
3	KCP4-S0216-S-110208	2/8/2011	1040	SO	1													X			X
4	KCP4-S0217-B-110208	2/8/2011	1055	SO	1													X			X
5	KCP4-S0218-S-110208	2/8/2011	1145	SO	1	X												X			X
6	KCP4-S0219-S-110208	2/8/2011	1155	SO	1													X			X
7	KCP4-S0220-S-110208	2/8/2011	1200	SO	1													X			X
8	KCP4-S0221-B-110208	2/8/2011	1300	SO	1	X												X			X
9	KCP4-S0222-B-110208	2/8/2011	1315	SO	1	X												X			X
10	KCP4-S0223-BK-110208	2/8/2011	1325	SO	1														X		

	Signature	Company	Date	Time
Relinquished		Anchor QEA	2/8/2011	15:35
Received		Onsite	2-8-11	1535
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
- Please homogenize whole jar before sample preparation.
- HCID regular TAT ok.

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☒ Electronic Data Deliverables (EDDs) ☒ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Desrosiers
Sampled by: WM, IF

Turnaround Request (in working days)
(Check One)
☐ Same Day ☑ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 02-058

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	% Moisture
11	KCP4-S0224-BK-110208	2/8/2011	1330	SO	1														X		
	~~KCP4-S0225-110208~~	~~2/8/2011~~		~~SO~~																	
	KCP4-S0226-110208	2/8/2011		SO																	
	KCP4-S0227-110208	2/8/2011		SO																	
	KCP4-S0228-110208	2/8/2011		SO																	
	KCP4-S0229-110208 IF 2/8/2011	2/8/2011		SO																	
	KCP4-S0230-110208	2/8/2011		SO																	
	~~KCP4-S0231-110208~~	~~2/8/2011~~		~~SO~~																	
12	KCP4-S0217-D-110208	2/8/2011	1100	SO	1													X			X

	Signature	Company	Date	Time
Relinquished		Anchor QEA	2/8/2011	15:35
Received		Onsite	2-8-11	1535
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
- Please homogenize whole jar before sample preparation.
- HCID regular TAT ok.

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☒ Electronic Data Deliverables (EDDs) ☒ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 600105-01

Initiated by: BK

OnSite Project Number: 02-058

Date Initiated: 2-8-11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 1°C		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No	1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No	1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No	1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 24, 2011

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01
Laboratory Reference No. 1102-096

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on February 12, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

Case Narrative

Samples were collected on February 11, 2011 and received by the laboratory on February 12, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for mecury are outside control limits due to matrix inhomogeniety. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 96%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

NWTPH-HCID

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Identification	PQL	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-08				
Client ID:	**KCP4-SO232-B-110211**				
Gasoline Range	**ND**	62	2-16-11	2-16-11	
Diesel Range	**Diesel Range Organics**	160	2-16-11	2-16-11	
Lube Oil Range	**Lube Oil**	310	2-16-11	2-16-11	
Surrogate: o-terphenyl	132%	50-150			
Lab ID:	02-096-13				
Client ID:	**KCP4-SO238-S-110211**				
Gasoline Range	**ND**	21	2-16-11	2-16-11	
Diesel Range	**ND**	53	2-16-11	2-16-11	
Lube Oil Range	**ND**	110	2-16-11	2-16-11	
Surrogate: o-terphenyl	130%	50-150			
Lab ID:	02-096-14				
Client ID:	**KCP4-SO239-B-110211**				
Gasoline Range	**ND**	23	2-16-11	2-16-11	
Diesel Range	**Diesel Range Organics**	57	2-16-11	2-16-11	
Lube Oil Range	**Lube Oil**	110	2-16-11	2-16-11	
Surrogate: o-terphenyl	132%	50-150			

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NWTPH-HCID
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-16-11
Date Analyzed:	2-16-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0216S1
Gasoline:	**ND**
PQL:	20
Diesel Fuel:	**ND**
PQL:	50
Lube Oil:	**ND**
PQL:	100
Surrogate Recovery:	
o-Terphenyl	130%

Flags

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NWTPH-HCID
STANDARDS RESPONSE SUMMARY

GASOLINE RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0216R-T1	17066042	10 ppm

DIESEL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
CCV0216R-T1	293149247	100 ppm
CCV0216R-T2	299329013	100 ppm

HEAVY OIL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0216R-T1	176329608	50 ppm

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-01					
Client ID:	**KCP4-SO225-B-110211**					
Antimony	**26**	15	6010B	2-14-11	2-14-11	
Arsenic	**ND**	31	6010B	2-14-11	2-14-11	
Chromium	**78**	1.5	6010B	2-14-11	2-14-11	
Copper	**830**	3.1	6010B	2-14-11	2-14-11	
Lead	**1700**	15	6010B	2-14-11	2-14-11	
Mercury	**5.0**	1.5	7471A	2-15-11	2-15-11	
Nickel	**65**	7.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	3.8	6020	2-14-11	2-14-11	
Zinc	**300**	7.7	6010B	2-14-11	2-14-11	
Lab ID:	02-096-02					
Client ID:	**KCP4-SO226-S-110211**					
Antimony	**ND**	5.5	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**34**	0.55	6010B	2-14-11	2-14-11	
Copper	**16**	1.1	6010B	2-14-11	2-14-11	
Lead	**ND**	5.5	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.28	7471A	2-15-11	2-15-11	
Nickel	**64**	2.8	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**31**	2.8	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-03					
Client ID:	**KCP4-SO227-B-110211**					
Antimony	**ND**	5.4	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**36**	0.54	6010B	2-14-11	2-14-11	
Copper	**15**	1.1	6010B	2-14-11	2-14-11	
Lead	**11**	5.4	6010B	2-14-11	2-14-11	
Mercury	**0.50**	0.27	7471A	2-15-11	2-15-11	
Nickel	**67**	2.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**28**	2.7	6010B	2-14-11	2-14-11	
Lab ID:	02-096-04					
Client ID:	**KCP4-SO228-B-110211**					
Antimony	**38**	19	6010B	2-14-11	2-14-11	
Arsenic	**ND**	38	6010B	2-14-11	2-14-11	
Chromium	**20**	1.9	6010B	2-14-11	2-14-11	
Copper	**9800**	38	6010B	2-14-11	2-15-11	
Lead	**1800**	19	6010B	2-14-11	2-14-11	
Mercury	**1.5**	0.95	7471A	2-15-11	2-15-11	
Nickel	**ND**	9.5	6010B	2-14-11	2-14-11	
Thallium	**ND**	4.7	6020	2-14-11	2-14-11	
Zinc	**12**	9.5	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-05					
Client ID:	**KCP4-SO229-S-110211**					
Antimony	**ND**	5.5	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**31**	0.55	6010B	2-14-11	2-14-11	
Copper	**11**	1.1	6010B	2-14-11	2-14-11	
Lead	**ND**	5.5	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.27	7471A	2-15-11	2-15-11	
Nickel	**59**	2.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**29**	2.7	6010B	2-14-11	2-14-11	
Lab ID:	02-096-06					
Client ID:	**KCP4-SO230-S-110211**					
Antimony	**ND**	5.5	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**31**	0.55	6010B	2-14-11	2-14-11	
Copper	**19**	1.1	6010B	2-14-11	2-14-11	
Lead	**ND**	5.5	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.28	7471A	2-15-11	2-15-11	
Nickel	**56**	2.8	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**29**	2.8	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-07					
Client ID:	**KCP4-SO231-S-110211**					
Antimony	**ND**	5.5	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**29**	0.55	6010B	2-14-11	2-14-11	
Copper	**25**	1.1	6010B	2-14-11	2-14-11	
Lead	**22**	5.5	6010B	2-14-11	2-14-11	
Mercury	**2.9**	1.4	7471A	2-15-11	2-15-11	
Nickel	**53**	2.8	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**58**	2.8	6010B	2-14-11	2-14-11	
Lab ID:	02-096-08					
Client ID:	**KCP4-SO232-B-110211**					
Antimony	**ND**	16	6010B	2-14-11	2-14-11	
Arsenic	**ND**	31	6010B	2-14-11	2-14-11	
Chromium	**68**	1.6	6010B	2-14-11	2-14-11	
Copper	**640**	3.1	6010B	2-14-11	2-14-11	
Lead	**500**	16	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.78	7471A	2-15-11	2-15-11	
Nickel	**35**	7.8	6010B	2-14-11	2-14-11	
Thallium	**ND**	3.9	6020	2-14-11	2-14-11	
Zinc	**350**	7.8	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-09					
Client ID:	**KCP4-SO233-S-110211**					
Antimony	**ND**	5.5	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**27**	0.55	6010B	2-14-11	2-14-11	
Copper	**42**	1.1	6010B	2-14-11	2-14-11	
Lead	**7.7**	5.5	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.28	7471A	2-15-11	2-15-11	
Nickel	**39**	2.8	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**110**	2.8	6010B	2-14-11	2-14-11	
Lab ID:	02-096-10					
Client ID:	**KCP4-SO234-S-110211**					
Antimony	**ND**	5.4	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**44**	0.54	6010B	2-14-11	2-14-11	
Copper	**28**	1.1	6010B	2-14-11	2-14-11	
Lead	**11**	5.4	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.27	7471A	2-15-11	2-15-11	
Nickel	**28**	2.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.3	6020	2-14-11	2-14-11	
Zinc	**160**	2.7	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-11					
Client ID:	**KCP4-SO236-S-110211**					
Antimony	**ND**	5.4	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**19**	0.54	6010B	2-14-11	2-14-11	
Copper	**14**	1.1	6010B	2-14-11	2-14-11	
Lead	**ND**	5.4	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.27	7471A	2-15-11	2-15-11	
Nickel	**41**	2.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**28**	2.7	6010B	2-14-11	2-14-11	
Lab ID:	02-096-12					
Client ID:	**KCP4-SO237-S-110211**					
Antimony	**ND**	5.3	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**25**	0.53	6010B	2-14-11	2-14-11	
Copper	**18**	1.1	6010B	2-14-11	2-14-11	
Lead	**ND**	5.3	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.27	7471A	2-15-11	2-15-11	
Nickel	**44**	2.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.3	6020	2-14-11	2-14-11	
Zinc	**27**	2.7	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-13					
Client ID:	**KCP4-SO238-S-110211**					
Antimony	**ND**	5.3	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**26**	0.53	6010B	2-14-11	2-14-11	
Copper	**57**	1.1	6010B	2-14-11	2-14-11	
Lead	**7.1**	5.3	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.27	7471A	2-15-11	2-15-11	
Nickel	**30**	2.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.3	6020	2-14-11	2-14-11	
Zinc	**290**	2.7	6010B	2-14-11	2-14-11	
Lab ID:	02-096-14					
Client ID:	**KCP4-SO239-B-110211**					
Antimony	**ND**	5.7	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**31**	0.57	6010B	2-14-11	2-14-11	
Copper	**86**	1.1	6010B	2-14-11	2-14-11	
Lead	**240**	5.7	6010B	2-14-11	2-14-11	
Mercury	**0.53**	0.29	7471A	2-15-11	2-15-11	
Nickel	**35**	2.9	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.4	6020	2-14-11	2-14-11	
Zinc	**120**	2.9	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-17					
Client ID:	**KCP4-SO242-B-110211**					
Antimony	**ND**	5.3	6010B	2-14-11	2-14-11	
Arsenic	**ND**	11	6010B	2-14-11	2-14-11	
Chromium	**31**	0.53	6010B	2-14-11	2-14-11	
Copper	**69**	1.1	6010B	2-14-11	2-14-11	
Lead	**9.3**	5.3	6010B	2-14-11	2-14-11	
Mercury	**ND**	0.27	7471A	2-15-11	2-15-11	
Nickel	**35**	2.7	6010B	2-14-11	2-14-11	
Thallium	**ND**	1.3	6020	2-14-11	2-14-11	
Zinc	**120**	2.7	6010B	2-14-11	2-14-11	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-14&15-11
Date Analyzed: 2-14&15-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0214S1,MB0214S1&MB0215S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	1.3
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 2-14&15-11
Date Analyzed: 2-14&15-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-096-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**33.0**	**32.1**	3	0.50	
Copper	**14.2**	**16.4**	14	1.0	
Lead	**9.75**	**ND**	NA	5.0	
Mercury	**0.457**	**0.462**	1	0.25	
Nickel	**61.2**	**59.8**	2	2.5	
Thallium	**ND**	**ND**	NA	1.3	
Zinc	**26.1**	**27.0**	3	2.5	

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TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 2-14&15-11
Date Analyzed: 2-14&15-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-096-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.3**	91	**89.4**	89	2	
Arsenic	100	**103**	103	**101**	101	2	
Chromium	100	**129**	96	**125**	92	3	
Copper	50	**67.2**	106	**64.3**	100	4	
Lead	250	**243**	93	**241**	93	1	
Mercury	0.50	**0.686**	46	**0.799**	68	15	V
Nickel	100	**162**	101	**151**	90	7	
Thallium	50	**46.3**	93	**44.8**	90	3	
Zinc	100	**128**	102	**128**	102	0	

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Project: 000105-01

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANKS QUALITY CONTROL

Date Extracted: 2-14&15-11
Date Analyzed: 2-14&15-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0214S1,SB0214S1&SB0215S2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**94.1**	94
Arsenic	6010B	100	**100**	100
Chromium	6010B	100	**104**	104
Copper	6010B	50	**50.6**	101
Lead	6010B	250	**246**	98
Mercury	7471A	0.50	**0.481**	96
Nickel	6010B	100	**104**	104
Thallium	6020	50	**44.0**	88
Zinc	6010B	100	**101**	101

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1021411P	1.00	0.951	4.9	+/- 10%
Arsenic	ICV1021411P	1.00	0.986	1.4	+/- 10%
Chromium	ICV1021411P	1.00	1.06	-6.0	+/- 10%
Copper	ICV1021411P	1.00	1.02	-2.0	+/- 10%
Lead	ICV1021411P	1.00	1.07	-7.0	+/- 10%
Mercury	ICV1021511Y	0.00500	0.00512	-2.4	+/- 10%
Nickel	ICV1021411P	1.00	1.06	-6.0	+/- 10%
Thallium	ICV1021511E	0.0500	0.0519	-3.8	+/- 10%
Zinc	ICV1021411P	1.00	0.973	2.7	+/- 10%
Antimony	CCV1021411P	1.00	0.990	1.0	+/- 10%
Arsenic	CCV1021411P	1.00	0.979	2.1	+/- 10%
Chromium	CCV1021411P	1.00	1.04	-4.0	+/- 10%
Copper	CCV1021411P	1.00	1.05	-5.0	+/- 10%
Lead	CCV1021411P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV1021511Y	0.00500	0.00513	-2.6	+/- 20%
Nickel	CCV1021411P	1.00	1.05	-5.0	+/- 10%
Thallium	CCV1021511E	0.0400	0.0369	7.8	+/- 10%
Zinc	CCV1021411P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV2021411P	1.00	0.986	1.4	+/- 10%
Arsenic	CCV2021411P	1.00	0.980	2.0	+/- 10%
Chromium	CCV2021411P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2021411P	1.00	1.06	-6.0	+/- 10%
Lead	CCV2021411P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV2021511Y	0.00500	0.00496	0.80	+/- 20%
Nickel	CCV2021411P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV2021511E	0.0400	0.0377	5.8	+/- 10%
Zinc	CCV2021411P	1.00	1.01	-1.0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3021411P	1.00	0.959	4.1	+/- 10%
Arsenic	CCV3021411P	1.00	0.995	0.50	+/- 10%
Chromium	CCV3021411P	1.00	1.04	-4.0	+/- 10%
Copper	CCV3021411P	1.00	1.07	-7.0	+/- 10%
Lead	CCV3021411P	10.0	10.3	-3.0	+/- 10%
Mercury	CCV3021511Y	0.00500	0.00498	0.40	+/- 20%
Nickel	CCV3021411P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV3021511E	0.0400	0.0369	7.8	+/- 10%
Zinc	CCV3021411P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV4021411P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV4021411P	1.00	0.957	4.3	+/- 10%
Chromium	CCV4021411P	1.00	1.04	-4.0	+/- 10%
Copper	CCV4021411P	1.00	1.08	-8.0	+/- 10%
Lead	CCV4021411P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV4021511Y	0.00500	0.00493	1.4	+/- 20%
Nickel	CCV4021411P	1.00	1.04	-4.0	+/- 10%
Thallium	CCV4021511E	0.0400	0.0378	5.5	+/- 10%
Zinc	CCV4021411P	1.00	1.01	-1.0	+/- 10%
Copper	CCV5021411P	1.00	1.06	-6.0	+/- 10%
Mercury	CCV5021511Y	0.00500	0.00493	1.4	+/- 20%
Copper	CCV6021411P	1.00	1.06	-6.0	+/- 10%
Copper	CCV7021411P	1.00	1.06	-6.0	+/- 10%
Copper	CCV8021411P	1.00	1.05	-5.0	+/- 10%
Copper	CCV9021411P	1.00	1.04	-4.0	+/- 10%

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

TCLP METALS
EPA 1311/6010B

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-096-15					
Client ID:	**KCP4-SO240-BK-110211**					
Copper	**ND**	0.020	6010B	2-15-11	2-15-11	
Lead	**7.8**	0.20	6010B	2-15-11	2-15-11	
Lab ID:	02-096-16					
Client ID:	**KCP4-SO241-D-110211**					
Copper	**0.038**	0.020	6010B	2-15-11	2-15-11	
Lead	**9.2**	0.20	6010B	2-15-11	2-15-11	

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

TCLP METALS
EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	2-14-11
Date Extracted:	2-15-11
Date Analyzed:	2-15-11
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0215T1

Analyte	Method	Result	PQL
Copper	6010B	**ND**	0.020
Lead	6010B	**ND**	0.20

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

TCLP METALS
EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 2-14-11
Date Extracted: 2-15-11
Date Analyzed: 2-15-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 02-096-15

Analyte	Sample Result	Duplicate Result	RPD	Flags	PQL
Copper	**ND**	**ND**	NA		0.020
Lead	**7.78**	**7.38**	5		0.20

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

TCLP METALS
EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared: 2-14-11
Date Extracted: 2-15-11
Date Analyzed: 2-15-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 02-096-15

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Copper	2.0	**1.97**	99	**1.97**	98	0	
Lead	10	**16.3**	85	**16.1**	83	1	

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

TCLP METALS
EPA 1311/6010B
SPIKE BLANKS QUALITY CONTROL

Date Prepared: 2-14-11
Date Extracted: 2-15-11
Date Analyzed: 2-15-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0215T1

Analyte	Method	Spike Level	SB	Percent Recovery
Copper	6010B	2.0	**2.01**	101
Lead	6010B	10	**9.04**	90

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

TCLP METALS
EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Copper	ICV021511P	1.00	1.01	-1.0	+/- 10%
Lead	ICV021511P	1.00	1.03	-3.0	+/- 10%
Copper	CCV1021511P	1.00	1.05	-5.0	+/- 10%
Lead	CCV1021511P	10.0	10.4	-4.0	+/- 10%
Copper	CCV2021511P	1.00	1.08	-8.0	+/- 10%
Lead	CCV2021511P	10.0	10.3	-3.0	+/- 10%
Copper	CCV3021511P	1.00	1.08	-8.0	+/- 10%
Lead	CCV3021511P	10.0	10.2	-2.0	+/- 10%
Copper	CCV4021511P	1.00	1.08	-8.0	+/- 10%
Lead	CCV4021511P	10.0	10.2	-2.0	+/- 10%
Copper	CCV5021511P	1.00	1.07	-7.0	+/- 10%
Lead	CCV5021511P	10.0	10.2	-2.0	+/- 10%

Date of Report: February 24, 2011
Samples Submitted: February 12, 2011
Laboratory Reference: 1102-096
Project: 000105-01

% MOISTURE

Date Analyzed: 2-14-11

Client ID	Lab ID	% Moisture
KCP4-SO225-B-110211	02-096-01	67
KCP4-SO226-S-110211	02-096-02	10
KCP4-SO227-B-110211	02-096-03	8
KCP4-SO228-B-110211	02-096-04	74
KCP4-SO229-S-110211	02-096-05	9
KCP4-SO230-S-110211	02-096-06	9
KCP4-SO231-S-110211	02-096-07	9
KCP4-SO232-B-110211	02-096-08	68
KCP4-SO233-S-110211	02-096-09	9
KCP4-SO234-S-110211	02-096-10	7
KCP4-SO236-S-110211	02-096-11	8
KCP4-SO237-S-110211	02-096-12	6
KCP4-SO238-S-110211	02-096-13	6
KCP4-SO239-B-110211	02-096-14	13
KCP4-SO242-B-110211	02-096-17	5

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01
Project Name: KIMBERLY CLARK
Project Manager: REBECCA DESROSIERS
Sampled by: WM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☑ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 02-096

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA/MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	KCP4-S0225-B-110211	2/11/11		SO	1													X			
2	KCP4-S0226-S-110211				1													X			
3	KCP4-S0227-B-110211				1													X			
4	KCP4-S0228-B-110211				1													X			
5	KCP4-S0229-S-110211				1													X			
6	KCP4-S0230-S-110211				1													X			
7	KCP4-S0231-S-110211				1													X			
8	KCP4-S0232-B-110211				1	X												X			
9	KCP4-S0233-S-110211				1													X			
10	KCP4-S0234-S-110211				1													X			

	Signature	Company	Date	Time
Relinquished		ANCHOR QEA	2/12/11	11:30
Received		Onsite Env	2/12/11	1130
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
- Please homogenize whole jar before sample preparation
- HCID regular TAT ok.

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01
Project Name: KIMBERLY CLARK
Project Manager: REBECCA DESROSIERS
Sampled by: WES MACDONALD

Turnaround Request (in working days)
(Check One)
☐ Same Day ☑ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 02-096

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total ~~RCRA~~ Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	% Moisture
11	KCP4-SO236-S-110211	2/11/11		SO	1													X			
12	KCP4-SO237-S-110211				1													X			
13	KCP4-SO238-S-110211				1	X												X			
14	KCP4-SO239-B-110211				1	X												X			
15	KCP4-SO240-BK-110211				1														X		
16	KCP4-SO241-D-110211				1														X		
17	KCP4-SO242-B-110211				1													X			
			WM	2/11/11																	

WM 2/11/11

	Signature	Company	Date	Time
Relinquished	Wesley MacDonald	ANCHOR QEA	2/12/11	11:30
Received		On Site Env	2/12/11	1130
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
- Please homogenize whole jar before sample preparation
- HCID regular TAT ok.

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01

OnSite Project Number: 02-096

Initiated by: MM/BG

Date Initiated: 2/12/14/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 1° C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 8, 2011

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09/10
Laboratory Reference No. 1103-054

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on March 7, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

Case Narrative

Samples were collected on March 7, 2011 and received by the laboratory on March 7, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The duplicate RPD for lead is outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for copper, lead, and zinc are outside control limits due to sample inhomogeniety. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recoveries were: 103%, 100%, and 106%, respectively.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-054-01					
Client ID:	**KCP4-SO243-B-070311**					
Antimony	**16**	5.6	6010B	3-7-11	3-7-11	
Arsenic	**ND**	11	6010B	3-7-11	3-7-11	
Chromium	**26**	0.56	6010B	3-7-11	3-7-11	
Copper	**120**	1.1	6010B	3-8-11	3-8-11	
Lead	**640**	56	6010B	3-7-11	3-7-11	
Mercury	**0.82**	0.56	7471A	3-7-11	3-7-11	
Nickel	**33**	2.8	6010B	3-7-11	3-7-11	
Thallium	**ND**	2.8	6020	3-7-11	3-7-11	
Zinc	**150**	2.8	6010B	3-7-11	3-7-11	
Lab ID:	03-054-02					
Client ID:	**KCP4-SO243-D-070311**					
Antimony	**12**	5.7	6010B	3-7-11	3-7-11	
Arsenic	**ND**	11	6010B	3-7-11	3-7-11	
Chromium	**27**	0.57	6010B	3-7-11	3-7-11	
Copper	**120**	1.1	6010B	3-8-11	3-8-11	
Lead	**440**	57	6010B	3-7-11	3-7-11	
Mercury	**0.78**	0.57	7471A	3-7-11	3-7-11	
Nickel	**35**	2.9	6010B	3-7-11	3-7-11	
Thallium	**ND**	2.9	6020	3-7-11	3-7-11	
Zinc	**220**	2.9	6010B	3-7-11	3-7-11	

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-054-03					
Client ID:	**KCP4-SO244-B-070311**					
Antimony	**ND**	18	6010B	3-7-11	3-7-11	
Arsenic	**ND**	18	6010B	3-7-11	3-7-11	
Chromium	**12**	1.8	6010B	3-7-11	3-7-11	
Copper	**150**	3.6	6010B	3-8-11	3-8-11	
Lead	**ND**	180	6010B	3-7-11	3-7-11	
Mercury	**ND**	0.90	7471A	3-7-11	3-7-11	
Nickel	**ND**	9.0	6010B	3-7-11	3-7-11	
Thallium	**ND**	4.5	6020	3-7-11	3-7-11	
Zinc	**110**	9.0	6010B	3-7-11	3-7-11	

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	3-7&8-11
Date Analyzed:	3-7&8-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0307S2,MB0307S3&MB0308S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	5.0
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.10
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	1.3
Zinc	6010B	**ND**	2.5

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 3-7&8-11
Date Analyzed: 3-7&8-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-054-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**14.7**	**8.05**	58	5.0	C
Arsenic	**ND**	**ND**	NA	5.0	
Chromium	**23.3**	**19.8**	16	0.50	
Copper	**105**	**124**	17	1.0	
Lead	**578**	**338**	52	50	K
Mercury	**0.735**	**0.762**	4	0.50	
Nickel	**29.7**	**25.1**	17	2.5	
Thallium	**ND**	**ND**	NA	1.3	
Zinc	**133**	**118**	12	2.5	

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 3-7&8-11
Date Analyzed: 3-7&8-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-054-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**103**	88	**101**	87	2	
Arsenic	100	**105**	105	**105**	105	0	
Chromium	100	**111**	88	**109**	86	2	
Copper	50	**167**	125	**176**	143	5	V
Lead	250	**765**	75	**683**	42	11	V
Mercury	0.50	**1.27**	107	**1.30**	113	3	
Nickel	100	**120**	91	**115**	86	4	
Thallium	50	**49.8**	100	**49.3**	99	1	
Zinc	100	**231**	98	**264**	131	13	V

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 3-7&8-11
Date Analyzed: 3-7&8-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0307S2,SB0307S3&SB0308S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**94.9**	95
Arsenic	6010B	100	**102**	102
Chromium	6010B	100	**106**	106
Copper	6010B	50	**51.4**	103
Lead	6010B	250	**250**	100
Mercury	7471A	0.50	**0.425**	85
Nickel	6010B	100	**107**	107
Thallium	6020	50	**50.8**	102
Zinc	6010B	100	**106**	106

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV030711P	1.00	0.989	1.1	+/- 10%
Arsenic	ICV030711P	1.00	0.965	3.5	+/- 10%
Chromium	ICV030711P	1.00	1.04	-4.2	+/- 10%
Copper	ICV030811P	1.00	1.01	-0.62	+/- 10%
Lead	ICV030711P	1.00	1.07	-7.1	+/- 10%
Mercury	ICV030711Y	0.00500	0.00512	-2.4	+/- 10%
Nickel	ICV030711P	1.00	1.06	-5.9	+/- 10%
Thallium	ICV030711E	0.0500	0.0498	0.46	+/- 10%
Zinc	ICV030711P	1.00	0.989	1.1	+/- 10%
Antimony	CCV1030711P	1.00	0.990	1.0	+/- 10%
Arsenic	CCV1030711P	1.00	0.958	4.2	+/- 10%
Chromium	CCV1030711P	1.00	0.998	0.21	+/- 10%
Copper	CCV1030811P	1.00	0.990	1.0	+/- 10%
Lead	CCV1030711P	10.0	9.89	1.1	+/- 10%
Mercury	CCV1030711Y	0.00500	0.00483	3.4	+/- 20%
Nickel	CCV1030711P	1.00	0.991	0.92	+/- 10%
Thallium	CCV1030711E	0.0400	0.0427	-6.6	+/- 10%
Zinc	CCV1030711P	1.00	0.989	1.1	+/- 10%
Antimony	CCV2030711P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV2030711P	1.00	0.986	1.4	+/- 10%
Chromium	CCV2030711P	1.00	1.01	-1.3	+/- 10%
Copper	CCV2030811P	1.00	1.01	-1.4	+/- 10%
Lead	CCV2030711P	10.0	9.91	0.91	+/- 10%
Mercury	CCV2030711Y	0.00500	0.00499	0.22	+/- 20%
Nickel	CCV2030711P	1.00	1.00	0	+/- 10%
Thallium	CCV2030711E	0.0400	0.0424	-6.0	+/- 10%
Zinc	CCV2030711P	1.00	1.00	0	+/- 10%

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3030711P	1.00	1.00	0	+/- 10%
Arsenic	CCV3030711P	1.00	0.953	4.7	+/- 10%
Chromium	CCV3030711P	1.00	0.999	0.12	+/- 10%
Copper	CCV3030811P	1.00	1.01	-0.93	+/- 10%
Lead	CCV3030711P	10.0	9.82	1.8	+/- 10%
Mercury	CCV3030711Y	0.00500	0.00500	0	+/- 20%
Nickel	CCV3030711P	1.00	0.997	0.32	+/- 10%
Thallium	CCV3030711E	0.0400	0.0432	-8.1	+/- 10%
Zinc	CCV3030711P	1.00	0.987	1.3	+/- 10%
Antimony	CCV4030711P	1.00	0.963	3.7	+/- 10%
Arsenic	CCV4030711P	1.00	0.971	2.9	+/- 10%
Chromium	CCV4030711P	1.00	1.01	-0.57	+/- 10%
Lead	CCV4030711P	10.0	9.86	1.4	+/- 10%
Mercury	CCV4030711Y	0.00500	0.00495	1.1	+/- 20%
Nickel	CCV4030711P	1.00	0.999	0.12	+/- 10%
Zinc	CCV4030711P	1.00	0.992	0.85	+/- 10%
Antimony	CCV5030711P	1.00	1.00	0	+/- 10%
Arsenic	CCV5030711P	1.00	0.998	0.16	+/- 10%
Chromium	CCV5030711P	1.00	1.00	0	+/- 10%
Lead	CCV5030711P	10.0	9.79	2.1	+/- 10%
Nickel	CCV5030711P	1.00	1.00	0	+/- 10%
Zinc	CCV5030711P	1.00	0.993	0.69	+/- 10%
Lead	CCV6030711P	10.0	9.77	2.3	+/- 10%

Date of Report: March 8, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054
Project: 000105-01.09/10

% MOISTURE

Date Analyzed: 3-7-11

Client ID	Lab ID	% Moisture
KCP4-SO243-B-070311	03-054-01	10
KCP4-SO243-D-070311	03-054-02	12
KCP4-SO244-B-070311	03-054-03	72

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

Page 1 of 1

Turnaround Requested: 24-hour

Anchor Contact: Rebecca Gardner
206.903.3332 / 206.669.7333

03-054

ANCHOR QEA
ENVIRONMENTAL, L.L.C.
~~0650 SW Redwood Lane, Suite 110~~
~~Portland, Oregon 97224~~
~~Ph: (503)670-1108 Fax: (503)670-1128~~
720 Olive Way, Suite 1900
Seattle, WA 98101

Lab Contact: David Baumeister	Proj. Name: Former Scott Mill	Analyses Requested									Notes/ Comments:
Lab: On-Site Environmental	Proj. Number: 000105-01.09/10	Metals Sb As Cr Cu	Pb Hg Ni Tl	Zn						Moisture	
Address: 14648 NE 95th St	Sampler: Gardner										
Redmond, WA 98052											
Phone: 425.883-3881	Shipping Method: delivered										
Fax:	AirBill:										

Sample ID	Sample Date	Sample Time	Sample Martix	# Containers										
KCP4-50243-B-070311	07 Mar	8:45	soil	1	X									X
KCP4-50243-D-070311	"	8:46	"	1	X									X
KCP4-50244-B-070311	"	10:21	"	1	X									X

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes	
Printed Name: Rebecca Gardner	Printed Name: M. Voun	Printed Name:		
Company: Anchor QEA	Company: QEA	Company:		
Date/Time: 3/7/2011 12:45	Date/Time: 3/7/11 1245	Date/Time:		
Received By:	Received By:	Received By:		
Printed Name:	Printed Name:	Printed Name:		
Company:	Company:	Company:	# of Coolers: 1	Cooler Temp(s):
Date/Time:	Date/Time:	Date/Time:	COC Seals Intact?	Bottles Intact?

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09/10

OnSite Project Number: 03-054

Initiated by: MV

Date Initiated: 3/7/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 0		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4	
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 18, 2011

Rebecca Desrosiers
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09/10
Laboratory Reference No. 1103-054B

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on March 7, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 18, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054B
Project: 000105-01.09/10

Case Narrative

Samples were collected on March 7, 2011 and received by the laboratory on March 7, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 18, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054B
Project: 000105-01.09/10

NWTPH-HCID

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO243-B-070311**					
Laboratory ID:	03-054-01					
Gasoline Range Organics	**ND**	22	NWTPH-HCID	3-14-11	3-15-11	
Diesel Range Organics	**ND**	120	NWTPH-HCID	3-14-11	3-15-11	U1
Lube Oil	**Detected**	110	NWTPH-HCID	3-14-11	3-15-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*131*	*50-150*				
Client ID:	**KCP4-SO243-D-070311**					
Laboratory ID:	03-054-02					
Gasoline Range Organics	**ND**	23	NWTPH-HCID	3-14-11	3-15-11	
Diesel Range Organics	**ND**	150	NWTPH-HCID	3-14-11	3-15-11	U1
Lube Oil	**Detected**	110	NWTPH-HCID	3-14-11	3-15-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*133*	*50-150*				
Client ID:	**KCP4-SO244-B-070311**					
Laboratory ID:	03-054-03					
Gasoline Range Organics	**ND**	72	NWTPH-HCID	3-14-11	3-15-11	
Diesel Range Organics	**Detected**	180	NWTPH-HCID	3-14-11	3-15-11	
Lube Oil	**Detected**	360	NWTPH-HCID	3-14-11	3-15-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*134*	*50-150*				

Date of Report: March 18, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054B
Project: 000105-01.09/10

NWTPH-HCID
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314S1					
Gasoline Range Organics	**ND**	20	NWTPH-HCID	3-14-11	3-15-11	
Diesel Range Organics	**ND**	50	NWTPH-HCID	3-14-11	3-15-11	
Lube Oil Range Organics	**ND**	100	NWTPH-HCID	3-14-11	3-15-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*132*	*50-150*				

Date of Report: March 18, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054B
Project: 000105-01.09/10

NWTPH-HCID
STANDARDS RESPONSE SUMMARY

GASOLINE RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0315F-V1	14140713	10 ppm

DIESEL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
CCV0315F-V2	256027223	100 ppm
CCV0315F-V3	265141428	100 ppm

HEAVY OIL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0315F-V1	129828497	50 ppm

Date of Report: March 18, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054B
Project: 000105-01.09/10

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO243-B-070311**					
Laboratory ID:	03-054-01					
Diesel Range Organics	**ND**	220	NWTPH-Dx	3-17-11	3-18-11	U1
Lube Oil	**1500**	56	NWTPH-Dx	3-17-11	3-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*110*	*50-150*				
Client ID:	**KCP4-SO243-D-070311**					
Laboratory ID:	03-054-02					
Diesel Range Organics	**ND**	210	NWTPH-Dx	3-17-11	3-18-11	U1
Lube Oil	**1400**	57	NWTPH-Dx	3-17-11	3-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*113*	*50-150*				
Client ID:	**KCP4-SO244-B-070311**					
Laboratory ID:	03-054-03					
Diesel Range Organics	**350**	91	NWTPH-Dx	3-17-11	3-18-11	
Lube Oil	**1500**	180	NWTPH-Dx	3-17-11	3-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

Date of Report: March 18, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054B
Project: 000105-01.09/10

NWTPH-Dx
(with acid/silica gel clean-up)
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-17-11	3-17-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-17-11	3-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				

Analyte	Result		Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE							
Laboratory ID:	03-054-01						
	ORIG	DUP					
Diesel Range Organics	**ND**	**ND**			NA	NA	U1
Lube Oil	**1330**	**1120**			17	NA	
Surrogate:							
o-Terphenyl			*110* *101*	*50-150*			

Date of Report: March 18, 2011
Samples Submitted: March 7, 2011
Laboratory Reference: 1103-054B
Project: 000105-01.09/10

NWTPH-Dx
(with acid/silica gel clean-up)
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Contol Limits
CCV0317F-V1	100	111	-11	+/-15%
CCV0317F-V2	100	112	-12	+/-15%
CCV0317R-V1	100	110	-10	+/-15%
CCV0317R-V2	100	108	-8	+/-15%
CCV0318F-V1	100	107	-7	+/-15%
CCV0318F-V2	100	112	-12	+/-15%
CCV0318R-V1	100	103	-3	+/-15%
CCV0318R-V2	100	109	-9	+/-15%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

Page 1 of 1

Turnaround Requested: 24-hour

Anchor Contact: Rebecca Gardner 206.903.3332 / 206.669.7333

03-054

ANCHOR QEA
~~ENVIRONMENTAL, L.L.C.~~
~~6650 SW Redwood Lane, Suite 110~~
~~Portland, Oregon 97224~~
720 Olive Way, Suite 1900
~~Ph: (503)670-1108 Fax: (503)670-1128~~
Seattle, WA 98101

Lab Contact: David Baumeister	Proj. Name: Former Scott Mill	Analyses Requested										Notes/ Comments:
Lab: On-Site Environmental	Proj. Number: 000105-01.09/10											
Address: 14648 NE 95th St	Sampler: Gardner											
Redmond, WA 98052												
Phone: 425.883-3881	Shipping Method: delivered											
Fax:	AirBill:											

	Sample ID	Sample Date	Sample Time	Sample Matrix	# Containers	Metals SbAsCrCuPbHgNiTlZn	NWTPH-HCID	NWTPH-Dx	Moisture	
1	KCP4-50243-B-070311	07 Mar	8:45	soil	1	X	⊗	O	X	
2	KCP4-50243-D-070311	"	8:46	"	1	X	⊗	O	↓	
3	KCP4-50244-B-070311	"	10:21	"	1	X	⊗	O	↓	

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes
Printed Name: Rebecca Gardner	Printed Name: M. Voun	Printed Name:	⊗ Added 3/14/11. DB (4 DAY TAT)
Company: Anchor QEA	Company: QEC	Company:	⊗ Added 3/16/11. DB 5:01 p.m. - 1 day TAT.
Date/Time: 3/7/2011 12:45	Date/Time: 3/7/11 1245	Date/Time:	
Received By:	Received By:	Received By:	
Printed Name:	Printed Name:	Printed Name:	
Company:	Company:	Company:	# of Coolers: 1 / Cooler Temp(s):
Date/Time:	Date/Time:	Date/Time:	COC Seals Intact? / Bottles Intact?

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.0910

OnSite Project Number: 03-054

Initiated by: MV

Date Initiated: 3/7/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 0		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No	1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No	1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No	1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 21, 2011

Rebecca Gardner
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1103-131

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on March 15, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

Case Narrative

Samples were collected on March 15, 2011 and received by the laboratory on March 15, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The duplicate RPD for lead is outside control limits due to the inherently high percentage variability of samples that are within five times the detection limit.

The duplicate RPD for zinc is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-131-01					
Client ID:	**KCP4-SO245-B-150311**					
Antimony	**ND**	30	6010B	3-16-11	3-16-11	
Arsenic	**ND**	15	6020	3-16-11	3-16-11	
Chromium	**30**	3.0	6010B	3-16-11	3-16-11	
Copper	**400**	6.0	6010B	3-16-11	3-16-11	
Lead	**520**	30	6010B	3-15-11	3-16-11	
Mercury	**ND**	1.5	7471A	3-16-11	3-16-11	
Nickel	**35**	15	6010B	3-16-11	3-16-11	
Thallium	**ND**	3.7	6020	3-16-11	3-16-11	
Zinc	**160**	15	6010B	3-16-11	3-16-11	
Lab ID:	03-131-02					
Client ID:	**KCP4-SO245-D-150311**					
Antimony	**ND**	29	6010B	3-16-11	3-16-11	
Arsenic	**ND**	15	6020	3-16-11	3-16-11	
Chromium	**33**	2.9	6010B	3-16-11	3-16-11	
Copper	**470**	5.9	6010B	3-16-11	3-16-11	
Lead	**380**	29	6010B	3-15-11	3-16-11	
Mercury	**ND**	1.5	7471A	3-16-11	3-16-11	
Nickel	**42**	15	6010B	3-16-11	3-16-11	
Thallium	**ND**	3.7	6020	3-16-11	3-16-11	
Zinc	**190**	15	6010B	3-16-11	3-16-11	

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-131-03					
Client ID:	**KCP4-SO246-S-150311**					
Antimony	**ND**	5.7	6010B	3-16-11	3-16-11	
Arsenic	**ND**	2.9	6020	3-16-11	3-16-11	
Chromium	**20**	0.57	6010B	3-16-11	3-16-11	
Copper	**20**	1.1	6010B	3-16-11	3-16-11	
Lead	**8.3**	5.7	6010B	3-15-11	3-16-11	
Mercury	**ND**	0.29	7471A	3-16-11	3-16-11	
Nickel	**20**	2.9	6010B	3-16-11	3-16-11	
Thallium	**ND**	0.72	6020	3-16-11	3-16-11	
Zinc	**59**	2.9	6010B	3-16-11	3-16-11	

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	3-15&16-11
Date Analyzed:	3-16-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0315S2,MB0316S1&MB0316S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6020	**ND**	2.5
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	0.63
Zinc	6010B	**ND**	2.5

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 3-15&16-11
Date Analyzed: 3-16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-131-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	2.5	
Chromium	**17.0**	**19.5**	13	0.50	
Copper	**17.4**	**20.3**	15	1.0	
Lead	**7.20**	**12.5**	53	5.0	C
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**17.2**	**18.0**	4	2.5	
Thallium	**ND**	**ND**	NA	0.6	
Zinc	**51.4**	**64.5**	23	2.5	K

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 3-15&16-11
Date Analyzed: 3-16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-131-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**93.5**	94	**92.7**	93	1	
Arsenic	100	**98.3**	98	**97.5**	98	1	
Chromium	100	**115**	98	**111**	94	3	
Copper	50	**70.7**	107	**68.9**	103	3	
Lead	250	**267**	104	**240**	93	11	
Mercury	0.50	**0.507**	101	**0.504**	101	1	
Nickel	100	**117**	100	**113**	96	4	
Thallium	50	**47.3**	95	**46.5**	93	2	
Zinc	100	**147**	96	**145**	94	2	

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 3-15&16-11
Date Analyzed: 3-16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0315S2,SB0316S1&SB0316S2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**89.1**	89
Arsenic	6010B	100	**98.0**	98
Chromium	6010B	100	**96.8**	97
Copper	6010B	50	**50.1**	100
Lead	6010B	250	**244**	97
Mercury	7471A	0.50	**0.500**	100
Nickel	6010B	100	**99.0**	99
Thallium	6020	50	**47.8**	96
Zinc	6010B	100	**98.3**	98

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV031611P	1.00	0.982	1.8	+/- 10%
Arsenic	ICV031611E	0.0500	0.0501	-0.20	+/- 10%
Chromium	ICV031611P	1.00	1.05	-5.0	+/- 10%
Copper	ICV031611P	1.00	1.02	-2.0	+/- 10%
Lead	ICV031611P	1.00	1.04	-4.0	+/- 10%
Mercury	ICV031611Y	0.00500	0.00500	0	+/- 10%
Nickel	ICV031611P	1.00	1.05	-5.0	+/- 10%
Thallium	ICV031611E	0.0500	0.0512	-2.4	+/- 10%
Zinc	ICV031611P	1.00	0.976	2.4	+/- 10%
Antimony	CCV1031611P	1.00	0.982	1.8	+/- 10%
Arsenic	CCV1031611E	0.0400	0.0384	4.0	+/- 10%
Chromium	CCV1031611P	1.00	0.998	0.20	+/- 10%
Copper	CCV1031611P	1.00	0.995	0.50	+/- 10%
Lead	CCV1031611P	10.0	9.88	1.2	+/- 10%
Mercury	CCV1031611Y	0.00500	0.00505	-1.0	+/- 20%
Nickel	CCV1031611P	1.00	0.985	1.5	+/- 10%
Thallium	CCV1031611E	0.0400	0.0392	2.0	+/- 10%
Zinc	CCV1031611P	1.00	0.972	2.8	+/- 10%
Antimony	CCV2031611P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV2031611E	0.0400	0.0372	7.0	+/- 10%
Chromium	CCV2031611P	1.00	1.01	-1.0	+/- 10%
Copper	CCV2031611P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2031611P	10.0	10.0	0	+/- 10%
Mercury	CCV2031611Y	0.00500	0.00524	-4.8	+/- 20%
Nickel	CCV2031611E	1.00	1.00	0	+/- 10%
Thallium	CCV2031611P	0.0400	0.0391	2.3	+/- 10%
Zinc	CCV2031611P	1.00	0.982	1.8	+/- 10%

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3031611P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV3031611E	0.0400	0.0377	5.8	+/- 10%
Chromium	CCV3031611P	1.00	1.02	-2.0	+/- 10%
Copper	CCV3031611P	1.00	1.03	-3.0	+/- 10%
Lead	CCV3031611P	10.0	10.0	0	+/- 10%
Nickel	CCV3031611P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV3031611E	0.0400	0.0382	4.5	+/- 10%
Zinc	CCV3031611P	1.00	0.990	1.0	+/- 10%
Lead	CCV4031611P	10.0	10.1	-1.0	+/- 10%

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO245-B-150311**					
Laboratory ID:	03-131-01					
Diesel Range Organics	**ND**	400	NWTPH-Dx	3-17-11	3-18-11	U1
Lube Oil	**1800**	300	NWTPH-Dx	3-17-11	3-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*105*	*50-150*				
Client ID:	**KCP4-SO245-D-150311**					
Laboratory ID:	03-131-02					
Diesel Range Organics	**ND**	420	NWTPH-Dx	3-17-11	3-18-11	U1
Lube Oil	**1600**	290	NWTPH-Dx	3-17-11	3-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*111*	*50-150*				
Client ID:	**KCP4-SO246-S-150311**					
Laboratory ID:	03-131-03					
Diesel Range Organics	**ND**	29	NWTPH-Dx	3-17-11	3-18-11	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	3-17-11	3-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-17-11	3-18-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-17-11	3-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*114*	*50-150*				

Analyte	Result		Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE							
Laboratory ID:	03-131-03						
	ORIG	DUP					
Diesel Range Organics	**ND**	**ND**			NA	NA	
Lube Oil Range Organics	**ND**	**ND**			NA	NA	
Surrogate:							
o-Terphenyl			*107* *115*	*50-150*			

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Contol Limits
CCV0318R-V1	100	103	-3	+/-15%
CCV0318R-V2	100	109	-9	+/-15%

Date of Report: March 21, 2011
Samples Submitted: March 15, 2011
Laboratory Reference: 1103-131
Project: 000105-01.09

% MOISTURE

Date Analyzed: 3-15-11

Client ID	Lab ID	% Moisture
KCP4-SO245-B-150311	03-131-01	83
KCP4-SO245-D-150311	03-131-02	83
KCP4-SO245-S-150311	03-131-03	13

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

Page 1 of 1 Turnaround Requested: 24hr metals/4-day HCID

Anchor Contact: Rebecca Gardner

03-131

ANCHOR QEA
ENVIRONMENTAL, L.L.C.
~~1423 Third Ave, Suite 300~~ 720 Olive Way Suite 1900
Seattle, WA 98101
Ph: (206) 287-9130 Fax: (206) 287-9131

Lab Contact: Baumeister	Proj. Name: Former Scott Mill Kimberly Clark Phase 4
Lab: OnSite Environmental	Proj. Number: 000105-01.09
Address: 14648 NE 95th Street	Sampler: Gardner
Redmond, WA 98052	
Phone: 425.883.3881	Shipping Method: delivery
Fax:	AirBill:

Analyses Requested: ~~NWTPH-HCID~~ (NO DB); Metals*; NWTPH-Dx; % MOISTURE

Notes/Comments: *Sb, As, Cr, Cu, Pb, Hg, Ni, Tl, Zn.

	Sample ID	Sample Date	Sample Time	Sample Martix	# Containers	~~NWTPH-HCID~~	Metals*	NWTPH-Dx							% MOISTURE		Notes/Comments
1	KCP4-SO245-B-150311	15Mar		Soil	1	~~X~~	X	⊗							X		
2	KCP4-SO245-D-150311	15Mar		"	1	~~X~~	X	⊗							↓		
3	KCP4-SO246-S-150311	15Mar		"	1	~~X~~	X	⊗							↓		

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes
RGardner			⊗ Added 3/17/11. DB (1day TAT)
Printed Name: Rebecca Gardner	Printed Name:	Printed Name:	
Company: AQ	Company:	Company:	
Date/Time: 15March2011 / 12:43	Date/Time:	Date/Time:	
Received By: [signature]	Received By:	Received By:	
Printed Name: MVOUN	Printed Name:	Printed Name:	
Company: OSE	Company:	Company:	# of Coolers: 1 / Cooler Temp(s):
Date/Time: 3/15/11 1245	Date/Time:	Date/Time:	COC Seals Intact? / Bottles Intact?

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 03-131

Initiated by: MM

Date Initiated: 3/15/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	**Yes**	No	**N/A**	1 2 3 4	
1.2 Were the custody seals intact?	**Yes**	No	**N/A**	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	**Yes**	No	**N/A**	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	**Yes**	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	**Yes**	No	Temperature: 6 °C		
1.6 Have shipping bills (if any) been attached to the back of this form?	**Yes**	N/A			
1.7 How were the samples delivered?	**Client**	**Courier**	**UPS/FedEx**	**OSE Pickup**	**Other**

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	**Yes**	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	**Yes**	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	**Yes**	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	**Yes**	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	**Yes**	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	**No**	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	**No**		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	**No**		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	**Yes**	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	**Yes**	No	**N/A**	1 2 3 4	
3.5 Are volatiles samples free from headspace and air bubbles?	**Yes**	No	**N/A**	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	**Yes**	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	**No**		1 2 3 4	
3.8 Was method 5035A used?	**Yes**	No	**N/A**	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		**N/A**	1 2 3 4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 28, 2011

Rebecca Gardner
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1103-222

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on March 24, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

Case Narrative

Samples were collected on March 24, 2011 and received by the laboratory on March 24, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

NWTPH-HCID

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO247-B-240311**					
Laboratory ID:	03-222-01					
Gasoline Range Organics	**ND**	22	NWTPH-HCID	3-25-11	3-25-11	
Diesel Range Organics	**ND**	54	NWTPH-HCID	3-25-11	3-25-11	
Lube Oil Range Organics	**ND**	110	NWTPH-HCID	3-25-11	3-25-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*124*	*50-150*				

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

NWTPH-HCID
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325S1					
Gasoline Range Organics	**ND**	20	NWTPH-HCID	3-25-11	3-25-11	
Diesel Range Organics	**ND**	50	NWTPH-HCID	3-25-11	3-25-11	
Lube Oil Range Organics	**ND**	100	NWTPH-HCID	3-25-11	3-25-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*117*	*50-150*				

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-222-01					
Client ID:	**KCP4-SO247-B-240811**					
Antimony	**ND**	5.4	6010B	3-24-11	3-25-11	
Arsenic	**ND**	11	6010B	3-24-11	3-25-11	
Chromium	**19**	0.54	6010B	3-24-11	3-25-11	
Copper	**22**	1.1	6010B	3-24-11	3-25-11	
Lead	**ND**	5.4	6010B	3-24-11	3-25-11	
Mercury	**ND**	0.27	7471A	3-25-11	3-25-11	
Nickel	**45**	2.7	6010B	3-24-11	3-25-11	
Thallium	**ND**	2.7	6020	3-24-11	3-25-11	
Zinc	**28**	2.7	6010B	3-24-11	3-25-11	

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	3-24&25-11
Date Analyzed:	3-25-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0324S3&MB0325S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 3-24&25-11
Date Analyzed: 3-25-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-222-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**17.4**	**19.6**	12	0.50	
Copper	**20.3**	**21.6**	6	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**41.1**	**45.1**	9	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**25.6**	**27.3**	6	2.5	

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 3-24&25-11
Date Analyzed: 3-25-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-222-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**94.1**	94	**96.4**	96	2	
Arsenic	100	**105**	105	**105**	105	0	
Chromium	100	**120**	102	**124**	107	4	
Copper	50	**71.2**	102	**71.4**	102	0	
Lead	250	**244**	98	**244**	98	0	
Mercury	0.50	**0.517**	103	**0.507**	101	2	
Nickel	100	**141**	100	**143**	102	1	
Thallium	50	**49.0**	98	**47.5**	95	3	
Zinc	100	**128**	103	**129**	103	0	

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 3-24&25-11
Date Analyzed: 3-25-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0324S3&SB0325S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**96.4**	96
Arsenic	6010B	100	**101**	101
Chromium	6010B	100	**104**	104
Copper	6010B	50	**52.1**	104
Lead	6010B	250	**253**	101
Mercury	7471A	0.50	**0.510**	102
Nickel	6010B	100	**104**	104
Thallium	6020	50	**48.8**	98
Zinc	6010B	100	**103**	103

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

TOTAL METALS
EPA 6010B/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV1032411P	1.00	1.01	-1.0	+/- 10%
Arsenic	ICV1032411P	1.00	1.04	-4.0	+/- 10%
Chromium	ICV1032411P	1.00	1.08	-8.0	+/- 10%
Copper	ICV1032411P	1.00	1.03	-3.0	+/- 10%
Lead	ICV1032411P	1.00	1.10	-10	+/- 10%
Mercury	ICV1032411Y	0.00500	0.00466	6.8	+/- 10%
Nickel	ICV1032411P	1.00	1.08	-8.0	+/- 10%
Thallium	ICV1032411E	0.0500	0.0465	7.0	+/- 10%
Zinc	ICV1032411P	1.00	1.00	0	+/- 10%
Antimony	CCV1032411P	1.00	1.00	0	+/- 10%
Arsenic	CCV1032411P	1.00	0.978	2.2	+/- 10%
Chromium	CCV1032411P	1.00	1.00	0	+/- 10%
Copper	CCV1032411P	1.00	1.03	-3.0	+/- 10%
Lead	CCV1032411P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV1032411Y	0.00500	0.00516	-3.2	+/- 20%
Nickel	CCV1032411P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV1032411E	0.0400	0.0412	-3.0	+/- 10%
Zinc	CCV1032411P	1.00	0.980	2.0	+/- 10%
Antimony	CCV2032411P	1.00	1.00	0	+/- 10%
Arsenic	CCV2032411P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV2032411P	1.00	1.03	-3.0	+/- 10%
Copper	CCV2032411P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2032411P	10.0	10.3	-3.0	+/- 10%
Mercury	CCV2032411Y	0.00500	0.00520	-4.0	+/- 20%
Nickel	CCV2032411P	1.00	1.05	-5.0	+/- 10%
Thallium	CCV2032411E	0.0400	0.0415	-3.8	+/- 10%
Zinc	CCV2032411P	1.00	0.996	0.40	+/- 10%

Date of Report March 28, 2011
Samples Submitted: March 24, 2011
Laboratory Reference: 1103-222
Project: 000105-01.09

% MOISTURE

Date Analyzed: 3-24-11

Client ID	Lab ID	% Moisture
KCP4-SO247-B-240311	03-222-01	8

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

Page 1 of 1

Turnaround Requested: 48 hr metals / 4-day TPH

Anchor Contact: Rebecca Gardner

03-222

ANCHOR ENVIRONMENTAL, L.L.C.
1423 Third Ave, Suite 300
Seattle, WA 98101
Ph: (206) 287-9130 Fax: (206) 287-9131

Lab Contact:	Proj. Name:	Analyses Requested										Notes/ Comments:
Baumeister	Former Scott Mill Kimberly Clark Phase 4											
Lab:	Proj. Number:											
Onsite Environmental	000105-01.09											
Address:	Sampler:											
14648 NE 95th St.	Liz Vonckx											
Redmond WA 98052												
Phone:	Shipping Method:											
425.883.3881	hand delivered											
Fax:	AirBill:											

Sample ID	Sample Date	Sample Time	Sample Matrix	# Containers	NWTPH-HCID	Metals *						% moisture		
KCP4-S0247-B-240311	March 24 2011	0830	Soil	1	x	x							x	

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes	
Printed Name: Liz Vonckx	Printed Name:	Printed Name:		
Company: AQ	Company:	Company:		
Date/Time: 3/24/11 1143	Date/Time:	Date/Time:		
Received By:	Received By:	Received By:		
Printed Name: David Baumeister	Printed Name:	Printed Name:		
Company: OSE	Company:	Company:	# of Coolers: 1	Cooler Temp(s):
Date/Time: 3/24/11 1143	Date/Time:	Date/Time:	COC Seals Intact?	Bottles Intact?

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 03-222

Initiated by: MMDB

Date Initiated: 3/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 4	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 19, 2011

Rebecca Gardner
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1104-097

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on April 14, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

Case Narrative

Samples were collected on April 14, 2011 and received by the laboratory on April 14, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Chromium EPA 6010B Analysis

The duplicate RPD for Chromium is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO248-B-110414**					
Laboratory ID:	04-097-01					
Naphthalene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
2-Methylnaphthalene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
1-Methylnaphthalene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Acenaphthylene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Acenaphthene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Fluorene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Phenanthrene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Anthracene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Fluoranthene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Pyrene	**0.0096**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[a]anthracene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Chrysene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[b]fluoranthene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[k]fluoranthene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[a]pyrene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Dibenz[a,h]anthracene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[g,h,i]perylene	**ND**	0.0073	EPA 8270/SIM	4-15-11	4-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*43 - 109*				
Pyrene-d10	*99*	*38 - 128*				
Terphenyl-d14	*88*	*33 - 119*				

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0415S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Fluorene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Anthracene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Pyrene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Chrysene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[k]fluoranthene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	4-15-11	4-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*93*	*43 - 109*				
Pyrene-d10	*101*	*38 - 128*				
Terphenyl-d14	*97*	*33 - 119*				

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

PAHs by EPA 8270D/SIM
MS/MSD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	04-097-01										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0626**	**0.0611**	0.0833	0.0833	ND	75	73	39 - 110	2	21	
Acenaphthylene	**0.0706**	**0.0675**	0.0833	0.0833	ND	85	81	47 - 124	4	21	
Acenaphthene	**0.0701**	**0.0671**	0.0833	0.0833	ND	84	81	50 - 120	4	20	
Fluorene	**0.0674**	**0.0660**	0.0833	0.0833	ND	81	79	52 - 126	2	21	
Phenanthrene	**0.0677**	**0.0665**	0.0833	0.0833	ND	81	80	41 - 130	2	22	
Anthracene	**0.0724**	**0.0709**	0.0833	0.0833	ND	87	85	48 - 124	2	23	
Fluoranthene	**0.0767**	**0.0758**	0.0833	0.0833	ND	92	91	40 - 137	1	23	
Pyrene	**0.0727**	**0.0713**	0.0833	0.0833	0.00875	77	75	36 - 139	2	23	
Benzo[a]anthracene	**0.0708**	**0.0700**	0.0833	0.0833	ND	85	84	43 - 127	1	21	
Chrysene	**0.0691**	**0.0683**	0.0833	0.0833	ND	83	82	41 - 133	1	19	
Benzo[b]fluoranthene	**0.0664**	**0.0673**	0.0833	0.0833	ND	80	81	40 - 132	1	25	
Benzo[k]fluoranthene	**0.0605**	**0.0671**	0.0833	0.0833	ND	73	81	35 - 132	10	25	
Benzo[a]pyrene	**0.0651**	**0.0650**	0.0833	0.0833	ND	78	78	37 - 131	0	26	
Indeno(1,2,3-c,d)pyrene	**0.0679**	**0.0678**	0.0833	0.0833	ND	82	81	39 - 134	0	23	
Dibenz[a,h]anthracene	**0.0673**	**0.0670**	0.0833	0.0833	ND	81	80	40 - 137	0	21	
Benzo[g,h,i]perylene	**0.0683**	**0.0673**	0.0833	0.0833	ND	82	81	35 - 135	1	22	
Surrogate:											
2-Fluorobiphenyl						*88*	*83*	*43 - 109*			
Pyrene-d10						*96*	*94*	*38 - 128*			
Terphenyl-d14						*82*	*82*	*33 - 119*			

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TOTAL CHROMIUM
EPA 6010B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-097-02					
Client ID:	**KCP4-SO249-B-110414**					
Chromium	**62**	0.56	6010B	4-18-11	4-18-11	
Lab ID:	04-097-03					
Client ID:	**KCP4-SO250-B-110414**					
Chromium	**56**	0.57	6010B	4-18-11	4-18-11	

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TOTAL CHROMIUM
EPA 6010B
METHOD BLANK QUALITY CONTROL

Date Extracted:	4-18-11
Date Analyzed:	4-18-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0418S2

Analyte	Method	Result	PQL
Chromium	6010B	**ND**	0.50

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TOTAL CHROMIUM
EPA 6010B
DUPLICATE QUALITY CONTROL

Date Extracted: 4-18-11
Date Analyzed: 4-18-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-097-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Chromium	**55.7**	**42.6**	27	0.50	K

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TOTAL CHROMIUM
EPA 6010B
MS/MSD QUALITY CONTROL

Date Extracted: 4-18-11
Date Analyzed: 4-18-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-097-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Chromium	100	**138**	83	**165**	109	18	

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TOTAL CHROMIUM
EPA 6010B
SPIKE BLANK QUALITY CONTROL

Date Extracted: 4-18-11
Date Analyzed: 4-18-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0418S2

Analyte	Method	Spike Level	SB	Percent Recovery
Chromium	6010B	100	**104**	104

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TOTAL CHROMIUM
EPA 6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Chromium	ICV041811P	1.00	1.06	-6.0	+/- 10%
Chromium	CCV1041811P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV2041811P	1.00	1.06	-6.0	+/- 10%
Chromium	CCV3041811P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV4041811P	1.00	1.07	-7.0	+/- 10%

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-097-04					
Client ID:	**KCP4-SO251-BK-110414**					
Lead	**ND**	0.20	6010B	4-19-11	4-19-11	

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	4-18-11
Date Extracted:	4-19-11
Date Analyzed:	4-19-11
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0419T1

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 4-18-11
Date Extracted: 4-19-11
Date Analyzed: 4-19-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 04-106-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**ND**	**ND**	NA	0.20	

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared: 4-18-11
Date Extracted: 4-19-11
Date Analyzed: 4-19-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 04-106-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10	**9.09**	91	**9.07**	91	0	

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
SPIKE BLANK QUALITY CONTROL

Date Prepared: 4-18-11
Date Extracted: 4-19-11
Date Analyzed: 4-19-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0419T1

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	10	**9.26**	93

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV041911P	1.00	1.01	-1.0	+/- 10%
Lead	CCV1041911P	10.0	9.99	0.10	+/- 10%
Lead	CCV2041911P	10.0	10.1	-1.0	+/- 10%
Lead	CCV3041911P	10.0	9.88	1.2	+/- 10%

Date of Report: April 19, 2011
Samples Submitted: April 14, 2011
Laboratory Reference: 1104-097
Project: 000105-01.09

% MOISTURE

Date Analyzed: 4-15&18-11

Client ID	Lab ID	% Moisture
KCP4-SO248-B-110414	04-097-01	8
KCP4-SO249-B-110414	04-097-02	10
KCP4-SO250-B-110414	04-097-03	12

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA, LLC
Project Number: 000105-01.09
Project Name: FORMER SCOTT MILL KIMBERLY CLARK PHASE 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 04-097

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	~~TCLP~~ Metals Cr ONLY	HEM (oil and grease) 1664	TCLP - Pb					% Moisture
1	KCP4-SO248-B-110414	Apr 14, 11	1210	soil	1								X													
2	KCP4-SO249-B-110414		1225	soil	1														X							
3	KCP4-SO250-B-110414		1235	soil	1														X							
4	KCP4-SO251-BK-110414	↓	1520	soil	1																X					

RWV 4/14/11

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	[signature]	AQ	4/14/11	1730	
Received	[signature]	OnSite Env	4/14/11	1730	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 04-097

Initiated by: Blair Goodrow

Date Initiated: 4/14/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 3 °C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 19, 2011

Rebecca Gardner
Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1104-106

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on April 15, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 19, 2011
Samples Submitted: April 15, 2011
Laboratory Reference: 1104-106
Project: 000105-01.09

Case Narrative

Samples were collected on April 15, 2011 and received by the laboratory on April 15, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: April 19, 2011
Samples Submitted: April 15, 2011
Laboratory Reference: 1104-106
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-106-01					
Client ID:	**KCP4-SO252-BK-110415**					
Lead	**ND**	0.20	6010B	4-19-11	4-19-11	
Lab ID:	04-106-02					
Client ID:	**KCP4-SO253-BK-110415**					
Lead	**ND**	0.20	6010B	4-19-11	4-19-11	

Date of Report: April 19, 2011
Samples Submitted: April 15, 2011
Laboratory Reference: 1104-106
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	4-18-11
Date Extracted:	4-19-11
Date Analyzed:	4-19-11
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0419T1

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20

Date of Report: April 19, 2011
Samples Submitted: April 15, 2011
Laboratory Reference: 1104-106
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 4-18-11
Date Extracted: 4-19-11
Date Analyzed: 4-19-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 04-106-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**ND**	**ND**	NA	0.20	

Date of Report: April 19, 2011
Samples Submitted: April 15, 2011
Laboratory Reference: 1104-106
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared: 4-18-11
Date Extracted: 4-19-11
Date Analyzed: 4-19-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 04-106-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10	**9.09**	91	**9.07**	91	0	

Date of Report: April 19, 2011
Samples Submitted: April 15, 2011
Laboratory Reference: 1104-106
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
SPIKE BLANK QUALITY CONTROL

Date Prepared: 4-18-11
Date Extracted: 4-19-11
Date Analyzed: 4-19-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0419T1

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	10	**9.26**	93

Date of Report: April 19, 2011
Samples Submitted: April 15, 2011
Laboratory Reference: 1104-106
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV041911P	1.00	1.01	-1.0	+/- 10%
Lead	CCV1041911P	10.0	9.99	0.10	+/- 10%
Lead	CCV2041911P	10.0	10.1	-1.0	+/- 10%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105 - 01.09
Project Name: Former Scott Mill - Kimberly Clark Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonck

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 04-106

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	~~TCLP Metals~~ TCLP-P6	HEM (oil and grease) 1664	% Moisture
1	KCP4-S0252-BK-110415	4/15/11	~~0805~~ 0812	soil	1														X		
2	KCP4-S0253-BK-110415	4/15/11	1150	soil	1														X		

EWV 4/15/11

	Signature	Company	Date	Time
Relinquished	EWVonck	AQ	4/15/11	1400
Received		OSE	4/15/11	1400
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

1 of 1

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 04-106

Initiated by: MV

Date Initiated: 4/15/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 7°C		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No	1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No	1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No	1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 3, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1104-213

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on April 29, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

Case Narrative

Samples were collected on April 29, 2011 and received by the laboratory on April 29, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-254-B-110429**					
Laboratory ID:	04-213-01					
Diesel Range Organics	**ND**	39	NWTPH-Dx	5-2-11	5-2-11	
Lube Oil Range Organics	**ND**	79	NWTPH-Dx	5-2-11	5-2-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**KCP4-SO-255-S-110429**					
Laboratory ID:	04-213-02					
Diesel Range Organics	**ND**	110	NWTPH-Dx	5-2-11	5-2-11	U1
Lube Oil	**560**	56	NWTPH-Dx	5-2-11	5-2-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-2-11	5-2-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-2-11	5-2-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				

Analyte	Result		Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE							
Laboratory ID:	04-213-02						
	ORIG	DUP					
Diesel Range Organics	**ND**	**ND**			NA	NA	U1
Lube Oil	**503**	**270**			60	NA	
Surrogate:							
o-Terphenyl			*92* *100*	*50-150*			

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Contol Limits
CCV0502F-V1	100	91.5	9	+/-15%
CCV0502F-V2	100	95.0	5	+/-15%

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-213-01					
Client ID:	**KCP4-SO-254-B-110429**					
Antimony	**ND**	7.9	6010B	5-2-11	5-2-11	
Arsenic	**ND**	16	6010B	5-2-11	5-2-11	
Chromium	**50**	0.79	6010B	5-2-11	5-2-11	
Copper	**19**	1.6	6010B	5-2-11	5-2-11	
Lead	**ND**	7.9	6010B	5-2-11	5-2-11	
Mercury	**ND**	0.39	7471A	5-2-11	5-2-11	
Nickel	**30**	3.9	6010B	5-2-11	5-2-11	
Thallium	**ND**	2.0	6020	5-2-11	5-3-11	
Zinc	**54**	3.9	6010B	5-2-11	5-2-11	
Lab ID:	04-213-02					
Client ID:	**KCP4-SO-255-S-110429**					
Antimony	**13**	5.6	6010B	5-2-11	5-2-11	
Arsenic	**ND**	11	6010B	5-2-11	5-2-11	
Chromium	**30**	0.56	6010B	5-2-11	5-2-11	
Copper	**120**	1.1	6010B	5-2-11	5-2-11	
Lead	**320**	5.6	6010B	5-2-11	5-2-11	
Mercury	**1.1**	0.28	7471A	5-2-11	5-2-11	
Nickel	**49**	2.8	6010B	5-2-11	5-2-11	
Thallium	**ND**	1.4	6020	5-2-11	5-3-11	
Zinc	**56**	2.8	6010B	5-2-11	5-2-11	

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-2-11
Date Analyzed:	5-2&3-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0502S1&MB0502S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	1.3
Zinc	6010B	**ND**	2.5

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6020
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-2-11
Date Analyzed:	5-3-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0502S3

Analyte	Method	Result	PQL
Thallium	6020	**ND**	0.25

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-2-11
Date Analyzed: 5-2&3-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-213-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**31.4**	**32.7**	4	0.50	
Copper	**11.9**	**11.5**	3	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**19.1**	**19.8**	4	2.5	
Thallium	**ND**	**ND**	NA	1.3	
Zinc	**34.1**	**34.9**	2	2.5	

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6020
DUPLICATE QUALITY CONTROL

Date Extracted: 5-2-11
Date Analyzed: 5-3-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-213-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Thallium	**ND**	**ND**	NA	0.25	

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-2-11
Date Analyzed: 5-2&3-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-213-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**88.8**	89	**80.3**	80	10	
Arsenic	100	**102**	102	**89.4**	89	13	
Chromium	100	**138**	107	**123**	92	11	
Copper	50.0	**62.4**	101	**54.5**	85	13	
Lead	250	**241**	96	**215**	86	11	
Mercury	0.500	**0.498**	100	**0.494**	99	1	
Nickel	100	**119**	100	**106**	87	11	
Thallium	50.0	**52.5**	105	**55.1**	110	5	
Zinc	100	**140**	106	**126**	92	11	

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6020
MS/MSD QUALITY CONTROL

Date Extracted: 5-2-11
Date Analyzed: 5-3-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-213-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Thallium	50.0	**52.5**	105	**55.1**	110	5	

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-2-11
Date Analyzed: 5-2&3-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0502S1&SB0502S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**91.1**	91
Arsenic	6010B	100	**102**	102
Chromium	6010B	100	**104**	104
Copper	6010B	50.0	**52.0**	104
Lead	6010B	250	**250**	100
Mercury	7471A	0.500	**0.460**	92
Nickel	6010B	100	**103**	103
Thallium	6020	50.0	**51.7**	103
Zinc	6010B	100	**105**	105

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6020
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-2-11
Date Analyzed: 5-3-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0502S3

Analyte	Method	Spike Level	SB	Percent Recovery
Thallium	6020	50.0	**51.7**	103

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV050211P	1.00	1.00	0	+/- 10%
Arsenic	ICV050211P	1.00	1.03	-3.0	+/- 10%
Chromium	ICV050211P	1.00	1.07	-7.0	+/- 10%
Copper	ICV050211P	1.00	1.01	-1.0	+/- 10%
Lead	ICV050211P	1.00	1.03	-3.0	+/- 10%
Mercury	ICV050211Y	0.00500	0.00477	4.6	+/- 10%
Nickel	ICV050211P	1.00	1.06	-6.0	+/- 10%
Thallium	ICV050311E	0.0500	0.0516	-3.2	+/- 10%
Zinc	ICV050211P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV1050211P	1.00	1.02	-2.0	+/- 10%
Arsenic	CCV1050211P	1.00	0.982	1.8	+/- 10%
Chromium	CCV1050211P	1.00	1.02	-2.0	+/- 10%
Copper	CCV1050211P	1.00	1.02	-2.0	+/- 10%
Lead	CCV1050211P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV1050211Y	0.00500	0.00522	-4.4	+/- 20%
Nickel	CCV1050211P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV1050311E	0.0400	0.0410	-2.5	+/- 10%
Zinc	CCV1050211P	1.00	1.02	-2.0	+/- 10%
Antimony	CCV2050211P	1.00	1.05	-5.0	+/- 10%
Arsenic	CCV2050211P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV2050211P	1.00	1.06	-6.0	+/- 10%
Copper	CCV2050211P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2050211P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV2050211Y	0.00500	0.00521	-4.2	+/- 20%
Nickel	CCV2050211P	1.00	1.05	-5.0	+/- 10%
Thallium	CCV2050311E	0.0400	0.0409	-2.3	+/- 10%
Zinc	CCV2050211P	1.00	1.05	-5.0	+/- 10%

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3050211P	1.00	1.10	-10	+/- 10%
Arsenic	CCV3050211P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV3050211P	1.00	1.08	-8.0	+/- 10%
Copper	CCV3050211P	1.00	1.04	-4.0	+/- 10%
Lead	CCV3050211P	10.0	10.9	-9.0	+/- 10%
Nickel	CCV3050211P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV3050311E	0.0400	0.0419	-4.7	+/- 10%
Zinc	CCV3050211P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV4050311E	0.0400	0.0421	-5.2	+/- 10%

Date of Report: May 3, 2011
Samples Submitted: April 29, 2011
Laboratory Reference: 1104-213
Project: 000105-01.09

% MOISTURE

Date Analyzed: 5-2-11

Client ID	Lab ID	% Moisture
KCP4-SO-254-B-110429	04-213-01	37
KCP4-SO-255-S-110429	04-213-02	10

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vorckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 04-213

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*						% Moisture
1	KCP4-SO-254-B-110429	04/29/11	0824	Soil	1				X												X						X
2	KCP4-SO-255-S-110429	04/29/11	0826	Soil	1				X												X						X

EW 4/29/11

	Signature	Company	Date	Time
Relinquished		Anchor QEA	4/29/11	1320
Received		QEA	4/29/11	1320
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, ~~Ag~~ DB, Tl, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-0109

Initiated by: MV

OnSite Project Number: 04-213

Date Initiated: 4/28/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 0		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 17, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1105-065

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on May 7, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

Case Narrative

Samples were collected on May 6, 2011 and received by the laboratory on May 7, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-267-S-110506**					
Laboratory ID:	05-065-12					
Diesel Range Organics	**ND**	73	NWTPH-Dx	5-10-11	5-10-11	U1
Lube Oil	**260**	63	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				
Client ID:	**KCP4-SO-268-S-110506**					
Laboratory ID:	05-065-13					
Diesel Range Organics	**ND**	110	NWTPH-Dx	5-10-11	5-10-11	U1
Lube Oil	**460**	54	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*111*	*50-150*				
Client ID:	**KCP4-SO-269-S-110506**					
Laboratory ID:	05-065-14					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*125*	*50-150*				
Client ID:	**KCP4-SO-270-B-110506**					
Laboratory ID:	05-065-15					
Diesel Range Organics	**ND**	42	NWTPH-Dx	5-10-11	5-10-11	U1
Lube Oil	**150**	70	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				
Client ID:	**KCP4-SO-271-B-110506**					
Laboratory ID:	05-065-16					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**KCP4-SO-272-B-110506**					
Laboratory ID:	05-065-17					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*109*	*50-150*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-273-B-110506**					
Laboratory ID:	05-065-18					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*109*	*50-150*				
Client ID:	**KCP4-SO-274-B-110506**					
Laboratory ID:	05-065-19					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*111*	*50-150*				
Client ID:	**KCP4-SO-275-B-110506**					
Laboratory ID:	05-065-20					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**KCP4-SO-276-B-110506**					
Laboratory ID:	05-065-21					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*73*	*50-150*				
Client ID:	**KCP4-SO-277-S-110506**					
Laboratory ID:	05-065-22					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*57*	*50-150*				
Client ID:	**KCP4-SO-278-S-110506**					
Laboratory ID:	05-065-23					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*121*	*50-150*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-279-S-110506**					
Laboratory ID:	05-065-24					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				
Client ID:	**KCP4-SO-280-S-110506**					
Laboratory ID:	05-065-25					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil	**63**	55	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**KCP4-SO-281-B-110506**					
Laboratory ID:	05-065-26					
Diesel Range Organics	**ND**	30	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*126*	*50-150*				
Client ID:	**KCP4-SO-282-B-110506**					
Laboratory ID:	05-065-27					
Diesel Range Organics	**ND**	45	NWTPH-Dx	5-10-11	5-10-11	U1
Lube Oil	**400**	57	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*113*	*50-150*				
Client ID:	**KCP4-SO-283-B-110506**					
Laboratory ID:	05-065-28					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*110*	*50-150*				
Client ID:	**KCP4-SO-284-S-110506**					
Laboratory ID:	05-065-29					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*117*	*50-150*				

Date of Report: May 17, 2011
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NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-285-S-110506**					
Laboratory ID:	05-065-30					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil	**76**	55	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*111*	*50-150*				
Client ID:	**KCP4-SO-286-S-110506**					
Laboratory ID:	05-065-31					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil	**62**	57	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**KCP4-SO-287-S-110506**					
Laboratory ID:	05-065-32					
Diesel Range Organics	**ND**	27	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				
Laboratory ID:	MB0509S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-9-11	5-9-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-9-11	5-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*119*	*50-150*				
Laboratory ID:	MB0510S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-10-11	5-10-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				

Date of Report: May 17, 2011
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NWTPH-Dx
(with acid/silica gel clean-up)
DUPLICATE QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE							
Laboratory ID:	05-065-17						
	ORIG	DUP					
Diesel Range Organics	**ND**	**ND**			NA	NA	
Lube Oil Range Organics	**ND**	**ND**			NA	NA	
Surrogate:							
o-Terphenyl			*109*	*50-150*			
Laboratory ID:	05-065-22						
	ORIG	DUP					
Diesel Range Organics	**ND**	**ND**			NA	NA	
Lube Oil Range Organics	**ND**	**ND**			NA	NA	
Surrogate:							
o-Terphenyl			*57*	*50-150*			
Laboratory ID:	05-065-28						
	ORIG	DUP					
Diesel Range Organics	**ND**	**ND**			NA	NA	
Lube Oil Range Organics	**ND**	**ND**			NA	NA	
Surrogate:							
o-Terphenyl			*110*	*50-150*			
Laboratory ID:	05-065-32						
	ORIG	DUP					
Diesel Range Organics	**ND**	**ND**			NA	NA	
Lube Oil Range Organics	**ND**	**ND**			NA	NA	
Surrogate:							
o-Terphenyl			*99*	*50-150*			

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NWTPH-Dx
(with acid/silica gel clean-up)
SPIKE BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB0509S1				
Diesel Fuel #2	**94.4**	100	**94**	NA	
Surrogate:					
o-Terphenyl			*113*	*50-150*	
Laboratory ID:	SB0509S2				
Diesel Fuel #2	**97.2**	100	**97**	NA	
Surrogate:					
o-Terphenyl			*111*	*50-150*	
Laboratory ID:	SB0510S1				
Diesel Fuel #2	**97.8**	100	**98**	NA	
Surrogate:					
o-Terphenyl			*109*	*50-150*	

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NWTPH-Dx
(with acid/silica gel clean-up)
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Contol Limits
CCV0509F-V2	100	97.1	3	+/-15%
CCV0509F-V3	100	98.9	1	+/-15%
CCV0509F-V4	100	104	-4	+/-15%
CCV0509F-V5	100	99.5	1	+/-15%
CCV0510F-V1	100	103	-3	+/-15%
CCV0510F-V2	100	100	0	+/-15%
CCV0510F-V3	100	107	-7	+/-15%

Date of Report: May 17, 2011
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Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-256-B-110506**					
Laboratory ID:	05-065-01					
Naphthalene	**ND**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**ND**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**ND**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**0.091**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**0.089**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.51**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**0.12**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.46**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.34**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.19**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.19**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.14**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.14**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.17**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.079**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**ND**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.093**	0.070	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*93*	*43 - 109*				
Pyrene-d10	*75*	*38 - 128*				
Terphenyl-d14	*38*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-257-S-110506**					
Laboratory ID:	05-065-02					
Naphthalene	**0.028**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**0.027**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**0.026**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**0.064**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**0.070**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.42**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**0.10**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.30**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.20**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.15**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.15**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.099**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.12**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.14**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.069**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.030**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.076**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*85*	*43 - 109*				
Pyrene-d10	*62*	*38 - 128*				
Terphenyl-d14	*89*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-258-S-110506**					
Laboratory ID:	05-065-03					
Naphthalene	**0.025**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**0.021**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**0.013**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**0.024**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**0.030**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.18**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**0.037**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.14**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.11**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.078**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.090**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.069**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.066**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.084**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.049**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.020**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.075**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*43 - 109*				
Pyrene-d10	*58*	*38 - 128*				
Terphenyl-d14	*92*	*33 - 119*				

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Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-259-S-110506**					
Laboratory ID:	05-065-04					
Naphthalene	**0.029**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**0.022**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**0.014**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**0.024**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**0.024**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.16**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**0.033**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.13**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.098**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.067**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.075**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.051**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.038**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.054**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.033**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.012**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.053**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*95*	*43 - 109*				
Pyrene-d10	*71*	*38 - 128*				
Terphenyl-d14	*99*	*33 - 119*				

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Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-260-S-110506**					
Laboratory ID:	05-065-05					
Naphthalene	**0.033**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**0.033**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**0.029**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**0.054**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**0.060**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.35**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**0.083**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.29**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.21**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.13**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.14**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.10**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.10**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.13**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.071**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.032**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.071**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*90*	*43 - 109*				
Pyrene-d10	*69*	*38 - 128*				
Terphenyl-d14	*75*	*33 - 119*				

Date of Report: May 17, 2011
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Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-261-B-110506**					
Laboratory ID:	05-065-06					
Naphthalene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*43 - 109*				
Pyrene-d10	*48*	*38 - 128*				
Terphenyl-d14	*48*	*33 - 119*				

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PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-262-S-110506**					
Laboratory ID:	05-065-07					
Naphthalene	**0.012**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**0.012**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**ND**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**ND**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**ND**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.041**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**ND**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.097**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.080**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.046**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.057**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.047**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.039**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.057**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.046**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.014**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.078**	0.0070	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*90*	*43 - 109*				
Pyrene-d10	*80*	*38 - 128*				
Terphenyl-d14	*71*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-263-S-110506**					
Laboratory ID:	05-065-08					
Naphthalene	**0.0082**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**0.0086**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**ND**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**ND**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.026**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**ND**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.066**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.061**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.041**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.064**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.058**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.031**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.052**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.061**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.032**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.13**	0.0072	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*96*	*43 - 109*				
Pyrene-d10	*85*	*38 - 128*				
Terphenyl-d14	*90*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-264-S-110506**					
Laboratory ID:	05-065-09					
Naphthalene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.029**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**ND**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.065**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.059**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.041**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.075**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.070**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.052**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.064**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.065**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.051**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.15**	0.0071	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*75*	*43 - 109*				
Pyrene-d10	*54*	*38 - 128*				
Terphenyl-d14	*59*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-265-S-110506**					
Laboratory ID:	05-065-10					
Naphthalene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**ND**	0.0074	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*92*	*43 - 109*				
Pyrene-d10	*64*	*38 - 128*				
Terphenyl-d14	*78*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-266-S-110506**					
Laboratory ID:	05-065-11					
Naphthalene	**0.052**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
2-Methylnaphthalene	**0.054**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
1-Methylnaphthalene	**0.050**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthylene	**ND**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Acenaphthene	**0.087**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Fluorene	**0.10**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Phenanthrene	**0.54**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Anthracene	**0.13**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Fluoranthene	**0.45**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Pyrene	**0.37**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]anthracene	**0.19**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Chrysene	**0.19**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[b]fluoranthene	**0.14**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Benzo(j,k)fluoranthene	**0.16**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[a]pyrene	**0.16**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Indeno(1,2,3-c,d)pyrene	**0.099**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Dibenz[a,h]anthracene	**0.036**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Benzo[g,h,i]perylene	**0.10**	0.0073	EPA 8270/SIM	5-10-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*94*	*43 - 109*				
Pyrene-d10	*87*	*38 - 128*				
Terphenyl-d14	*83*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0510S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Fluorene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Anthracene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Pyrene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Chrysene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	5-10-11	5-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*98*	*43 - 109*				
Pyrene-d10	*92*	*38 - 128*				
Terphenyl-d14	*100*	*33 - 119*				

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
MS/MSD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-065-06										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0579**	**0.0611**	0.0833	0.0833	ND	70	73	39 - 110	5	21	
Acenaphthylene	**0.0589**	**0.0577**	0.0833	0.0833	ND	71	69	47 - 124	2	21	
Acenaphthene	**0.0513**	**0.0565**	0.0833	0.0833	ND	62	68	50 - 120	10	20	
Fluorene	**0.0546**	**0.0554**	0.0833	0.0833	ND	66	67	52 - 126	1	21	
Phenanthrene	**0.0570**	**0.0657**	0.0833	0.0833	ND	68	79	41 - 130	14	22	
Anthracene	**0.0533**	**0.0585**	0.0833	0.0833	ND	64	70	48 - 124	9	23	
Fluoranthene	**0.0552**	**0.0631**	0.0833	0.0833	ND	66	76	40 - 137	13	23	
Pyrene	**0.0541**	**0.0613**	0.0833	0.0833	ND	65	74	36 - 139	12	23	
Benzo[a]anthracene	**0.0580**	**0.0674**	0.0833	0.0833	ND	70	81	43 - 127	15	21	
Chrysene	**0.0625**	**0.0685**	0.0833	0.0833	ND	75	82	41 - 133	9	19	
Benzo[b]fluoranthene	**0.0622**	**0.0700**	0.0833	0.0833	ND	75	84	40 - 132	12	25	
Benzo(j,k)fluoranthene	**0.0585**	**0.0662**	0.0833	0.0833	ND	70	79	35 - 132	12	25	
Benzo[a]pyrene	**0.0663**	**0.0750**	0.0833	0.0833	ND	80	90	37 - 131	12	26	
Indeno(1,2,3-c,d)pyrene	**0.0600**	**0.0691**	0.0833	0.0833	ND	72	83	39 - 134	14	23	
Dibenz[a,h]anthracene	**0.0614**	**0.0676**	0.0833	0.0833	ND	74	81	40 - 137	10	21	
Benzo[g,h,i]perylene	**0.0636**	**0.0705**	0.0833	0.0833	ND	76	85	35 - 135	10	22	
Surrogate:											
2-Fluorobiphenyl						*61*	*107*	*43 - 109*			
Pyrene-d10						*59*	*58*	*38 - 128*			
Terphenyl-d14						*63*	*69*	*33 - 119*			

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

PAHs by EPA 8270D/SIM
SB/SBD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0510S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0696**	**0.0723**	0.0833	0.0833	84	87	43 - 108	4	27	
Acenaphthylene	**0.0670**	**0.0752**	0.0833	0.0833	80	90	52 - 120	12	21	
Acenaphthene	**0.0713**	**0.0738**	0.0833	0.0833	86	89	59 - 113	3	17	
Fluorene	**0.0702**	**0.0725**	0.0833	0.0833	84	87	64 - 117	3	14	
Phenanthrene	**0.0701**	**0.0707**	0.0833	0.0833	84	85	67 - 112	1	12	
Anthracene	**0.0724**	**0.0719**	0.0833	0.0833	87	86	59 - 110	1	16	
Fluoranthene	**0.0729**	**0.0712**	0.0833	0.0833	88	85	68 - 120	2	15	
Pyrene	**0.0804**	**0.0725**	0.0833	0.0833	97	87	69 - 121	10	17	
Benzo[a]anthracene	**0.0739**	**0.0694**	0.0833	0.0833	89	83	63 - 114	6	12	
Chrysene	**0.0735**	**0.0732**	0.0833	0.0833	88	88	67 - 118	0	12	
Benzo[b]fluoranthene	**0.0742**	**0.0704**	0.0833	0.0833	89	85	58 - 125	5	20	
Benzo(j,k)fluoranthene	**0.0779**	**0.0686**	0.0833	0.0833	94	82	42 - 134	13	26	
Benzo[a]pyrene	**0.0786**	**0.0761**	0.0833	0.0833	94	91	55 - 111	3	19	
Indeno(1,2,3-c,d)pyrene	**0.0787**	**0.0651**	0.0833	0.0833	94	78	60 - 125	19	20	
Dibenz[a,h]anthracene	**0.0709**	**0.0592**	0.0833	0.0833	85	71	62 - 125	18	19	
Benzo[g,h,i]perylene	**0.0683**	**0.0680**	0.0833	0.0833	82	82	61 - 124	0	19	
Surrogate:										
2-Fluorobiphenyl					*95*	*100*	*43 - 109*			
Pyrene-d10					*97*	*88*	*38 - 128*			
Terphenyl-d14					*95*	*94*	*33 - 119*			

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-12					
Client ID:	**KCP4-SO-267-S-110506**					
Antimony	**72**	6.3	6010B	5-9-11	5-10-11	
Arsenic	**ND**	13	6010B	5-9-11	5-10-11	
Chromium	**27**	0.63	6010B	5-9-11	5-10-11	
Copper	**210**	6.3	6010B	5-9-11	5-10-11	
Lead	**7200**	31	6010B	5-9-11	5-10-11	
Mercury	**17**	13	7471A	5-9-11	5-9-11	
Nickel	**47**	16	6010B	5-9-11	5-10-11	
Thallium	**ND**	3.1	6020	5-9-11	5-10-11	
Zinc	**120**	16	6010B	5-9-11	5-10-11	
Lab ID:	05-065-13					
Client ID:	**KCP4-SO-268-S-110506**					
Antimony	**ND**	5.4	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**29**	0.54	6010B	5-9-11	5-10-11	
Copper	**33**	1.1	6010B	5-9-11	5-10-11	
Lead	**57**	5.4	6010B	5-9-11	5-10-11	
Mercury	**0.43**	0.27	7471A	5-9-11	5-9-11	
Nickel	**55**	2.7	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.7	6020	5-9-11	5-10-11	
Zinc	**56**	2.7	6010B	5-9-11	5-10-11	

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-14					
Client ID:	**KCP4-SO-269-S-110506**					
Antimony	**ND**	5.5	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**31**	0.55	6010B	5-9-11	5-10-11	
Copper	**27**	1.1	6010B	5-9-11	5-10-11	
Lead	**18**	5.5	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**40**	2.7	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.7	6020	5-9-11	5-10-11	
Zinc	**31**	2.7	6010B	5-9-11	5-10-11	
Lab ID:	05-065-15					
Client ID:	**KCP4-SO-270-B-110506**					
Antimony	**7.4**	6.9	6010B	5-9-11	5-10-11	
Arsenic	**ND**	14	6010B	5-9-11	5-10-11	
Chromium	**22**	0.69	6010B	5-9-11	5-10-11	
Copper	**87**	1.4	6010B	5-9-11	5-10-11	
Lead	**140**	6.9	6010B	5-9-11	5-10-11	
Mercury	**0.92**	0.35	7471A	5-9-11	5-9-11	
Nickel	**41**	3.5	6010B	5-9-11	5-10-11	
Thallium	**ND**	3.5	6020	5-9-11	5-10-11	
Zinc	**170**	3.5	6010B	5-9-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-16					
Client ID:	**KCP4-SO-271-B-110506**					
Antimony	**ND**	5.4	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**24**	0.54	6010B	5-9-11	5-10-11	
Copper	**20**	1.1	6010B	5-9-11	5-10-11	
Lead	**ND**	5.4	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**41**	2.7	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.7	6020	5-9-11	5-10-11	
Zinc	**26**	2.7	6010B	5-9-11	5-10-11	
Lab ID:	05-065-17					
Client ID:	**KCP4-SO-272-B-110506**					
Antimony	**ND**	5.4	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**21**	0.54	6010B	5-9-11	5-10-11	
Copper	**21**	1.1	6010B	5-9-11	5-10-11	
Lead	**ND**	5.4	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**45**	2.7	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.7	6020	5-9-11	5-10-11	
Zinc	**28**	2.7	6010B	5-9-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-18					
Client ID:	**KCP4-SO-273-B-110506**					
Antimony	**ND**	5.6	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**23**	0.56	6010B	5-9-11	5-10-11	
Copper	**24**	1.1	6010B	5-9-11	5-10-11	
Lead	**ND**	5.6	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.28	7471A	5-9-11	5-9-11	
Nickel	**49**	2.8	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.8	6020	5-9-11	5-10-11	
Zinc	**33**	2.8	6010B	5-9-11	5-10-11	
Lab ID:	05-065-19					
Client ID:	**KCP4-SO-274-B-110506**					
Antimony	**ND**	5.4	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**26**	0.54	6010B	5-9-11	5-10-11	
Copper	**31**	1.1	6010B	5-9-11	5-10-11	
Lead	**5.9**	5.4	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**49**	2.7	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.7	6020	5-9-11	5-10-11	
Zinc	**35**	2.7	6010B	5-9-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-20					
Client ID:	**KCP4-SO-275-B-110506**					
Antimony	**ND**	5.5	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**24**	0.55	6010B	5-9-11	5-10-11	
Copper	**34**	1.1	6010B	5-9-11	5-10-11	
Lead	**10**	5.5	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**44**	2.7	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.7	6020	5-9-11	5-10-11	
Zinc	**84**	2.7	6010B	5-9-11	5-10-11	
Lab ID:	05-065-21					
Client ID:	**KCP4-SO-276-B-110506**					
Antimony	**ND**	5.4	6010B	5-9-11	5-10-11	
Arsenic	**ND**	11	6010B	5-9-11	5-10-11	
Chromium	**20**	0.54	6010B	5-9-11	5-10-11	
Copper	**20**	1.1	6010B	5-9-11	5-10-11	
Lead	**ND**	5.4	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**37**	2.7	6010B	5-9-11	5-10-11	
Thallium	**ND**	2.7	6020	5-9-11	5-10-11	
Zinc	**26**	2.7	6010B	5-9-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-22					
Client ID:	**KCP4-SO-277-S-110506**					
Antimony	**ND**	5.5	6010B	5-10-11	5-10-11	
Arsenic	**30**	11	6010B	5-10-11	5-10-11	
Chromium	**58**	0.55	6010B	5-10-11	5-10-11	
Copper	**140**	1.1	6010B	5-10-11	5-10-11	
Lead	**33**	5.5	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.28	7471A	5-9-11	5-9-11	
Nickel	**58**	2.8	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.8	6020	5-10-11	5-10-11	
Zinc	**360**	2.8	6010B	5-10-11	5-10-11	
Lab ID:	05-065-23					
Client ID:	**KCP4-SO-278-S-110506**					
Antimony	**ND**	5.5	6010B	5-10-11	5-10-11	
Arsenic	**16**	11	6010B	5-10-11	5-10-11	
Chromium	**60**	0.55	6010B	5-10-11	5-10-11	
Copper	**81**	1.1	6010B	5-10-11	5-10-11	
Lead	**18**	5.5	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**57**	2.7	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.7	6020	5-10-11	5-10-11	
Zinc	**190**	2.7	6010B	5-10-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-24					
Client ID:	**KCP4-SO-279-S-110506**					
Antimony	**ND**	5.4	6010B	5-10-11	5-10-11	
Arsenic	**25**	11	6010B	5-10-11	5-10-11	
Chromium	**77**	0.54	6010B	5-10-11	5-10-11	
Copper	**120**	1.1	6010B	5-10-11	5-10-11	
Lead	**37**	5.4	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**68**	2.7	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.7	6020	5-10-11	5-10-11	
Zinc	**440**	2.7	6010B	5-10-11	5-10-11	
Lab ID:	05-065-25					
Client ID:	**KCP4-SO-280-S-110506**					
Antimony	**ND**	5.5	6010B	5-10-11	5-10-11	
Arsenic	**24**	11	6010B	5-10-11	5-10-11	
Chromium	**35**	0.55	6010B	5-10-11	5-10-11	
Copper	**79**	1.1	6010B	5-10-11	5-10-11	
Lead	**29**	5.5	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**54**	2.7	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.7	6020	5-10-11	5-10-11	
Zinc	**290**	2.7	6010B	5-10-11	5-10-11	

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-26					
Client ID:	**KCP4-SO-281-B-110506**					
Antimony	**ND**	5.9	6010B	5-9-11	5-10-11	
Arsenic	**ND**	12	6010B	5-9-11	5-10-11	
Chromium	**18**	0.59	6010B	5-9-11	5-10-11	
Copper	**16**	1.2	6010B	5-9-11	5-10-11	
Lead	**ND**	5.9	6010B	5-9-11	5-10-11	
Mercury	**ND**	0.30	7471A	5-9-11	5-9-11	
Nickel	**20**	3.0	6010B	5-9-11	5-10-11	
Thallium	**ND**	3.0	6020	5-9-11	5-10-11	
Zinc	**30**	3.0	6010B	5-9-11	5-10-11	
Lab ID:	05-065-27					
Client ID:	**KCP4-SO-282-B-110506**					
Antimony	**ND**	5.6	6010B	5-10-11	5-10-11	
Arsenic	**ND**	11	6010B	5-10-11	5-10-11	
Chromium	**38**	0.56	6010B	5-10-11	5-10-11	
Copper	**38**	1.1	6010B	5-10-11	5-10-11	
Lead	**15**	5.6	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.28	7471A	5-9-11	5-9-11	
Nickel	**44**	2.8	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.8	6020	5-10-11	5-10-11	
Zinc	**130**	2.8	6010B	5-10-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-28					
Client ID:	**KCP4-SO-283-B-110506**					
Antimony	**ND**	5.5	6010B	5-10-11	5-10-11	
Arsenic	**ND**	11	6010B	5-10-11	5-10-11	
Chromium	**60**	0.55	6010B	5-10-11	5-10-11	
Copper	**29**	1.1	6010B	5-10-11	5-10-11	
Lead	**18**	5.5	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.28	7471A	5-9-11	5-9-11	
Nickel	**82**	2.8	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.8	6020	5-10-11	5-10-11	
Zinc	**77**	2.8	6010B	5-10-11	5-10-11	
Lab ID:	05-065-29					
Client ID:	**KCP4-SO-284-S-110506**					
Antimony	**ND**	5.4	6010B	5-10-11	5-10-11	
Arsenic	**15**	11	6010B	5-10-11	5-10-11	
Chromium	**47**	0.54	6010B	5-10-11	5-10-11	
Copper	**55**	1.1	6010B	5-10-11	5-10-11	
Lead	**13**	5.4	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**120**	2.7	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.7	6020	5-10-11	5-10-11	
Zinc	**150**	2.7	6010B	5-10-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-30					
Client ID:	**KCP4-SO-285-S-110506**					
Antimony	**ND**	5.5	6010B	5-10-11	5-10-11	
Arsenic	**ND**	11	6010B	5-10-11	5-10-11	
Chromium	**23**	0.55	6010B	5-10-11	5-10-11	
Copper	**28**	1.1	6010B	5-10-11	5-10-11	
Lead	**7.5**	5.5	6010B	5-10-11	5-10-11	
Mercury	**1.2**	0.55	7471A	5-9-11	5-9-11	
Nickel	**46**	2.7	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.7	6020	5-10-11	5-10-11	
Zinc	**49**	2.7	6010B	5-10-11	5-10-11	
Lab ID:	05-065-31					
Client ID:	**KCP4-SO-286-S-110506**					
Antimony	**ND**	5.7	6010B	5-10-11	5-10-11	
Arsenic	**ND**	11	6010B	5-10-11	5-10-11	
Chromium	**27**	0.57	6010B	5-10-11	5-10-11	
Copper	**38**	1.1	6010B	5-10-11	5-10-11	
Lead	**17**	5.7	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.28	7471A	5-9-11	5-9-11	
Nickel	**33**	2.8	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.8	6020	5-10-11	5-10-11	
Zinc	**100**	2.8	6010B	5-10-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-32					
Client ID:	**KCP4-SO-287-S-110506**					
Antimony	**ND**	5.4	6010B	5-10-11	5-10-11	
Arsenic	**ND**	11	6010B	5-10-11	5-10-11	
Chromium	**23**	0.54	6010B	5-10-11	5-10-11	
Copper	**31**	1.1	6010B	5-10-11	5-10-11	
Lead	**9.9**	5.4	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.27	7471A	5-9-11	5-9-11	
Nickel	**41**	2.7	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.7	6020	5-10-11	5-10-11	
Zinc	**59**	2.7	6010B	5-10-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-9&10-11
Date Analyzed:	5-9&10-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0509S3&MB0509S5

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.10
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: May 17, 2011
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Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-9&10-11
Date Analyzed:	5-9&10-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0509S4&MB0510S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.10
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-9&10-11
Date Analyzed: 5-9&10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-065-26

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**15.5**	**14.7**	5	0.50	
Copper	**13.4**	**12.7**	6	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.10	
Nickel	**16.9**	**16.6**	2	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**25.5**	**24.8**	3	2.5	

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-9&10-11
Date Analyzed: 5-9&10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-065-32

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**21.5**	**25.3**	16	0.50	
Copper	**29.1**	**35.4**	20	1.0	
Lead	**9.25**	**14.1**	41	5.0	C
Mercury	**ND**	**ND**	NA	0.10	
Nickel	**37.8**	**38.7**	2	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**54.9**	**62.9**	14	2.5	

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-9&10-11
Date Analyzed: 5-9&10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-065-26

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**84.1**	84	**86.2**	86	3	
Arsenic	100	**96.2**	96	**98.7**	99	3	
Chromium	100	**108**	93	**112**	96	3	
Copper	50.0	**60.4**	94	**63.0**	99	4	
Lead	250	**225**	90	**229**	92	2	
Mercury	0.500	**0.497**	99	**0.496**	99	0	
Nickel	100	**109**	92	**113**	96	4	
Thallium	50.0	**48.8**	98	**47.2**	94	3	
Zinc	100	**117**	91	**121**	96	4	

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Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-9&10-11
Date Analyzed: 5-9&10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-065-32

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**93.9**	94	**93.3**	93	1	
Arsenic	100	**107**	107	**104**	104	3	
Chromium	100	**123**	101	**119**	97	4	
Copper	50.0	**83.4**	109	**76.9**	96	8	
Lead	250	**244**	94	**237**	91	3	
Mercury	0.500	**0.549**	110	**0.490**	98	11	
Nickel	100	**135**	97	**128**	91	5	
Thallium	50.0	**50.4**	101	**51.0**	102	1	
Zinc	100	**157**	102	**145**	90	8	

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-9&10-11
Date Analyzed: 5-9&10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0509S3&SB0509S5

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**94.5**	95
Arsenic	6010B	100	**100**	100
Chromium	6010B	100	**103**	103
Copper	6010B	50.0	**53.4**	107
Lead	6010B	250	**247**	99
Mercury	7471A	0.500	**0.490**	98
Nickel	6010B	100	**103**	103
Thallium	6020	50.0	**51.8**	104
Zinc	6010B	100	**107**	107

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-9&10-11
Date Analyzed: 5-9&10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0509S4&SB0510S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**95.2**	95
Arsenic	6010B	100	**102**	102
Chromium	6010B	100	**106**	106
Copper	6010B	50.0	**54.5**	109
Lead	6010B	250	**251**	100
Mercury	7471A	0.500	**0.525**	105
Nickel	6010B	100	**106**	106
Thallium	6020	50.0	**52.8**	106
Zinc	6010B	100	**104**	104

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV051011P	1.00	0.989	1.1	+/- 10%
Arsenic	ICV051011P	1.00	1.03	-3.0	+/- 10%
Chromium	ICV051011P	1.00	1.06	-6.0	+/- 10%
Copper	ICV051011P	1.00	1.04	-4.0	+/- 10%
Lead	ICV051011P	1.00	1.05	-5.0	+/- 10%
Mercury	ICV050911Y	0.00500	0.00514	-2.8	+/- 10%
Nickel	ICV051011P	1.00	1.08	-8.0	+/- 10%
Thallium	ICV051011E	0.0500	0.0513	-2.6	+/- 10%
Zinc	ICV051011P	1.00	0.983	1.7	+/- 10%
Antimony	CCV1051011P	1.00	1.00	0	+/- 10%
Arsenic	CCV1051011P	1.00	1.00	0	+/- 10%
Chromium	CCV1051011P	1.00	1.03	-3.0	+/- 10%
Copper	CCV1051011P	1.00	1.05	-5.0	+/- 10%
Lead	CCV1051011P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV1050911Y	0.00500	0.00504	-0.80	+/- 20%
Nickel	CCV1051011P	1.00	1.04	-4.0	+/- 10%
Thallium	CCV1051011E	0.0400	0.0409	-2.3	+/- 10%
Zinc	CCV1051011P	1.00	0.995	0.50	+/- 10%
Antimony	CCV2051011P	1.00	1.02	-2.0	+/- 10%
Arsenic	CCV2051011P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV2051011P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2051011P	1.00	1.06	-6.0	+/- 10%
Lead	CCV2051011P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV2050911Y	0.00500	0.00542	-8.4	+/- 20%
Nickel	CCV2051011P	1.00	1.05	-5.0	+/- 10%
Thallium	CCV2051011E	0.0400	0.0405	-1.3	+/- 10%
Zinc	CCV2051011P	1.00	0.998	0.20	+/- 10%

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3051011P	1.00	1.06	-6.0	+/- 10%
Arsenic	CCV3051011P	1.00	1.00	0	+/- 10%
Chromium	CCV3051011P	1.00	1.05	-5.0	+/- 10%
Copper	CCV3051011P	1.00	1.07	-7.0	+/- 10%
Lead	CCV3051011P	10.0	10.6	-6.0	+/- 10%
Mercury	CCV3050911Y	0.00500	0.00511	-2.2	+/- 20%
Nickel	CCV3051011P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV3051011E	0.0400	0.0410	-2.5	+/- 10%
Zinc	CCV3051011P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV4051011P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV4051011P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV4051011P	1.00	1.05	-5.0	+/- 10%
Copper	CCV4051011P	1.00	1.06	-6.0	+/- 10%
Lead	CCV4051011P	10.0	10.6	-6.0	+/- 10%
Mercury	CCV4050911Y	0.00500	0.00500	0	+/- 20%
Nickel	CCV4051011P	1.00	1.06	-6.0	+/- 10%
Thallium	CCV4051011E	0.0400	0.0405	-1.3	+/- 10%
Zinc	CCV4051011P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV5051011P	1.00	0.994	0.60	+/- 10%
Arsenic	CCV5051011P	1.00	1.00	0	+/- 10%
Chromium	CCV5051011P	1.00	1.05	-5.0	+/- 10%
Copper	CCV5051011P	1.00	1.04	-4.0	+/- 10%
Lead	CCV5051011P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV5050911Y	0.00500	0.00529	-5.8	+/- 20%
Nickel	CCV5051011P	1.00	1.04	-4.0	+/- 10%
Thallium	CCV5051011E	0.0400	0.0413	-3.3	+/- 10%
Zinc	CCV5051011P	1.00	1.00	0	+/- 10%
Mercury	CCV6050911Y	0.00500	0.00550	-10	+/- 20%
Mercury	CCV7050911Y	0.00500	0.00515	-3.0	+/- 20%
Mercury	CCV8050911Y	0.00500	0.00523	-4.6	+/- 20%

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-065-12					
Client ID:	**KCP4-SO-267-S-110506**					
Lead	**13**	0.20	6010B	5-13-11	5-13-11	

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	5-12-11
Date Extracted:	5-13-11
Date Analyzed:	5-13-11
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0513T1

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 5-12-11
Date Extracted: 5-13-11
Date Analyzed: 5-13-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 05-065-12

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**13.5**	**13.8**	2	0.20	

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared: 5-12-11
Date Extracted: 5-13-11
Date Analyzed: 5-13-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 05-065-12

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10.0	**22.4**	89	**22.6**	92	1	

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
SPIKE BLANK QUALITY CONTROL

Date Prepared: 5-12-11
Date Extracted: 5-13-11
Date Analyzed: 5-13-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0513T1

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	10.0	**9.31**	93

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

TCLP LEAD
by EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV051311P	1.00	1.05	-5.0	+/- 10%
Lead	CCV1051311P	10.0	10.2	-2.0	+/- 10%
Lead	CCV2051311P	10.0	10.2	-2.0	+/- 10%
Lead	CCV3051311P	10.0	10.4	-4.0	+/- 10%

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

% MOISTURE

Date Analyzed: 5-9-11

Client ID	Lab ID	% Moisture
KCP4-SO-256-B-110506	05-065-01	5
KCP4-SO-257-S-110506	05-065-02	5
KCP4-SO-258-S-110506	05-065-03	8
KCP4-SO-259-S-110506	05-065-04	7
KCP4-SO-260-S-110506	05-065-05	10
KCP4-SO-261-B-110506	05-065-06	10
KCP4-SO-262-S-110506	05-065-07	5
KCP4-SO-263-S-110506	05-065-08	7
KCP4-SO-264-S-110506	05-065-09	6
KCP4-SO-265-S-110506	05-065-10	10
KCP4-SO-266-S-110506	05-065-11	9
KCP4-SO-267-S-110506	05-065-12	20
KCP4-SO-268-S-110506	05-065-13	8
KCP4-SO-269-S-110506	05-065-14	9
KCP4-SO-270-B-110506	05-065-15	28
KCP4-SO-271-B-110506	05-065-16	8
KCP4-SO-272-B-110506	05-065-17	7
KCP4-SO-273-B-110506	05-065-18	11
KCP4-SO-274-B-110506	05-065-19	8
KCP4-SO-275-B-110506	05-065-20	9
KCP4-SO-276-B-110506	05-065-21	8
KCP4-SO-277-S-110506	05-065-22	9
KCP4-SO-278-S-110506	05-065-23	9
KCP4-SO-279-S-110506	05-065-24	8
KCP4-SO-280-S-110506	05-065-25	9
KCP4-SO-281-B-110506	05-065-26	15
KCP4-SO-282-B-110506	05-065-27	11

Date of Report: May 17, 2011
Samples Submitted: May 7, 2011
Laboratory Reference: 1105-065
Project: 000105-01.09

% MOISTURE

Date Analyzed: 5-9-11

Client ID	Lab ID	% Moisture
KCP4-SO-283-B-110506	05-065-28	9
KCP4-SO-284-S-110506	05-065-29	7
KCP4-SO-285-S-110506	05-065-30	9
KCP4-SO-286-S-110506	05-065-31	12
KCP4-SO-287-S-110506	05-065-32	7

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 05-065

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	metals*	% Moisture
1	KCP4-SO-256-B-110506	05/06/11	1230	soil	1								X									X
2	KCP4-SO-257-S-110506		1232		1								X									
3	KCP4-SO-258-S-110506		1233		1								X									
4	KCP4-SO-259-S-110506		1236		1								X									
5	KCP4-SO-260-S-110506		1238		1								X									
6	KCP4-SO-261-B-110506		1241		1								X									
7	KCP4-SO-262-S-110506		1242		1								X									
8	KCP4-SO-263-S-110506		1243		1								X									
9	KCP4-SO-264-S-110506		1244		1								X									
10	KCP4-SO-265-S-110506		1245		1								X									

	Signature	Company	Date	Time
Relinquished	[signature]	AQ	5/7/11	0950
Received	[signature]	[illegible]	5/7/11	950
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn
⊗ Added 5/9/11. DB (5 day TAT)
○ Added 5/11/11. DB 4:30 PM. (1 Day TAT)

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
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Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: Kimberly Clark phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 05-065

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*		Dioxin/Furans 8290	TCLP LEAD		% Moisture
11	KCP4-SO-266-S-110506	05/06/11	1248	soil	1								X													X
12	KCP4-SO-267-S-110506		1320		1				X												X			O		
13	KCP4-SO-268-S-110506		1322		1				X												X					
14	KCP4-SO-269-S-110506		1325		1				X												X					
15	KCP4-SO-270-B-110506		1328		1				X												X					
16	KCP4-SO-271-B-110506		1425		1				X												X					
17	KCP4-SO-272-B-110506		1428		1				X												X					
18	KCP4-SO-273-B-110506		1432		1				X												X					
19	KCP4-SO-274-B-110506		1435		1				X												X	⊗				
20	KCP4-SO-275-B-110506		1440		1				X												X					

	Signature	Company	Date	Time
Relinquished		AQ	5/7/11	0950
Received		QEA	5/7/11	950
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn
⊗ Added 5/9/11. DB 3:21 pm. (5 day TAT)
O Added 5/11/11. DB 4:38 pm (1 day TAT)

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vondrup

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 05-065

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*						% Moisture
21	KCP4-SO-276-B-110506	05/06/11	1442	soil	1				X												X						X
22	KCP4-SO-277-S-110506		1448		1				X												X						
23	KCP4-SO-278-S-110506		1450		1				X												X						
24	KCP4-SO-279-S-110506		1453		1				X												X						
25	KCP4-SO-280-S-110506		1457		1				X												X						
26	KCP4-SO-281-B-110506		1535		1				X												X						
27	KCP4-SO-282-B-110506		1538		1				X												X						
28	KCP4-SO-283-B-110506		1542		1				X												X						
29	KCP4-SO-284-S-110506		1543		1				X												X						
30	KCP4-SO-285-S-110506		1548		1				X												X						

	Signature	Company	Date	Time
Relinquished		AQ	5/7/11	0950
Received		QGate FED	5/7/11	950
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Mg, Ni, Ti, Zn

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 05-065

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*						% Moisture
31	KCP4-SO-286-S-110506	05/04/11	1550	Soil					X												X						X
32	KCP4-SO-287-S-110506	↓	1555	↓					X												X						↓

GW 5/7/11

	Signature	Company	Date	Time
Relinquished		AQ	5/7/11	0950
Received		OnSite Env.	5/7/11	950
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.05

OnSite Project Number: 05-065

Initiated by: Blair Goodrow

Date Initiated: 5/7/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	**Yes**	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	**Yes**	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	**Yes**	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	**Yes**	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	**Yes**	No	Temperature: 4 °C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	**Client**	**Courier**	**UPS/FedEx**	**OSE Pickup**	**Other**

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	**Yes**	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	**Yes**	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	**Yes**	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	**Yes**	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	**Yes**	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	**No**	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	**No**		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	**No**		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	**Yes**	No		1 2 3 4
3.4 Have the samples been correctly preserved?	**Yes**	No	**N/A**	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	**Yes**	No	**N/A**	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	**Yes**	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	**No**		1 2 3 4
3.8 Was method 5035A used?	**Yes**	No	**N/A**	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		**N/A**	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Pace Analytical™

www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

David Baumeister
Onsite Environmental, Inc.
14648 NE 95th Street
Redmond WA 98052

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10156791
Sample Receipt Date: 05/10/2011
Client Project #: 000105-01.09
Client Sub PO #: N/A
State Cert #: C755

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 4 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

May 17, 2011

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
May 17, 2011

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of OnSite Environmental, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were based on signal-to-noise measurements.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 54-111%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These were below the calibration range of the method. The level reported for 1,2,3,4,7,8-HxCDF in the field sample was similar to the corresponding blank level and was flagged "B" on the results table; this may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds were generally recovered at 91-128%, with relative precent differences of 1.1-17.4%. The background-subtracted OCDD recovery value obtained for the initial matrix spike sample was above the 70-130% target range; this may indicate a high bias for this congener in these determinations.

The first PeCDD and HxCDF isomers eluted before the acquisition start times for the second and third groups in the window defining mix (WDM) analysis F110501B_01. This runfile was associated with the 05/01/2011 initial calibration analyses, and the affected isomers were not required for the calibration analyses. The group acquisition times were subsequently adjusted and set to the proper windows prior to the analyses of the sample extracts.

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	
Arizona	AZ0014	Nevada	MN000642010A
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New Mexico	MN00064
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 5	WD-15J	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Ohio VAP	CL101
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN200001-005
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennesee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	LA0900016	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

Pace Analytical Services, Inc.
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2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

WHO2005 Factors

Compound	TEF
2,3,7,8-TCDD	1.000000
1,2,3,7,8-PeCDD	1.000000
1,2,3,4,7,8-HxCDD	0.100000
1,2,3,6,7,8-HxCDD	0.100000
1,2,3,7,8,9-HxCDD	0.100000
1,2,3,4,6,7,8-HpCDD	0.010000
OCDD	0.000300
Total TCDD	0.000000
Total PeCDD	0.000000
Total HxCDD	0.000000
Total HpCDD	0.000000
2,3,7,8-TCDF	0.100000
1,2,3,7,8-PeCDF	0.030000
2,3,4,7,8-PeCDF	0.300000
1,2,3,4,7,8-HxCDF	0.100000
1,2,3,6,7,8-HxCDF	0.100000
2,3,4,6,7,8-HxCDF	0.100000
1,2,3,7,8,9-HxCDF	0.100000
1,2,3,4,6,7,8-HpCDF	0.010000
1,2,3,4,7,8,9-HpCDF	0.010000
OCDF	0.000300
Total TCDF	0.000000
Total PeCDF	0.000000
Total HxCDF	0.000000
Total HpCDF	0.000000

Appendix A

Sample Management

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Sample ID Cross Reference

Client Sample ID	Pace Sample ID	Date Received	Sample Type
KCP4-SO-274-B-110506	10156791001	05/10/2011	Solid
KCP4-SO-274-B-110506-MS	10156791001-MS	05/10/2011	Solid
KCP4-SO-274-B-110506-MSD	10156791001-MSD	05/10/2011	Solid

REPORT OF LABORATORY ANALYSIS

Report No.....10156791_8290

RUSH

10156791 485

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 05-065

Subcontract Laboratory: Pace Analytical Service, Inc.

Contact Person: Scott Unze / Dioxin Manger

Address: 1700 Elm St. Ste. 200 Minneapolis, MN 55414

Phone Number: (612) 607-6383

Date/Time: _____

Turnaround Request:

1 Day 2 Day 3 Day

Standard

Other: 5 day

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 000105-0109

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
	KCP4-SO-274-B-110506	5/6/11	1435	S	1	DIOXIN/FURANS (WA FORMAT) 001

LEVEL IV
SPECIAL INSTRUCTIONS
CLIENT QA/QC

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:		OSE	5/9/11	1550	SPECIAL FORMAT EDDs
Received by:		UPS			
Relinquished by:		Shannon Davis 5-10-11			
Received by:	Shannon Davis	Pace	5-10-11	0903	
Relinquished by:					
Received by:					PLEASE RETURN COOLER BLK

Page 8 of 228

Sample Condition Upon Receipt

Pace Analytical

Client Name: Onsite Env. **Project #** 10156791

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 1Z684E1W0198869856

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☒ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ☒ No _____

Thermometer Used 80344042 or 110425 **Type of Ice:** Wet (Blue) None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0°c **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: DAS 5-10-11

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SC		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 05/10/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR.

F-L213Rev.00, 05Aug2009

Pace Analytical Services, Inc.
1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

DIOXIN EXTRACTION WORKSHEET

Non Aqueous

Extraction Batch : EB-10879

Pace Analytical Services, Inc.

Method 8290 1613B TO9 M23

Matrix PUF XAD Solid Oil

Tissue Other_____

Spiked By _____

Spike Witness _____

Client(s):

Extraction On (Date/Time):
5/11/2011 4:15:00 PM

Extraction Off (Date/Time):
5/12/2011 12:00:00 PM

EB-10879

	Sample #	Internal Stds	Native Stds	Extracted mL or g	#AcidRinse	Buffer Soln	Glassware Set	Location	Comments
1	BLANK-28907			20.20					
2	LCS-28908			20.00					
3	10156791001-MS			10.90				Rcving	8290,T-O,rush,chromerge
4	10156791001-MSD			11.10				Rcving	8290,T-O,rush,chromerge
5	4045398001			13.00				10 0507 01	1613,TD/F,Rush,chromerge
6	4045398002			12.20				10 0507 01	1613,TD/F,Rush,chromerge
7	10156791001			10.80				Rcving	8290,T-O,rush,chromerge
8	10156494001			22.60				10 0505 01	1613,T-O,prescreen
9	10156756001			20.70				Rcving	8290,T-O,1668,EU req
10	10156631001			48.30				10 0506-04	1613 T-O, 1668-WHO, prescree
11	10156638001			39.20				10 0506-05	1613 T-O, 1668-WHO, prescree
12	10156581001			0.60					8290 T-O, prescreen
13	6098637001			47.00				Rcving	8290 T-O, 5-day
14	6098637002			45.60				Rcving	8290 T-O, 5-day
15	6098637003			45.60				Rcving	8290 T-O, 5-day
16	6098637004			45.10				Rcving	8290 T-O, 5-day

Standards:

Internal Std FS-I-8515-062
Native FS-N-8515-021
Cl-37 Std DWCL4-8515-063
Recovery Std FS-R-8515-056
Tridecane
Mineral Oil
Others

☐ **Silica:**
Date 5/12/2011
Initials EKH
Hexane Lot # 106327
Dispenser ID
Neutral Batch # 172
Basic Batch # 232
Acid Batch # 354

☐ **Alumina:**
Date 5/13/2011
Initials CTS/EKH
Hexane Lot # 106327
Dispenser ID
60% Batch # 1382
Dispenser ID
Alumina Lot

☐ **Carbon:**
Date 5/13/2011
Initials CTS
Toluene Lot # 103253
Dispenser ID
75% Batch # 267
Dispenser ID
50% Batch # 396
Dispenser ID
Hexane Lot # 106327
Dispenser ID

Extract Solvents:
Toluene Lot # 103253
Hexane Lot # NA
MeCl Lot # NA

☐ **Acid Base:**
H2SO4 Lot # 108088
Buffer Soln # 131

QC Matrix Lot/Batch# _____

Extracts Relinquished By: _____ **Received By:** _____ **Date:** _____

Extraction Notes

1. 0.6 g of sample 12 weighed into 40 mL vial, diluted with hexane, and taken through cleanup steps (no soxhlet extraction). TDP 5/14/11

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Solid Sample Moisture Log

Sample ID	Container Weight	Adjusted Wet Weight	Adjusted Dry Weight	% Moisture	% Solids	Amount Extracted	Assayed
BLANK-28907	0.00	0.00	0.00	0.00	100.00	20.20	12/30/99
LCS-28908	0.00	0.00	0.00	0.00	100.00	20.00	12/30/99
10156791001-MS	0.00	0.00	0.00	7.00	93.00	10.90	5/11/11 JDL
10156791001-MSD	0.00	0.00	0.00	7.00	93.00	11.10	5/11/11 JDL
4045398001	0.00	0.00	0.00	9.80	100.00	13.00	5/7/11 IR00
4045398002	0.00	0.00	0.00	9.90	100.00	12.20	5/7/11 IR00
10156791001	0.99	8.79	8.18	7.00	93.00	10.80	5/11/11 JDL
10156494001	1.01	7.66	3.42	55.30	44.70	22.60	5/10/11 JDL
10156756001	0.00	0.00	0.00	0.00	100.00	20.70	12/30/99
10156631001	0.00	0.00	0.00	79.20	20.80	48.30	5/11/11 JDL
10156638001	0.00	0.00	0.00	73.80	26.20	39.20	5/11/11 JDL
10156581001	0.00	0.00	0.00	0.00	100.00	0.60	12/30/99
6098637001	1.02	7.37	5.07	31.24	100.00	47.00	12/30/99
6098637002	0.99	7.49	6.55	12.56	100.00	45.60	12/30/99
6098637003	1.00	7.54	5.64	25.25	100.00	45.60	12/30/99
6098637004	1.01	8.64	6.22	27.94	100.00	45.10	12/30/99

REPORT OF LABORATORY ANALYSIS

Client names have been blacked out on notebook pages in order to preserve client confidentiality

Analysis Key Code List

- = Not used

✔ = Worked up

= See comment # below

Li = Liner, replace or clean

Ba = Baseplate, change

SyB = Syringe, replace – bent

SyP = Syringe, replace – plugged

SyO = Syringe, replace – other

IS = Injector Septum, replace

BS = Batch Septum, replace

Fi = Filament, replace

Co = Contacts, adjust

Ca = re-Calibrate

Tu = Tune

TC = Tune and Calibrate

CC () = Cut Column (length cut)

CO = Carry-Over possible

RRM = ReRun - Matrix

RRLM = ReRun – Lock Mass

RRBI = ReRun – Bad Injection

RRRT = ReRun – Retention Time shift

RR>S = Rerun – need better Sensitivity

Re = Re-extract

AS = Adjust Slits

LC = Leak Check

RB = Re-Boot system

CiS = Cleaned inner Source

CoS = Cleaned outer Source

AiS = Alternate inner Source

AoS = Alternate outer Source

<Y = Adjust Y focus down

>Y = Adjust Y focus up

Di () = Dilution needed (amount needed)

FE = Front End – liner, baseplate and septum

	File Name	File Text	Method	MS File	Inlet File	Bottle	Vol
1	P110413A_01	CAL CS3/CPM-7604-115 - SMT	1613B/8290	dioxfur	dioxfur	Tray01:2	1.0
2	P110413A_02	CAL CS2-7604-077 - SMT	1613B/8290	dioxfur	dioxfur	Tray01:30	1.0
3	P110413A_03	CAL CS1-7604-070 - SMT	1613B/8290	dioxfur	dioxfur	Tray01:31	1.0
4	P110413A_04	CAL CS5-7604-080 - SMT	1613B/8290	dioxfur	dioxfur	Tray01:32	1.0
5	P110413A_05	CAL CS4-7604-079 - SMT	1613B/8290	dioxfur	dioxfur	Tray01:33	1.0
6	P110413A_06	BLANK NONANE - SMT	HOUSE	dioxfur	dioxfur	Tray01:3	1.0
7	P110413A_07	LCS STD-28200 - SMT 2nd	1613B/8290	dioxfur	dioxfur	Tray01:34	1.0
8	P110413A_08	BLANK NONANE - SMT	HOUSE	dioxfur	dioxfur	Tray01:3	1.0
9	P110413A_09	CAL STD-27975 - SMT 2nd	23	dioxfur	dioxfur	Tray01:2	1.0
10	P110413A_10	CAL CS3/CPM-7604-115 - SMT	1613B/8290	dioxfur	dioxfur	Tray01:2	1.0
11	P110413A_11	CAL CS3-7604-105 - SMT	23	dioxfur	dioxfur	Tray01:5	1.0
12	P110413A_12	LCS LCS-28518 - SMT	23	dioxfur	dioxfur	Tray01:6	1.0
13	P110413A_13	LCS LCSD-28519 - SMT	23	dioxfur	dioxfur	Tray01:7	1.0
14	P110413A_14	BLANK BLANK-27770-10X - SMT	HOUSE	dioxfur	dioxfur	Tray01:4	1.0
15	P110413A_15	BLANK BLANK-28517 - SMT	23	dioxfur	dioxfur	Tray01:8	1.0
16	P110413A_16	SAMP 10153433001 - SMT [redacted]	23	dioxfur	dioxfur	Tray01:9	1.0
17	P110413A_17	SAMP 10153433002 - SMT [redacted]	23	dioxfur	dioxfur	Tray01:10	1.0
18	P110413A_18	SAMP 10153433003 - SMT [redacted]	23	dioxfur	dioxfur	Tray01:11	1.0
19	P110413A_19	SAMP 10153340001 - SMT [redacted]	23	dioxfur	dioxfur	Tray01:12	1.0
20	P110413A_20	SAMP 10153340002 - SMT [redacted]	23	dioxfur	dioxfur	Tray01:13	1.0
21	P110413A_21	SAMP 10153340003 - SMT [redacted]	23	dioxfur	dioxfur	Tray01:14	1.0
22	P110413A_22	SAMP 10153340004 - SMT [redacted]	23	dioxfur	dioxfur	Tray01:16	1.0
23	P110413A_23	BLANK NONANE - SMT hist high	HOUSE	dioxfur	dioxfur	Tray01:3	1.0

Jmm 4/22/11

Sample List Report **MassLynx 4.0 SCN480 SCN533** 10MSNRE5 5/1/11

Sample List: C:\MassLynx\Default.pro\Sampledb\F110501B.spl
Last Modified: Sunday, May 01, 2011 6:43:33 PM Central Standard Time
Printed: Sunday, May 01, 2011 6:44:12 PM Central Standard Time

Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject
1	F110501B_01	√CAL CS3/CPM-7604-115 - BAL USA209122H	8290/1613B	dioxfur	dioxfur	1	1.000000
2	F110501B_03	√CAL CS2-7604-077 - BAL set windows	8290/1613B	dioxfur	dioxfur	4	1.000000
3	F110501B_04	√CAL CS1-7604-070 - BAL	8290/1613B	dioxfur	dioxfur	5	1.000000
4	F110501B_05	√CAL CS5-7604-080 - BAL	8290/1613B	dioxfur	dioxfur	6	1.000000
5	F110501B_06	√CAL CS4-7604-079 - BAL	8290/1613B	dioxfur	dioxfur	7	1.000000
6	F110501B_07	√CAL CS3/CPM-7604-115 - BAL	8290/1613B	dioxfur	dioxfur	1	1.000000
7	F110501B_08	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	2	1.000000
8	F110501B_09	SAMP STD-28200 - BAL	8290/1613B	dioxfur	dioxfur	8	1.000000

SWH 5/6/11

Sample List Report **MassLynx 4.1** 10MS+TRO 9 5/14/11

Sample List: C:\MassLynx\Default.pro\Sampledb\P110514B.SPL
Last Modified: Saturday, May 14, 2011 18:18:35 Central Daylight Time
Printed: Saturday, May 14, 2011 18:23:06 Central Daylight Time

	File Name	File Text	Method	MS File	Inlet File	Bottle	Vol
1	P110514B_01	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray01:3	1.0
2	P110514B_02	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray01:3	1.0
3	P110514B_03	SAMP 10157047001 - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:17	1.0
4	P110514B_04	SAMP 10157047001-MS - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:18	1.0
5	P110514B_05	SAMP 10157047001-MSD - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:19	1.0
6	P110514B_06	BLANK NONANE - BAL poss high	HOUSE	dioxfur	dioxfur	Tray01:3	1.0
7	P110514B_07	CAL CS3/CPM-7604-115 - BAL	8290/1613B	dioxfur	dioxfur	Tray01:2	1.0

pass all

final 5/17/11

Sample List Report **MassLynx 4.0 SCN480 SCN533** 10 minutes 5/15/11

Sample List: C:\MassLynx\Default.pro\Sampledb\F110515B.spl
Last Modified: Sunday, May 15, 2011 3:22:00 PM Central Daylight Time
Printed: Sunday, May 15, 2011 3:22:17 PM Central Daylight Time

Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Vial	Inject
1	F110515B_01	CAL CS3/CPM-7604-115 - BAL Filmnt, TC	8290/1613B	dioxfur	dioxfur	1	1.000000
2	F110515B_02	BLANK BLANK-27770 - BAL 10X	HOUSE	dioxfur	dioxfur	3	1.000000
3	F110515B_03	SAMP 10157082001 - BAL [redacted]	1613-TD	dioxfur	dioxfur	7	1.000000
4	F110515B_04	SAMP 4045398001 - BAL [redacted]	1613-TD/F	dioxfur	dioxfur	8	1.000000
5	F110515B_05	SAMP 4045398002 - BAL [redacted]	1613-TD/F	dioxfur	dioxfur	9	1.000000
6	F110515B_06	SAMP 10156512001 - BAL [redacted]	1613-TD/F	dioxfur	dioxfur	10	1.000000
7	F110515B_07	SAMP 10156636001 - BAL [redacted]	1613B	dioxfur	dioxfur	11	1.000000
8	F110515B_08	SAMP 10156138006 - BAL [redacted]	1613B	dioxfur	dioxfur	12	1.000000
9	F110515B_09	SAMP 10156631001 - BAL [redacted]	1613B	dioxfur	dioxfur	13	1.000000
10	F110515B_10	SAMP 10156742001 - BAL [redacted]	1613-TD	dioxfur	dioxfur	14	1.000000
11	F110515B_11	SAMP 10156791001 - BAL ONS	8290	dioxfur	dioxfur	15	1.000000
12	F110515B_12	SAMP 10156791001-MS - BAL ONS	8290	dioxfur	dioxfur	16	1.000000
13	F110515B_13	SAMP 10156791001-MSD - BAL ONS	8290	dioxfur	dioxfur	17	1.000000
14	F110515B_14	BLANK NONANE - BAL hist high	HOUSE	dioxfur	dioxfur	2	1.000000
15	F110515B_15	CAL CS3/CPM-7604-115 - BAL	8290/1613B	dioxfur	dioxfur	1	1.000000

pass all

PASSED ALL

5/17/11

Sample List Report **MassLynx 4.1** 10MSHR09 5/15/11

Sample List: C:\MassLynx\Default.pro\Sampledb\P110515A.SPL
Last Modified: Sunday, May 15, 2011 13:45:15 Central Daylight Time
Printed: Sunday, May 15, 2011 13:47:00 Central Daylight Time

Page Position (1, 1)

	File Name	File Text	Method	MS File	Inlet File	Bottle	Vol	
1	P110515A_01	✓LCS LCS-28908 - BAL	8290/1613	dioxfur	dioxfur	Tray01:30	1.0	
2	P110515A_02	✓LCS LCS-28947 - BAL	8290/1613/DW	dioxfur	dioxfur	Tray01:31	1.0	
3	P110515A_03	✓BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray01:3	1.0	
4	P110515A_04	✓SAMP 10156826001 - BAL [redacted]	1613-TD	dioxfur	dioxfur	Tray01:32	1.0	
5	P110515A_05	✓SAMP 10157081001 - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:33	1.0	
6	P110515A_06	✓SAMP 10157081002 - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:34	1.0	
7	P110515A_07	✓BLANK BLANK-28946 - BAL	8290/1613/DW	dioxfur	dioxfur	Tray01:35	1.0	
8	P110515A_08	✓BLANK BLANK-28907 - BAL	8290/1613B	dioxfur	dioxfur	Tray01:36	1.0	
9	P110515A_09	✓SAMP 6098637001 - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:37	1.0	
10	P110515A_10	SAMP 6098637002 - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:38	1.0	
11	P110515A_11	SAMP 6098637003 - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:39	1.0	
12	P110515A_12	SAMP 6098637004 - BAL [redacted]	8290	dioxfur	dioxfur	Tray01:40	1.0	
13	P110515A_13	BLANK NONANE - BAL poss high	HOUSE	dioxfur	dioxfur	Tray01:3	1.0	
14	P110515A_14	✓CAL CS3/CPM-7604-115 - BAL	8290/1613B	dioxfur	dioxfur	Tray01:2	1.0	– Passed All

MM 5/17/11

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Onsite Environmental, Inc.

Client's Sample ID	KCP4-SO-274-B-110506		
Lab Sample ID	10156791001		
Filename	F110515B_11		
Injected By	BAL		
Total Amount Extracted	10.8 g	Matrix	Solid
% Moisture	7.0	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	05/06/2011 14:35
ICAL ID	F110501	Received	05/10/2011 09:03
CCal Filename(s)	F110515B_01 & F110515B_15	Extracted	05/11/2011 16:15
Method Blank ID	BLANK-28907	Analyzed	05/15/2011 22:24

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.30	-----	0.130	J	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	1.60	-----	0.130		2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	ND	-----	0.220		2,3,4,7,8-PeCDF-13C	2.00	98
Total TCDD	1.60	-----	0.220		1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	103
1,2,3,7,8-PeCDF	0.13	-----	0.130	J	1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	0.27	-----	0.130	J	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	1.90	-----	0.130	J	1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	111
1,2,3,7,8-PeCDD	0.17	-----	0.150	J	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	2.10	-----	0.150	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	0.22	-----	0.083	BJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	-----	0.37	0.085	I	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	-----	0.12	0.100	I			
1,2,3,7,8,9-HxCDF	ND	-----	0.120		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.40	-----	0.098	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.21	-----	0.120	J	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	-----	0.45	0.160	I			
1,2,3,7,8,9-HxCDD	0.23	-----	0.160	J			
Total HxCDD	4.00	-----	0.150	J			
1,2,3,4,6,7,8-HpCDF	2.40	-----	0.130	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.29	-----	0.150	J	Equivalence: 0.70 ng/Kg		
Total HpCDF	9.90	-----	0.140		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	14.00	-----	0.200				
Total HpCDD	29.00	-----	0.200				
OCDF	11.00	-----	0.530				
OCDD	140.00	-----	0.450				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
B = Less than 10x higher than method blank level
I = Interference present

REPORT OF LABORATORY ANALYSIS

Appendix C

QC and Calibration Results Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-28907	Matrix	Solid
Filename	P110515A_08	Dilution	NA
Total Amount Extracted	20.2 g	Extracted	05/11/2011 16:15
ICAL ID	P110413	Analyzed	05/15/2011 18:25
CCal Filename(s)	P110514B_07 & P110515A_14	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.060		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	0.060		2,3,7,8-TCDD-13C	2.00	92
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.063		2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	-----	0.063		1,2,3,7,8-PeCDD-13C	2.00	84
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	-----	0.048		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.037		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.042		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	0.060		1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	-----	0.060		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	0.100	-----	0.043	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	0.062	-----	0.042	J	OCDD-13C	4.00	41
2,3,4,6,7,8-HxCDF	0.053	-----	0.047	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.058		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.320	-----	0.048	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.062		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	0.054				
1,2,3,7,8,9-HxCDD	ND	-----	0.045				
Total HxCDD	ND	-----	0.054				
1,2,3,4,6,7,8-HpCDF	-----	0.190	0.055	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.063		Equivalence: 0.10 ng/Kg		
Total HpCDF	0.120	-----	0.059	J	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	-----	0.077	0.062	I			
Total HpCDD	ND	-----	0.062				
OCDF	ND	-----	0.130				
OCDD	0.250	-----	0.130	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-28908		
Filename	P110515A_01	Matrix	Solid
Total Amount Extracted	20.0 g	Dilution	NA
ICAL ID	P110413	Extracted	05/11/2011 16:15
CCal Filename(s)	P110514B_07 & P110515A_14	Analyzed	05/15/2011 13:02
Method Blank ID	BLANK-28907	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.0	72
Total TCDF				2,3,7,8-TCDD-13C	2.0	84
				1,2,3,7,8-PeCDF-13C	2.0	68
2,3,7,8-TCDD	0.20	0.18	92	2,3,4,7,8-PeCDF-13C	2.0	83
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	69
				1,2,3,4,7,8-HxCDF-13C	2.0	91
1,2,3,7,8-PeCDF	1.0	1.0	103	1,2,3,6,7,8-HxCDF-13C	2.0	92
2,3,4,7,8-PeCDF	1.0	1.0	101	2,3,4,6,7,8-HxCDF-13C	2.0	92
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	82
				1,2,3,4,7,8-HxCDD-13C	2.0	93
1,2,3,7,8-PeCDD	1.0	0.92	92	1,2,3,6,7,8-HxCDD-13C	2.0	93
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	79
				1,2,3,4,7,8,9-HpCDF-13C	2.0	72
1,2,3,4,7,8-HxCDF	1.0	0.99	99	1,2,3,4,6,7,8-HpCDD-13C	2.0	77
1,2,3,6,7,8-HxCDF	1.0	1.0	103	OCDD-13C	4.0	50
2,3,4,6,7,8-HxCDF	1.0	0.99	99			
1,2,3,7,8,9-HxCDF	1.0	1.0	101	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	0.93	93	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	1.0	0.96	96			
1,2,3,7,8,9-HxCDD	1.0	0.91	91			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	102			
1,2,3,4,7,8,9-HpCDF	1.0	0.97	97			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.91	91			
Total HpCDD						
OCDF	2.0	2.2	109			
OCDD	2.0	2.1	103			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range
Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spiked Sample Report

Client - Onsite Environmental, Inc.

Client's Sample ID	KCP4-SO-274-B-110506-MS		
Lab Sample ID	10156791001-MS		
Filename	F110515B_12	Matrix	Solid
Total Amount Extracted	10.9 g	Dilution	NA
ICAL ID	F110501	Extracted	05/11/2011 16:15
CCal Filename(s)	F110515B_01 & F110515B_15	Analyzed	05/15/2011 23:13
Method Blank ID	BLANK-28907	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	119	2,3,7,8-TCDF-13C	2.00	86
				2,3,7,8-TCDD-13C	2.00	93
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	0.20	0.19	95	2,3,4,7,8-PeCDF-13C	2.00	88
				1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	1.00	1.13	113	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	1.00	1.10	110	2,3,4,6,7,8-HxCDF-13C	2.00	95
				1,2,3,7,8,9-HxCDF-13C	2.00	92
				1,2,3,4,7,8-HxCDD-13C	2.00	117
1,2,3,7,8-PeCDD	1.00	1.00	100	1,2,3,6,7,8-HxCDD-13C	2.00	84
				1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	1.00	1.02	102	1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	1.00	1.09	109	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	1.00	1.07	107			
1,2,3,7,8,9-HxCDF	1.00	1.10	110	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.00	100	2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	1.00	1.07	107			
1,2,3,7,8,9-HxCDD	1.00	0.95	95			
1,2,3,4,6,7,8-HpCDF	1.00	1.14	114			
1,2,3,4,7,8,9-HpCDF	1.00	1.05	105			
1,2,3,4,6,7,8-HpCDD	1.00	1.36	136			
OCDF	2.00	2.33	117			
OCDD	2.00	4.83	242			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spiked Sample Report

Client - Onsite Environmental, Inc.

Client's Sample ID	KCP4-SO-274-B-110506-MSD		
Lab Sample ID	10156791001-MSD		
Filename	F110515B_13	Matrix	Solid
Total Amount Extracted	11.1 g	Dilution	NA
ICAL ID	F110501	Extracted	05/11/2011 16:15
CCal Filename(s)	F110515B_01 & F110515B_15	Analyzed	05/16/2011 00:01
Method Blank ID	BLANK-28907	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	121	2,3,7,8-TCDF-13C	2.00	89
				2,3,7,8-TCDD-13C	2.00	96
				1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	0.20	0.19	97	2,3,4,7,8-PeCDF-13C	2.00	93
				1,2,3,7,8-PeCDD-13C	2.00	94
				1,2,3,4,7,8-HxCDF-13C	2.00	111
1,2,3,7,8-PeCDF	1.00	1.10	110	1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	1.00	1.07	107	2,3,4,6,7,8-HxCDF-13C	2.00	100
				1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	114
1,2,3,7,8-PeCDD	1.00	0.98	98	1,2,3,6,7,8-HxCDD-13C	2.00	94
				1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	1.00	1.00	100	1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	1.00	1.07	107	OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	1.00	1.06	106			
1,2,3,7,8,9-HxCDF	1.00	1.05	105	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.03	103	2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	1.00	1.04	104			
1,2,3,7,8,9-HxCDD	1.00	0.89	89			
1,2,3,4,6,7,8-HpCDF	1.00	1.15	115			
1,2,3,4,7,8,9-HpCDF	1.00	1.02	102			
1,2,3,4,6,7,8-HpCDD	1.00	1.22	122			
OCDF	2.00	2.37	119			
OCDD	2.00	4.06	203			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - Onsite Environmental, Inc.

Client Sample ID	KCP4-SO-274-B-110506			Dry Weights	
Lab Sample ID	10156791001	Sample Filename	F110515B_11	Sample Amount	10.0 g
MS ID	10156791001-MS	MS Filename	F110515B_12	MS Amount	10.1 g
MSD ID	10156791001-MSD	MSD Filename	F110515B_13	MSD Amount	10.3 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.301	0.20	0.24	0.24	2.1	117	120	2.1
2,3,7,8-TCDD	0.000	0.20	0.19	0.19	1.6	95	97	1.6
1,2,3,7,8-PeCDF	0.134	1.00	1.13	1.10	2.5	113	110	2.5
2,3,4,7,8-PeCDF	0.268	1.00	1.10	1.07	2.3	109	107	2.3
1,2,3,7,8-PeCDD	0.171	1.00	1.00	0.98	1.4	99	98	1.4
1,2,3,4,7,8-HxCDF	0.215	1.00	1.02	1.00	2.1	102	100	2.1
1,2,3,6,7,8-HxCDF	0.000	1.00	1.09	1.07	1.7	109	107	1.7
2,3,4,6,7,8-HxCDF	0.000	1.00	1.07	1.06	1.1	107	105	1.1
1,2,3,7,8,9-HxCDF	0.000	1.00	1.10	1.05	4.1	110	105	4.1
1,2,3,4,7,8-HxCDD	0.212	1.00	1.00	1.03	2.2	100	102	2.2
1,2,3,6,7,8-HxCDD	0.000	1.00	1.07	1.04	2.8	107	104	2.8
1,2,3,7,8,9-HxCDD	0.227	1.00	0.95	0.89	7.1	95	88	7.1
1,2,3,4,6,7,8-HpCDF	2.386	1.00	1.14	1.15	1.1	111	113	1.1
1,2,3,4,7,8,9-HpCDF	0.295	1.00	1.05	1.02	2.5	104	102	2.5
1,2,3,4,6,7,8-HpCDD	13.797	1.00	1.36	1.22	11.3	122	107	12.9
OCDF	10.983	2.00	2.33	2.37	1.7	111	113	1.7
OCDD	144.471	2.00	4.83	4.06	17.4	168	128	27.0

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference
NA = Not Applicable
NC = Not Calculated

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

Method 8290/1613
Initial Calibration (ICAL) - Response Factor Summary

ICAL ID	**F110501**	Data Files:		Time	Injected
Calibration Date	05/01/2011	CS-1	F110501B_04	16:32	BAL
Instrument	10MSHR05 (F)	CS-2	F110501B_03	15:45	BAL
Column Phase	DB-5MS 0.25mm	CS-3	F110501B_01	14:54	BAL
Column ID No.	USA209122H	CS-4	F110501B_06	18:14	BAL
		CS-5	F110501B_05	17:27	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	0.8728	0.8040	0.7948	0.8466	0.8135	0.8264	3.94
2,3,7,8-TCDD	1.0016	0.9631	0.9993	0.9818	0.9561	0.9804	2.10
1,2,3,7,8-PeCDF	0.9294	0.8932	0.8813	0.9115	0.8701	0.8971	2.64
2,3,4,7,8-PeCDF	0.9733	0.9087	0.8866	0.9499	0.9086	0.9254	3.81
1,2,3,7,8-PeCDD	0.9312	0.9054	0.8882	0.9535	0.9026	0.9162	2.84
1,2,3,4,7,8-HxCDF	1.1548	1.0702	1.0650	1.1446	1.0785	1.1026	3.93
1,2,3,6,7,8-HxCDF	1.0669	1.0426	1.0603	1.1065	1.0378	1.0628	2.56
2,3,4,6,7,8-HxCDF	1.1223	1.0358	1.0241	1.1095	1.0656	1.0715	4.06
1,2,3,7,8,9-HxCDF	1.0691	0.9448	0.9802	1.0623	1.0179	1.0149	5.24
1,2,3,4,7,8-HxCDD	0.9554	0.9414	0.9544	0.9907	0.9166	0.9517	2.82
1,2,3,6,7,8-HxCDD	0.9566	0.8913	0.8976	0.9337	0.8687	0.9096	3.87
1,2,3,7,8,9-HxCDD	1.0355	0.9466	0.9855	1.0244	0.9939	0.9972	3.52
1,2,3,4,6,7,8-HpCDF	1.3571	1.2869	1.2172	1.3983	1.2770	1.3073	5.44
1,2,3,4,7,8,9-HpCDF	1.3663	1.2743	1.2618	1.4236	1.2823	1.3217	5.32
1,2,3,4,6,7,8-HpCDD	1.0493	1.0568	1.0283	1.0838	1.0207	1.0478	2.38
OCDF	1.0423	0.9913	1.0078	1.1823	1.0734	1.0594	7.14
OCDD	1.0491	0.9616	0.9660	1.0586	0.9809	1.0032	4.67
Total PeCDF	0.9514	0.9009	0.8839	0.9307	0.8894	0.9113	3.16
Total HxCDF	1.1033	1.0234	1.0324	1.1057	1.0500	1.0630	3.68
Total HxCDD	0.9825	0.9264	0.9458	0.9829	0.9264	0.9528	2.98
Total HpCDF	1.3617	1.2806	1.2395	1.4110	1.2797	1.3145	5.32
2,3,7,8-TCDF-13C	1.3611	1.3685	1.3455	1.3490	1.3709	1.3590	0.84
2,3,7,8-TCDD-13C	0.9775	0.9783	0.9662	0.9935	1.0013	0.9834	1.42
2,3,7,8-TCDD-37Cl4	1.0959	1.0697	1.0298	1.0967	1.0825	1.0749	2.56
1,2,3,7,8-PeCDF-13C	1.0153	1.0348	1.0177	1.0304	1.0524	1.0302	1.45
2,3,4,7,8-PeCDF-13C	1.0400	1.0351	1.0365	1.0427	1.0613	1.0431	1.02
1,2,3,7,8-PeCDD-13C	0.7483	0.7518	0.7630	0.7608	0.7843	0.7616	1.84
1,2,3,4,7,8-HxCDF-13C	0.9062	0.9033	0.9077	0.9261	0.9108	0.9108	0.98
1,2,3,6,7,8-HxCDF-13C	1.1548	1.1249	1.1528	1.1531	1.1439	1.1459	1.09
2,3,4,6,7,8-HxCDF-13C	1.0767	1.0596	1.0755	1.0940	1.0623	1.0736	1.28
1,2,3,7,8,9-HxCDF-13C	0.9356	0.9571	0.9343	0.9782	0.9828	0.9576	2.38
1,2,3,4,7,8-HxCDD-13C	0.8090	0.7944	0.7647	0.8105	0.8260	0.8009	2.89
1,2,3,6,7,8-HxCDD-13C	0.9975	1.0183	1.0424	1.0345	1.0222	1.0230	1.68
1,2,3,4,6,7,8-HpCDF-13C	1.0898	1.1034	1.0236	1.0943	1.0984	1.0819	3.05
1,2,3,4,7,8,9-HpCDF-13C	0.8875	0.8579	0.7776	0.9191	0.9546	0.8793	7.65
1,2,3,4,6,7,8-HpCDD-13C	0.9425	0.9318	0.8532	0.9622	0.9773	0.9334	5.16
OCDD-13C	0.8349	0.8292	0.7760	0.8714	0.9055	0.8434	5.76

REPORT OF LABORATORY ANALYSIS

Method 8290/1613
Initial Calibration (ICAL) - Isotope Ratio Summary

ICAL ID	**F110501**	Data Files:		Time	Injected
Calibration Date	05/01/2011	CS-1	F110501B_04	16:32	BAL
Instrument	10MSHR05 (F)	CS-2	F110501B_03	15:45	BAL
Column Phase	DB-5MS 0.25mm	CS-3	F110501B_01	14:54	BAL
Column ID No.	USA209122H	CS-4	F110501B_06	18:14	BAL
		CS-5	F110501B_05	17:27	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.79	0.73	0.77	0.75	0.77	0.65 - 0.89
2,3,7,8-TCDD	0.74	0.71	0.75	0.76	0.77	0.65 - 0.89
1,2,3,7,8-PeCDF	1.50	1.52	1.53	1.54	1.54	1.32 - 1.78
2,3,4,7,8-PeCDF	1.57	1.52	1.52	1.52	1.56	1.32 - 1.78
1,2,3,7,8-PeCDD	0.59	0.62	0.61	0.61	0.61	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.24	1.25	1.24	1.24	1.24	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.28	1.22	1.24	1.22	1.24	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.18	1.21	1.27	1.24	1.24	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.19	1.24	1.27	1.24	1.26	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.25	1.28	1.24	1.23	1.23	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.23	1.22	1.22	1.23	1.22	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.30	1.21	1.24	1.23	1.23	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.00	1.03	0.99	1.03	1.03	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	1.07	1.03	1.01	1.05	1.02	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.08	1.07	1.04	1.03	1.05	0.88 - 1.20
OCDF	0.88	0.91	0.91	0.90	0.90	0.76 - 1.02
OCDD	0.91	0.87	0.88	0.87	0.88	0.76 - 1.02
1,2,3,4-TCDD-13C	0.79	0.78	0.79	0.79	0.79	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.26	1.25	1.18	1.25	1.25	1.05 - 1.43
2,3,7,8-TCDF-13C	0.76	0.77	0.77	0.76	0.77	0.65 - 0.89
2,3,7,8-TCDD-13C	0.78	0.77	0.76	0.77	0.78	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.54	1.54	1.55	1.54	1.55	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.55	1.58	1.53	1.54	1.55	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.59	1.56	1.57	1.57	1.54	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.52	0.51	0.51	0.52	0.53	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.53	0.52	0.52	0.52	0.51	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.52	0.50	0.52	0.50	0.52	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.51	0.52	0.50	0.51	0.51	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.24	1.26	1.24	1.24	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.24	1.23	1.24	1.23	1.22	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.43	0.45	0.46	0.46	0.45	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.43	0.45	0.46	0.44	0.45	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.08	1.05	1.03	1.03	1.05	0.88 - 1.20
OCDD-13C	0.88	0.92	0.91	0.90	0.90	0.76 - 1.02

REPORT OF LABORATORY ANALYSIS

Method 8290/1613
Initial Calibration (ICAL) - Response Factor Summary

ICAL ID	**P110413**	Data Files:		Time	Injected
Calibration Date	04/13/2011	CS-1	P110413A_03	04:20	SMT
Instrument	10MSHR09 (P)	CS-2	P110413A_02	03:34	SMT
Column Phase	DB-5MS 0.25mm	CS-3	P110413A_01	02:48	SMT
Column ID No.	USA260032H	CS-4	P110413A_05	05:53	SMT
		CS-5	P110413A_04	05:07	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	1.0058	0.9608	0.9433	0.9786	0.9137	0.9604	3.63
2,3,7,8-TCDD	1.1475	1.1357	1.1168	1.1554	1.0470	1.1205	3.89
1,2,3,7,8-PeCDF	1.0379	0.9821	0.9510	0.9940	0.9344	0.9799	4.11
2,3,4,7,8-PeCDF	1.1117	1.0110	0.9707	1.0275	0.9828	1.0207	5.44
1,2,3,7,8-PeCDD	1.1153	1.0556	0.9889	1.0574	1.0032	1.0441	4.81
1,2,3,4,7,8-HxCDF	1.2975	1.1702	1.1068	1.1605	1.1254	1.1721	6.37
1,2,3,6,7,8-HxCDF	1.2461	1.1333	1.0739	1.1478	1.1017	1.1406	5.75
2,3,4,6,7,8-HxCDF	1.2505	1.1457	1.0777	1.1354	1.0947	1.1408	5.91
1,2,3,7,8,9-HxCDF	1.2407	1.0720	1.0233	1.0880	1.0320	1.0912	8.05
1,2,3,4,7,8-HxCDD	1.1943	1.0702	0.9917	1.0476	1.0291	1.0666	7.22
1,2,3,6,7,8-HxCDD	1.1572	1.0118	0.9298	1.0235	0.9555	1.0155	8.68
1,2,3,7,8,9-HxCDD	1.1789	1.0853	0.9880	1.0809	1.0184	1.0703	6.87
1,2,3,4,6,7,8-HpCDF	1.5718	1.3880	1.3098	1.3909	1.3113	1.3943	7.66
1,2,3,4,7,8,9-HpCDF	1.5190	1.3411	1.3272	1.4185	1.3533	1.3918	5.69
1,2,3,4,6,7,8-HpCDD	1.2625	1.0733	1.0559	1.1204	1.0290	1.1082	8.34
OCDF	1.3390	1.2180	1.1191	1.2817	1.2404	1.2397	6.58
OCDD	1.1875	1.0514	0.9993	1.0616	1.0241	1.0648	6.83
Total PeCDF	1.0748	0.9966	0.9608	1.0107	0.9586	1.0003	4.73
Total HxCDF	1.2587	1.1303	1.0704	1.1329	1.0885	1.1362	6.48
Total HxCDD	1.1768	1.0558	0.9698	1.0507	1.0010	1.0508	7.51
Total HpCDF	1.5454	1.3646	1.3185	1.4047	1.3323	1.3931	6.56
2,3,7,8-TCDF-13C	1.6107	1.5921	1.6319	1.6375	1.6393	1.6223	1.26
2,3,7,8-TCDD-13C	1.0115	1.0036	1.0406	0.9935	1.0389	1.0176	2.09
2,3,7,8-TCDD-37Cl4	1.2091	1.1606	1.1664	1.2050	1.1648	1.1812	2.01
1,2,3,7,8-PeCDF-13C	1.2732	1.3360	1.2852	1.3322	1.4033	1.3259	3.88
2,3,4,7,8-PeCDF-13C	1.3045	1.3409	1.2511	1.3268	1.4029	1.3253	4.17
1,2,3,7,8-PeCDD-13C	0.8458	0.8621	0.8588	0.8481	0.8961	0.8622	2.34
1,2,3,4,7,8-HxCDF-13C	1.1239	1.1225	1.0321	1.1440	1.1642	1.1173	4.53
1,2,3,6,7,8-HxCDF-13C	1.2975	1.2659	1.1644	1.2985	1.2814	1.2615	4.43
2,3,4,6,7,8-HxCDF-13C	1.2491	1.2225	1.1543	1.2138	1.2572	1.2194	3.33
1,2,3,7,8,9-HxCDF-13C	1.1475	1.1365	1.0627	1.1746	1.1699	1.1382	3.96
1,2,3,4,7,8-HxCDD-13C	0.8749	0.8703	0.8792	0.9028	0.8940	0.8843	1.54
1,2,3,6,7,8-HxCDD-13C	1.0171	0.9785	1.0219	0.9635	1.0024	0.9967	2.52
1,2,3,4,6,7,8-HpCDF-13C	1.0156	0.9881	0.9628	1.0750	1.0493	1.0182	4.44
1,2,3,4,7,8,9-HpCDF-13C	0.8370	0.8612	0.8086	0.9037	0.8690	0.8559	4.16
1,2,3,4,6,7,8-HpCDD-13C	0.8471	0.8746	0.8621	0.8798	0.8869	0.8701	1.81
OCDD-13C	0.7545	0.7593	0.7546	0.8326	0.8315	0.7865	5.30

REPORT OF LABORATORY ANALYSIS

Method 8290/1613
Initial Calibration (ICAL) - Isotope Ratio Summary

ICAL ID	**P110413**	Data Files:		Time	Injected
Calibration Date	04/13/2011	CS-1	P110413A_03	04:20	SMT
Instrument	10MSHR09 (P)	CS-2	P110413A_02	03:34	SMT
Column Phase	DB-5MS 0.25mm	CS-3	P110413A_01	02:48	SMT
Column ID No.	USA260032H	CS-4	P110413A_05	05:53	SMT
		CS-5	P110413A_04	05:07	SMT

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.72	0.74	0.78	0.76	0.75	0.65 - 0.89
2,3,7,8-TCDD	0.76	0.79	0.79	0.77	0.78	0.65 - 0.89
1,2,3,7,8-PeCDF	1.58	1.58	1.57	1.55	1.55	1.32 - 1.78
2,3,4,7,8-PeCDF	1.57	1.55	1.54	1.54	1.56	1.32 - 1.78
1,2,3,7,8-PeCDD	0.63	0.62	0.62	0.62	0.63	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.21	1.24	1.25	1.24	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.24	1.26	1.24	1.26	1.26	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.24	1.24	1.24	1.23	1.25	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.25	1.27	1.24	1.25	1.25	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.30	1.24	1.24	1.31	1.27	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.31	1.28	1.24	1.21	1.26	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.22	1.25	1.21	1.24	1.23	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.01	1.03	1.04	1.06	1.02	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	1.05	1.03	1.04	1.06	1.03	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.04	1.03	1.05	1.05	1.03	0.88 - 1.20
OCDF	0.93	0.91	0.91	0.90	0.92	0.76 - 1.02
OCDD	0.89	0.87	0.89	0.89	0.89	0.76 - 1.02
1,2,3,4-TCDD-13C	0.79	0.80	0.79	0.79	0.79	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.25	1.24	1.24	1.25	1.25	1.05 - 1.43
2,3,7,8-TCDF-13C	0.79	0.80	0.80	0.79	0.79	0.65 - 0.89
2,3,7,8-TCDD-13C	0.80	0.79	0.79	0.79	0.79	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.57	1.58	1.56	1.56	1.56	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.60	1.57	1.56	1.56	1.59	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.57	1.59	1.57	1.58	1.59	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.52	0.52	0.52	0.52	0.52	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.52	0.52	0.52	0.52	0.53	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.52	0.52	0.53	0.53	0.52	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.52	0.53	0.53	0.53	0.52	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.27	1.26	1.27	1.26	1.27	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.25	1.24	1.24	1.25	1.25	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.45	0.46	0.46	0.45	0.45	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.45	0.45	0.45	0.45	0.46	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.08	1.07	1.07	1.06	1.04	0.88 - 1.20
OCDD-13C	0.89	0.89	0.89	0.89	0.89	0.76 - 1.02

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290
PCDD/PCDF Calibration Verification

Run Name:	P110514B_07	Instrument ID	10MSHR09 (P)
Standard	CS3/CPM-7604-115	GC Column ID	USA260032H
Analyzed	05/15/2011 10:27	ICAL ID	P110413

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	9.6	0.73	0.9604	0.9200	-4.2
2,3,7,8-TCDD	10	9.8	0.81	1.1205	1.0936	-2.4
1,2,3,7,8-PeCDF	50	48.9	1.52	0.9799	0.9591	-2.1
2,3,4,7,8-PeCDF	50	48.2	1.53	1.0207	0.9834	-3.7
1,2,3,7,8-PeCDD	50	49.2	0.64	1.0441	1.0280	-1.5
1,2,3,4,7,8-HxCDF	50	49.1	1.26	1.1721	1.1520	-1.7
1,2,3,6,7,8-HxCDF	50	48.6	1.29	1.1406	1.1093	-2.7
2,3,4,6,7,8-HxCDF	50	48.6	1.25	1.1408	1.1093	-2.8
1,2,3,7,8,9-HxCDF	50	49.0	1.24	1.0912	1.0685	-2.1
1,2,3,4,7,8-HxCDD	50	46.7	1.35	1.0666	0.9956	-6.7
1,2,3,6,7,8-HxCDD	50	48.7	1.18	1.0155	0.9901	-2.5
1,2,3,7,8,9-HxCDD	50	48.5	1.22	1.0703	1.0389	-2.9
1,2,3,4,6,7,8-HpCDF	50	47.4	1.07	1.3943	1.3206	-5.3
1,2,3,4,7,8,9-HpCDF	50	48.8	1.03	1.3918	1.3584	-2.4
1,2,3,4,6,7,8-HpCDD	50	48.7	1.04	1.1082	1.0784	-2.7
OCDF	100	97.4	0.92	1.2397	1.2076	-2.6
OCDD	100	97.8	0.90	1.0648	1.0415	-2.2
Total PeCDF	100	97.1	NA	1.0003	0.9713	-2.9
Total HxCDF	200	195.4	NA	1.1362	1.1098	-2.3
Total HxCDD	150	143.9	NA	1.0508	1.0082	-4.1
Total HpCDF	100	96.2	NA	1.3931	1.3395	-3.8
2,3,7,8-TCDF-13C	100	101.6	0.80	1.6223	1.6488	1.6
2,3,7,8-TCDD-13C	100	98.6	0.80	1.0176	1.0031	-1.4
2,3,7,8-TCDD-37Cl4	10	9.6	NA	1.1812	1.1341	-4.0
1,2,3,7,8-PeCDF-13C	100	95.0	1.59	1.3259	1.2596	-5.0
2,3,4,7,8-PeCDF-13C	100	94.4	1.58	1.3253	1.2513	-5.6
1,2,3,7,8-PeCDD-13C	100	87.7	1.57	0.8622	0.7563	-12.3
1,2,3,4,7,8-HxCDF-13C	100	103.7	0.54	1.1173	1.1584	3.7
1,2,3,6,7,8-HxCDF-13C	100	108.0	0.53	1.2615	1.3627	8.0
2,3,4,6,7,8-HxCDF-13C	100	105.3	0.54	1.2194	1.2842	5.3
1,2,3,7,8,9-HxCDF-13C	100	102.9	0.53	1.1382	1.1708	2.9
1,2,3,4,7,8-HxCDD-13C	100	101.1	1.25	0.8843	0.8944	1.1
1,2,3,6,7,8-HxCDD-13C	100	99.1	1.26	0.9967	0.9873	-0.9
1,2,3,4,6,7,8-HpCDF-13C	100	100.8	0.46	1.0182	1.0262	0.8
1,2,3,4,7,8,9-HpCDF-13C	100	89.6	0.46	0.8559	0.7668	-10.4
1,2,3,4,6,7,8-HpCDD-13C	100	89.0	1.05	0.8701	0.7746	-11.0
OCDD-13C	200	154.3	0.89	0.7865	0.6068	-22.9
1,2,3,4-TCDD-13C	100	NA	0.80	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.26	NA	NA	NA

Concentrations expressed as pg/ul NA = Not Applicable * = Outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290
PCDD/PCDF Calibration Verification

Run Name:	F110515B_01	Instrument ID	10MSHR05 (F)
Standard	CS3/CPM-7604-115	GC Column ID	USA209122H
Analyzed	05/15/2011 14:22	ICAL ID	F110501

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	10.5	0.78	0.8264	0.8710	5.4
2,3,7,8-TCDD	10	10.5	0.78	0.9804	1.0326	5.3
1,2,3,7,8-PeCDF	50	52.4	1.57	0.8971	0.9406	4.9
2,3,4,7,8-PeCDF	50	51.8	1.54	0.9254	0.9592	3.7
1,2,3,7,8-PeCDD	50	52.0	0.62	0.9162	0.9529	4.0
1,2,3,4,7,8-HxCDF	50	51.1	1.24	1.1026	1.1263	2.1
1,2,3,6,7,8-HxCDF	50	50.9	1.25	1.0628	1.0817	1.8
2,3,4,6,7,8-HxCDF	50	50.8	1.26	1.0715	1.0878	1.5
1,2,3,7,8,9-HxCDF	50	50.4	1.23	1.0149	1.0233	0.8
1,2,3,4,7,8-HxCDD	50	51.4	1.22	0.9517	0.9778	2.8
1,2,3,6,7,8-HxCDD	50	50.9	1.26	0.9096	0.9265	1.9
1,2,3,7,8,9-HxCDD	50	48.9	1.24	0.9972	0.9744	-2.3
1,2,3,4,6,7,8-HpCDF	50	50.0	1.03	1.3073	1.3073	0.0
1,2,3,4,7,8,9-HpCDF	50	49.8	1.03	1.3217	1.3154	-0.5
1,2,3,4,6,7,8-HpCDD	50	51.5	1.03	1.0478	1.0784	2.9
OCDF	100	104.3	0.88	1.0594	1.1045	4.3
OCDD	100	98.7	0.90	1.0032	0.9903	-1.3
Total PeCDF	100	104.3	NA	0.9113	0.9499	4.2
Total HxCDF	200	203.1	NA	1.0630	1.0798	1.6
Total HxCDD	150	151.2	NA	0.9528	0.9596	0.7
Total HpCDF	100	99.8	NA	1.3145	1.3113	-0.2
2,3,7,8-TCDF-13C	100	106.8	0.78	1.3590	1.4512	6.8
2,3,7,8-TCDD-13C	100	98.5	0.78	0.9834	0.9689	-1.5
2,3,7,8-TCDD-37Cl4	10	9.9	NA	1.0749	1.0591	-1.5
1,2,3,7,8-PeCDF-13C	100	104.0	1.56	1.0302	1.0711	4.0
2,3,4,7,8-PeCDF-13C	100	102.7	1.57	1.0431	1.0717	2.7
1,2,3,7,8-PeCDD-13C	100	95.6	1.54	0.7616	0.7285	-4.4
1,2,3,4,7,8-HxCDF-13C	100	116.9	0.52	0.9108	1.0650	16.9
1,2,3,6,7,8-HxCDF-13C	100	107.1	0.52	1.1459	1.2272	7.1
2,3,4,6,7,8-HxCDF-13C	100	111.6	0.52	1.0736	1.1981	11.6
1,2,3,7,8,9-HxCDF-13C	100	114.4	0.52	0.9576	1.0959	14.4
1,2,3,4,7,8-HxCDD-13C	100	109.7	1.26	0.8009	0.8785	9.7
1,2,3,6,7,8-HxCDD-13C	100	101.6	1.24	1.0230	1.0392	1.6
1,2,3,4,6,7,8-HpCDF-13C	100	99.5	0.44	1.0819	1.0764	-0.5
1,2,3,4,7,8,9-HpCDF-13C	100	103.4	0.43	0.8793	0.9093	3.4
1,2,3,4,6,7,8-HpCDD-13C	100	100.6	1.03	0.9334	0.9393	0.6
OCDD-13C	200	196.4	0.91	0.8434	0.8283	-1.8
1,2,3,4-TCDD-13C	100	NA	0.80	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.25	NA	NA	NA

Concentrations expressed as pg/ul NA = Not Applicable * = Outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Method 8290
PCDD/PCDF Calibration Verification

Run Name:	P110515A_14	Instrument ID	10MSHR09 (P)
Standard	CS3/CPM-7604-115	GC Column ID	USA260032H
Analyzed	05/15/2011 23:02	ICAL ID	P110413

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	9.3	0.71	0.9604	0.8905	-7.3
2,3,7,8-TCDD	10	10.1	0.73	1.1205	1.1264	0.5
1,2,3,7,8-PeCDF	50	48.6	1.53	0.9799	0.9525	-2.8
2,3,4,7,8-PeCDF	50	48.0	1.55	1.0207	0.9792	-4.1
1,2,3,7,8-PeCDD	50	48.8	0.62	1.0441	1.0200	-2.3
1,2,3,4,7,8-HxCDF	50	48.7	1.25	1.1721	1.1423	-2.5
1,2,3,6,7,8-HxCDF	50	48.1	1.25	1.1406	1.0979	-3.7
2,3,4,6,7,8-HxCDF	50	48.6	1.25	1.1408	1.1083	-2.9
1,2,3,7,8,9-HxCDF	50	47.9	1.23	1.0912	1.0459	-4.2
1,2,3,4,7,8-HxCDD	50	49.1	1.25	1.0666	1.0480	-1.7
1,2,3,6,7,8-HxCDD	50	48.1	1.22	1.0155	0.9773	-3.8
1,2,3,7,8,9-HxCDD	50	48.5	1.23	1.0703	1.0382	-3.0
1,2,3,4,6,7,8-HpCDF	50	47.1	1.03	1.3943	1.3130	-5.8
1,2,3,4,7,8,9-HpCDF	50	46.8	1.02	1.3918	1.3017	-6.5
1,2,3,4,6,7,8-HpCDD	50	49.5	1.08	1.1082	1.0980	-0.9
OCDF	100	97.9	0.91	1.2397	1.2134	-2.1
OCDD	100	98.3	0.90	1.0648	1.0470	-1.7
Total PeCDF	100	96.6	NA	1.0003	0.9658	-3.4
Total HxCDF	200	193.4	NA	1.1362	1.0986	-3.3
Total HxCDD	150	145.7	NA	1.0508	1.0212	-2.8
Total HpCDF	100	93.8	NA	1.3931	1.3073	-6.2
2,3,7,8-TCDF-13C	100	100.4	0.78	1.6223	1.6283	0.4
2,3,7,8-TCDD-13C	100	99.9	0.78	1.0176	1.0170	-0.1
2,3,7,8-TCDD-37Cl4	10	9.5	NA	1.1812	1.1191	-5.3
1,2,3,7,8-PeCDF-13C	100	100.0	1.60	1.3259	1.3254	0.0
2,3,4,7,8-PeCDF-13C	100	98.8	1.58	1.3253	1.3089	-1.2
1,2,3,7,8-PeCDD-13C	100	95.5	1.57	0.8622	0.8233	-4.5
1,2,3,4,7,8-HxCDF-13C	100	101.9	0.54	1.1173	1.1389	1.9
1,2,3,6,7,8-HxCDF-13C	100	108.5	0.52	1.2615	1.3683	8.5
2,3,4,6,7,8-HxCDF-13C	100	108.1	0.52	1.2194	1.3184	8.1
1,2,3,7,8,9-HxCDF-13C	100	102.6	0.50	1.1382	1.1679	2.6
1,2,3,4,7,8-HxCDD-13C	100	96.7	1.25	0.8843	0.8549	-3.3
1,2,3,6,7,8-HxCDD-13C	100	104.4	1.25	0.9967	1.0401	4.4
1,2,3,4,6,7,8-HpCDF-13C	100	97.0	0.45	1.0182	0.9875	-3.0
1,2,3,4,7,8,9-HpCDF-13C	100	91.3	0.45	0.8559	0.7817	-8.7
1,2,3,4,6,7,8-HpCDD-13C	100	87.6	1.06	0.8701	0.7618	-12.4
OCDD-13C	200	154.5	0.89	0.7865	0.6077	-22.7
1,2,3,4-TCDD-13C	100	NA	0.80	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.22	NA	NA	NA

Concentrations expressed as pg/ul NA = Not Applicable * = Outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Minneapolis, MN 55414

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Method 8290
PCDD/PCDF Calibration Verification

Run Name:	F110515B_15	Instrument ID	10MSHR05 (F)
Standard	CS3/CPM-7604-115	GC Column ID	USA209122H
Analyzed	05/16/2011 01:37	ICAL ID	F110501

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	10.5	0.78	0.8264	0.8717	5.5
2,3,7,8-TCDD	10	10.9	0.77	0.9804	1.0677	8.9
1,2,3,7,8-PeCDF	50	52.9	1.58	0.8971	0.9493	5.8
2,3,4,7,8-PeCDF	50	52.1	1.57	0.9254	0.9648	4.3
1,2,3,7,8-PeCDD	50	52.8	0.64	0.9162	0.9683	5.7
1,2,3,4,7,8-HxCDF	50	52.6	1.25	1.1026	1.1609	5.3
1,2,3,6,7,8-HxCDF	50	51.3	1.26	1.0628	1.0900	2.6
2,3,4,6,7,8-HxCDF	50	50.9	1.27	1.0715	1.0915	1.9
1,2,3,7,8,9-HxCDF	50	51.4	1.26	1.0149	1.0441	2.9
1,2,3,4,7,8-HxCDD	50	52.9	1.23	0.9517	1.0064	5.7
1,2,3,6,7,8-HxCDD	50	50.8	1.25	0.9096	0.9239	1.6
1,2,3,7,8,9-HxCDD	50	49.9	1.26	0.9972	0.9957	-0.1
1,2,3,4,6,7,8-HpCDF	50	50.0	0.94	1.3073	1.3073	0.0
1,2,3,4,7,8,9-HpCDF	50	47.9	1.06	1.3217	1.2674	-4.1
1,2,3,4,6,7,8-HpCDD	50	54.9	1.06	1.0478	1.1496	9.7
OCDF	100	105.2	0.95	1.0594	1.1146	5.2
OCDD	100	99.9	0.87	1.0032	1.0023	-0.1
Total PeCDF	100	105.0	NA	0.9113	0.9571	5.0
Total HxCDF	200	206.3	NA	1.0630	1.0966	3.2
Total HxCDD	150	153.6	NA	0.9528	0.9753	2.4
Total HpCDF	100	97.9	NA	1.3145	1.2873	-2.1
2,3,7,8-TCDF-13C	100	109.4	0.78	1.3590	1.4862	9.4
2,3,7,8-TCDD-13C	100	97.4	0.78	0.9834	0.9582	-2.6
2,3,7,8-TCDD-37Cl4	10	9.8	NA	1.0749	1.0490	-2.4
1,2,3,7,8-PeCDF-13C	100	105.1	1.58	1.0302	1.0832	5.1
2,3,4,7,8-PeCDF-13C	100	101.9	1.56	1.0431	1.0628	1.9
1,2,3,7,8-PeCDD-13C	100	90.4	1.54	0.7616	0.6881	-9.6
1,2,3,4,7,8-HxCDF-13C	100	123.1	0.52	0.9108	1.1213	23.1
1,2,3,6,7,8-HxCDF-13C	100	118.2	0.52	1.1459	1.3543	18.2
2,3,4,6,7,8-HxCDF-13C	100	118.5	0.53	1.0736	1.2727	18.5
1,2,3,7,8,9-HxCDF-13C	100	111.6	0.51	0.9576	1.0686	11.6
1,2,3,4,7,8-HxCDD-13C	100	110.2	1.35	0.8009	0.8829	10.2
1,2,3,6,7,8-HxCDD-13C	100	102.3	1.20	1.0230	1.0463	2.3
1,2,3,4,6,7,8-HpCDF-13C	100	94.1	0.47	1.0819	1.0176	-5.9
1,2,3,4,7,8,9-HpCDF-13C	100	94.9	0.44	0.8793	0.8343	-5.1
1,2,3,4,6,7,8-HpCDD-13C	100	77.6	1.11	0.9334	0.7245	-22.4
OCDD-13C	200	180.8	0.91	0.8434	0.7622	-9.6
1,2,3,4-TCDD-13C	100	NA	0.78	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.22	NA	NA	NA

Concentrations expressed as pg/ul NA = Not Applicable * = Outside target range

REPORT OF LABORATORY ANALYSIS

Appendix D

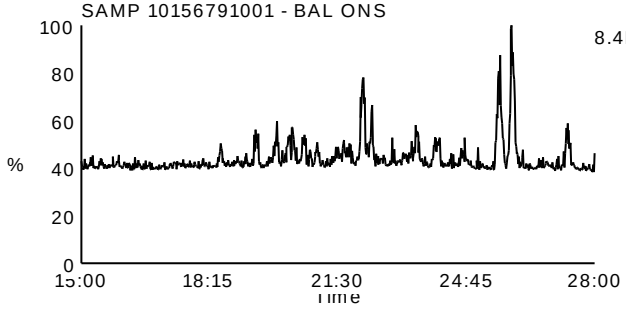
Sample Raw Data

Homologue Group: Tetras

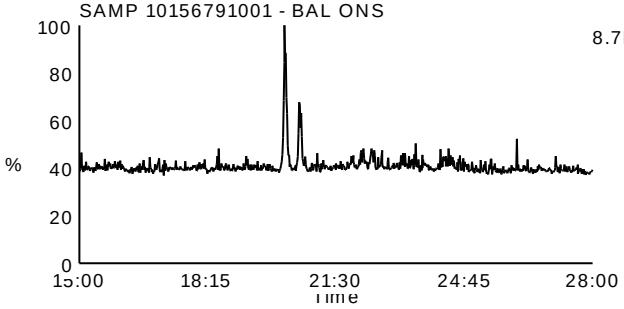
Data File Name: F110515B_11
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001 - BAL ONS

Lab Sample ID: 10156791001
Client Sample ID: KCP4-SO-274-B-110506
Instrument: 10MSHR05 (F)

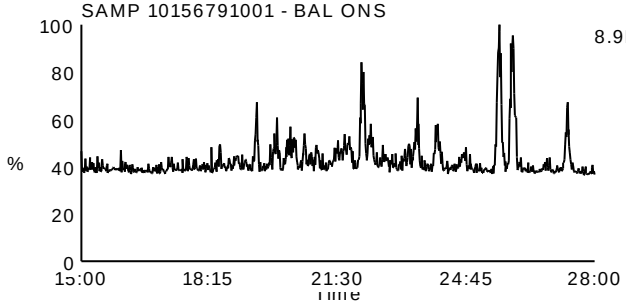
Data File: F110515B 11 G1 C1 - 303.9016
SAMP 10156791001 - BAL ONS



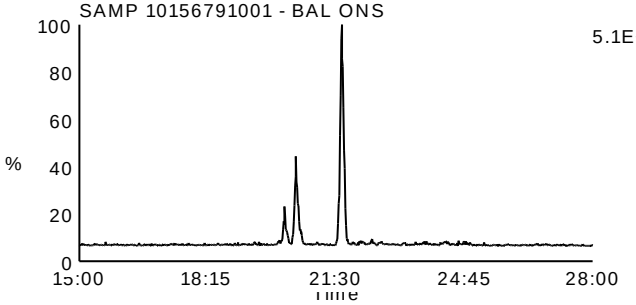
Data File: F110515B 11 G1 C7 - 319.8965
SAMP 10156791001 - BAL ONS



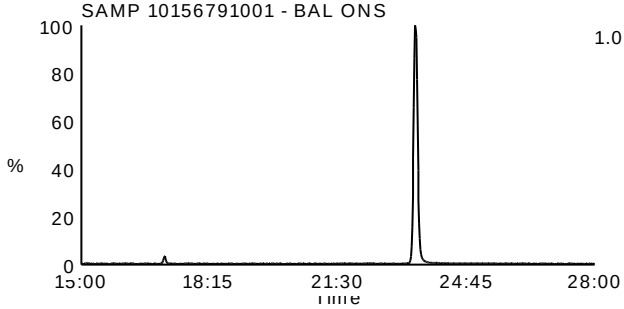
Data File: F110515B_11 G1 C2 - 305.8987
SAMP 10156791001 - BAL ONS



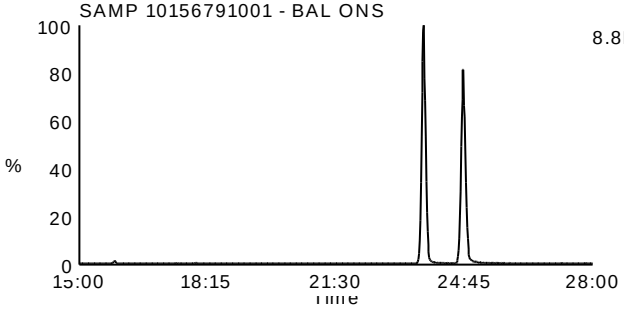
Data File: F110515B_11 G1 C8 - 321.8936
SAMP 10156791001 - BAL ONS



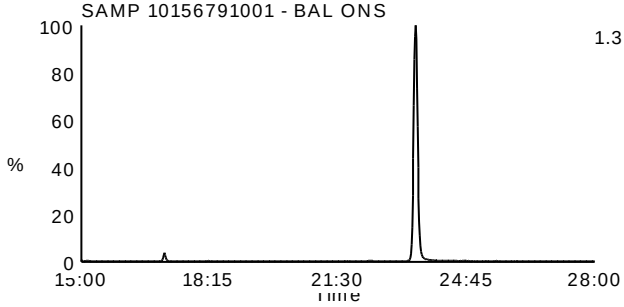
Data File: F110515B 11 G1 C3 - 315.9418
SAMP 10156791001 - BAL ONS



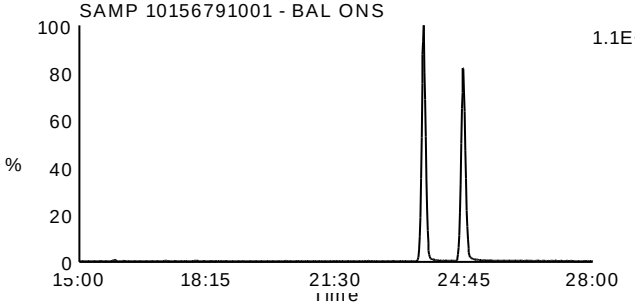
Data File: F110515B 11 G1 C10 - 331.9367
SAMP 10156791001 - BAL ONS



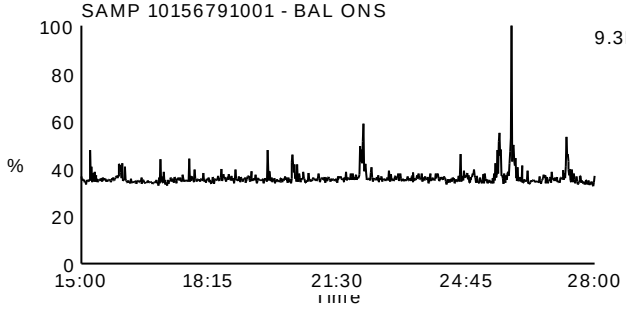
Data File: F110515B_11 G1 C4 - 317.9389
SAMP 10156791001 - BAL ONS



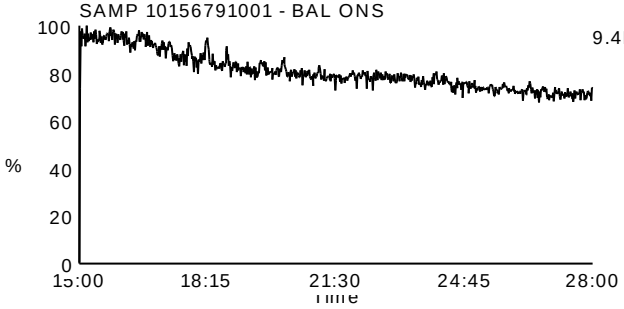
Data File: F110515B_11 G1 C11 - 333.9338
SAMP 10156791001 - BAL ONS



Data File: F110515B_11 G1 C14 - 375.8364
SAMP 10156791001 - BAL ONS



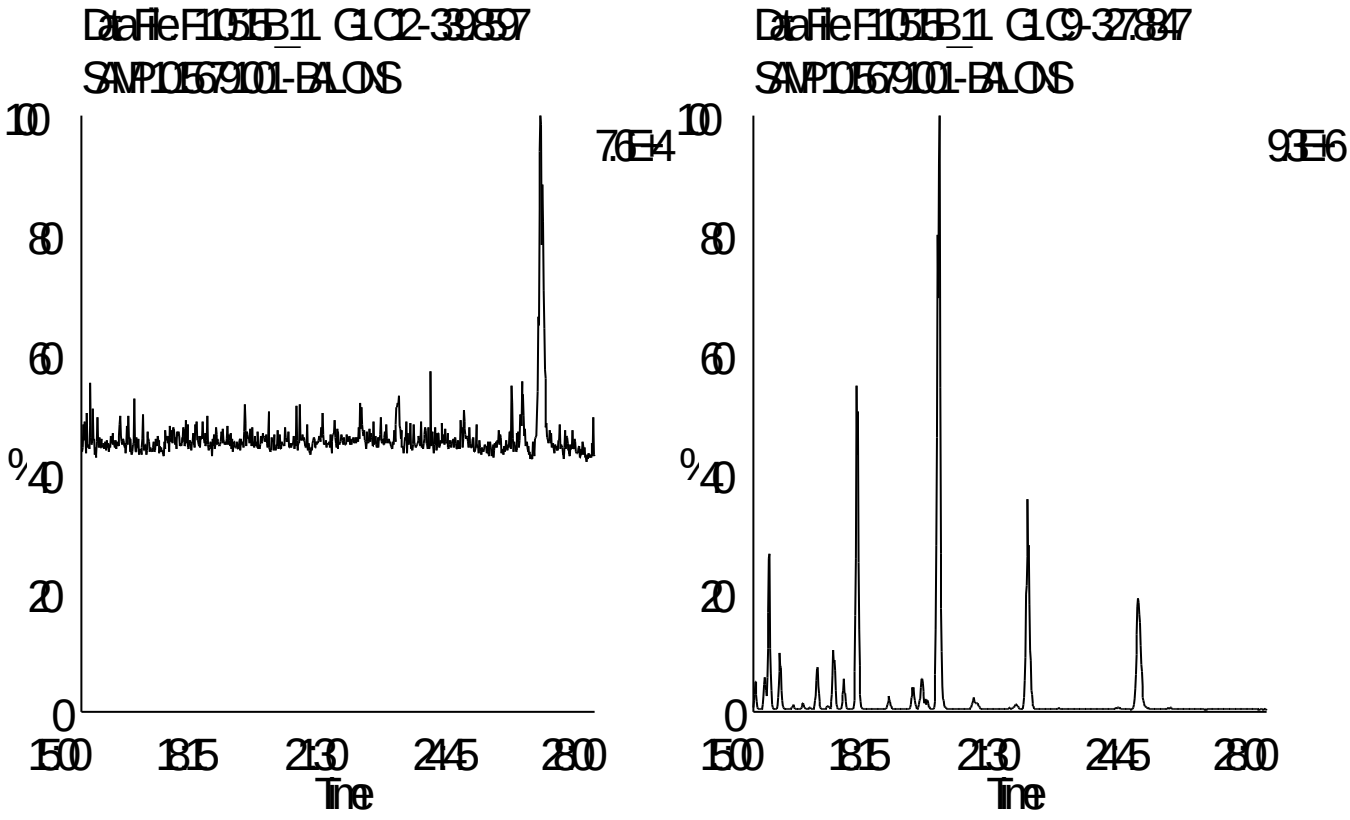
Data File: F110515B_11 G1 C5 - 318.9792
SAMP 10156791001 - BAL ONS

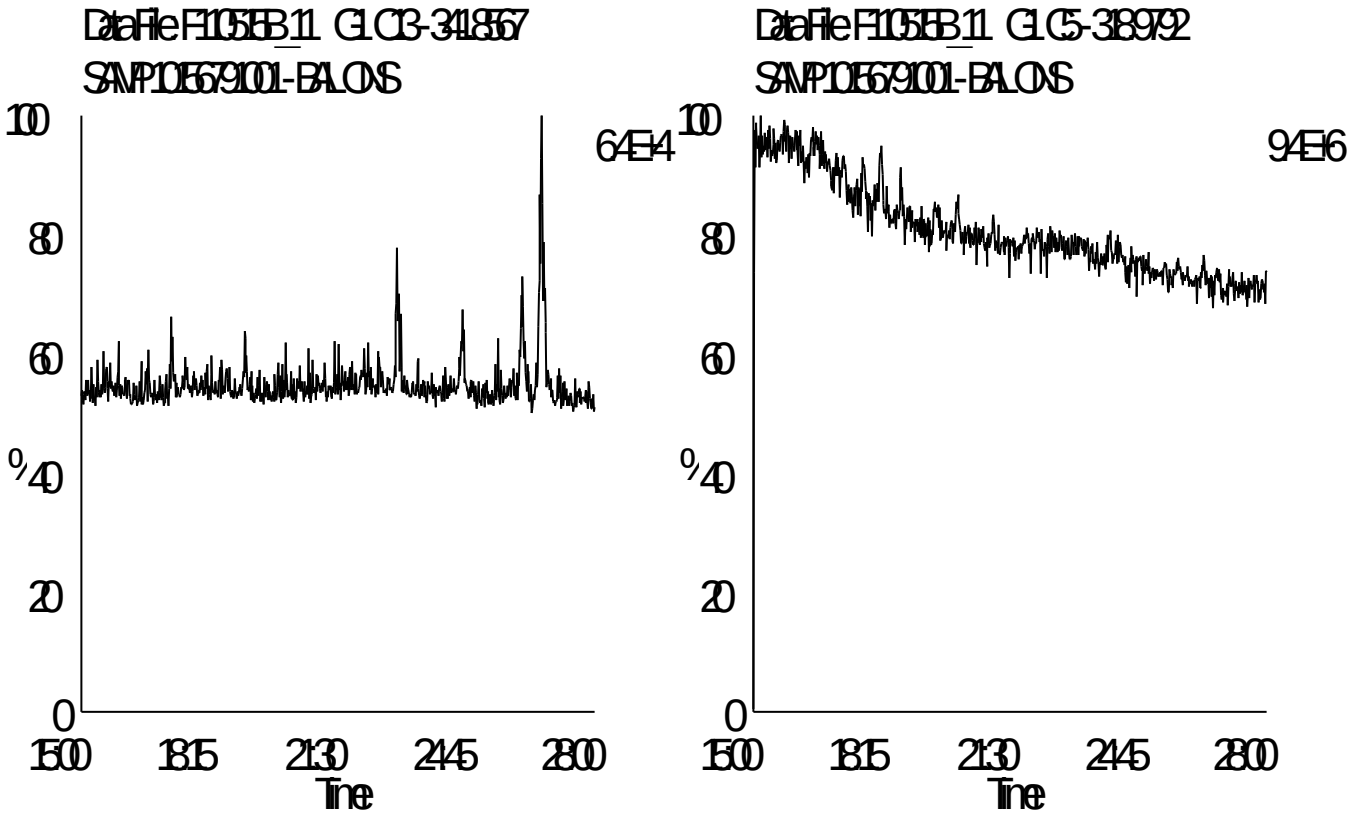


Homologue Group: Penta & Cleanup

Data File Name: F110515B_11
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001 - BAL ONS

Lab Sample ID: 10156791001
Client Sample ID: KCP4-SO-274-B-110506
Instrument: 10MSHR05 (F)



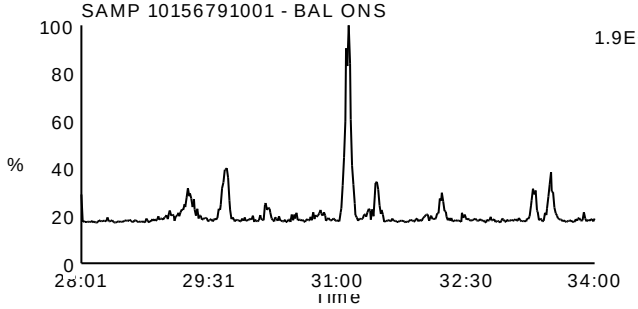


Homologue Group: Pentas

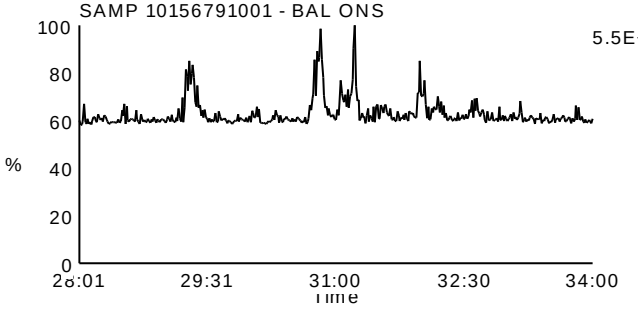
Data File Name: F110515B_11
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001 - BAL ONS

Lab Sample ID: 10156791001
Client Sample ID: KCP4-SO-274-B-110506
Instrument: 10MSHR05 (F)

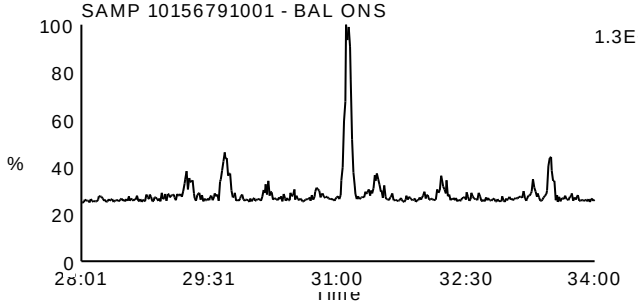
Data File: F110515B 11 G2 C1 - 339.8597
SAMP 10156791001 - BAL ONS
1.9E+5



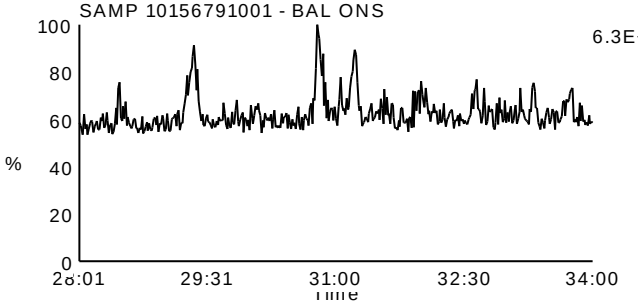
Data File: F110515B 11 G2 C4 - 353.8576
SAMP 10156791001 - BAL ONS
5.5E+4



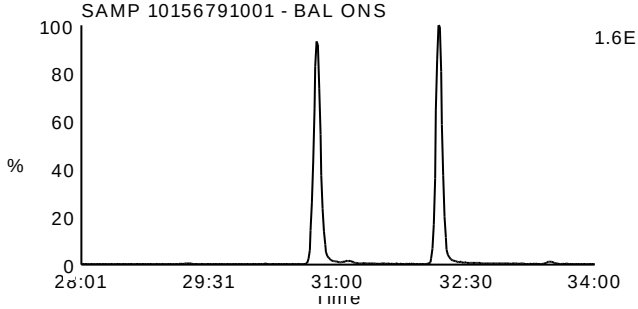
Data File: F110515B_11 G2 C2 - 341.8567
SAMP 10156791001 - BAL ONS
1.3E+5



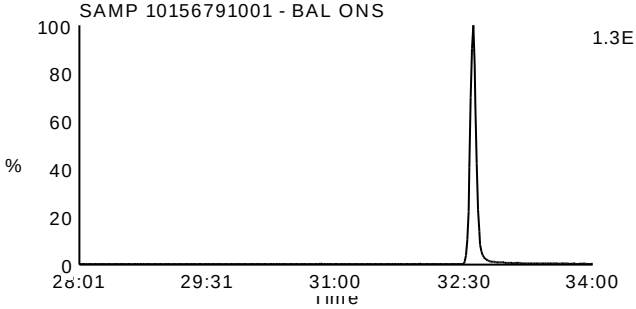
Data File: F110515B_11 G2 C8 - 355.8546
SAMP 10156791001 - BAL ONS
6.3E+4



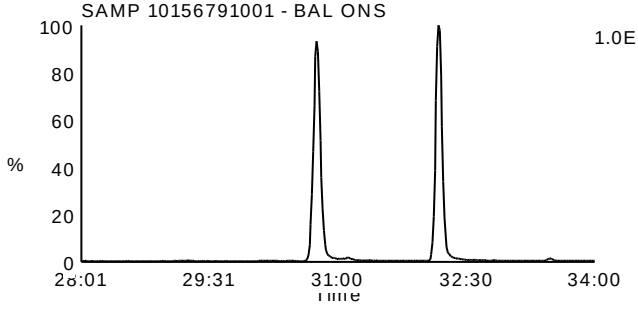
Data File: F110515B 11 G2 C3 - 351.8999
SAMP 10156791001 - BAL ONS
1.6E+7



Data File: F110515B 11 G2 C10 - 367.8948
SAMP 10156791001 - BAL ONS
1.3E+7



Data File: F110515B_11 G2 C5 - 353.8969
SAMP 10156791001 - BAL ONS
1.0E+7



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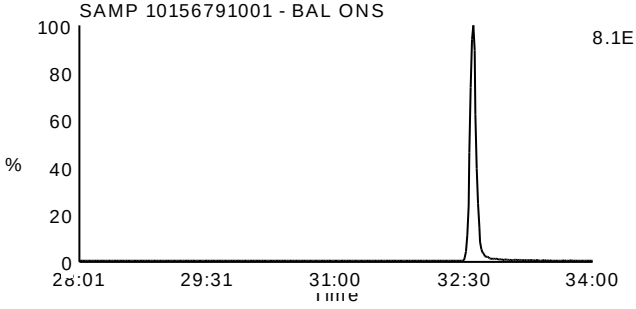
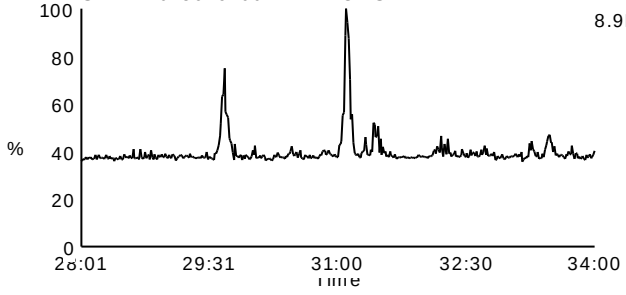
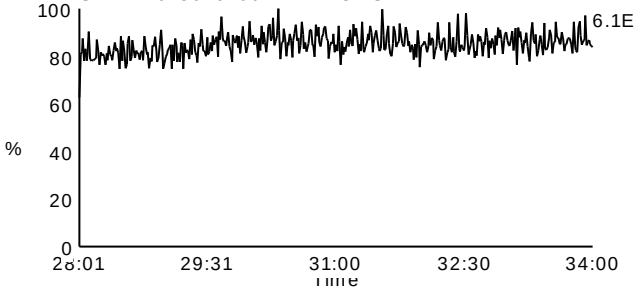
SAMP 10156791001 - BAL ONS
8.1E+6



Data File: F110515B_11 G2 C12 - 409.7974
SAMP 10156791001 - BAL ONS
8.9E+4



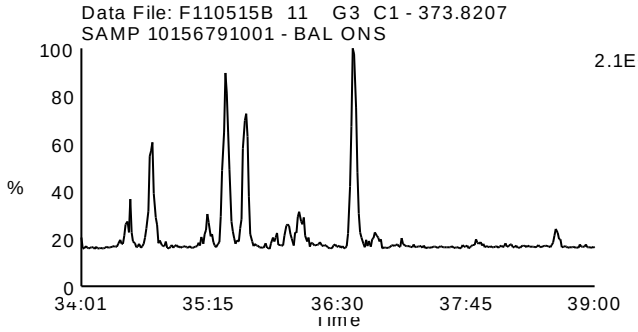
Data File: F110515B_11 G2 C6 - 354.9792
SAMP 10156791001 - BAL ONS
6.1E+6

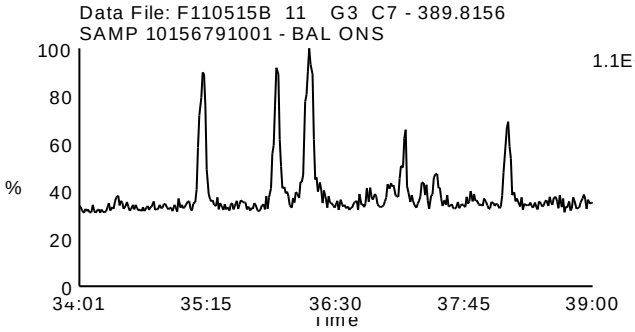


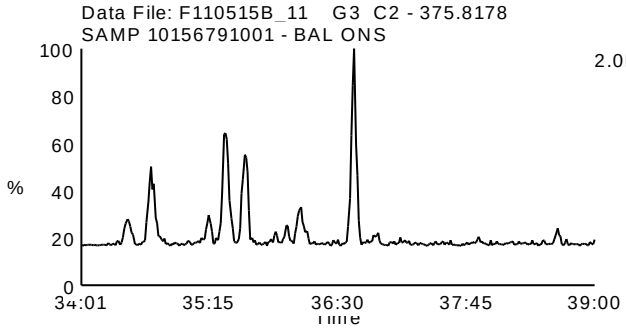
Homologue Group: Hexas

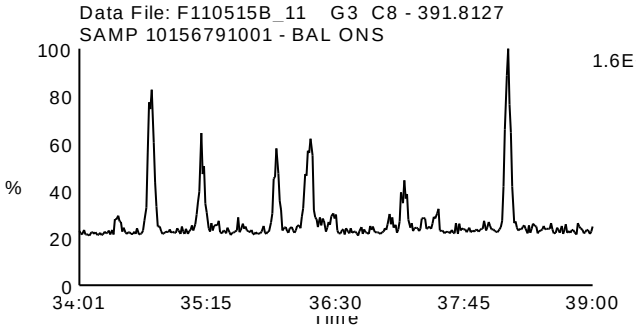
Data File Name: F110515B_11
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001 - BAL ONS

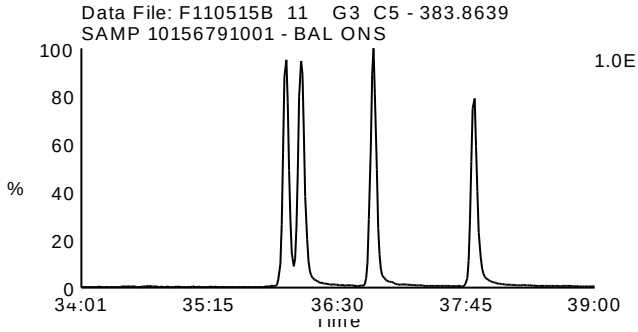
Lab Sample ID: 10156791001
Client Sample ID: KCP4-SO-274-B-110506
Instrument: 10MSHR05 (F)

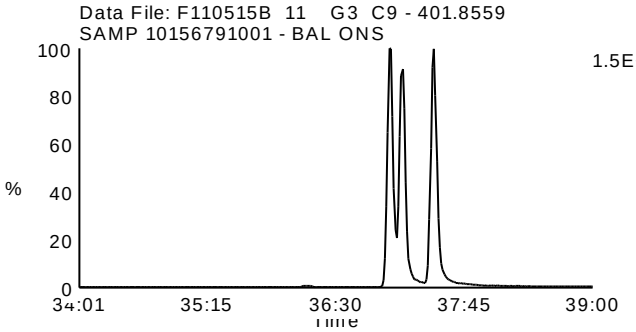


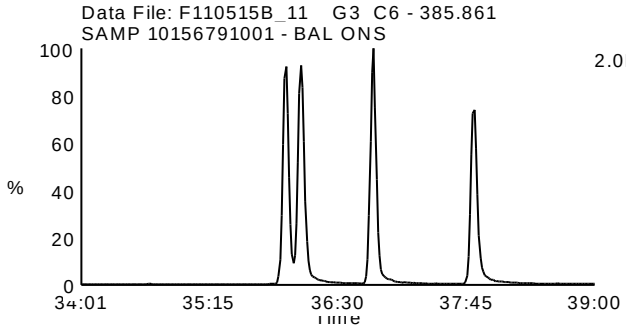


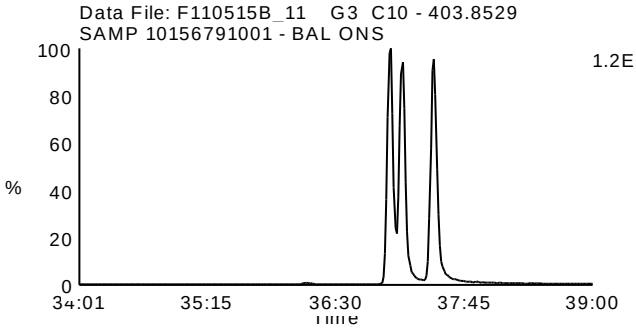


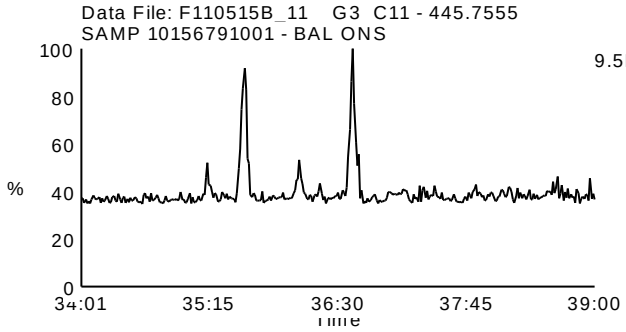


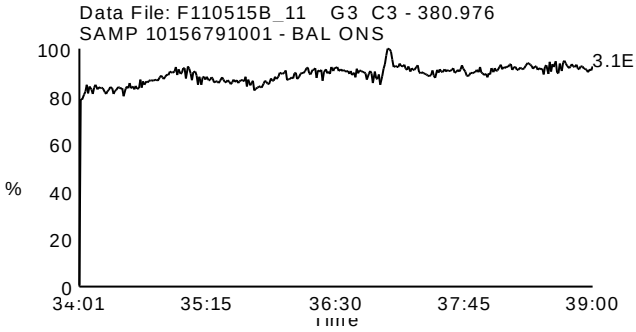








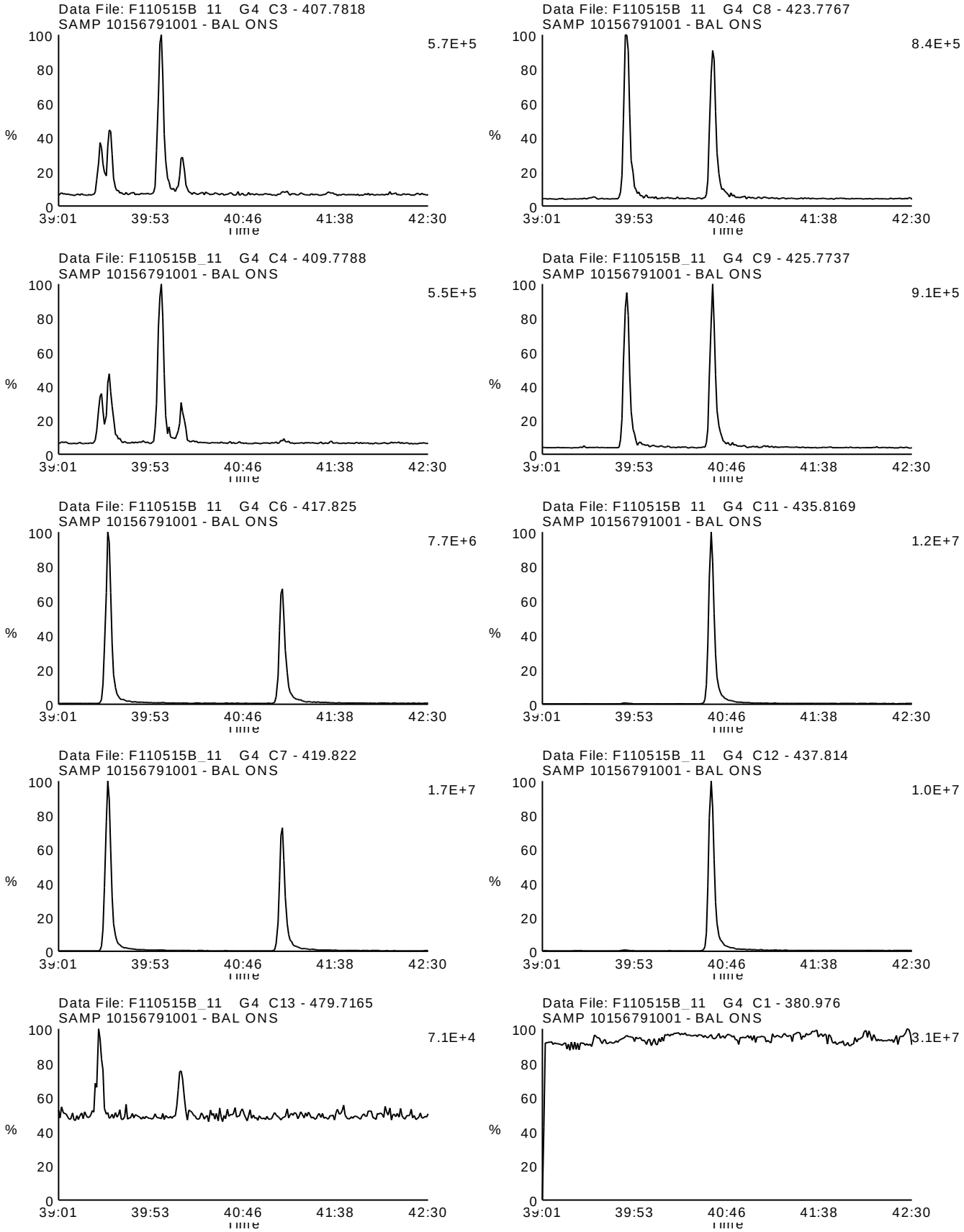




Homologue Group: Heptas

Data File Name: F110515B_11
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001 - BAL ONS

Lab Sample ID: 10156791001
Client Sample ID: KCP4-SO-274-B-110506
Instrument: 10MSHR05 (F)

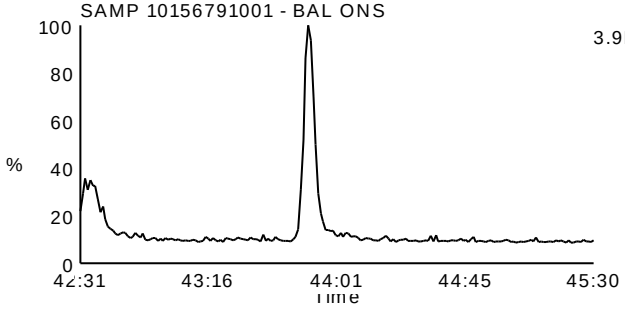


Homologue Group: Octas

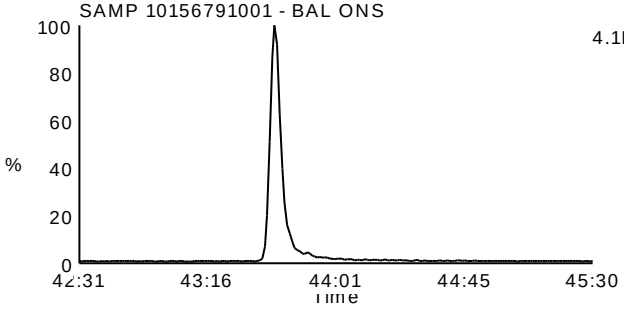
Data File Name: F110515B_11
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001 - BAL ONS

Lab Sample ID: 10156791001
Client Sample ID: KCP4-SO-274-B-110506
Instrument: 10MSHR05 (F)

Data File: F110515B 11 G5 C4 - 441.7428
SAMP 10156791001 - BAL ONS



Data File: F110515B 11 G5 C8 - 457.7377
SAMP 10156791001 - BAL ONS



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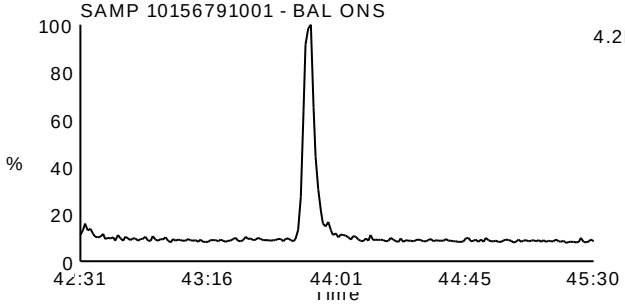
SAMP 10156791001 - BAL ONS



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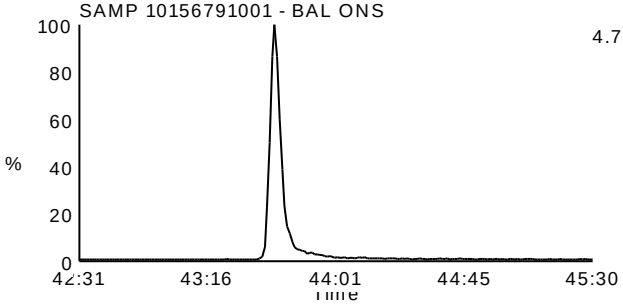
SAMP 10156791001 - BAL ONS



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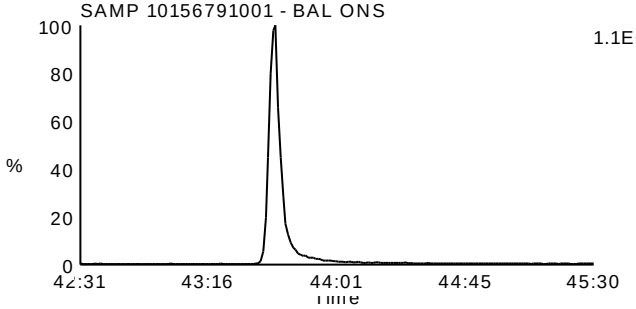
SAMP 10156791001 - BAL ONS



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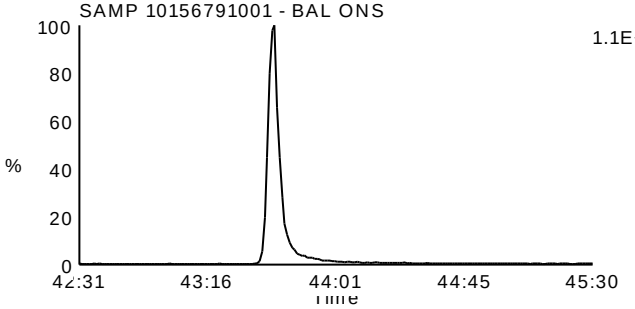
SAMP 10156791001 - BAL ONS



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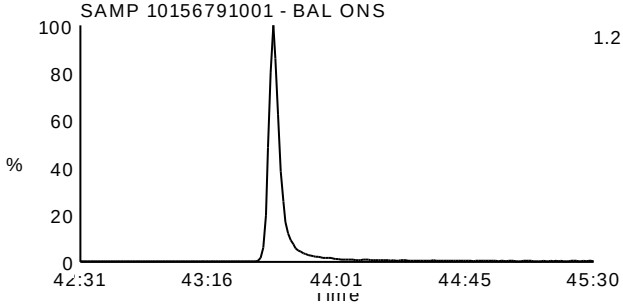
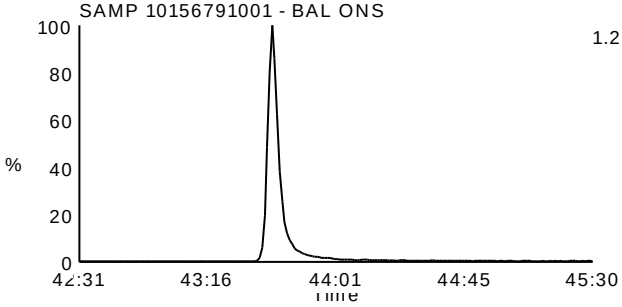
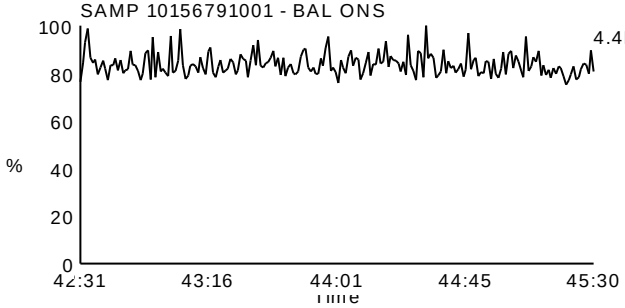
SAMP 10156791001 - BAL ONS



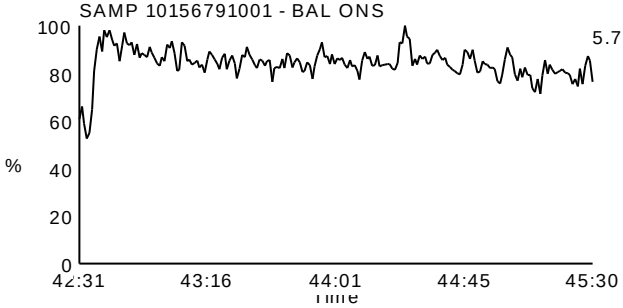
Data File: F110515B_11 G5 C12 - 471.7749
SAMP 10156791001 - BAL ONS



Data File: F110515B_11 G5 C13 - 513.6775
SAMP 10156791001 - BAL ONS



Data File: F110515B_11 G5 C2 - 430.9728
SAMP 10156791001 - BAL ONS



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	KCP4-SO-274-B-110506	Injected By	BAL
Lab ID	10156791001	Instrument ID	10MSHR05 (F)
Filename	F110515B_11	GC Column ID	USA209122H
Analyzed	05/15/2011 22:24	ICAL ID	F110501

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		23:28	7.31e7	9.32e7	1.00e7	1.29e7	1.288e4	5.603e3	0.78	
2,3,7,8-TCDF		23:29	8.18e4	1.26e5	1.30e4	2.70e4	2.456e3	2.651e3	0.65	
Other TCDF	1	19:25	7.15e4	1.11e5					0.65	
	2	20:15	6.00e4	8.96e4					0.67	
	3	20:22	6.31e4	7.68e4					0.82	
	4	23:58	1.06e5	1.42e5					0.75	
	5	24:44	6.23e4	8.64e4					0.72	
Ethers	1	22:10	2.12e5	2.50e5					0.85	E
	2	25:38	2.88e5	4.16e5					0.69	E
	3	25:55	3.66e5	4.16e5					0.88	E
	4	27:20	1.11e5	1.64e5					0.68	E

Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		23:45	6.12e7	7.69e7	8.72e6	1.09e7	7.618e3	3.606e3	0.80	
2,3,7,8-TCDD-13C		24:44	5.52e7	7.07e7	7.10e6	8.92e6	2.915e3	1.060e3	0.78	
2,3,7,8-TCDD-37Cl4		24:46	1.31e7		1.73e6		8.257e3	-----		
2,3,7,8-TCDD		24:46	ND	ND	ND	ND	3.222e3	3.802e3		
Other TCDD	1	20:13	2.82e5	4.20e5					0.67	
	2	20:35	1.40e5	1.68e5					0.83	

Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		30:46	8.80e7	5.58e7	1.50e7	9.57e6	2.780e4	1.601e4	1.58	
2,3,4,7,8-PeCDF-13C		32:11	8.62e7	5.52e7	1.60e7	1.02e7	1.640e5	7.539e3	1.56	
1,2,3,7,8-PeCDF		30:49	5.08e4	3.59e4	7.91e3	5.72e3	2.652e3	3.169e3	1.42	
2,3,4,7,8-PeCDF		32:14	1.03e5	7.32e4	2.18e4	1.36e4	2.888e3	3.329e3	1.40	
Other PeCDF	1	29:16	1.80e5	1.07e5					1.68	
	2	30:11	5.60e4	4.21e4					1.33	
	3	26:39	3.57e5	2.30e5					1.55	
Ethers	1	29:43	2.38e5	1.71e5					1.40	E
	2	31:08	7.36e5	5.24e5					1.40	E
	3	31:28	1.32e5	8.08e4					1.64	E
	4	33:30	1.60e5	1.08e5					1.48	E

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID	KCP4-SO-274-B-110506	Injected By	BAL
Lab ID	10156791001	Instrument ID	10MSHR05 (F)
Filename	F110515B_11	GC Column ID	USA209122H
Analyzed	05/15/2011 22:24	ICAL ID	F110501

Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		32:37	6.35e7	4.12e7	1.28e7	8.11e6	1.082e4	4.541e3	1.54	
1,2,3,7,8-PeCDD		32:39	2.81e4	5.42e4	4.47e4	1.02e4	2.158e3	3.676e3	0.52	
Other PeCDD	1	31:60	4.75e4	7.14e4					0.66	
	2	31:14	7.39e4	1.15e5					0.64	
	3	29:19	1.16e5	1.66e5					0.70	
	4	30:50	1.39e5	2.04e5					0.68	

Hexa-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C		36:01	4.03e7	7.74e7	9.83e6	1.87e7	1.481e3	1.532e3	0.52	
1,2,3,6,7,8-HxCDF-13C		36:09	4.69e7	8.95e7	9.80e6	1.88e7	1.685e3	3.444e3	0.52	
2,3,4,6,7,8-HxCDF-13C		36:52	4.40e7	8.42e7	1.03e7	2.03e7	9.313e2	1.601e3	0.52	
1,2,3,7,8,9-HxCDF-13C		37:50	3.78e7	7.24e7	8.12e6	1.49e7	4.392e3	3.233e3	0.52	
1,2,3,4,7,8-HxCDF		36:01	8.02e4	6.02e4	2.00e4	1.52e4	2.963e3	2.254e3	1.33	
1,2,3,6,7,8-HxCDF		36:08	1.48e5	1.57e5	3.05e4	3.08e4	2.639e3	2.553e3	0.94	I
2,3,4,6,7,8-HxCDF		36:52	5.81e4	3.57e4	1.32e4	1.04e4	3.402e3	3.496e3	1.63	I
1,2,3,7,8,9-HxCDF		37:51	ND	ND	ND	ND	2.651e3	2.969e3		
Other HxCDF	1	34:30	1.40e5	1.15e5					1.22	
	2	34:43	3.78e5	3.09e5					1.22	
	3	35:25	6.16e5	4.34e5					1.42	
	4	35:55	5.49e4	4.40e4					1.25	
Ethers	1	38:38	5.32e4	4.26e4					1.25	E
	2	35:15	1.16e5	9.10e4					1.27	E
	3	35:37	4.42e5	3.20e5					1.38	E
	4	36:39	6.65e5	5.41e5					1.23	E

Hexa-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C		37:02	6.16e7	5.03e7	1.54e7	1.23e7	7.575e4	7.341e4	1.22	
1,2,3,6,7,8-HxCDD-13C		37:10	6.34e7	5.17e7	1.41e7	1.16e7	7.749e4	1.171e4	1.23	
1,2,3,7,8,9-HxCDD-13C		37:28	7.02e7	5.53e7	1.54e7	1.18e7	1.899e3	5.307e3	1.27	
1,2,3,4,7,8-HxCDD		37:03	6.56e4	4.79e4	9.09e3	1.08e4	3.230e3	3.333e3	1.37	
1,2,3,6,7,8-HxCDD		37:12	1.31e5	1.40e5	3.23e4	3.21e4	2.940e3	4.622e3	0.93	I
1,2,3,7,8,9-HxCDD		37:30	7.31e4	5.59e4	1.34e4	1.48e4	4.269e3	4.311e3	1.31	
Other HxCDD	1	35:13	3.09e5	2.34e5					1.32	
	2	35:56	3.00e5	2.27e5					1.32	
	3	36:15	4.41e5	3.37e5					1.31	
	4	36:51	4.19e4	3.52e4					1.19	
	5	37:21	5.09e4	3.58e4					1.42	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID	KCP4-SO-274-B-110506	Injected By	BAL
Lab ID	10156791001	Instrument ID	10MSHR05 (F)
Filename	F110515B_11	GC Column ID	USA209122H
Analyzed	05/15/2011 22:24	ICAL ID	F110501

Hepta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C		39:29	3.07e7	6.88e7	7.67e6	1.69e7	1.488e4	1.558e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C		41:08	2.26e7	5.10e7	5.12e6	1.23e7	1.112e4	1.146e4	0.44	
1,2,3,4,6,7,8-HpCDF		39:30	7.59e5	7.99e5	1.78e5	1.88e5	4.359e3	3.928e3	0.95	
1,2,3,4,7,8,9-HpCDF		41:08	7.43e4	6.97e4	1.14e4	1.42e4	4.359e3	2.397e3	1.07	
Other HpCDF	1	39:60	2.06e6	2.09e6					0.99	
Ethers	1	40:12	4.41e5	4.61e5					0.96	E

Hepta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C		40:37	4.49e7	4.04e7	1.15e7	1.01e7	4.525e4	8.342e3	1.11	
1,2,3,4,6,7,8-HpCDD		40:38	3.09e6	3.10e6	6.94e5	8.31e5	3.201e3	5.976e3	0.99	
Other HpCDD	1	39:48	3.42e6	3.25e6					1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:51	1.53e6	1.79e6	3.56e5	3.88e5	7.071e3	5.934e3	0.86	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:40	5.37e7	6.01e7	1.07e7	1.24e7	1.852e3	3.475e3	0.89	
OCDD	43:40	1.94e7	2.20e7	4.07e6	4.67e6	5.821e3	4.675e3	0.88	

REPORT OF LABORATORY ANALYSIS

Appendix E

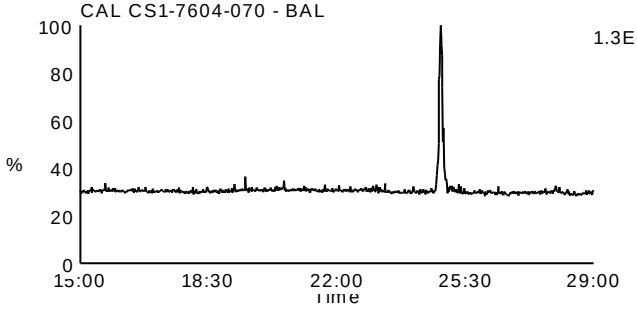
Calibration Raw Data

Homologue Group: Tetras

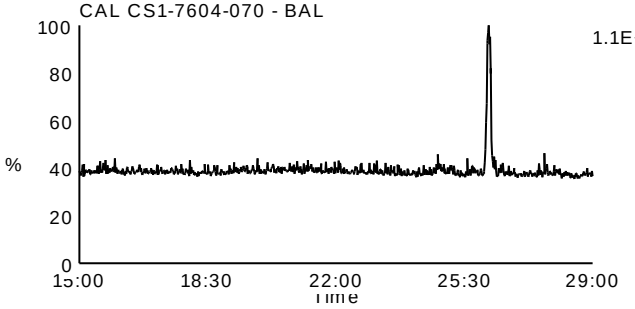
Data File Name: F110501B_04
Date Acquired: 5/1/2011
Sample Description: CAL CS1-7604-070 - BAL

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR05 (F)

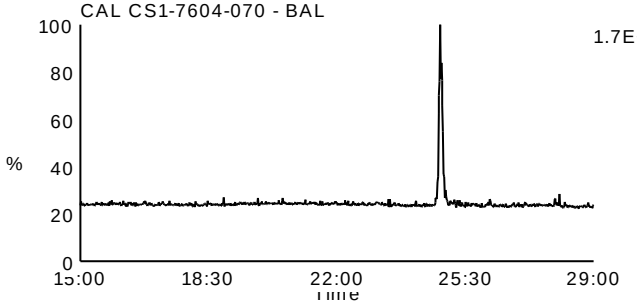
Data File: F110501B 04 G1 C1 - 303.9016
CAL CS1-7604-070 - BAL



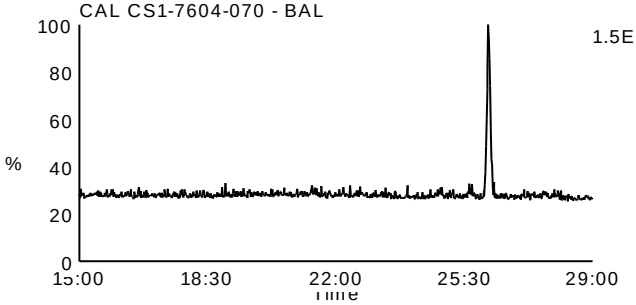
Data File: F110501B 04 G1 C7 - 319.8965
CAL CS1-7604-070 - BAL



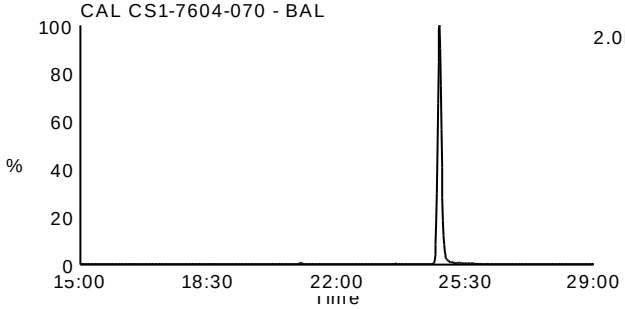
Data File: F110501B_04 G1 C2 - 305.8987
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G1 C8 - 321.8936
CAL CS1-7604-070 - BAL



Data File: F110501B 04 G1 C3 - 315.9418
CAL CS1-7604-070 - BAL



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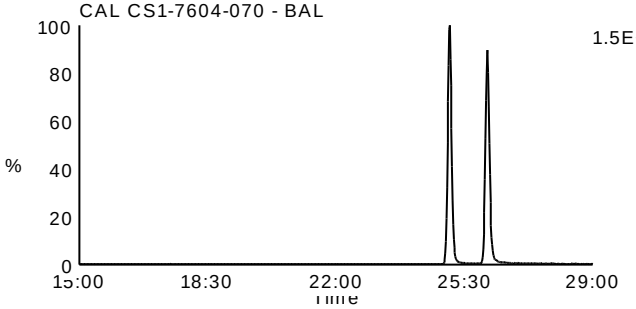
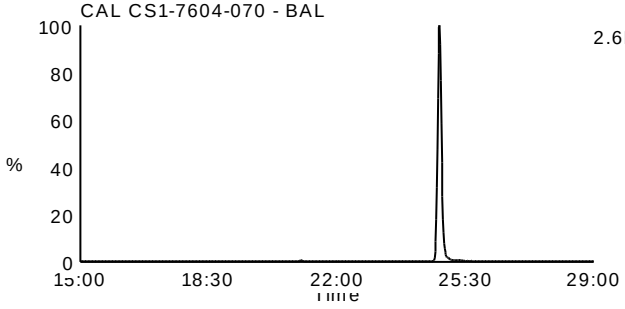
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G1 C4 - 317.9389
CAL CS1-7604-070 - BAL



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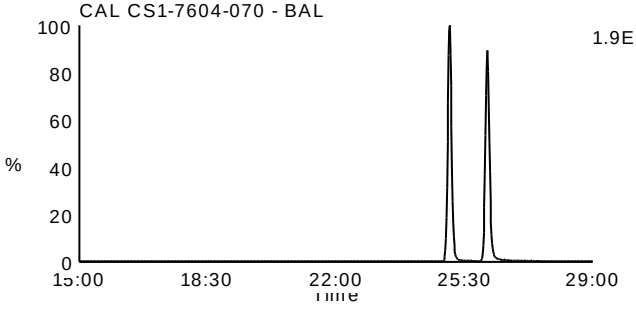
CAL CS1-7604-070 - BAL



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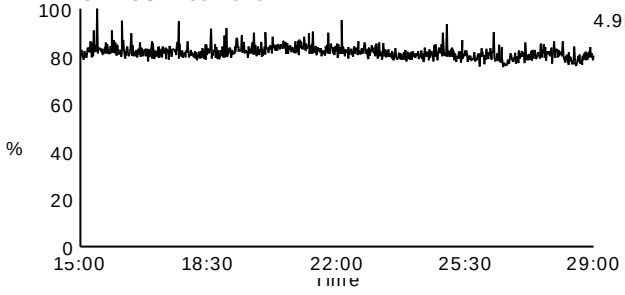
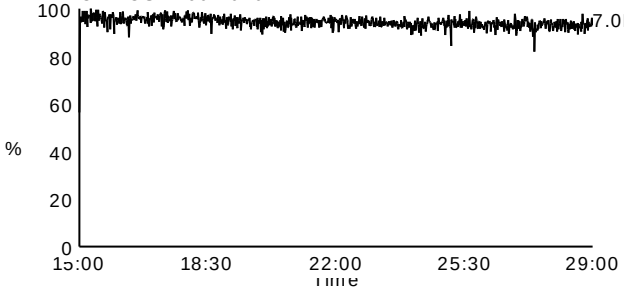
CAL CS1-7604-070 - BAL



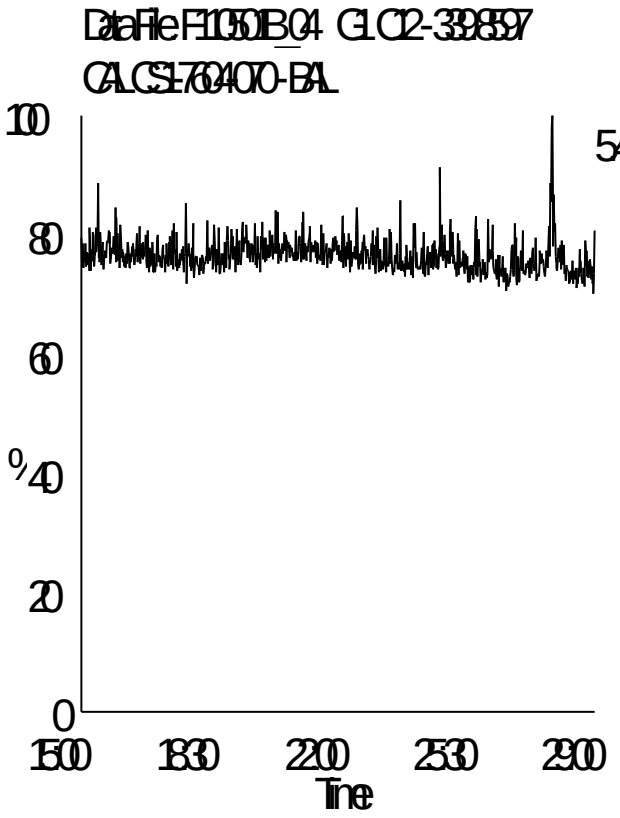
Data File: F110501B_04 G1 C5 - 318.9792
CAL CS1-7604-070 - BAL

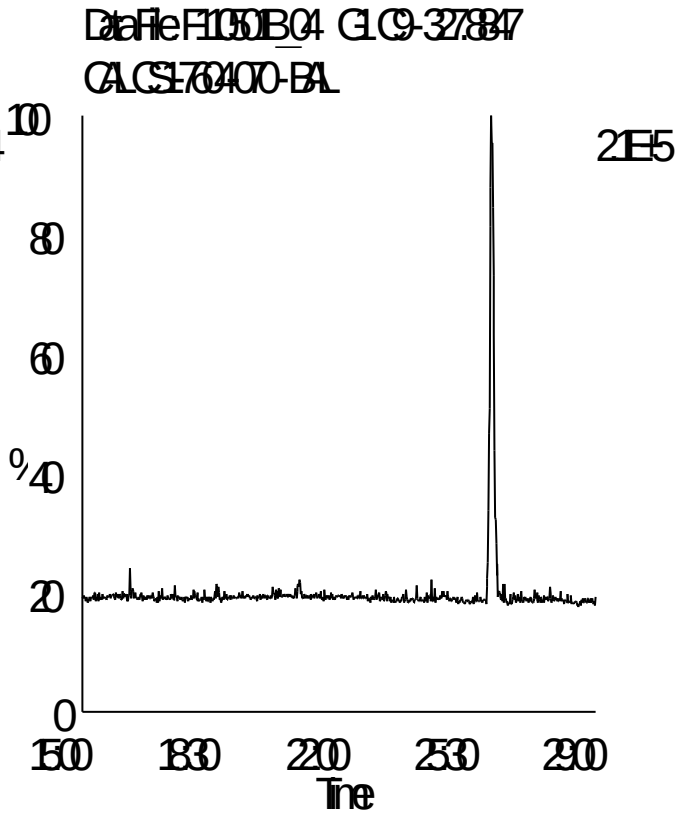


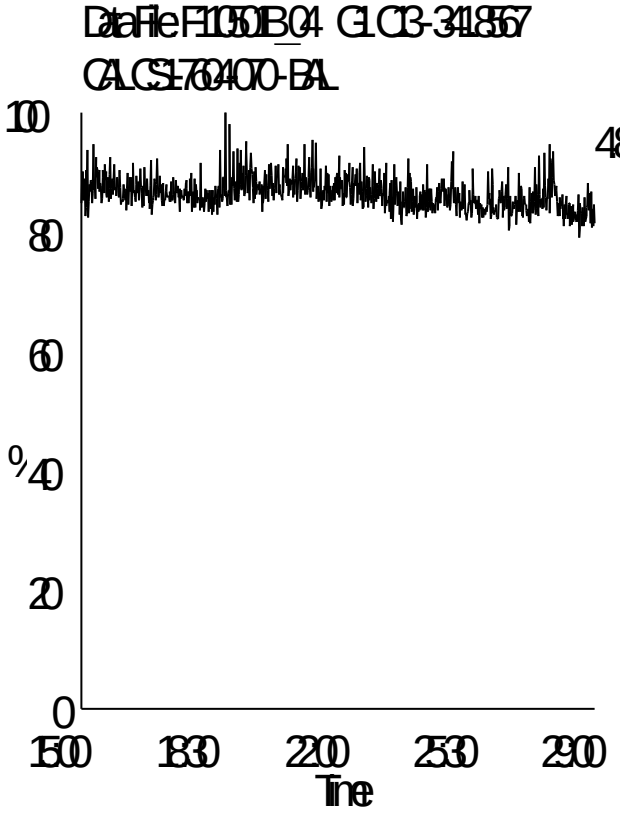
Homologue Group: Penta & Cleanup

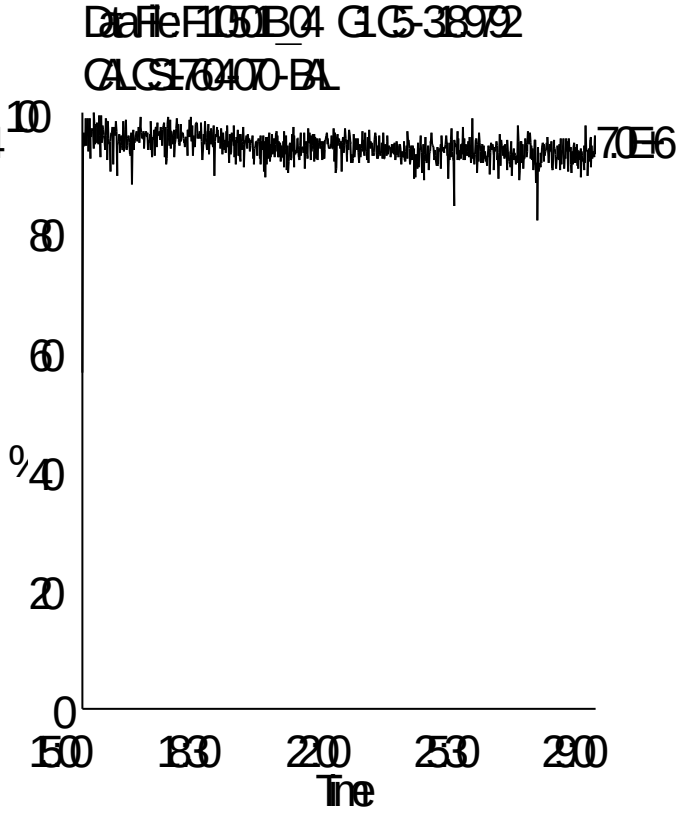
Data File Name: F110501B_04
Date Acquired: 5/1/2011
Sample Description: CAL CS1-7604-070 - BAL

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR05 (F)







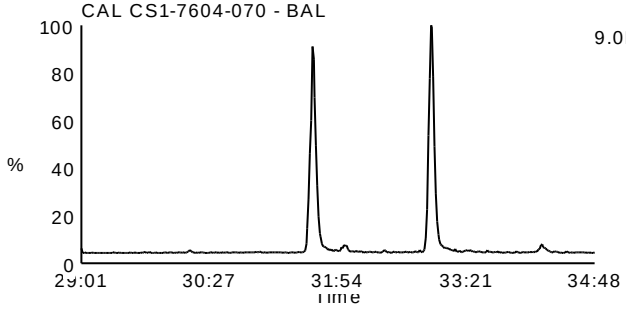


Homologue Group: Pentas

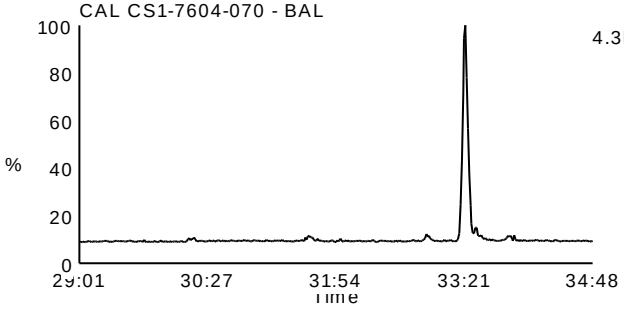
Data File Name: F110501B_04
Date Acquired: 5/1/2011
Sample Description: CAL CS1-7604-070 - BAL

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR05 (F)

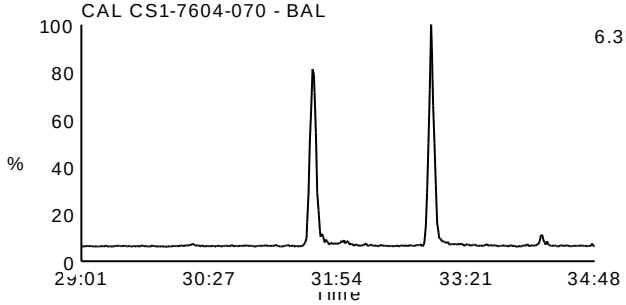
Data File: F110501B 04 G2 C1 - 339.8597
CAL CS1-7604-070 - BAL



Data File: F110501B 04 G2 C4 - 353.8576
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G2 C2 - 341.8567
CAL CS1-7604-070 - BAL



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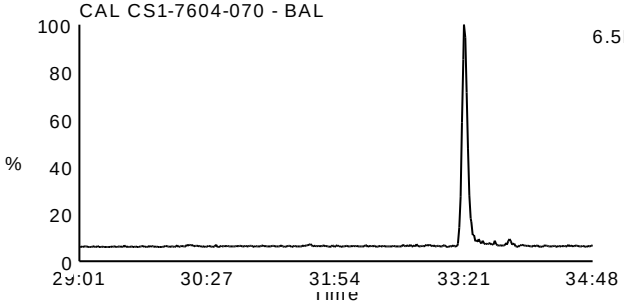
CAL CS1-7604-070 - BAL



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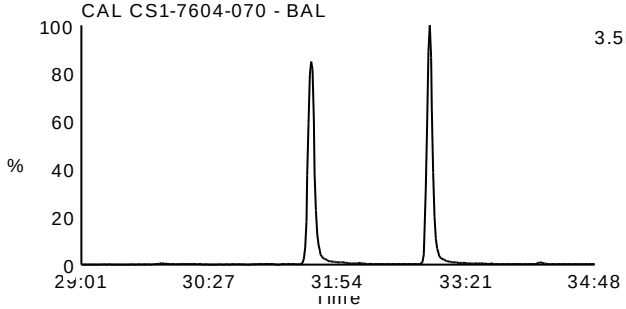
CAL CS1-7604-070 - BAL



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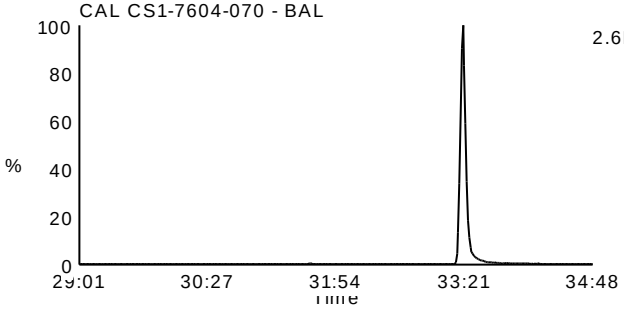
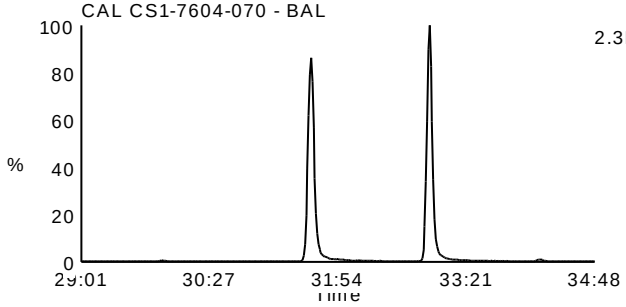
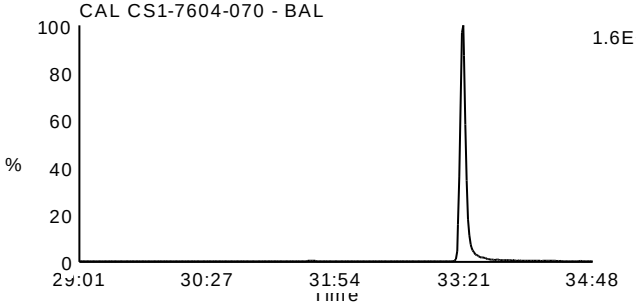
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G2 C5 - 353.8969
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G2 C11 - 369.8918
CAL CS1-7604-070 - BAL



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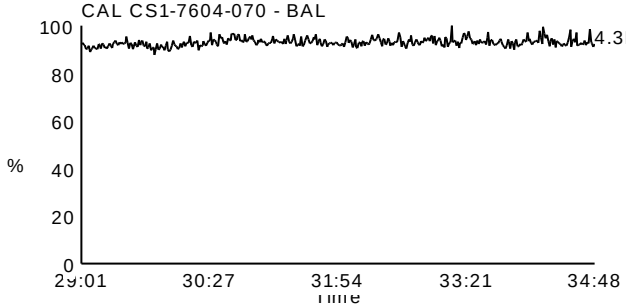
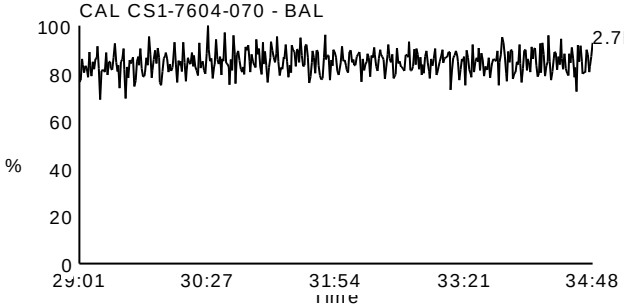
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G2 C6 - 354.9792
CAL CS1-7604-070 - BAL

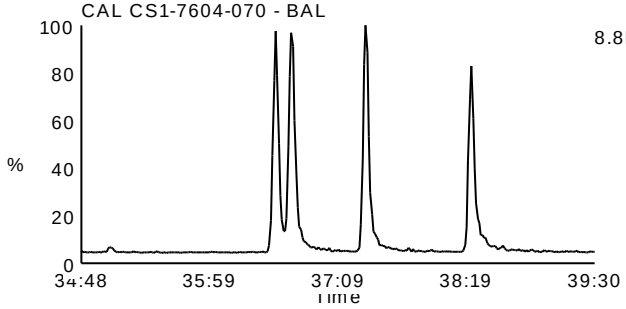


Homologue Group: Hexas

Data File Name: F110501B_04
Date Acquired: 5/1/2011
Sample Description: CAL CS1-7604-070 - BAL

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR05 (F)

Data File: F110501B 04 G3 C1 - 373.8207
CAL CS1-7604-070 - BAL



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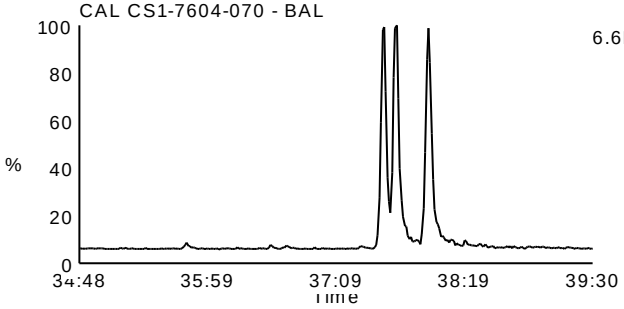
CAL CS1-7604-070 - BAL



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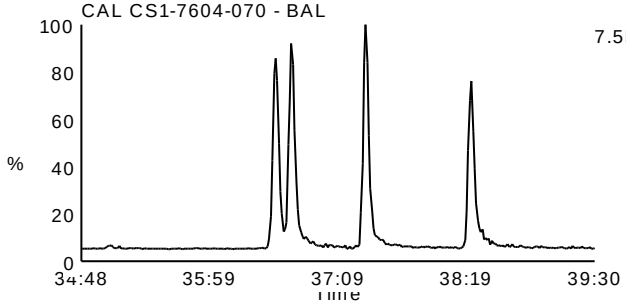
CAL CS1-7604-070 - BAL



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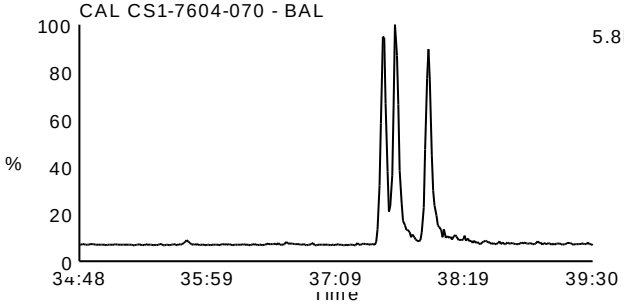
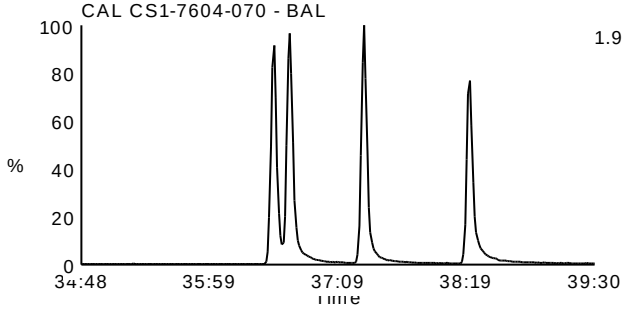
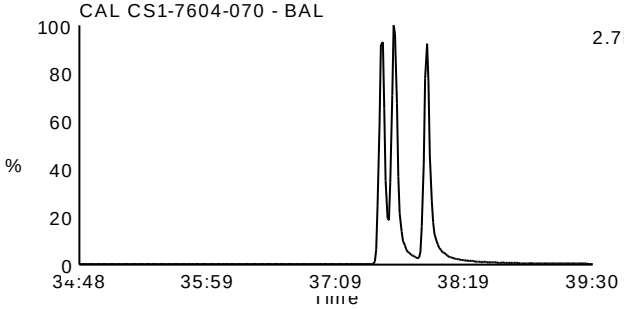
CAL CS1-7604-070 - BAL



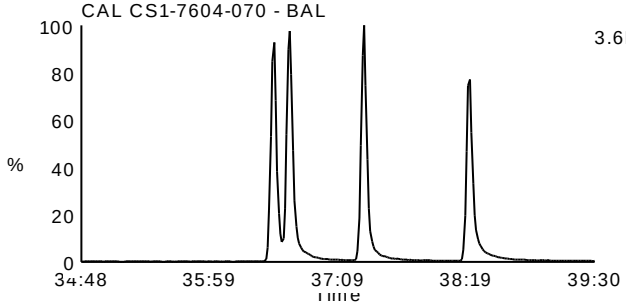
Data File: F110501B 04 G3 C5 - 383.8639
CAL CS1-7604-070 - BAL



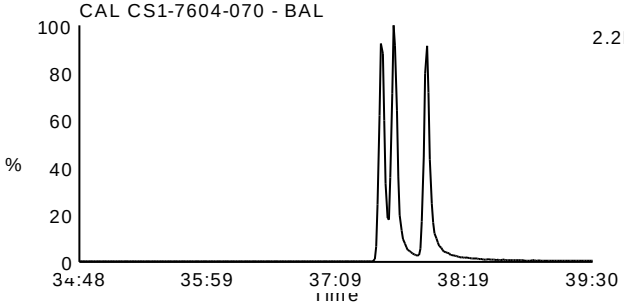
Data File: F110501B 04 G3 C9 - 401.8559
CAL CS1-7604-070 - BAL



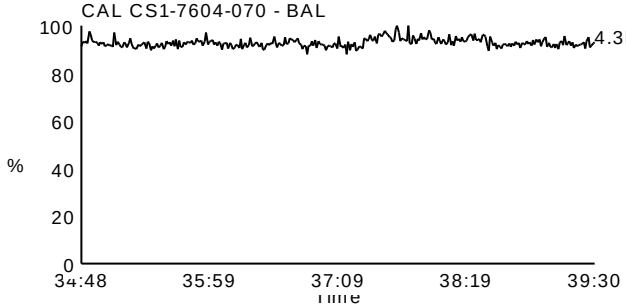
Data File: F110501B_04 G3 C6 - 385.861
CAL CS1-7604-070 - BAL



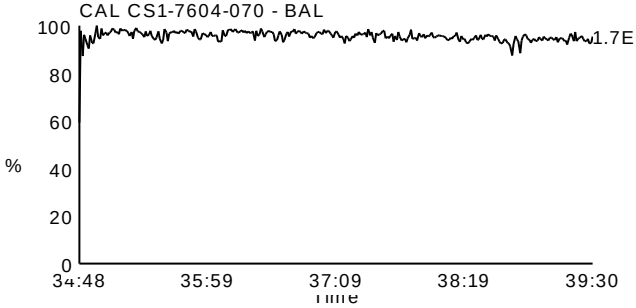
Data File: F110501B_04 G3 C10 - 403.8529
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G3 C11 - 445.7555
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G3 C3 - 380.976
CAL CS1-7604-070 - BAL

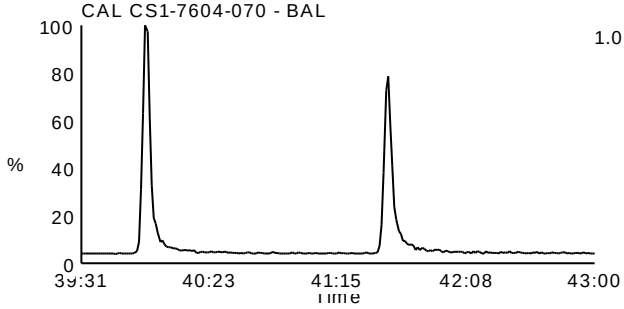


Homologue Group: Heptas

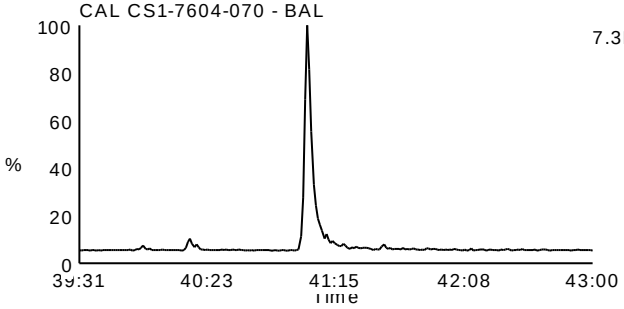
Data File Name: F110501B_04
Date Acquired: 5/1/2011
Sample Description: CAL CS1-7604-070 - BAL

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR05 (F)

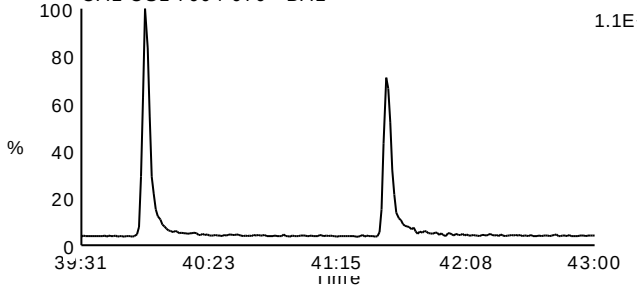
Data File: F110501B 04 G4 C3 - 407.7818
CAL CS1-7604-070 - BAL



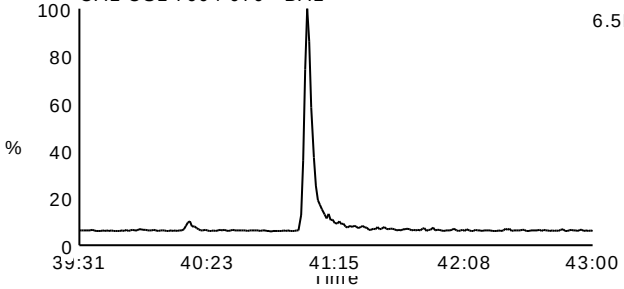
Data File: F110501B 04 G4 C8 - 423.7767
CAL CS1-7604-070 - BAL



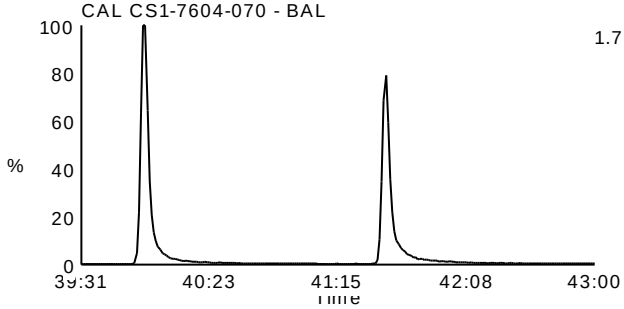
Data File: F110501B_04 G4 C4 - 409.7788
CAL CS1-7604-070 - BAL



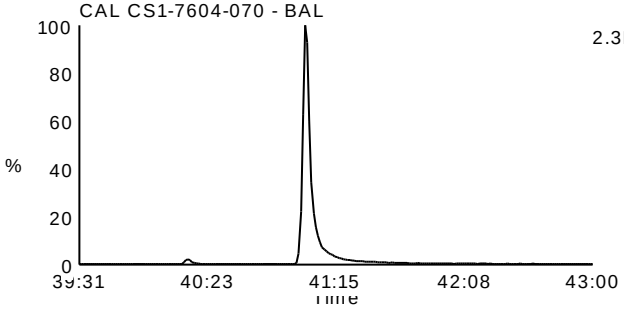
Data File: F110501B_04 G4 C9 - 425.7737
CAL CS1-7604-070 - BAL



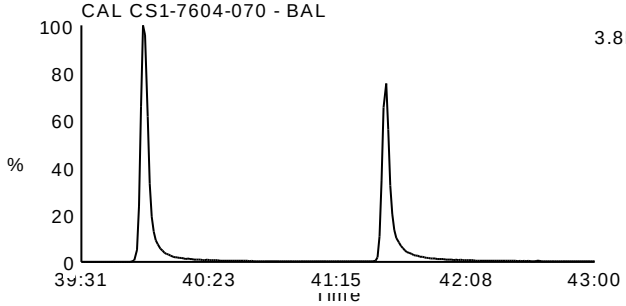
Data File: F110501B 04 G4 C6 - 417.825
CAL CS1-7604-070 - BAL



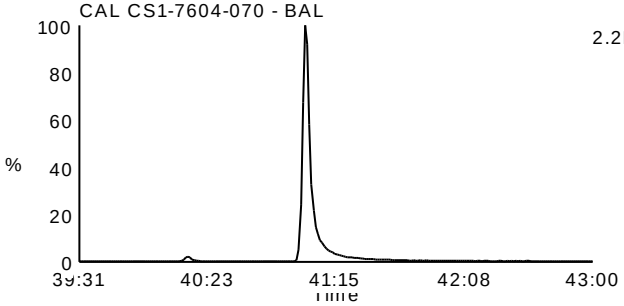
Data File: F110501B 04 G4 C11 - 435.8169
CAL CS1-7604-070 - BAL



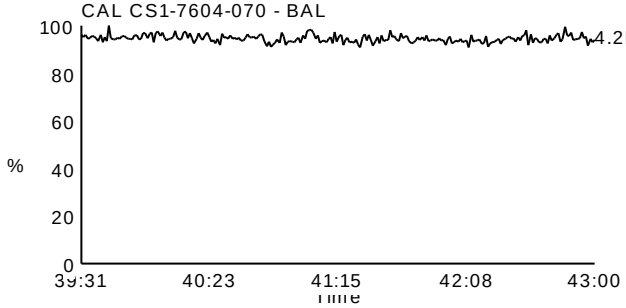
Data File: F110501B_04 G4 C7 - 419.822
CAL CS1-7604-070 - BAL



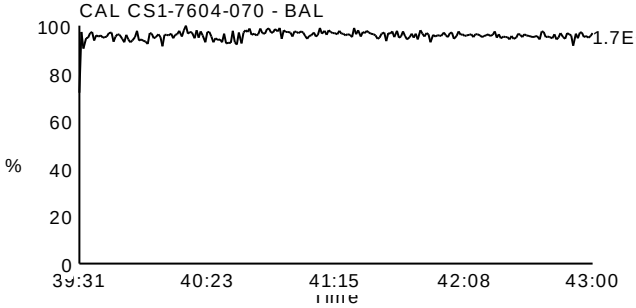
Data File: F110501B_04 G4 C12 - 437.814
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G4 C13 - 479.7165
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G4 C1 - 380.976
CAL CS1-7604-070 - BAL

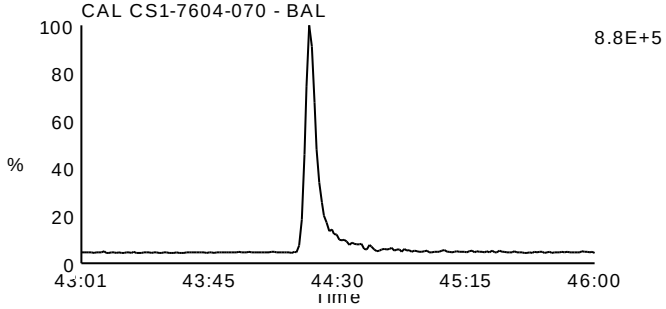


Homologue Group: Octas

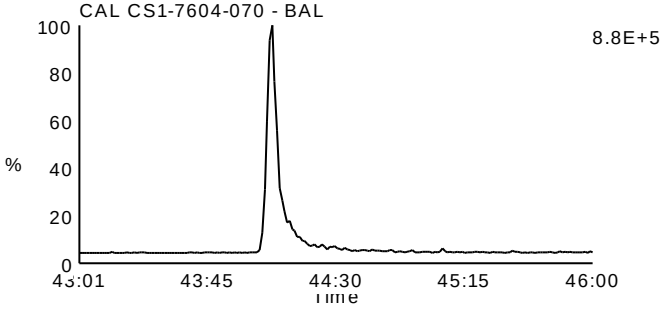
Data File Name: F110501B_04
Date Acquired: 5/1/2011
Sample Description: CAL CS1-7604-070 - BAL

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR05 (F)

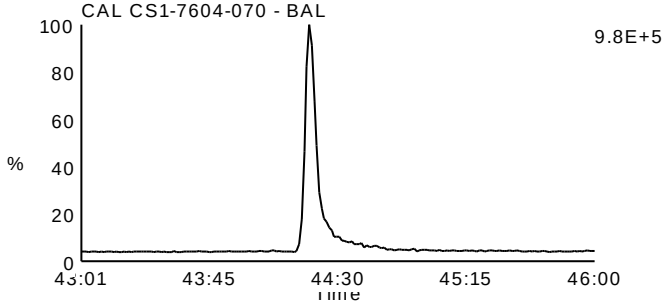
Data File: F110501B 04 G5 C4 - 441.7428
CAL CS1-7604-070 - BAL



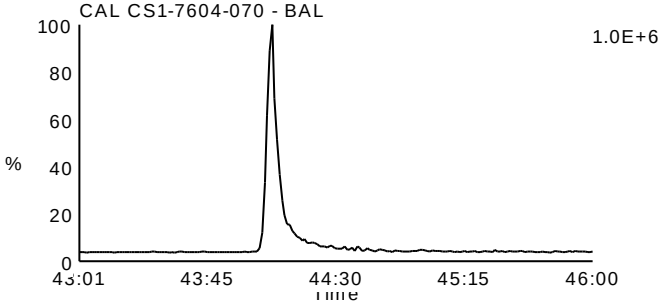
Data File: F110501B 04 G5 C8 - 457.7377
CAL CS1-7604-070 - BAL



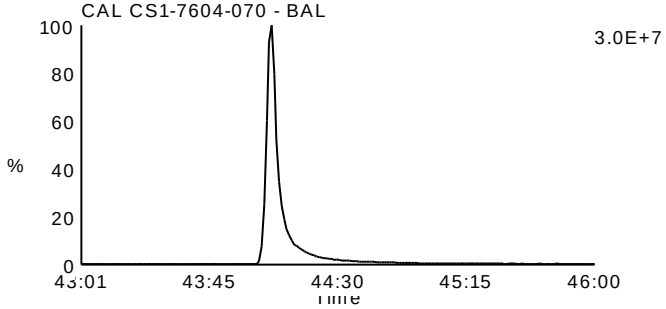
Data File: F110501B_04 G5 C5 - 443.7398
CAL CS1-7604-070 - BAL



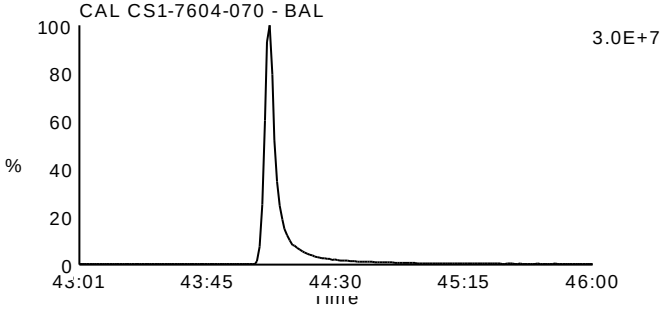
Data File: F110501B_04 G5 C9 - 459.7347
CAL CS1-7604-070 - BAL



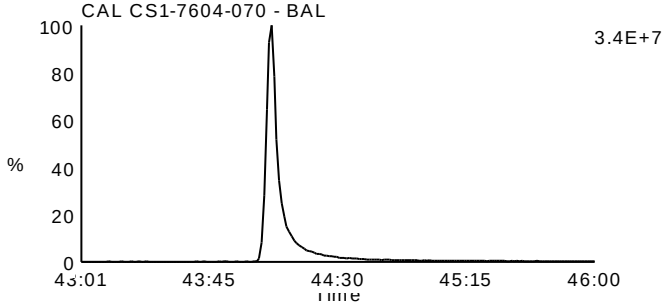
Data File: F110501B 04 G5 C11 - 469.7779
CAL CS1-7604-070 - BAL



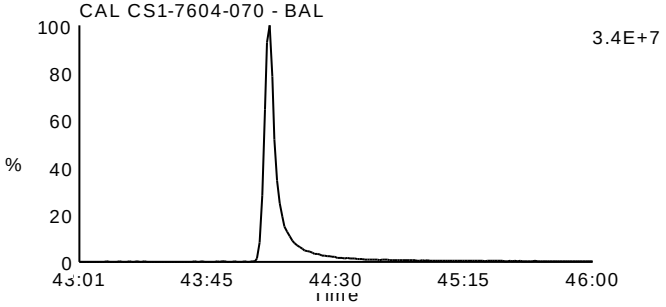
Data File: F110501B 04 G5 C11 - 469.7779
CAL CS1-7604-070 - BAL



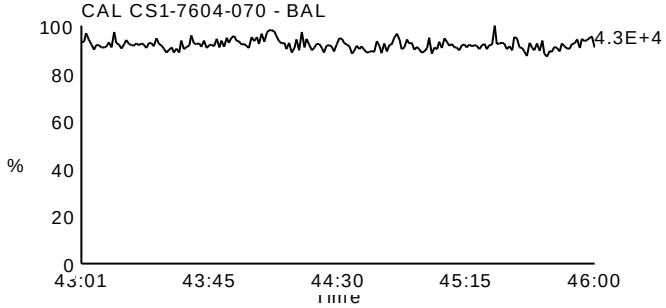
Data File: F110501B_04 G5 C12 - 471.7749
CAL CS1-7604-070 - BAL



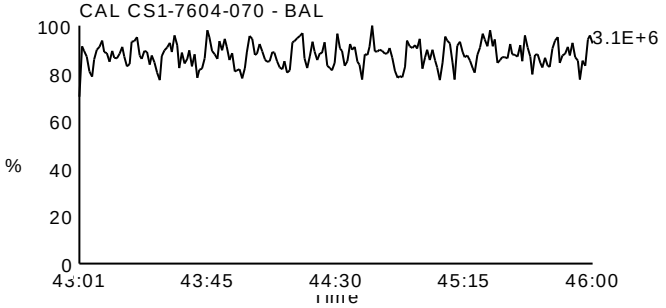
Data File: F110501B_04 G5 C12 - 471.7749
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G5 C13 - 513.6775
CAL CS1-7604-070 - BAL



Data File: F110501B_04 G5 C2 - 430.9728
CAL CS1-7604-070 - BAL

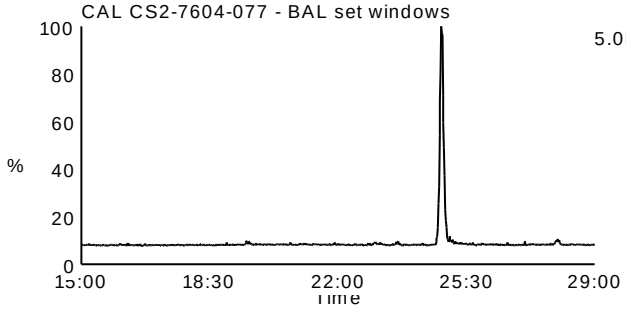


Homologue Group: Tetras

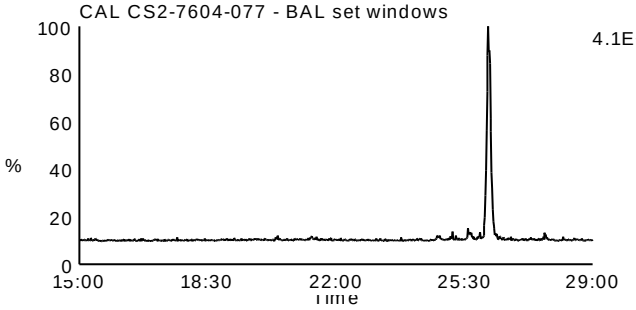
Data File Name: F110501B_03
Date Acquired: 5/1/2011
Sample Description: CAL CS2-7604-077 - BAL set windows

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR05 (F)

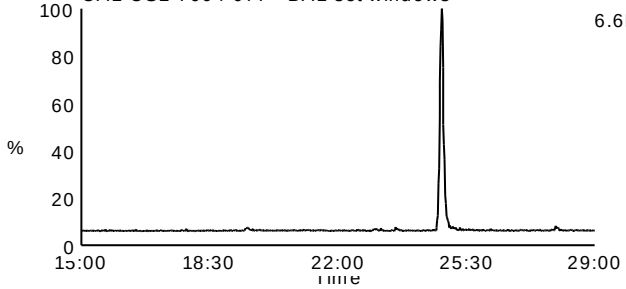
Data File: F110501B 03 G1 C1 - 303.9016
CAL CS2-7604-077 - BAL set windows



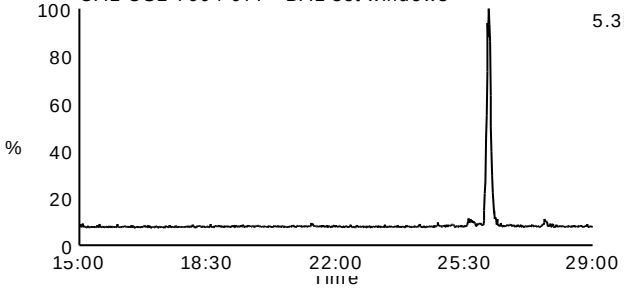
Data File: F110501B 03 G1 C7 - 319.8965
CAL CS2-7604-077 - BAL set windows



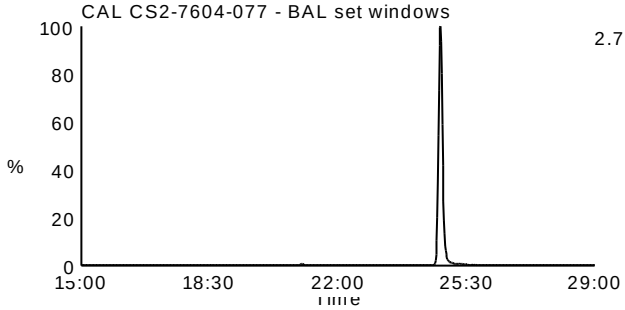
Data File: F110501B_03 G1 C2 - 305.8987
CAL CS2-7604-077 - BAL set windows



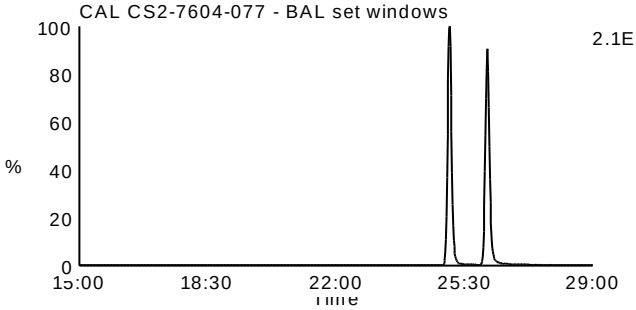
Data File: F110501B_03 G1 C8 - 321.8936
CAL CS2-7604-077 - BAL set windows



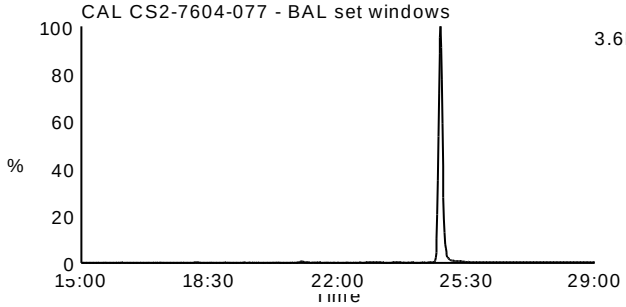
Data File: F110501B 03 G1 C3 - 315.9418
CAL CS2-7604-077 - BAL set windows



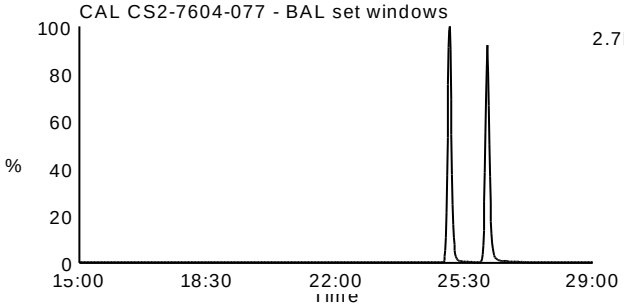
Data File: F110501B 03 G1 C10 - 331.9367
CAL CS2-7604-077 - BAL set windows



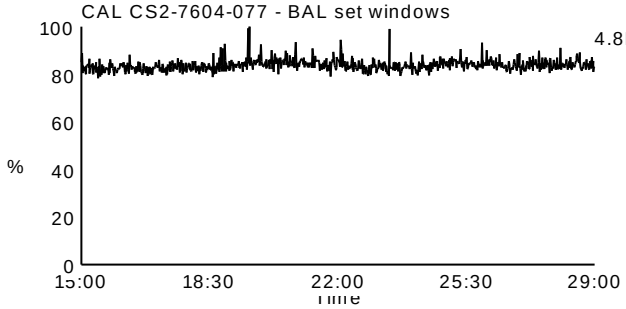
Data File: F110501B_03 G1 C4 - 317.9389
CAL CS2-7604-077 - BAL set windows



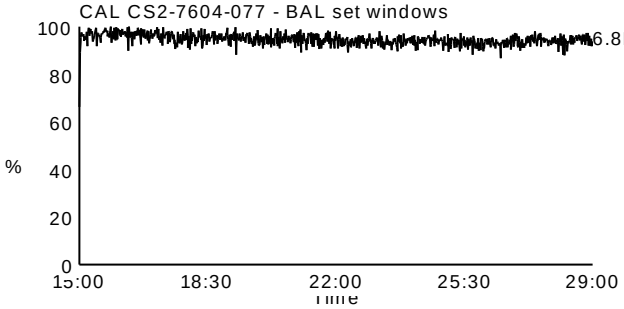
Data File: F110501B_03 G1 C11 - 333.9338
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G1 C14 - 375.8364
CAL CS2-7604-077 - BAL set windows



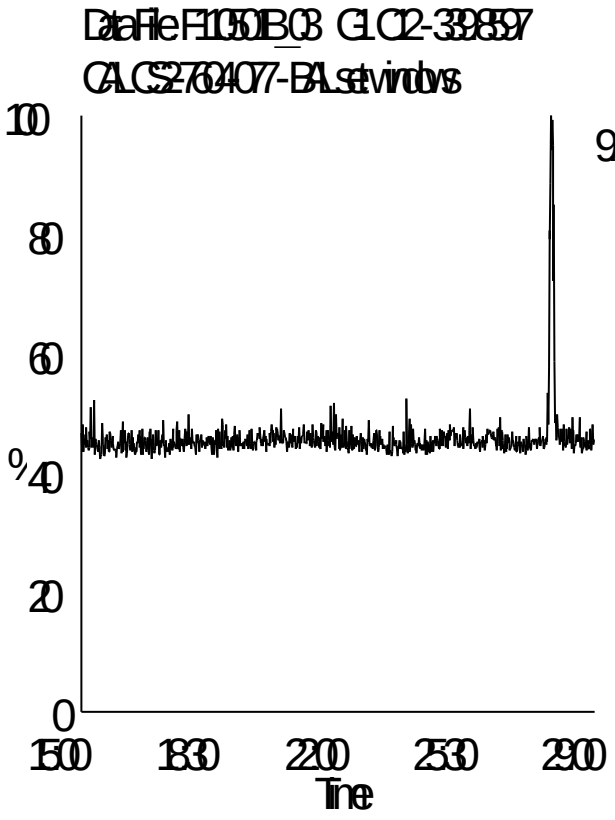
Data File: F110501B_03 G1 C5 - 318.9792
CAL CS2-7604-077 - BAL set windows

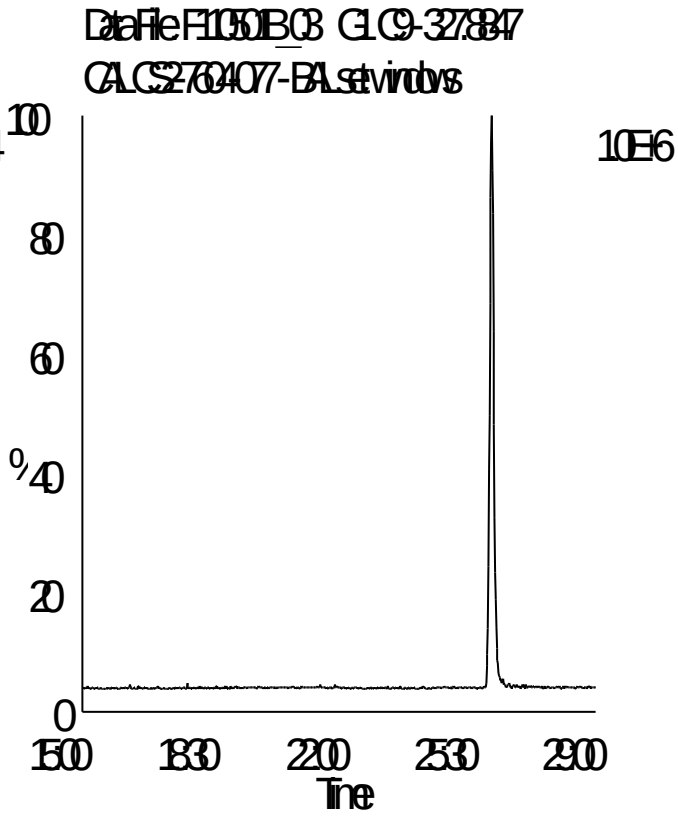


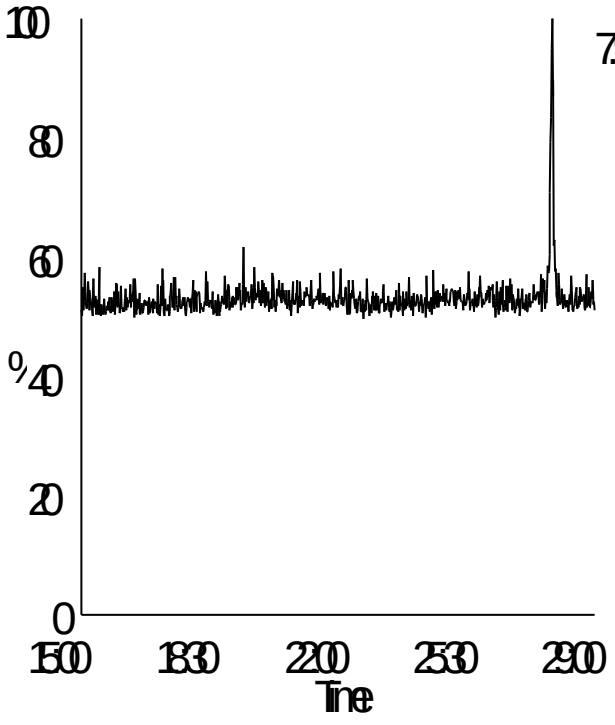
Homologue Group: Penta & Cleanup

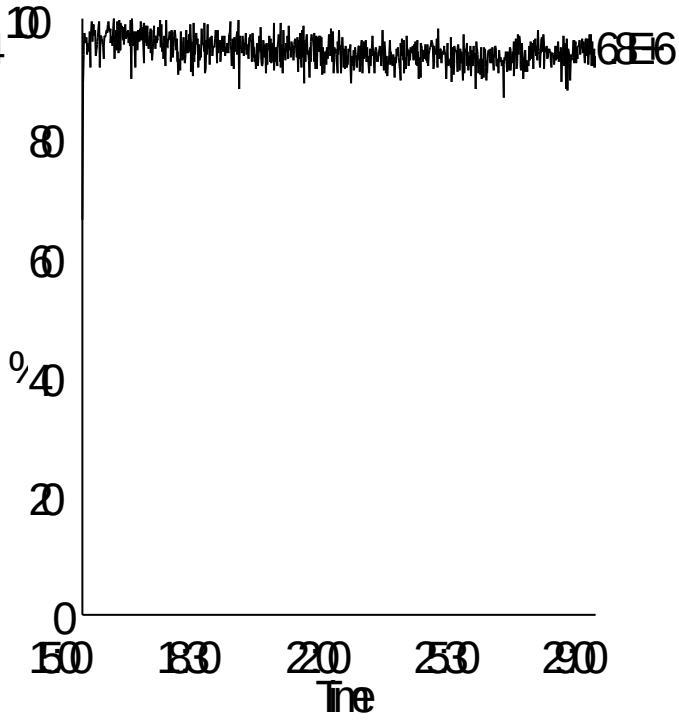
Data File Name: F110501B_03
Date Acquired: 5/1/2011
Sample Description: CAL CS2-7604-077 - BAL set windows

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR05 (F)







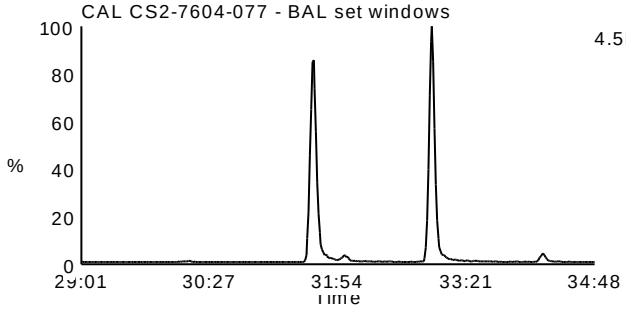


Homologue Group: Pentas

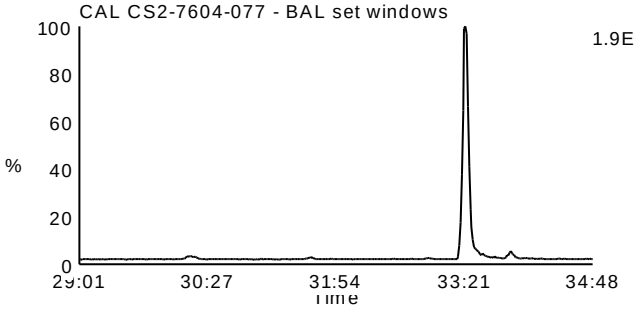
Data File Name: F110501B_03
Date Acquired: 5/1/2011
Sample Description: CAL CS2-7604-077 - BAL set windows

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR05 (F)

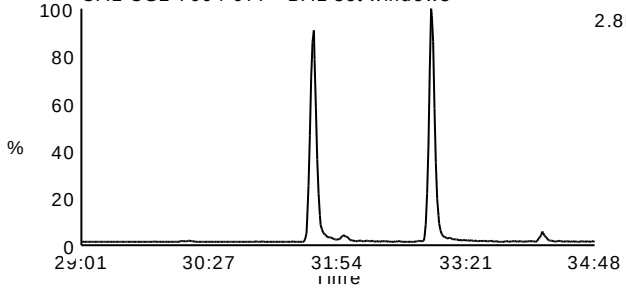
Data File: F110501B 03 G2 C1 - 339.8597
CAL CS2-7604-077 - BAL set windows



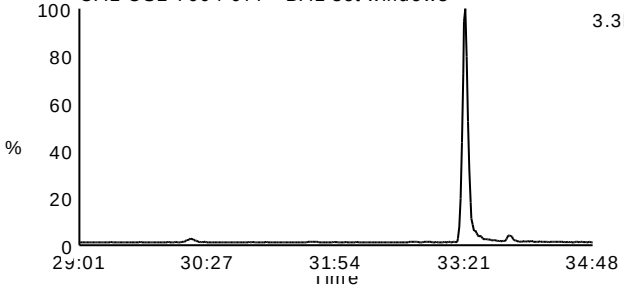
Data File: F110501B 03 G2 C4 - 353.8576
CAL CS2-7604-077 - BAL set windows



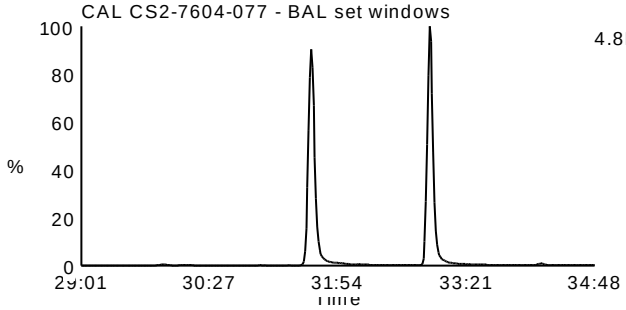
Data File: F110501B_03 G2 C2 - 341.8567
CAL CS2-7604-077 - BAL set windows



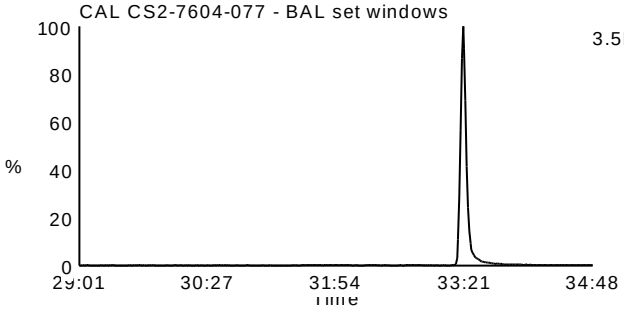
Data File: F110501B_03 G2 C8 - 355.8546
CAL CS2-7604-077 - BAL set windows



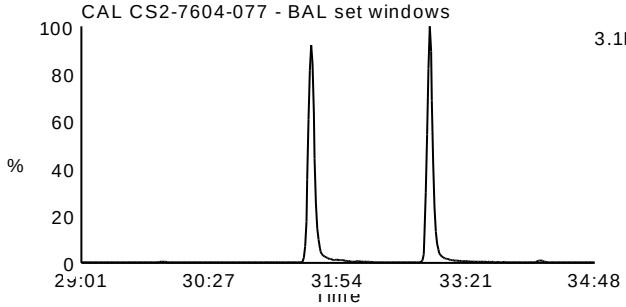
Data File: F110501B 03 G2 C3 - 351.8999
CAL CS2-7604-077 - BAL set windows



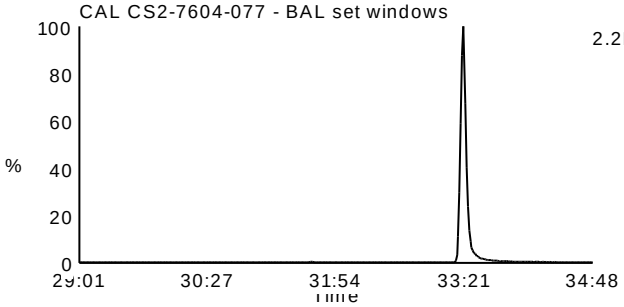
Data File: F110501B 03 G2 C10 - 367.8948
CAL CS2-7604-077 - BAL set windows



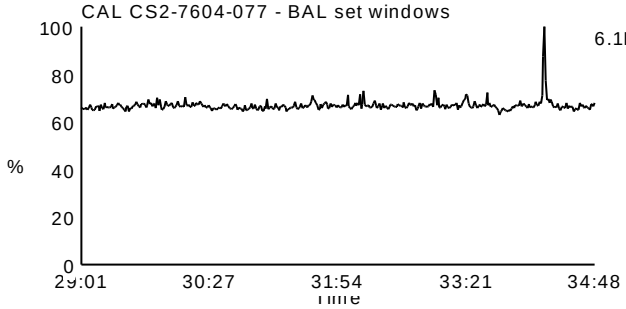
Data File: F110501B_03 G2 C5 - 353.8969
CAL CS2-7604-077 - BAL set windows



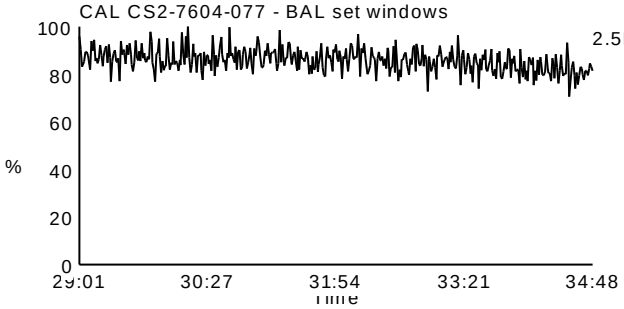
Data File: F110501B_03 G2 C11 - 369.8918
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G2 C12 - 409.7974
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G2 C6 - 354.9792
CAL CS2-7604-077 - BAL set windows

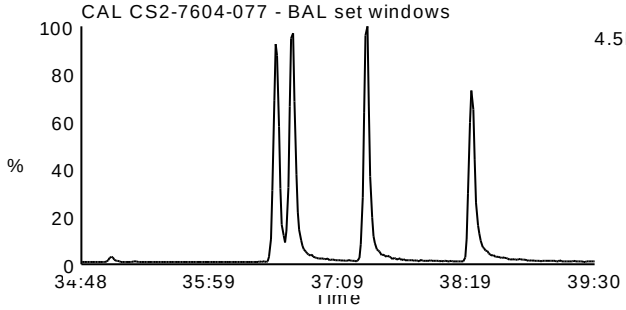


Homologue Group: Hexas

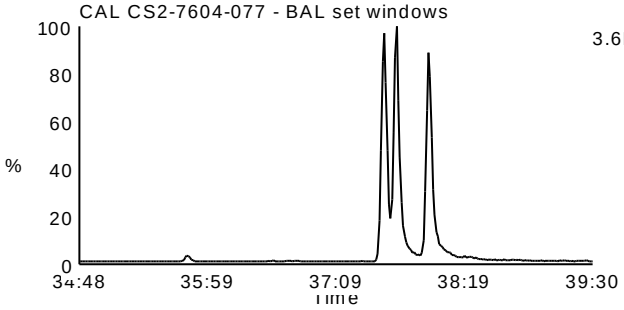
Data File Name: F110501B_03
Date Acquired: 5/1/2011
Sample Description: CAL CS2-7604-077 - BAL set windows

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR05 (F)

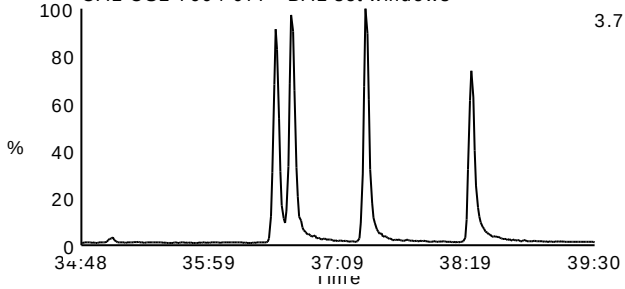
Data File: F110501B 03 G3 C1 - 373.8207
CAL CS2-7604-077 - BAL set windows



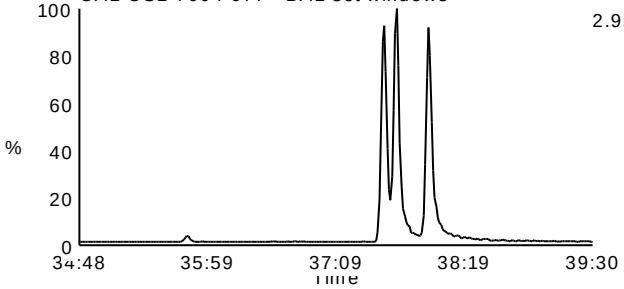
Data File: F110501B 03 G3 C7 - 389.8156
CAL CS2-7604-077 - BAL set windows



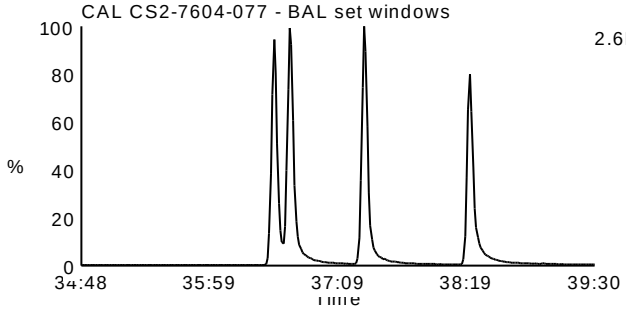
Data File: F110501B_03 G3 C2 - 375.8178
CAL CS2-7604-077 - BAL set windows



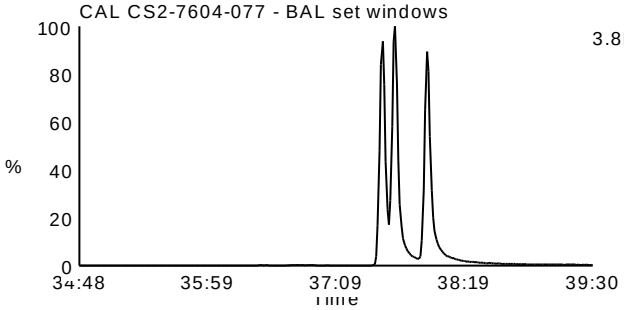
Data File: F110501B_03 G3 C8 - 391.8127
CAL CS2-7604-077 - BAL set windows



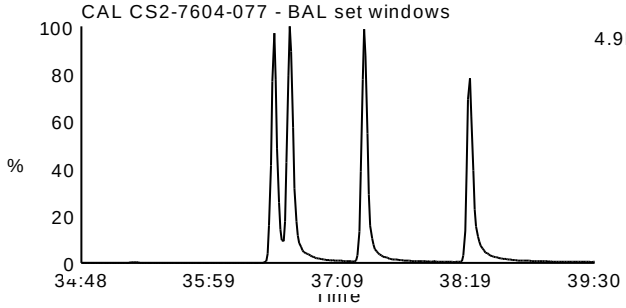
Data File: F110501B 03 G3 C5 - 383.8639
CAL CS2-7604-077 - BAL set windows



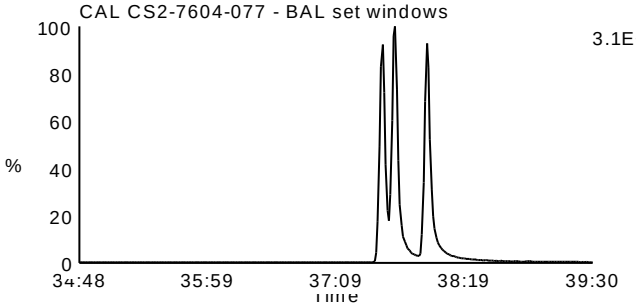
Data File: F110501B 03 G3 C9 - 401.8559
CAL CS2-7604-077 - BAL set windows



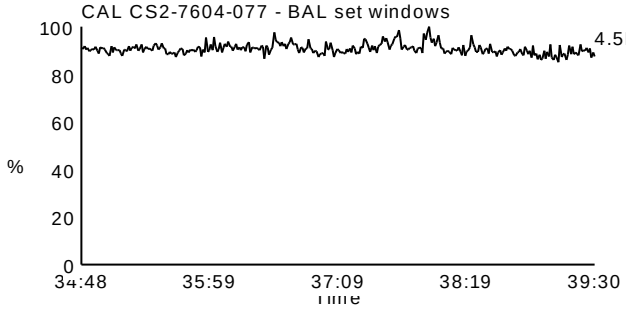
Data File: F110501B_03 G3 C6 - 385.861
CAL CS2-7604-077 - BAL set windows



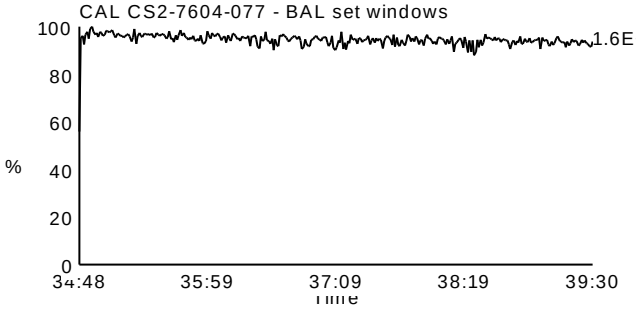
Data File: F110501B_03 G3 C10 - 403.8529
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G3 C11 - 445.7555
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G3 C3 - 380.976
CAL CS2-7604-077 - BAL set windows

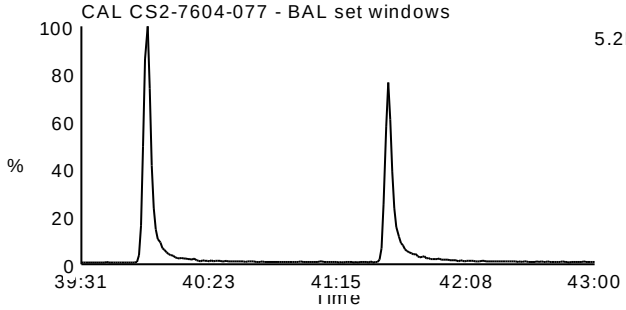


Homologue Group: Heptas

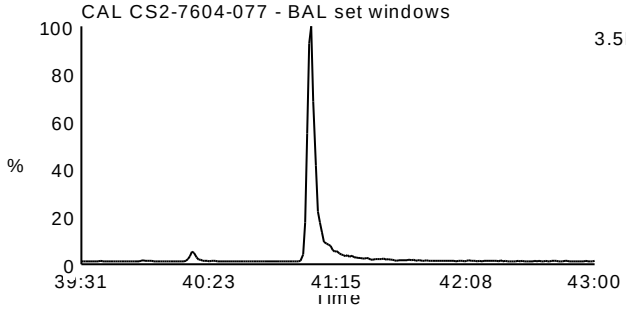
Data File Name: F110501B_03
Date Acquired: 5/1/2011
Sample Description: CAL CS2-7604-077 - BAL set windows

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR05 (F)

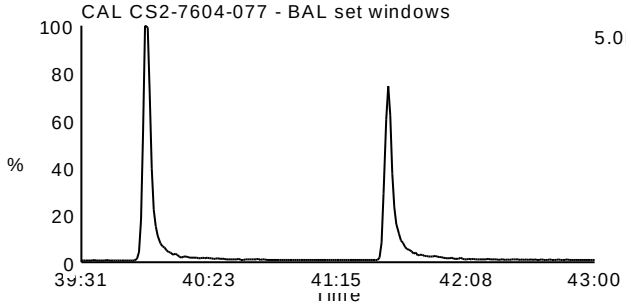
Data File: F110501B 03 G4 C3 - 407.7818
CAL CS2-7604-077 - BAL set windows



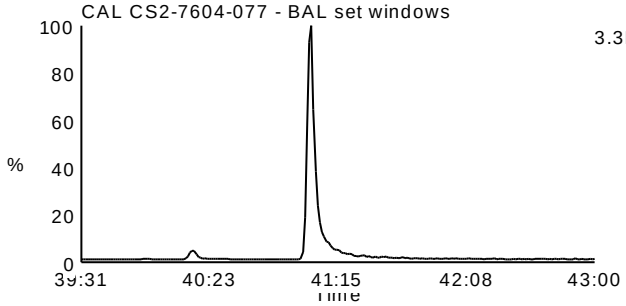
Data File: F110501B 03 G4 C8 - 423.7767
CAL CS2-7604-077 - BAL set windows



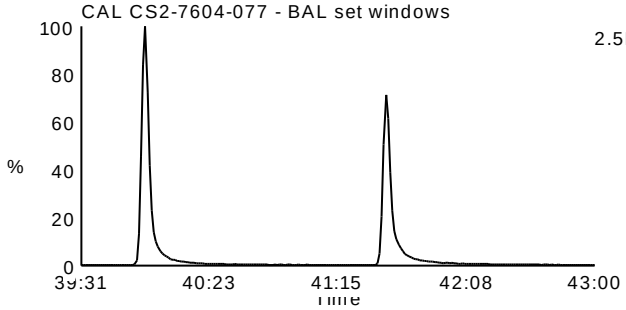
Data File: F110501B_03 G4 C4 - 409.7788
CAL CS2-7604-077 - BAL set windows



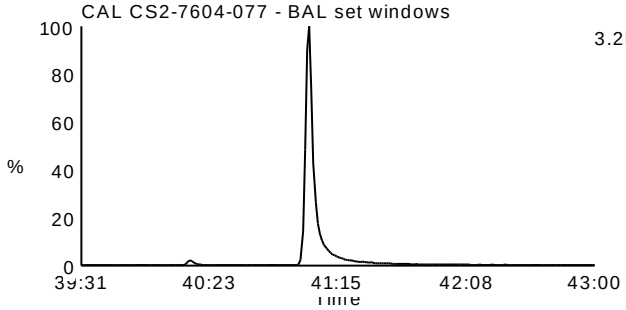
Data File: F110501B_03 G4 C9 - 425.7737
CAL CS2-7604-077 - BAL set windows



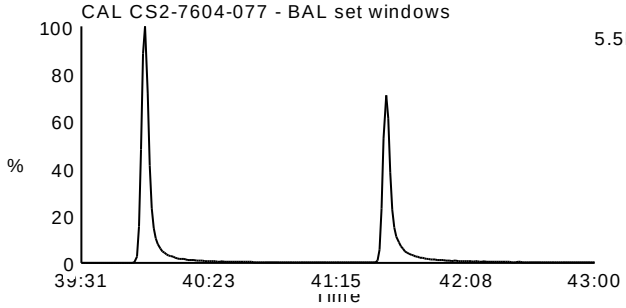
Data File: F110501B 03 G4 C6 - 417.825
CAL CS2-7604-077 - BAL set windows



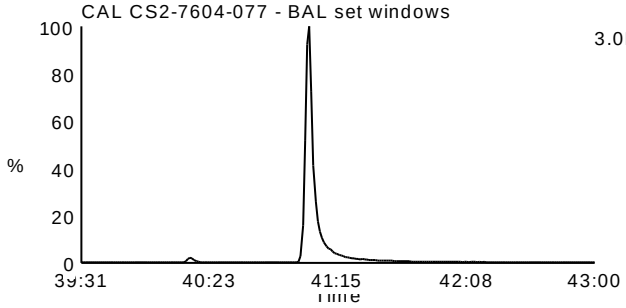
Data File: F110501B 03 G4 C11 - 435.8169
CAL CS2-7604-077 - BAL set windows



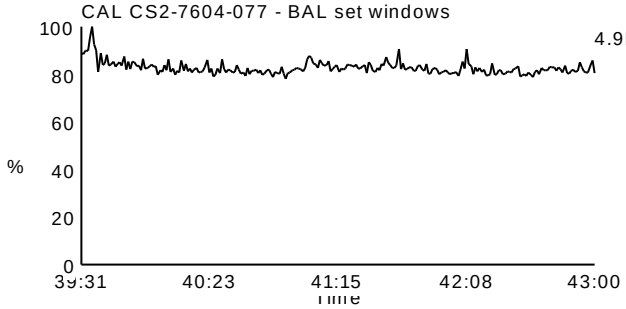
Data File: F110501B_03 G4 C7 - 419.822
CAL CS2-7604-077 - BAL set windows



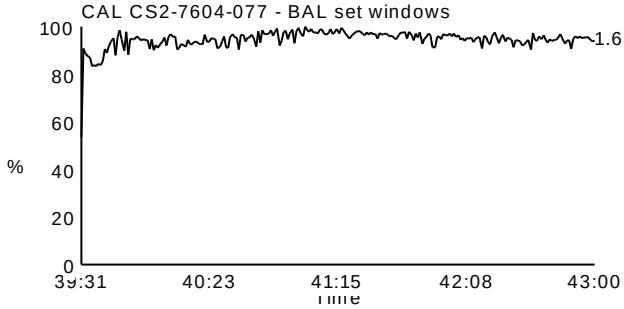
Data File: F110501B_03 G4 C12 - 437.814
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G4 C13 - 479.7165
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G4 C1 - 380.976
CAL CS2-7604-077 - BAL set windows

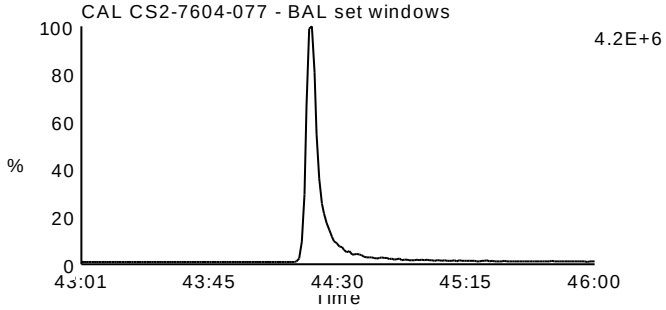


Homologue Group: Octas

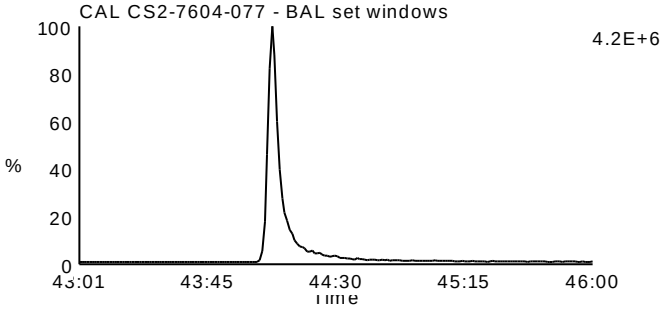
Data File Name: F110501B_03
Date Acquired: 5/1/2011
Sample Description: CAL CS2-7604-077 - BAL set windows

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR05 (F)

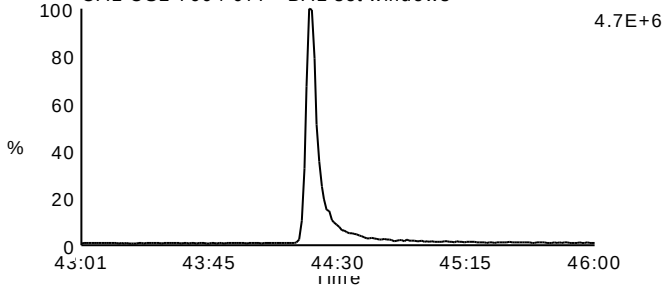
Data File: F110501B 03 G5 C4 - 441.7428
CAL CS2-7604-077 - BAL set windows



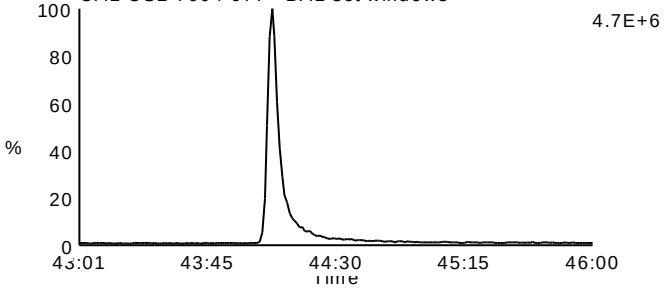
Data File: F110501B 03 G5 C8 - 457.7377
CAL CS2-7604-077 - BAL set windows



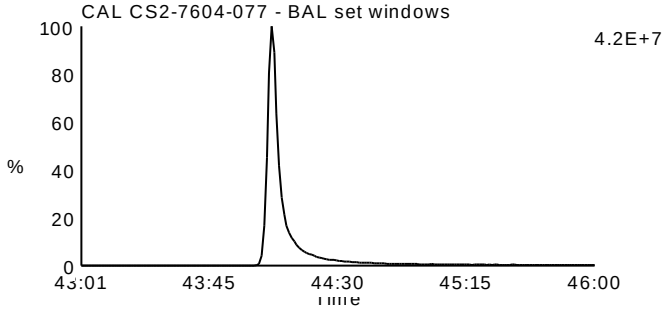
Data File: F110501B_03 G5 C5 - 443.7398
CAL CS2-7604-077 - BAL set windows



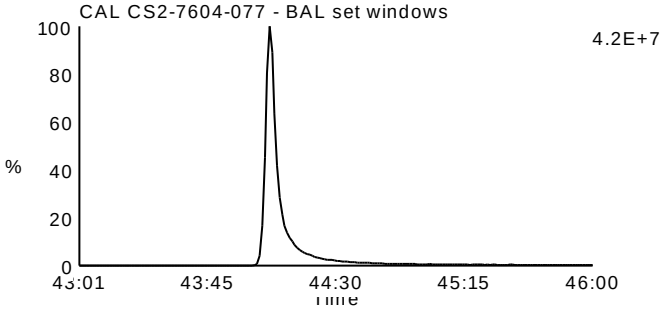
Data File: F110501B_03 G5 C9 - 459.7347
CAL CS2-7604-077 - BAL set windows



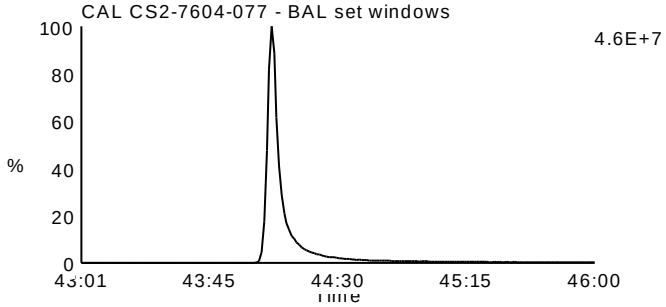
Data File: F110501B 03 G5 C11 - 469.7779
CAL CS2-7604-077 - BAL set windows



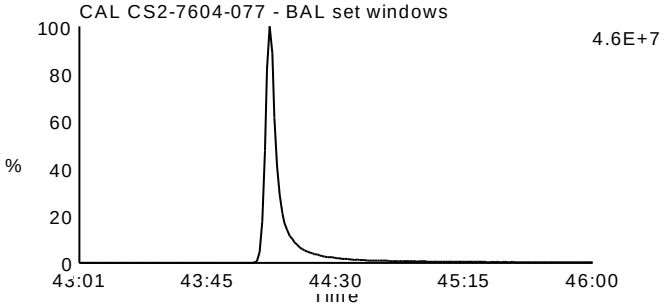
Data File: F110501B 03 G5 C11 - 469.7779
CAL CS2-7604-077 - BAL set windows



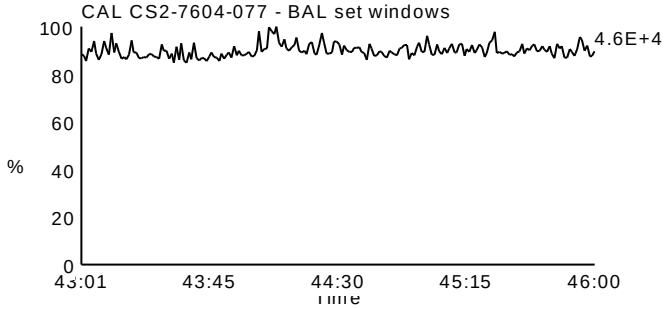
Data File: F110501B_03 G5 C12 - 471.7749
CAL CS2-7604-077 - BAL set windows



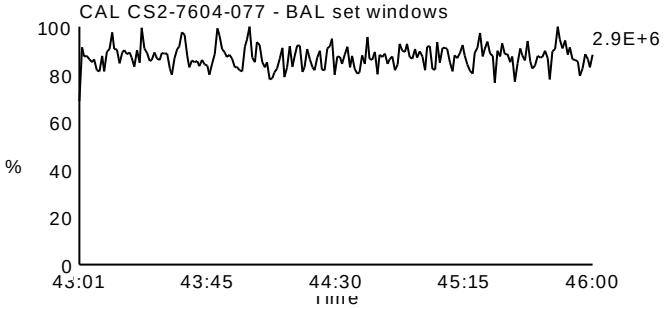
Data File: F110501B_03 G5 C12 - 471.7749
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G5 C13 - 513.6775
CAL CS2-7604-077 - BAL set windows



Data File: F110501B_03 G5 C2 - 430.9728
CAL CS2-7604-077 - BAL set windows



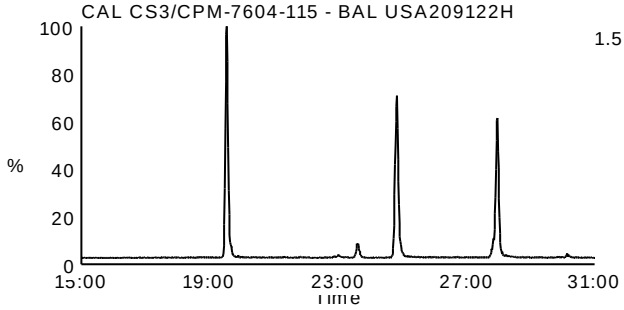
Homologue Group: Tetras

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

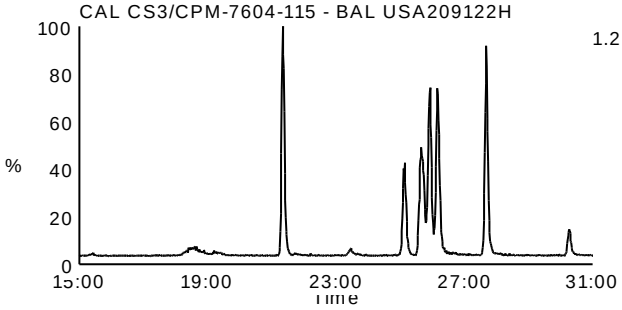
Date Acquired: 5/1/2011 Client Sample ID:

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

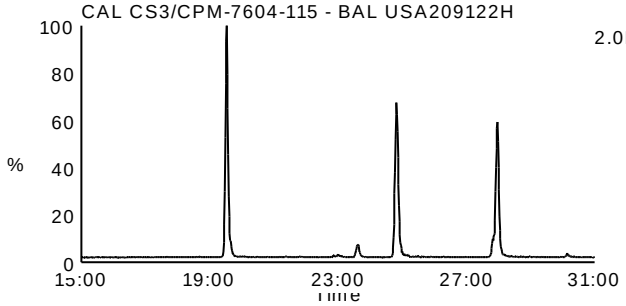
Data File: F110501B 01 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - BAL USA209122H



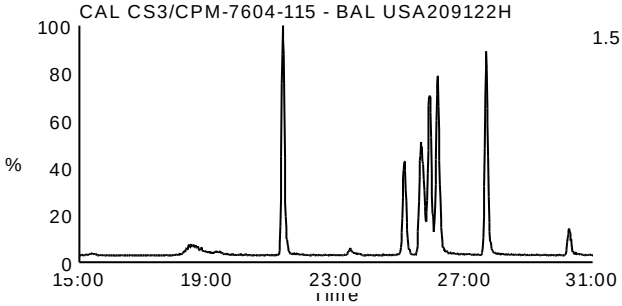
Data File: F110501B 01 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - BAL USA209122H



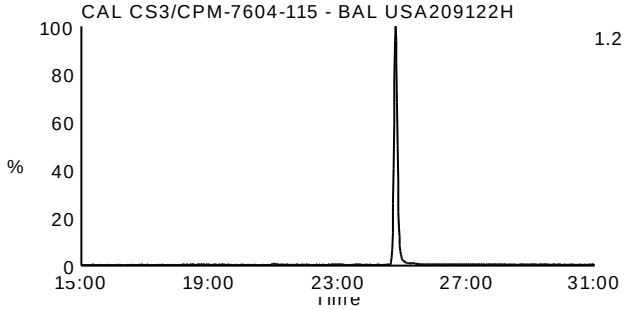
Data File: F110501B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - BAL USA209122H



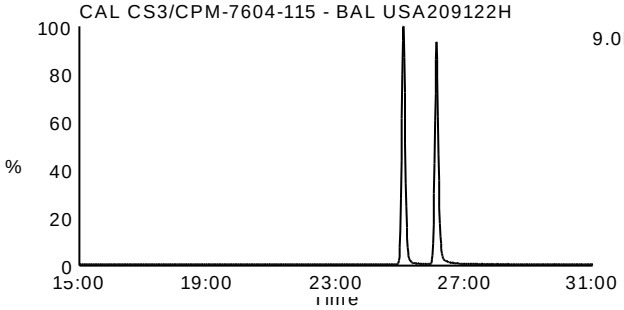
Data File: F110501B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - BAL USA209122H



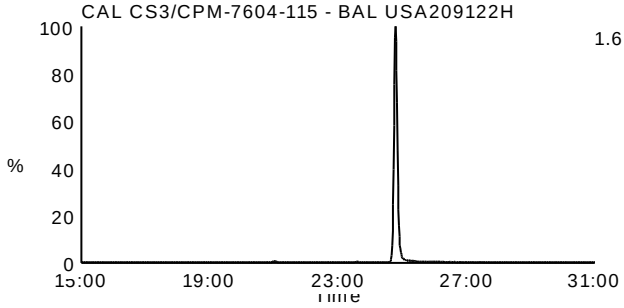
Data File: F110501B 01 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - BAL USA209122H



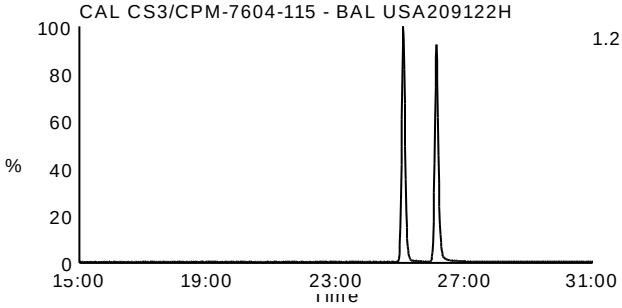
Data File: F110501B 01 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - BAL USA209122H



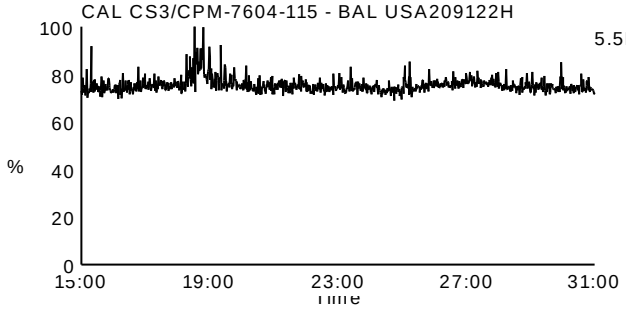
Data File: F110501B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - BAL USA209122H



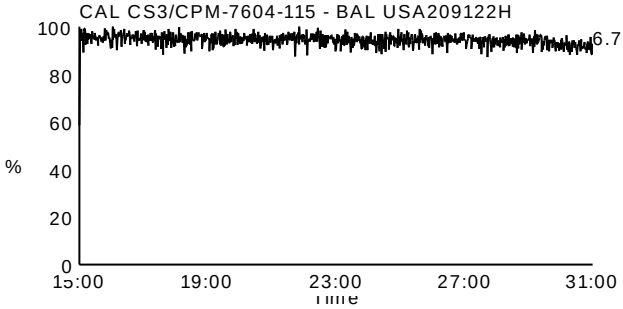
Data File: F110501B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - BAL USA209122H

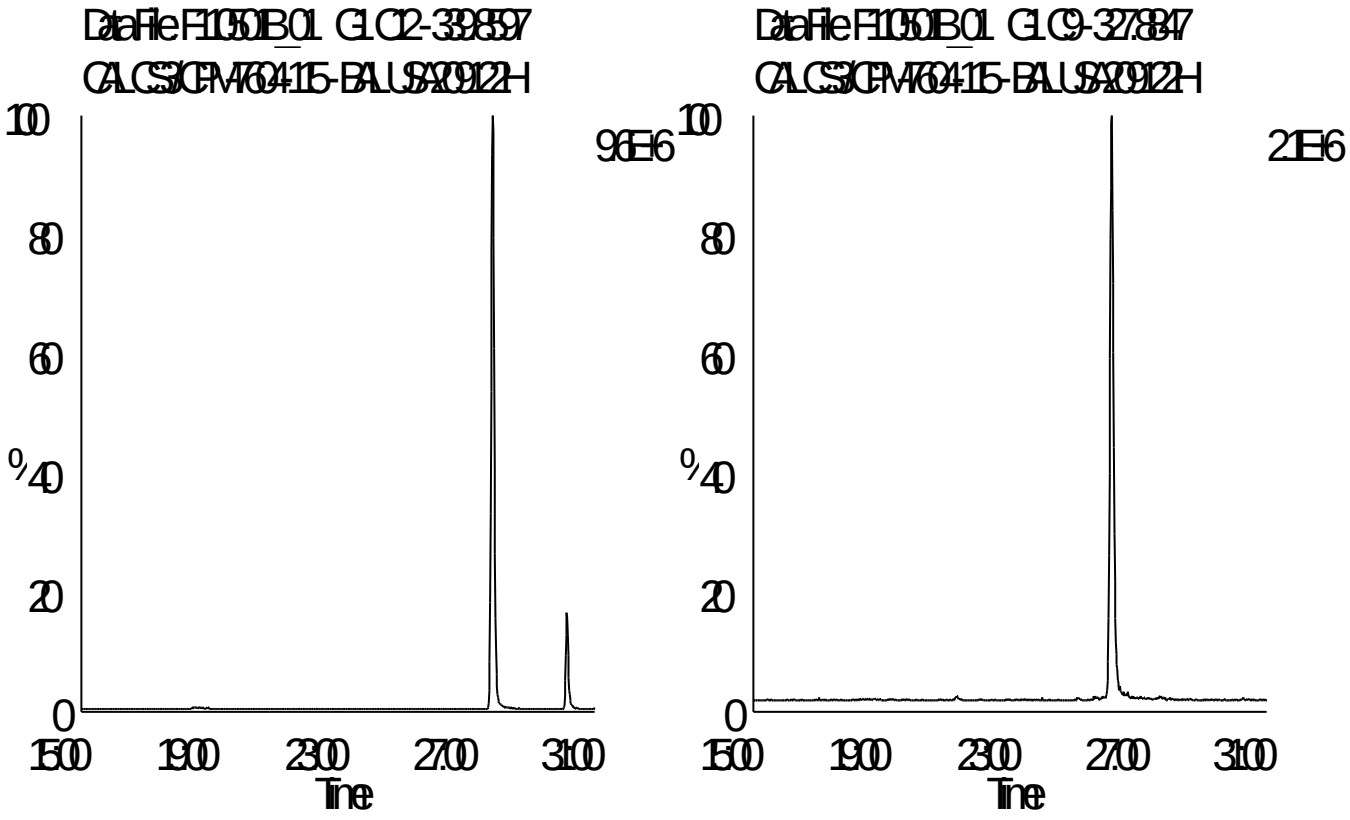


Homologue Group: Penta & Cleanup

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

Date Acquired: 5/1/2011 Client Sample ID:

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)



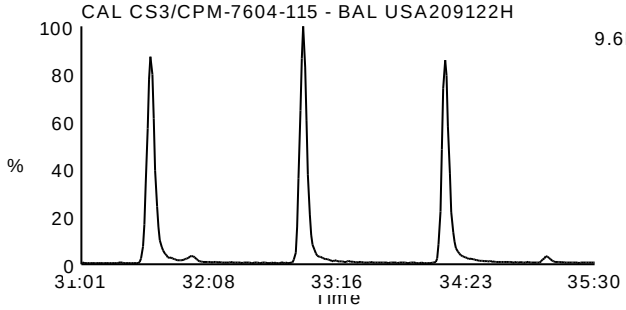
Homologue Group: Pentas

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

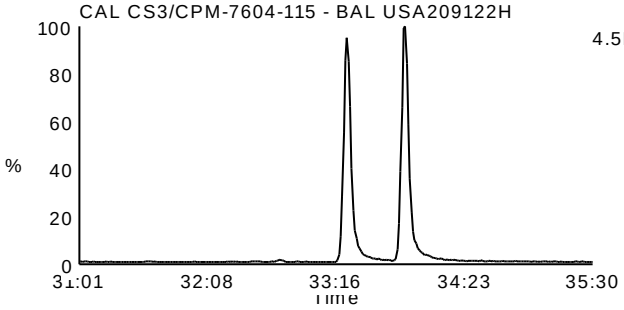
Date Acquired: 5/1/2011 Client Sample ID:

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

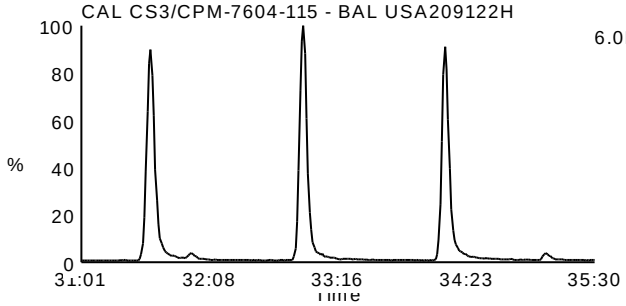
Data File: F110501B 01 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL USA209122H



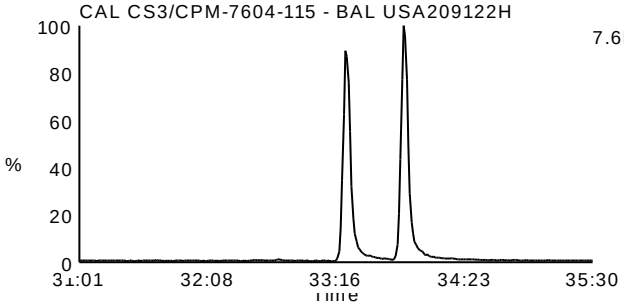
Data File: F110501B 01 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL USA209122H



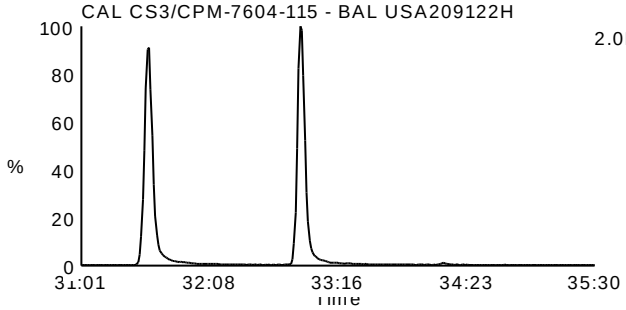
Data File: F110501B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL USA209122H



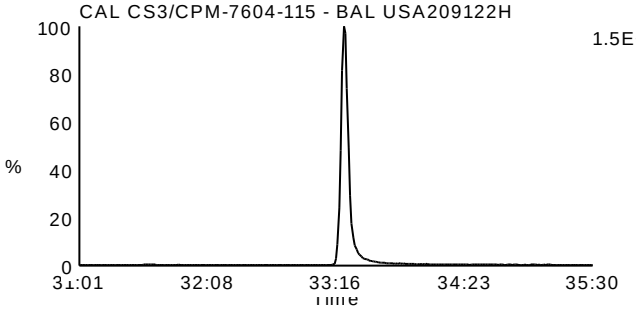
Data File: F110501B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL USA209122H



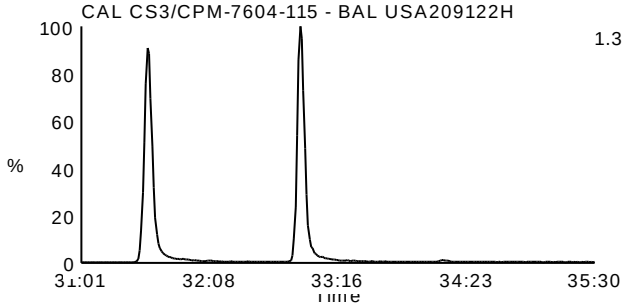
Data File: F110501B 01 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL USA209122H



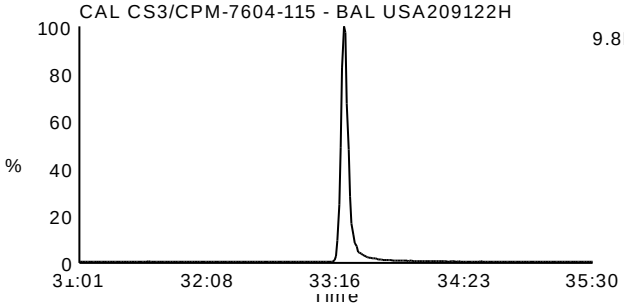
Data File: F110501B 01 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL USA209122H



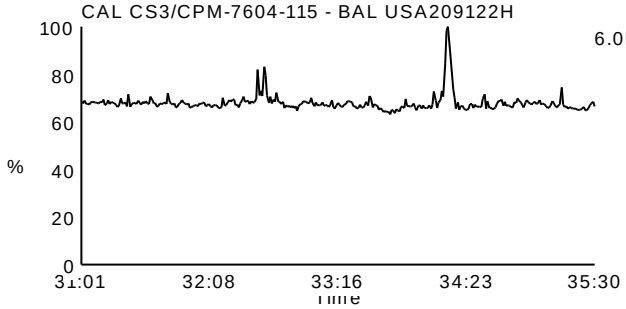
Data File: F110501B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-115 - BAL USA209122H



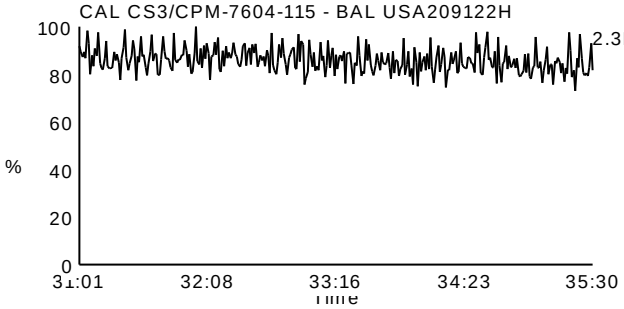
Data File: F110501B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-115 - BAL USA209122H

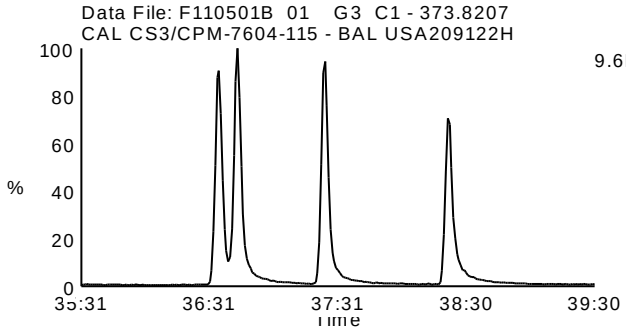


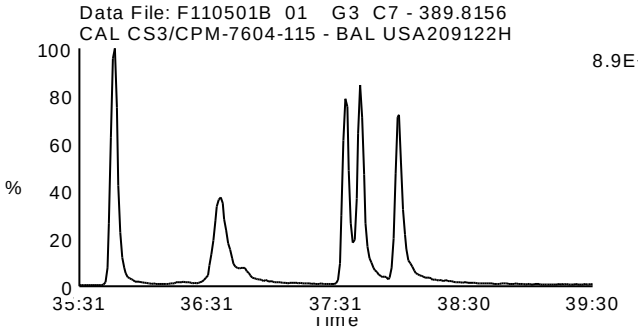
Homologue Group: Hexas

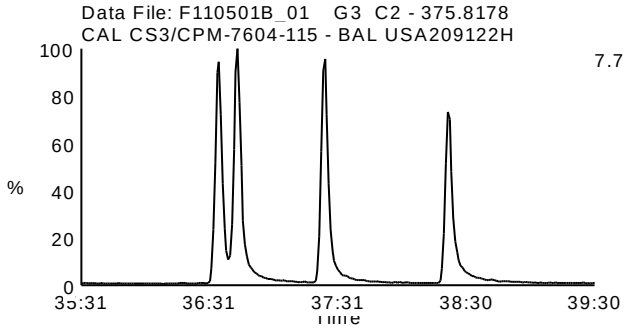
Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

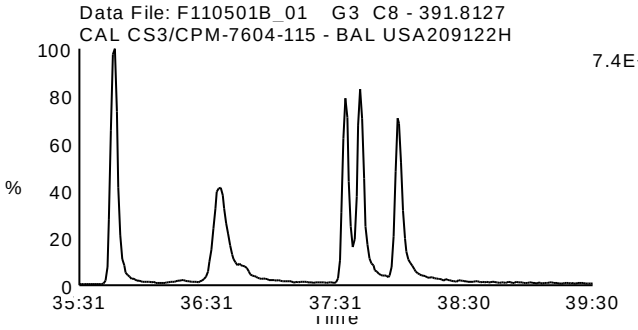
Date Acquired: 5/1/2011 Client Sample ID:

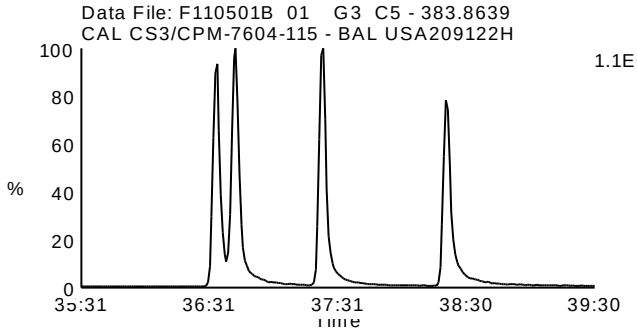
Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

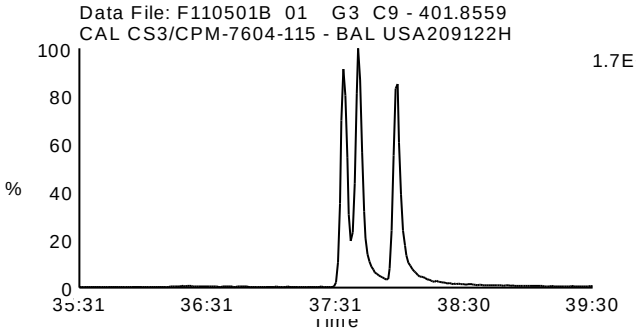


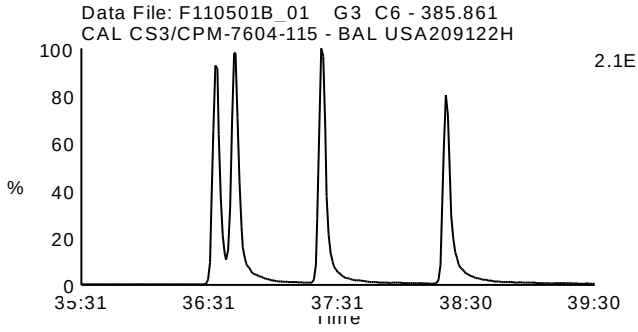


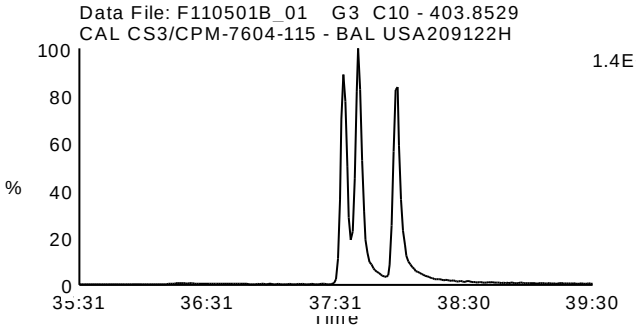


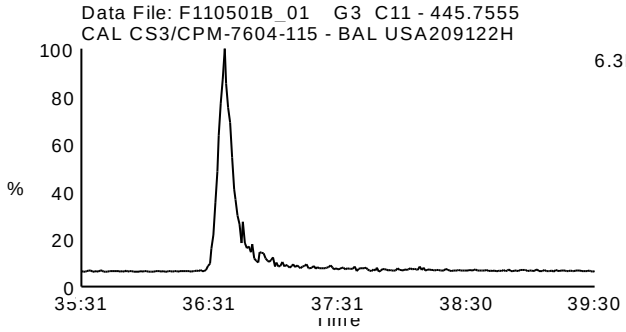


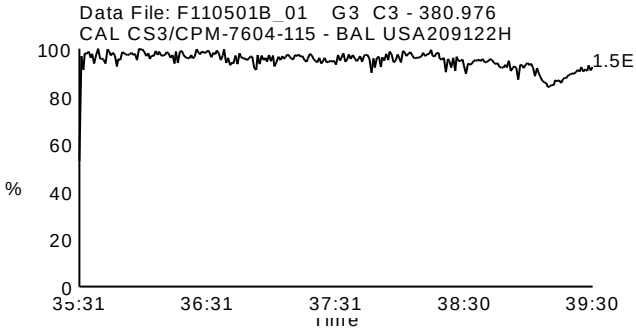












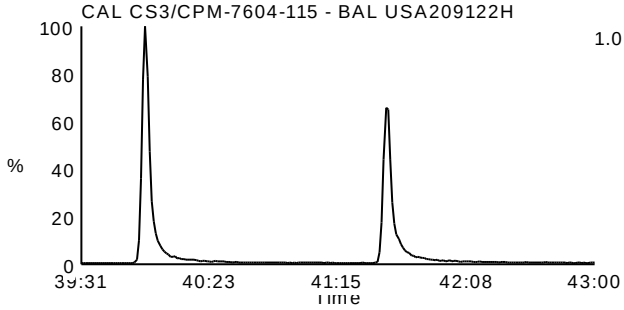
Homologue Group: Heptas

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

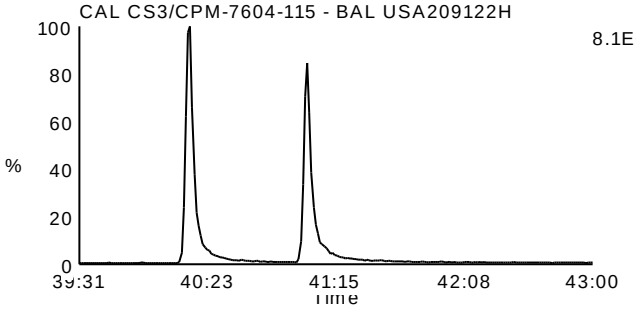
Date Acquired: 5/1/2011 Client Sample ID:

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

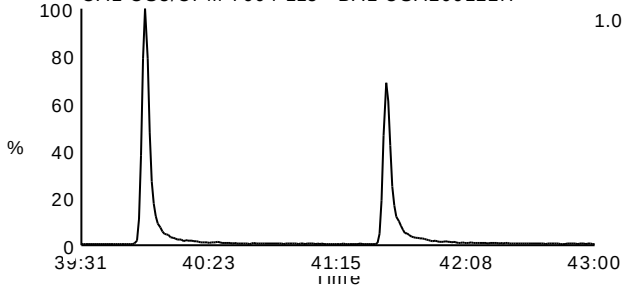
Data File: F110501B 01 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - BAL USA209122H



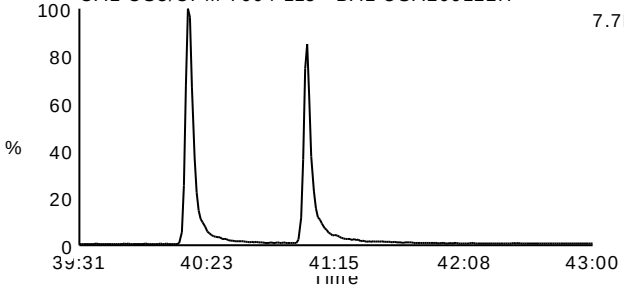
Data File: F110501B 01 G4 C8 - 423.7767
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - BAL USA209122H



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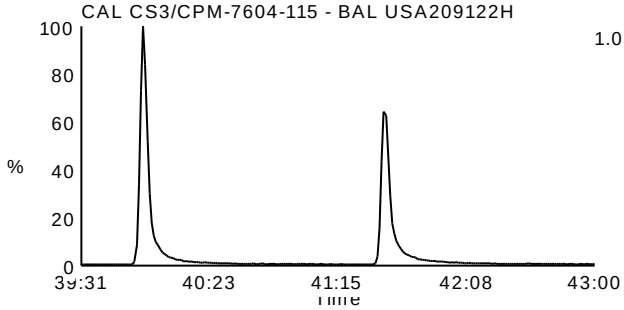
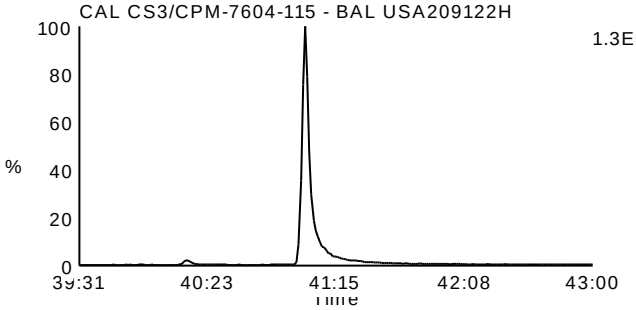
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B 01 G4 C11 - 435.8169
CAL CS3/CPM-7604-115 - BAL USA209122H



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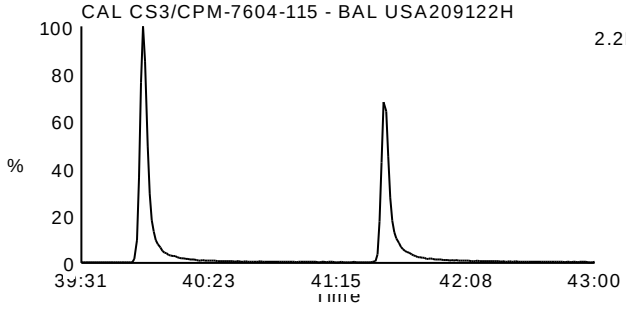
CAL CS3/CPM-7604-115 - BAL USA209122H



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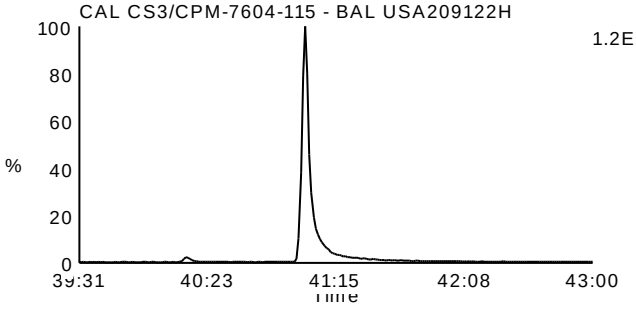
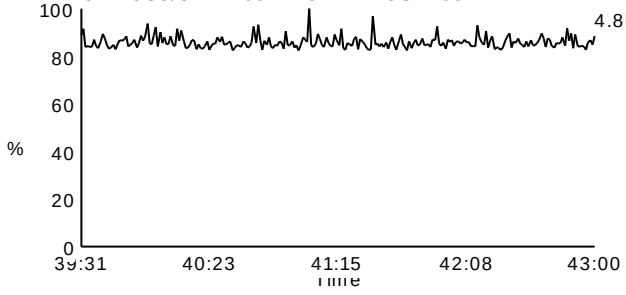
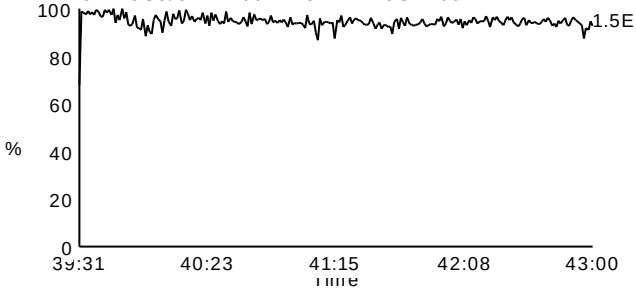
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - BAL USA209122H

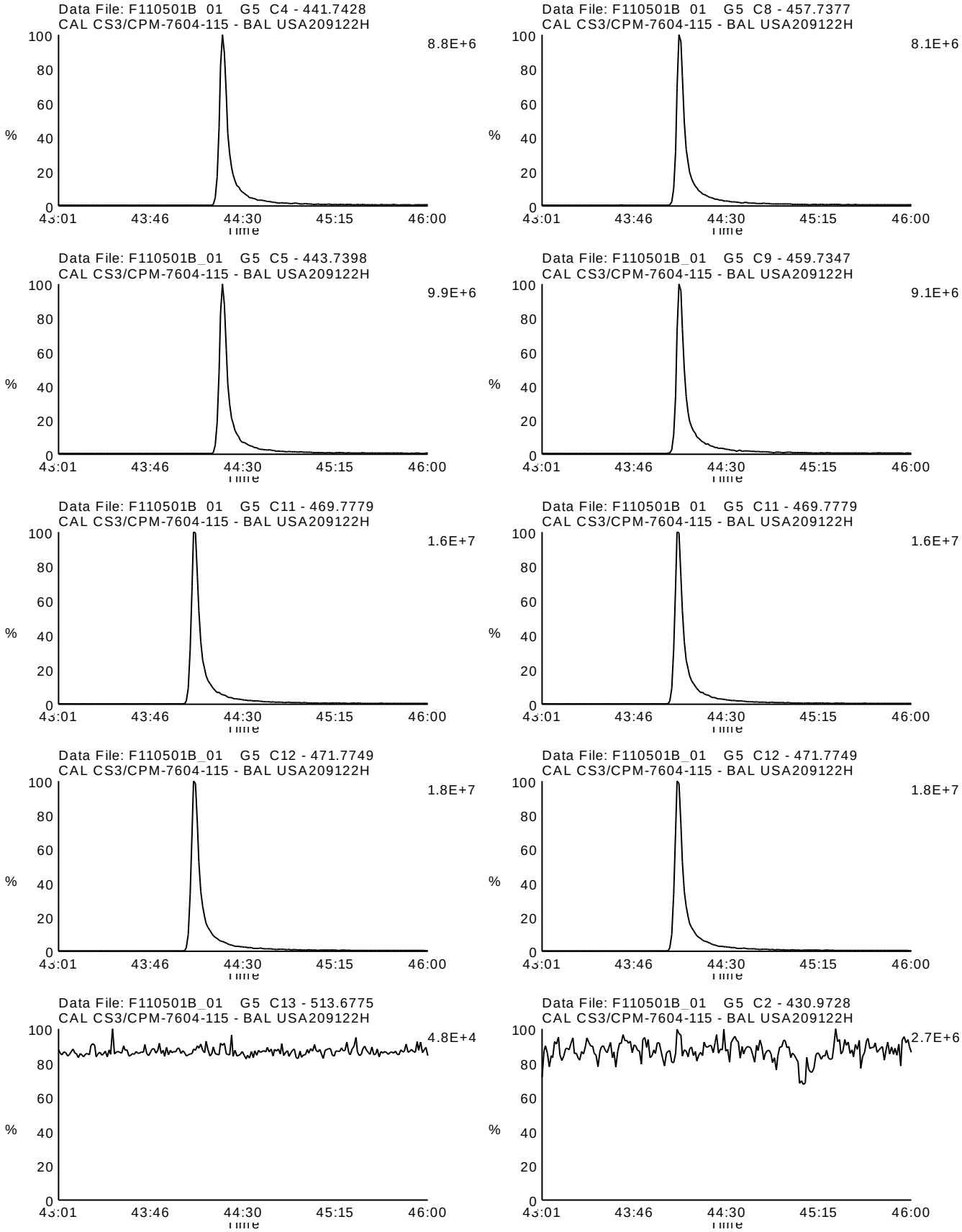


Homologue Group: Octas

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

Date Acquired: 5/1/2011 Client Sample ID:

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

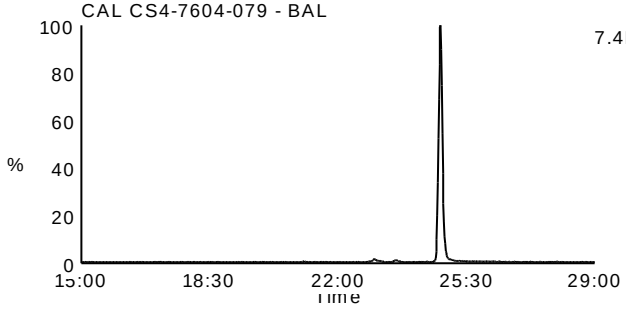


Homologue Group: Tetras

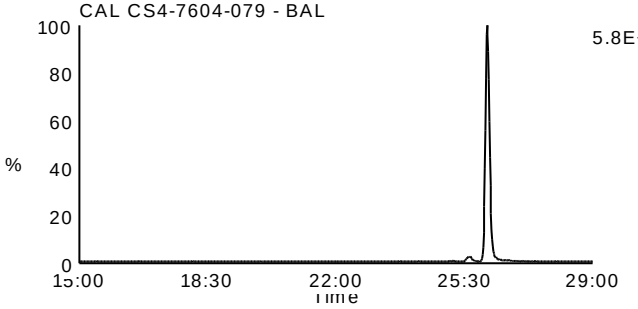
Data File Name: F110501B_06
Date Acquired: 5/1/2011
Sample Description: CAL CS4-7604-079 - BAL

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR05 (F)

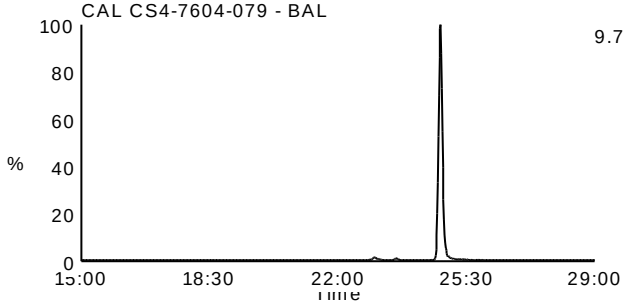
Data File: F110501B 06 G1 C1 - 303.9016
CAL CS4-7604-079 - BAL



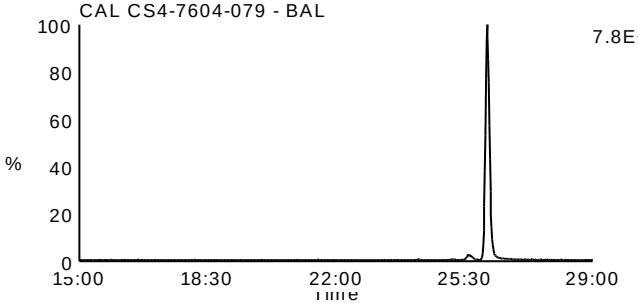
Data File: F110501B 06 G1 C7 - 319.8965
CAL CS4-7604-079 - BAL



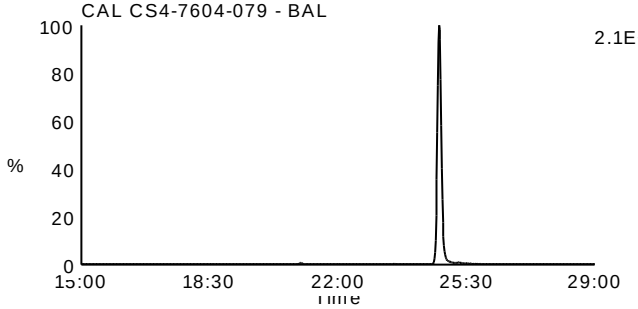
Data File: F110501B_06 G1 C2 - 305.8987
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G1 C8 - 321.8936
CAL CS4-7604-079 - BAL



Data File: F110501B 06 G1 C3 - 315.9418
CAL CS4-7604-079 - BAL



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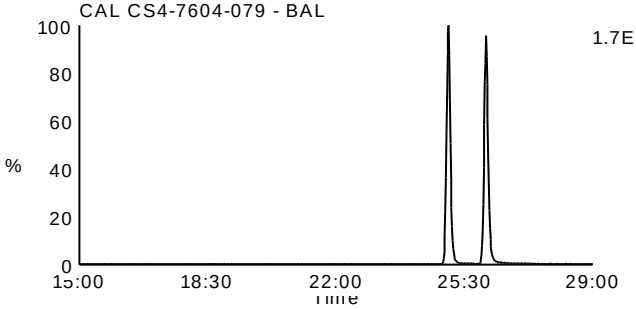
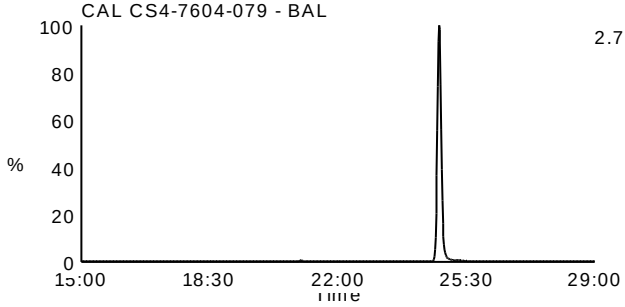
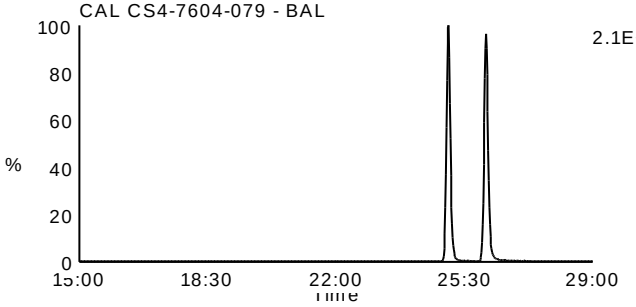
CAL CS4-7604-079 - BAL



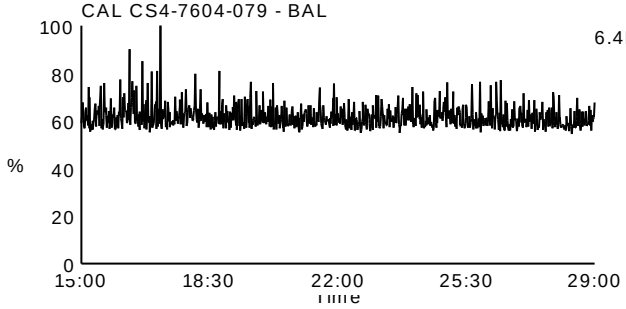
Data File: F110501B_06 G1 C4 - 317.9389
CAL CS4-7604-079 - BAL



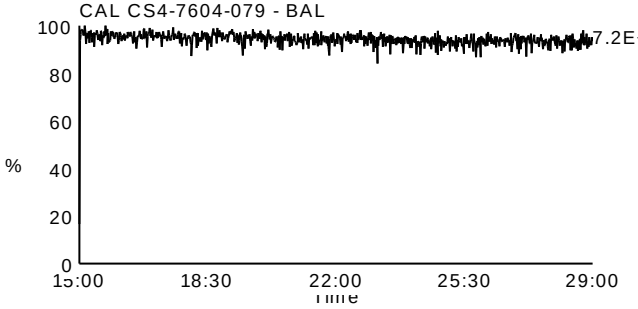
Data File: F110501B_06 G1 C11 - 333.9338
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G1 C14 - 375.8364
CAL CS4-7604-079 - BAL



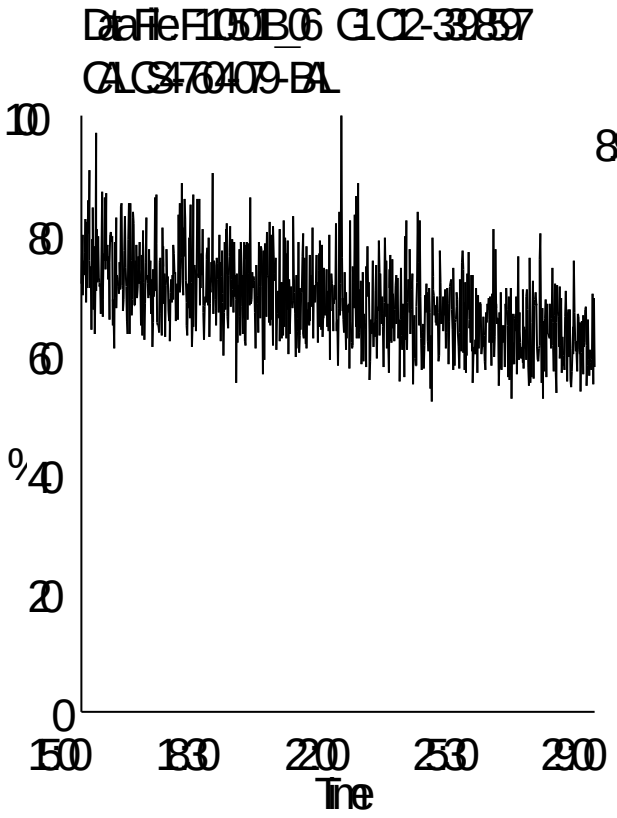
Data File: F110501B_06 G1 C5 - 318.9792
CAL CS4-7604-079 - BAL

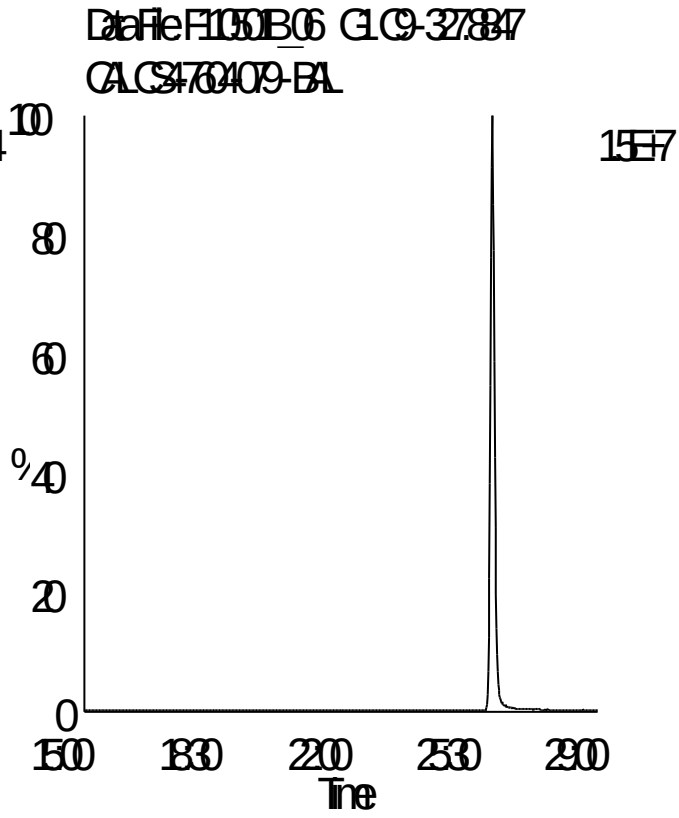


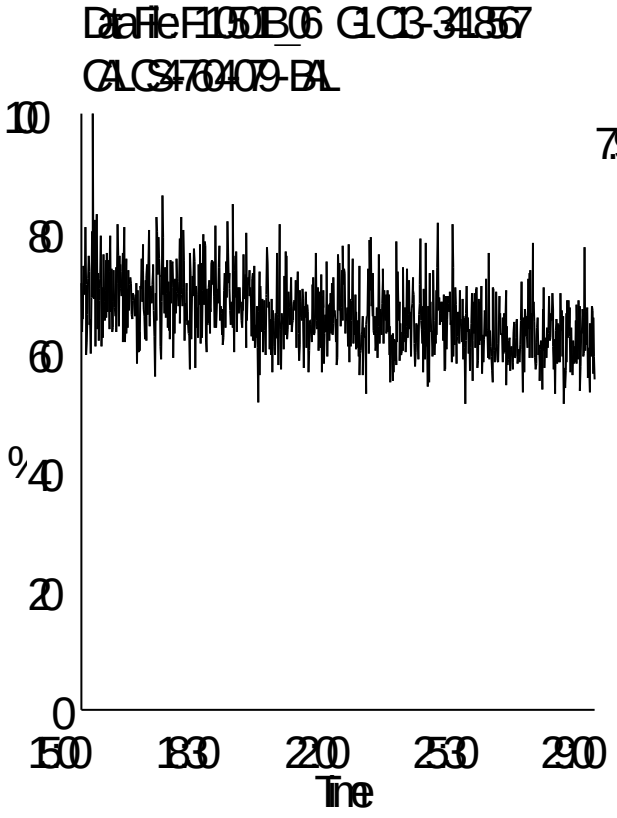
Homologue Group: Penta & Cleanup

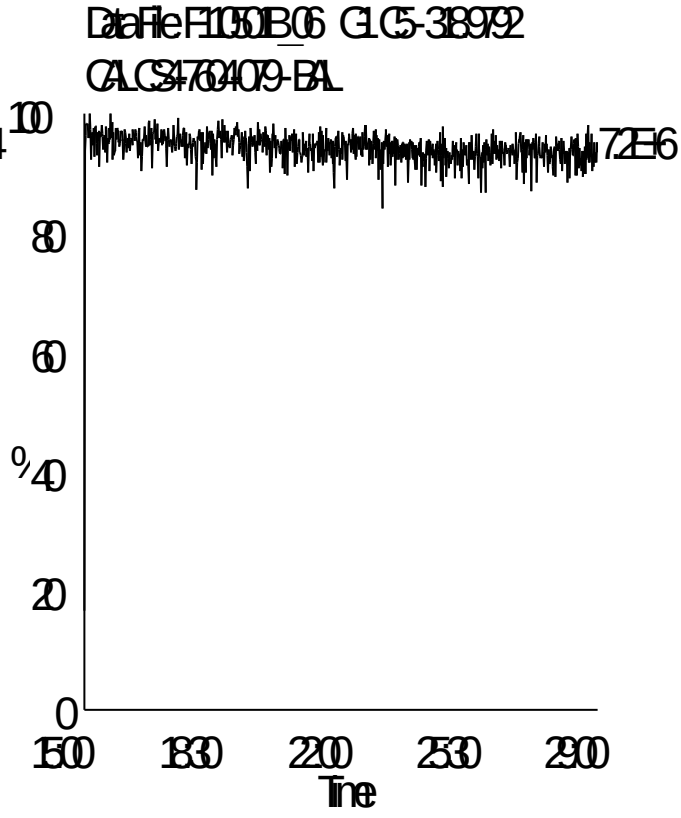
Data File Name: F110501B_06
Date Acquired: 5/1/2011
Sample Description: CAL CS4-7604-079 - BAL

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR05 (F)







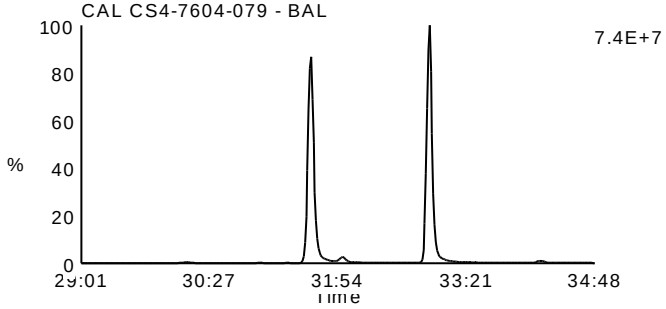


Homologue Group: Pentas

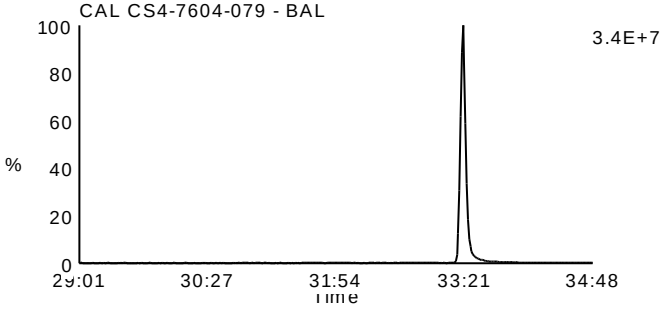
Data File Name: F110501B_06
Date Acquired: 5/1/2011
Sample Description: CAL CS4-7604-079 - BAL

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR05 (F)

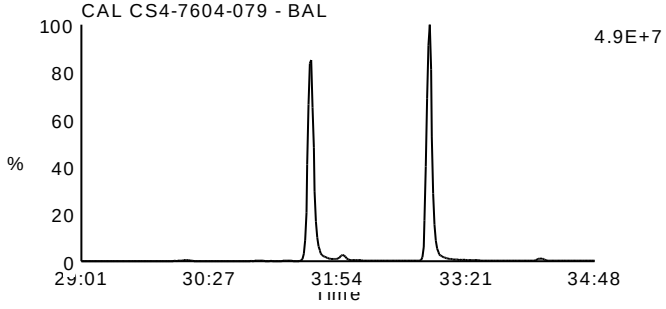
Data File: F110501B 06 G2 C1 - 339.8597
CAL CS4-7604-079 - BAL



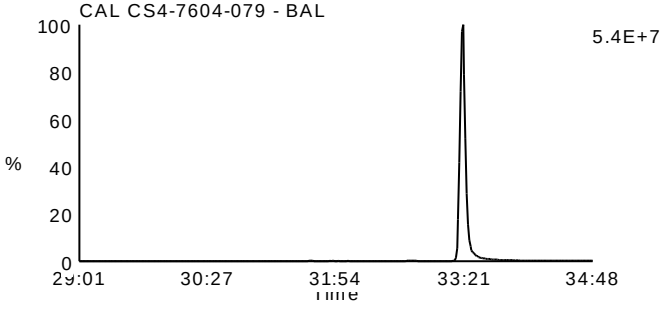
Data File: F110501B 06 G2 C4 - 353.8576
CAL CS4-7604-079 - BAL



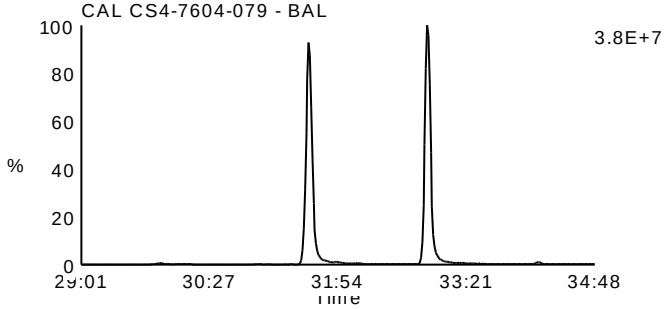
Data File: F110501B_06 G2 C2 - 341.8567
CAL CS4-7604-079 - BAL



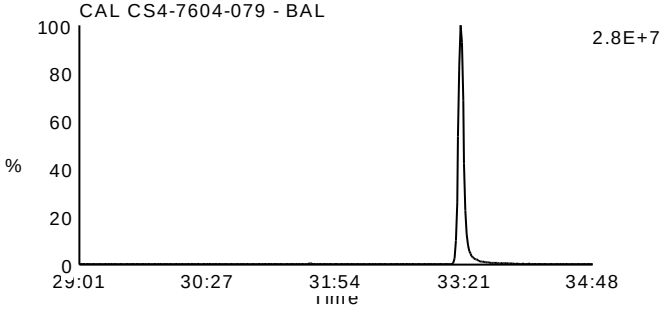
Data File: F110501B_06 G2 C8 - 355.8546
CAL CS4-7604-079 - BAL



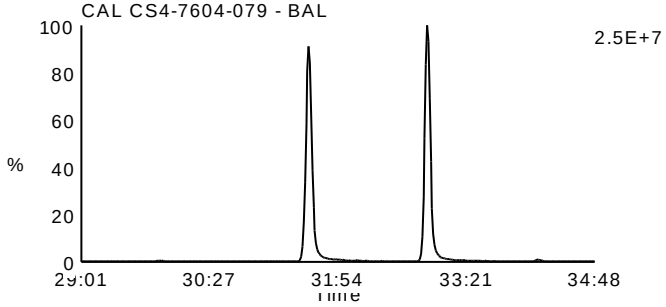
Data File: F110501B 06 G2 C3 - 351.8999
CAL CS4-7604-079 - BAL



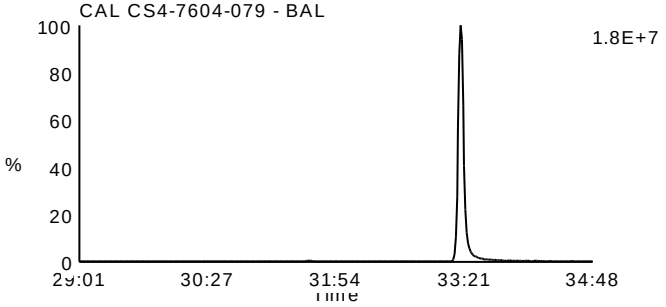
Data File: F110501B 06 G2 C10 - 367.8948
CAL CS4-7604-079 - BAL



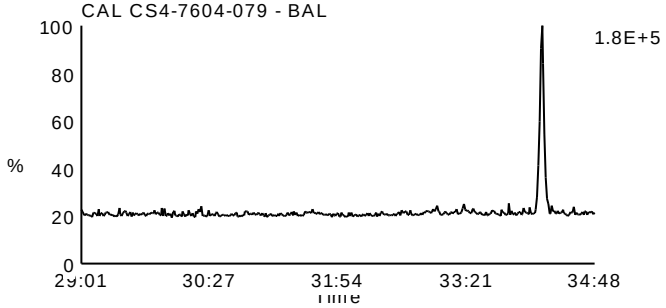
Data File: F110501B_06 G2 C5 - 353.8969
CAL CS4-7604-079 - BAL



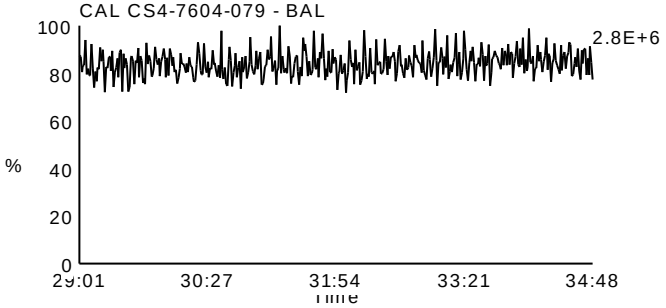
Data File: F110501B_06 G2 C11 - 369.8918
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G2 C12 - 409.7974
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G2 C6 - 354.9792
CAL CS4-7604-079 - BAL

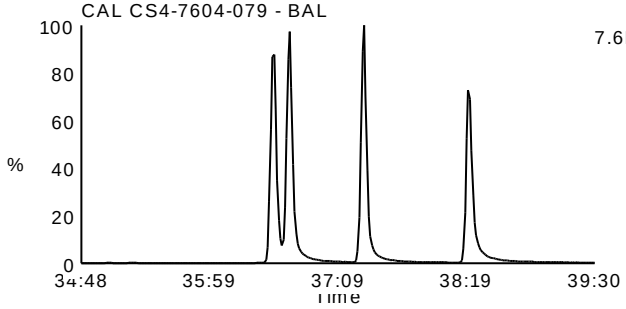


Homologue Group: Hexas

Data File Name: F110501B_06
Date Acquired: 5/1/2011
Sample Description: CAL CS4-7604-079 - BAL

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR05 (F)

Data File: F110501B 06 G3 C1 - 373.8207
CAL CS4-7604-079 - BAL



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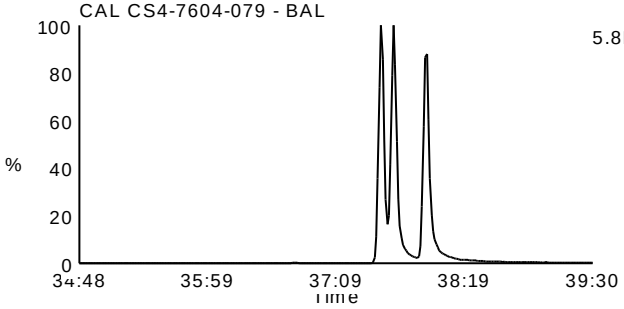
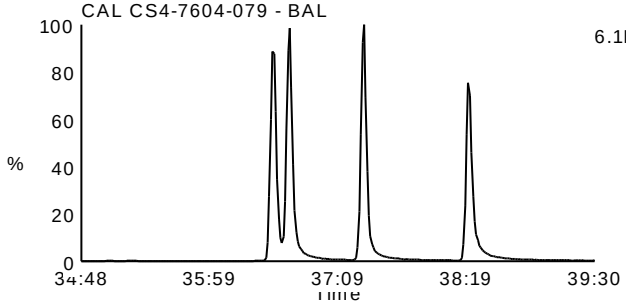
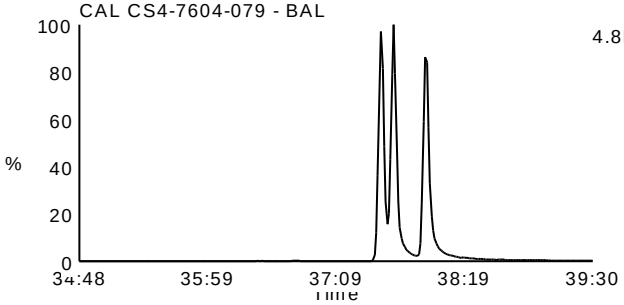
CAL CS4-7604-079 - BAL



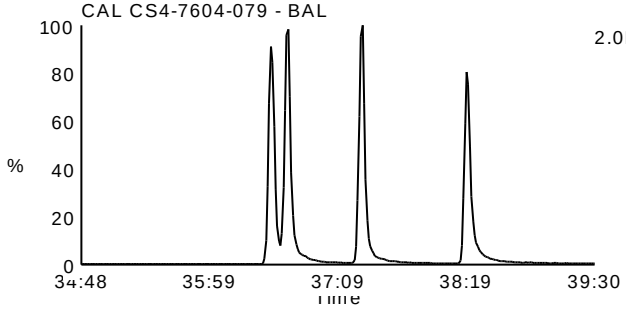
Data File: F110501B_06 G3 C2 - 375.8178
CAL CS4-7604-079 - BAL



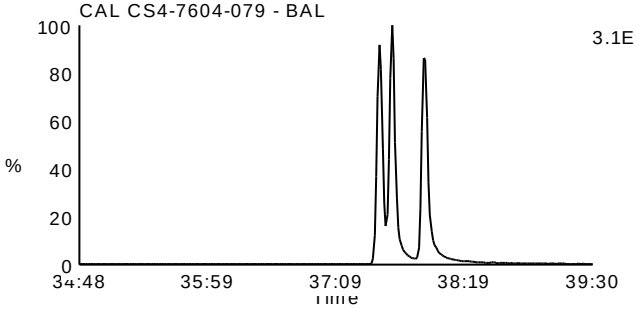
Data File: F110501B_06 G3 C8 - 391.8127
CAL CS4-7604-079 - BAL



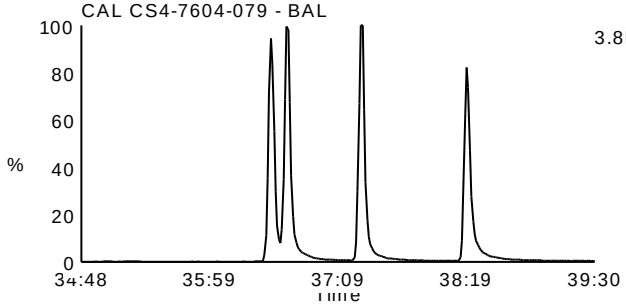
Data File: F110501B 06 G3 C5 - 383.8639
CAL CS4-7604-079 - BAL



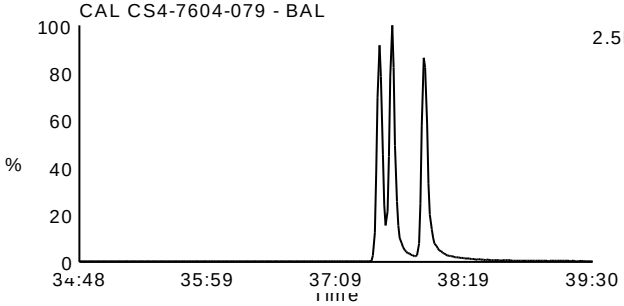
Data File: F110501B 06 G3 C9 - 401.8559
CAL CS4-7604-079 - BAL



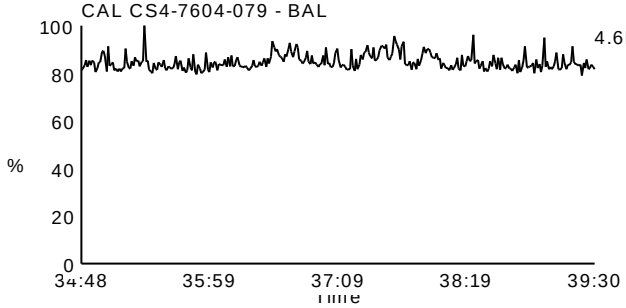
Data File: F110501B_06 G3 C6 - 385.861
CAL CS4-7604-079 - BAL



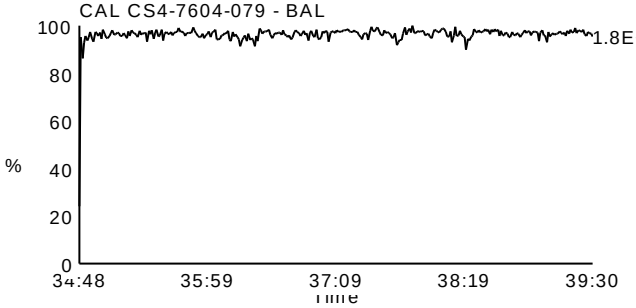
Data File: F110501B_06 G3 C10 - 403.8529
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G3 C11 - 445.7555
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G3 C3 - 380.976
CAL CS4-7604-079 - BAL

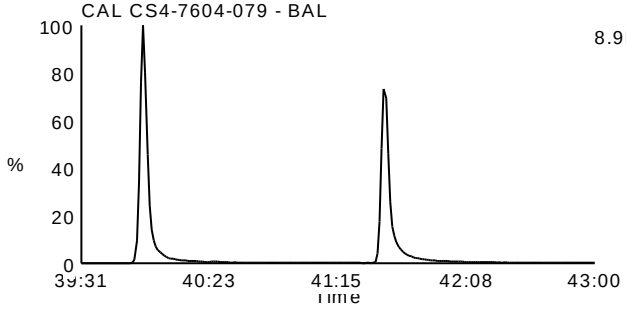


Homologue Group: Heptas

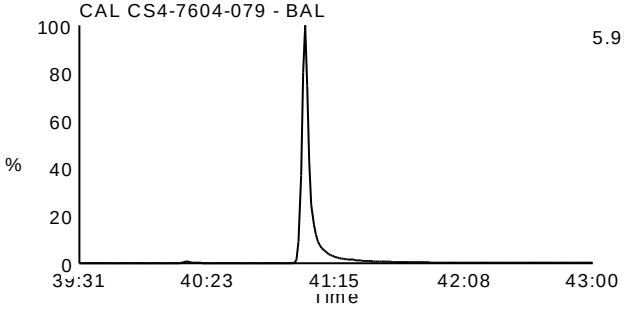
Data File Name: F110501B_06
Date Acquired: 5/1/2011
Sample Description: CAL CS4-7604-079 - BAL

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR05 (F)

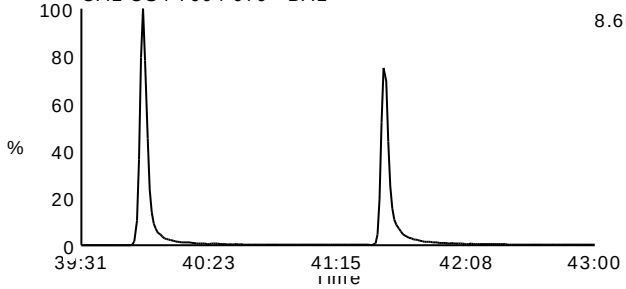
Data File: F110501B 06 G4 C3 - 407.7818
CAL CS4-7604-079 - BAL



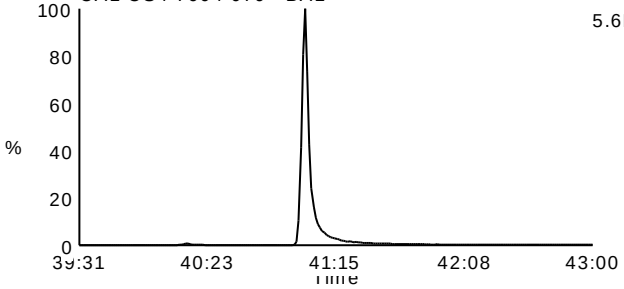
Data File: F110501B 06 G4 C8 - 423.7767
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G4 C4 - 409.7788
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G4 C9 - 425.7737
CAL CS4-7604-079 - BAL



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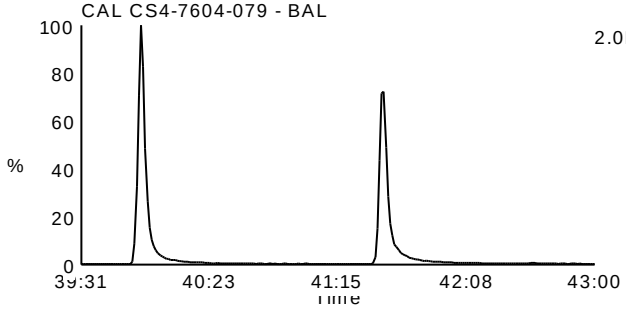
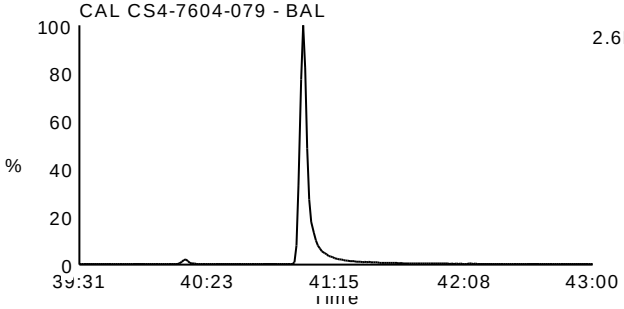
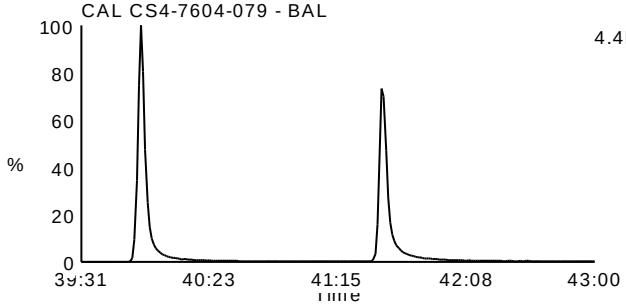
CAL CS4-7604-079 - BAL



Data File: F110501B 06 G4 C11 - 435.8169
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G4 C7 - 419.822
CAL CS4-7604-079 - BAL



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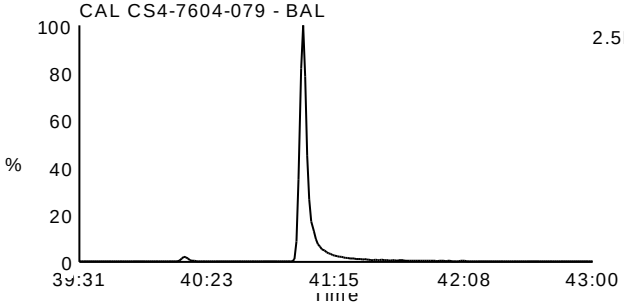
CAL CS4-7604-079 - BAL



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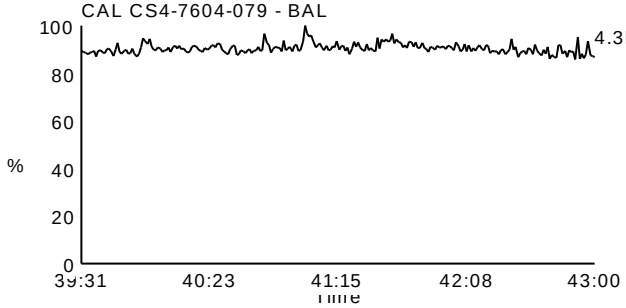
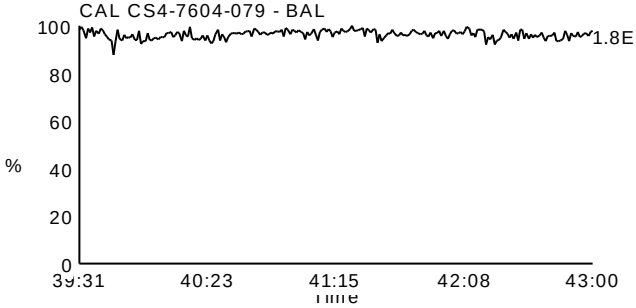
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G4 C1 - 380.976
CAL CS4-7604-079 - BAL

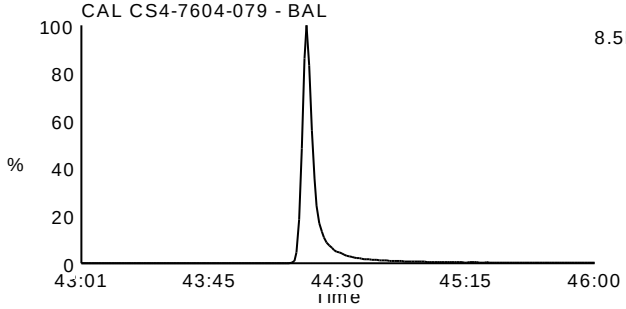


Homologue Group: Octas

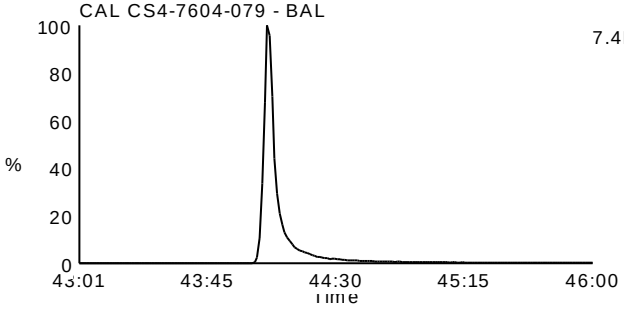
Data File Name: F110501B_06
Date Acquired: 5/1/2011
Sample Description: CAL CS4-7604-079 - BAL

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR05 (F)

Data File: F110501B 06 G5 C4 - 441.7428
CAL CS4-7604-079 - BAL



Data File: F110501B 06 G5 C8 - 457.7377
CAL CS4-7604-079 - BAL



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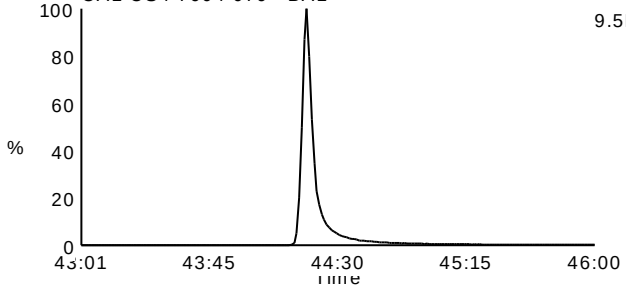
CAL CS4-7604-079 - BAL



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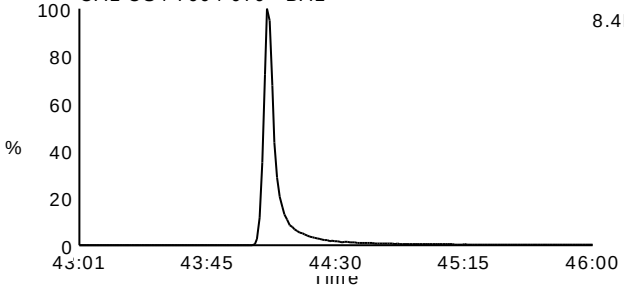
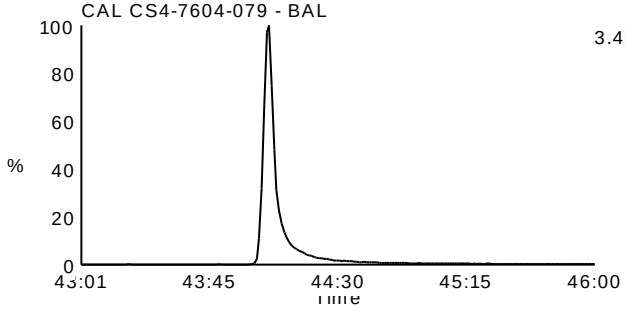
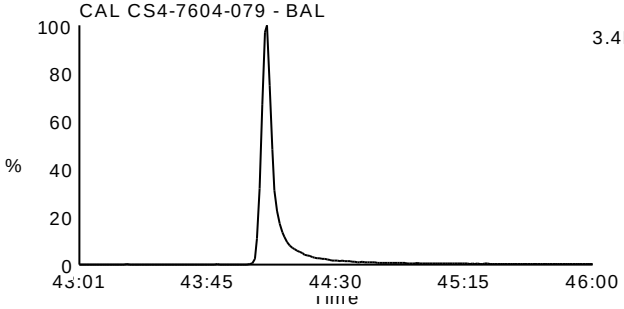
CAL CS4-7604-079 - BAL



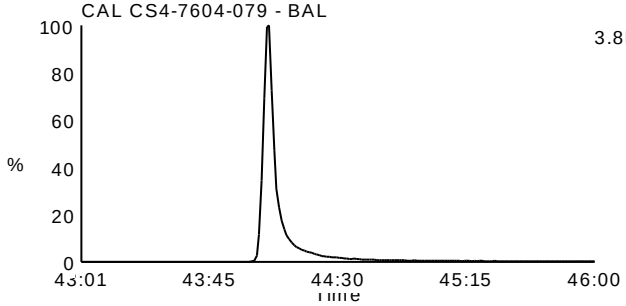
Data File: F110501B 06 G5 C11 - 469.7779
CAL CS4-7604-079 - BAL



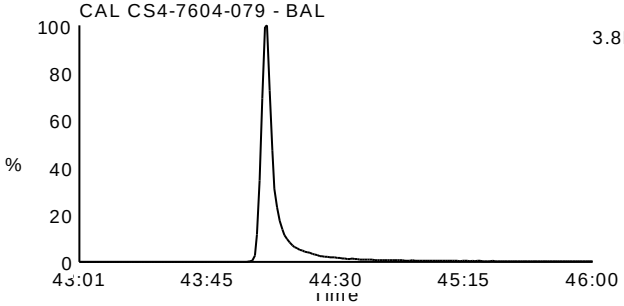
Data File: F110501B 06 G5 C11 - 469.7779
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G5 C12 - 471.7749
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G5 C12 - 471.7749
CAL CS4-7604-079 - BAL



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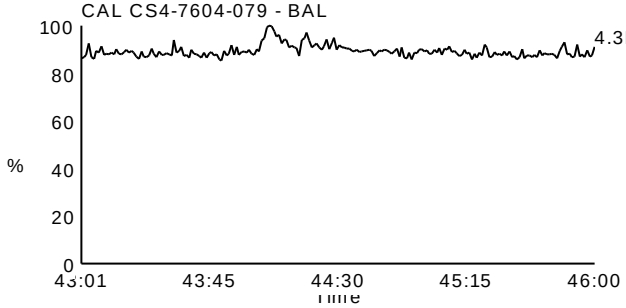
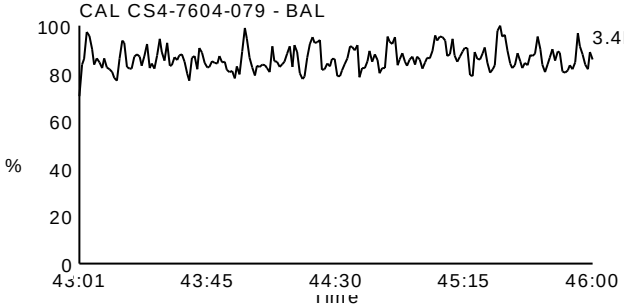
CAL CS4-7604-079 - BAL



Data File: F110501B_06 G5 C2 - 430.9728
CAL CS4-7604-079 - BAL

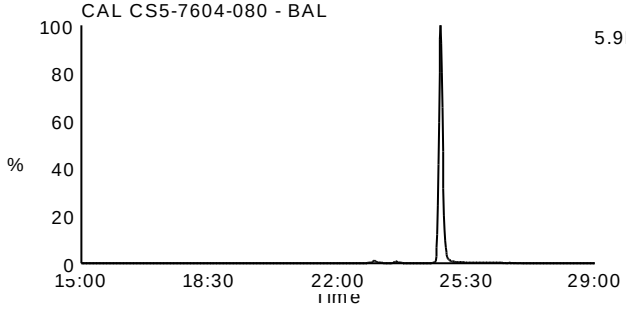


Homologue Group: Tetras

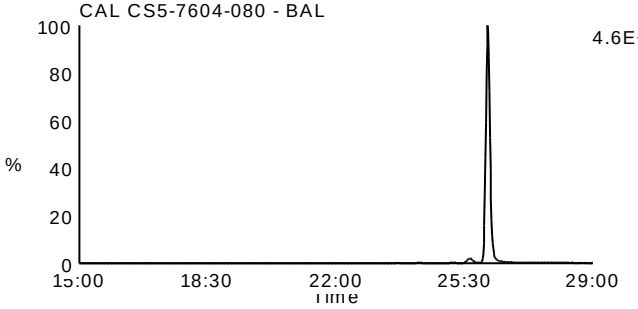
Data File Name: F110501B_05
Date Acquired: 5/1/2011
Sample Description: CAL CS5-7604-080 - BAL

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR05 (F)

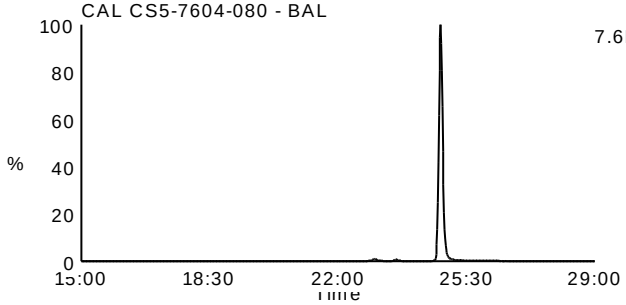
Data File: F110501B 05 G1 C1 - 303.9016
CAL CS5-7604-080 - BAL



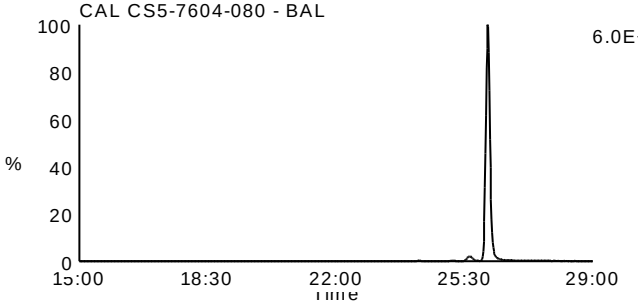
Data File: F110501B 05 G1 C7 - 319.8965
CAL CS5-7604-080 - BAL



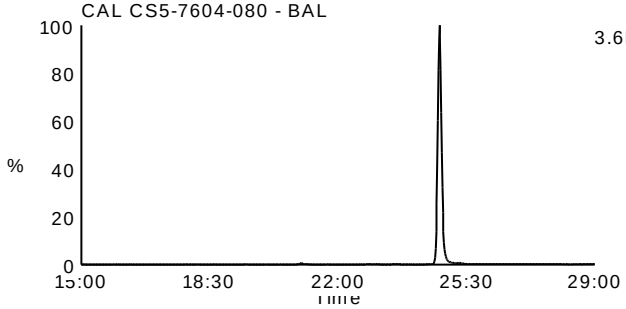
Data File: F110501B_05 G1 C2 - 305.8987
CAL CS5-7604-080 - BAL



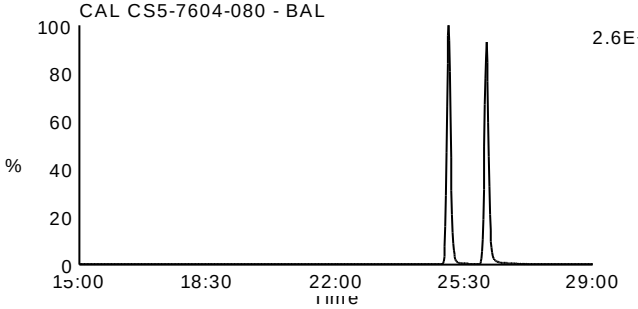
Data File: F110501B_05 G1 C8 - 321.8936
CAL CS5-7604-080 - BAL



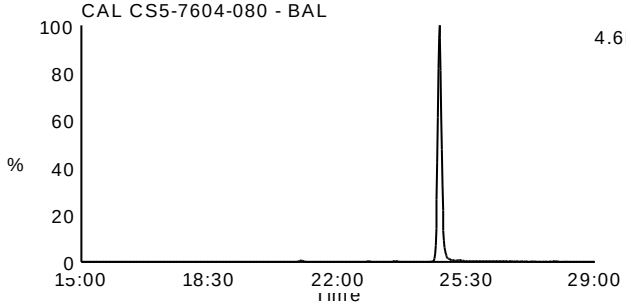
Data File: F110501B 05 G1 C3 - 315.9418
CAL CS5-7604-080 - BAL



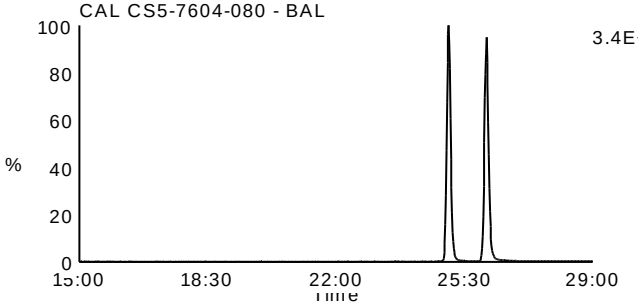
Data File: F110501B 05 G1 C10 - 331.9367
CAL CS5-7604-080 - BAL



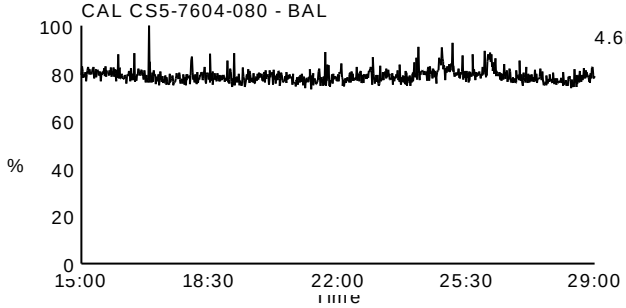
Data File: F110501B_05 G1 C4 - 317.9389
CAL CS5-7604-080 - BAL



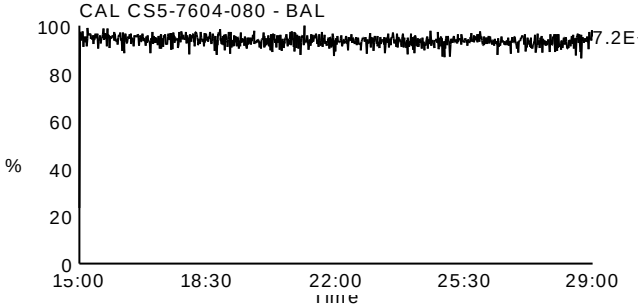
Data File: F110501B_05 G1 C11 - 333.9338
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G1 C14 - 375.8364
CAL CS5-7604-080 - BAL



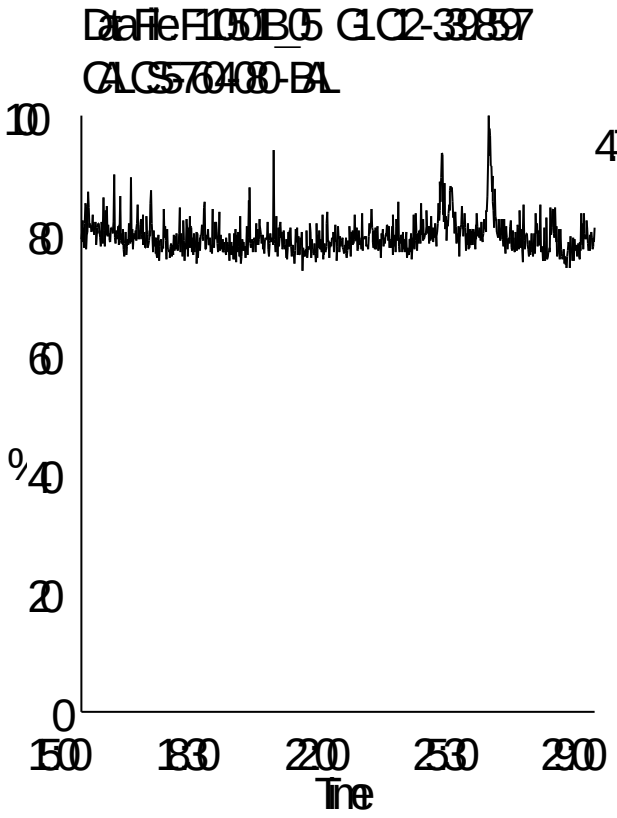
Data File: F110501B_05 G1 C5 - 318.9792
CAL CS5-7604-080 - BAL

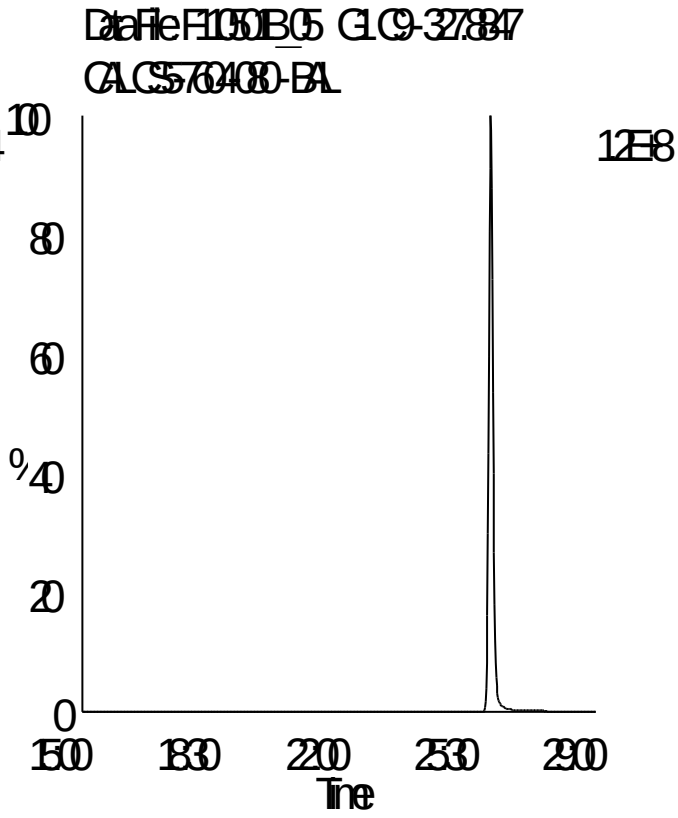


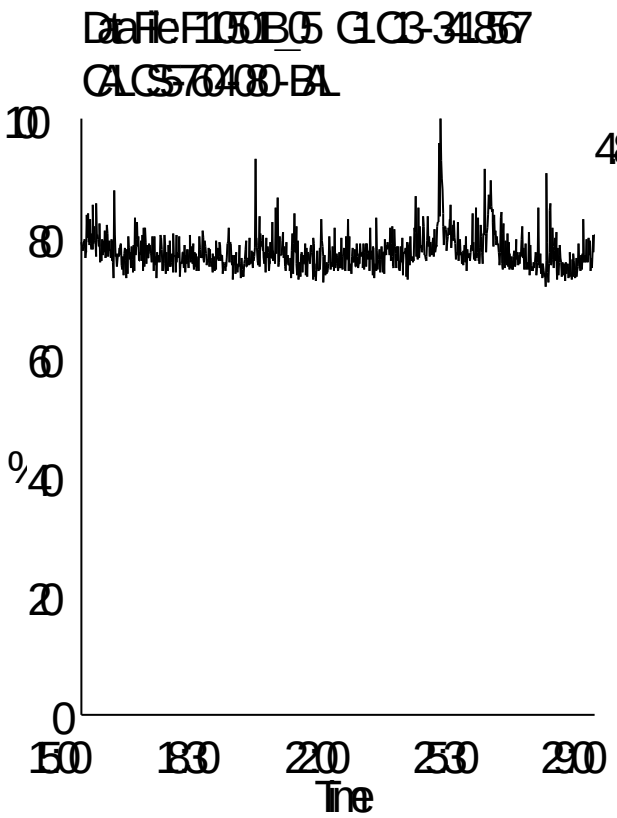
Homologue Group: Penta & Cleanup

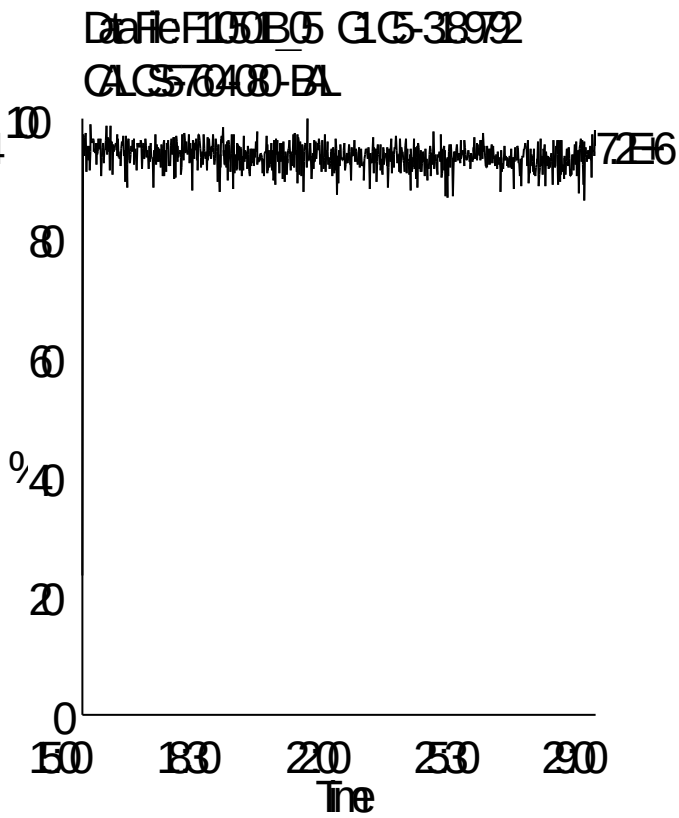
Data File Name: F110501B_05
Date Acquired: 5/1/2011
Sample Description: CAL CS5-7604-080 - BAL

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR05 (F)







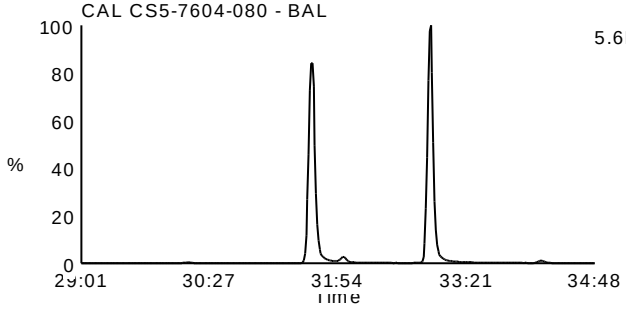


Homologue Group: Pentas

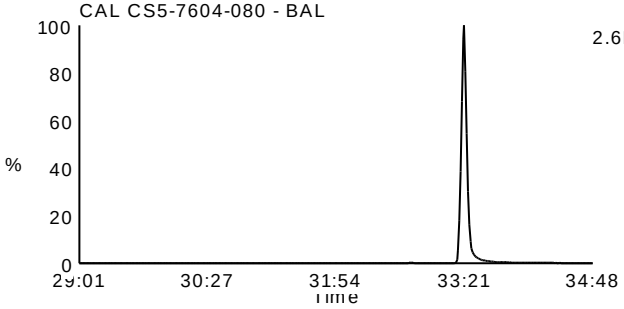
Data File Name: F110501B_05
Date Acquired: 5/1/2011
Sample Description: CAL CS5-7604-080 - BAL

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR05 (F)

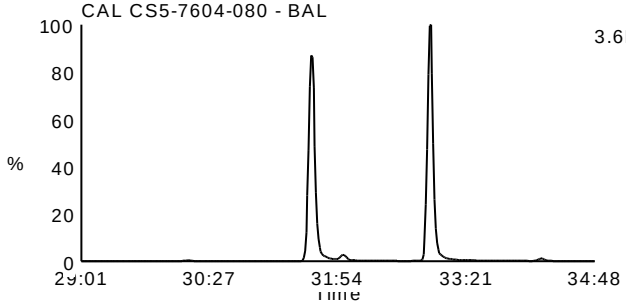
Data File: F110501B 05 G2 C1 - 339.8597
CAL CS5-7604-080 - BAL



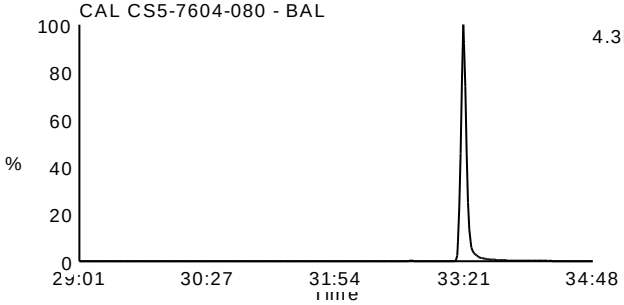
Data File: F110501B 05 G2 C4 - 353.8576
CAL CS5-7604-080 - BAL



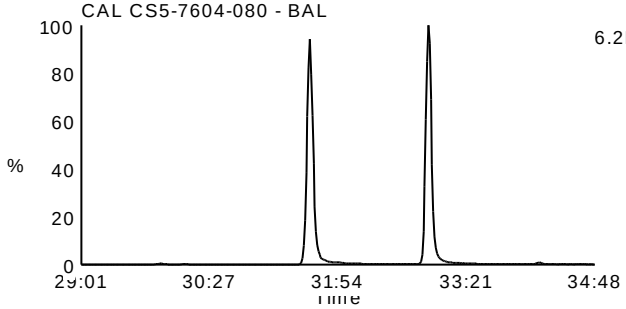
Data File: F110501B_05 G2 C2 - 341.8567
CAL CS5-7604-080 - BAL



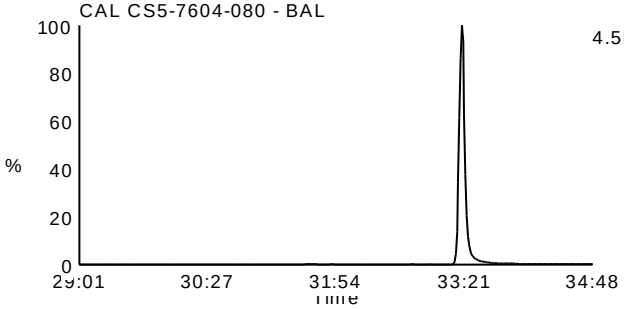
Data File: F110501B_05 G2 C8 - 355.8546
CAL CS5-7604-080 - BAL



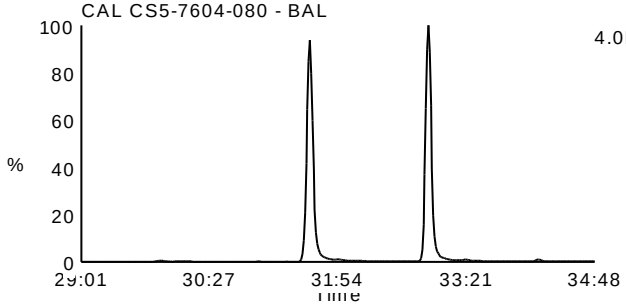
Data File: F110501B 05 G2 C3 - 351.8999
CAL CS5-7604-080 - BAL



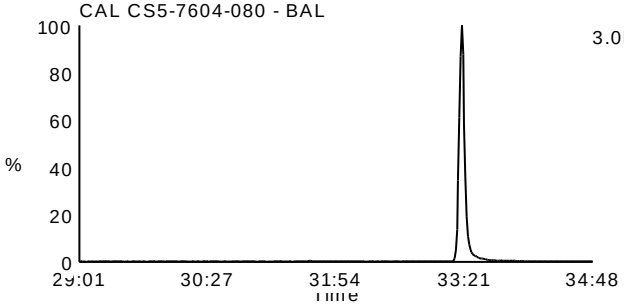
Data File: F110501B 05 G2 C10 - 367.8948
CAL CS5-7604-080 - BAL



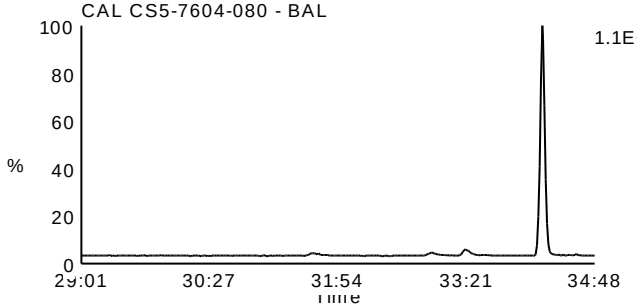
Data File: F110501B_05 G2 C5 - 353.8969
CAL CS5-7604-080 - BAL



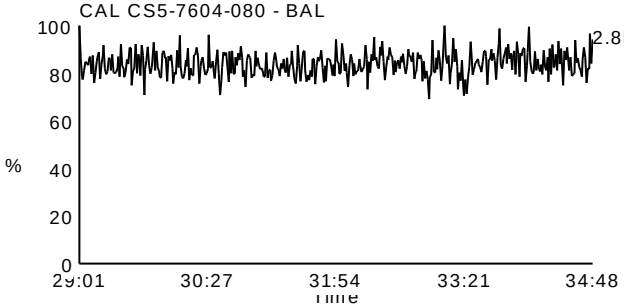
Data File: F110501B_05 G2 C11 - 369.8918
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G2 C12 - 409.7974
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G2 C6 - 354.9792
CAL CS5-7604-080 - BAL

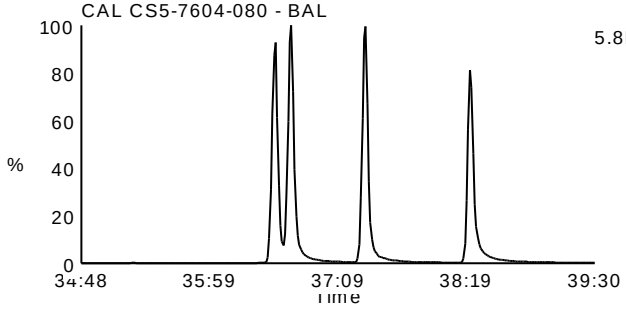


Homologue Group: Hexas

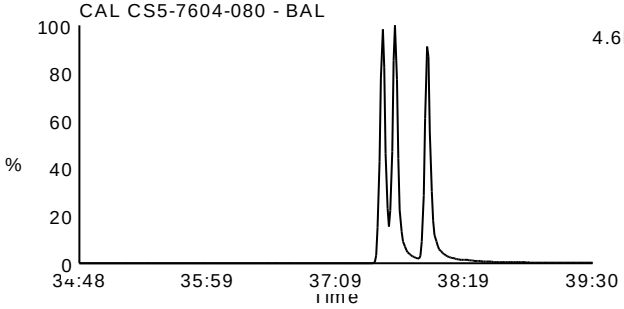
Data File Name: F110501B_05
Date Acquired: 5/1/2011
Sample Description: CAL CS5-7604-080 - BAL

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR05 (F)

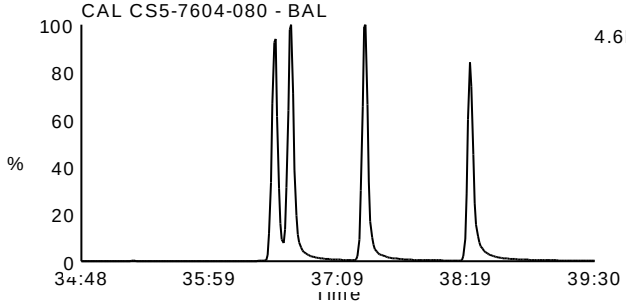
Data File: F110501B 05 G3 C1 - 373.8207
CAL CS5-7604-080 - BAL



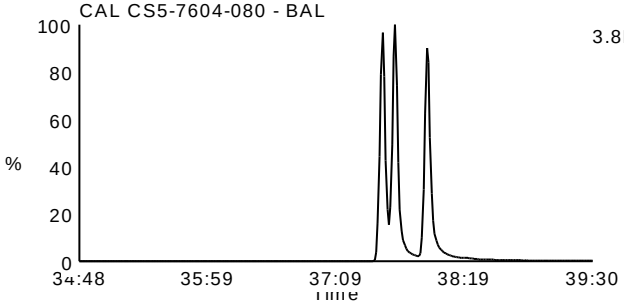
Data File: F110501B 05 G3 C7 - 389.8156
CAL CS5-7604-080 - BAL



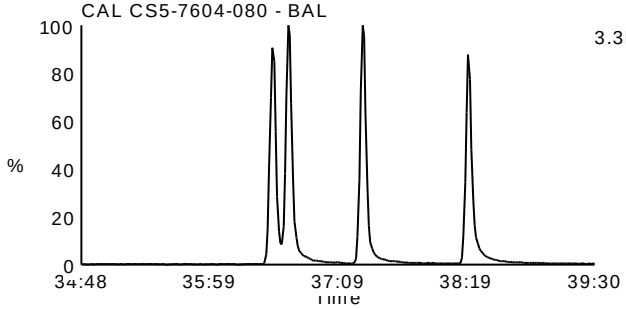
Data File: F110501B_05 G3 C2 - 375.8178
CAL CS5-7604-080 - BAL



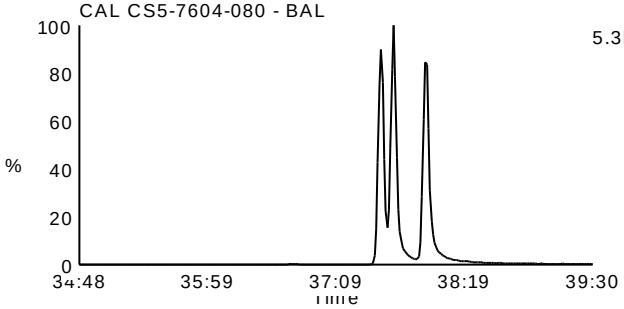
Data File: F110501B_05 G3 C8 - 391.8127
CAL CS5-7604-080 - BAL



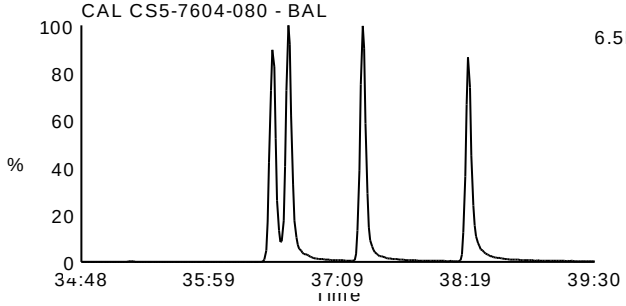
Data File: F110501B 05 G3 C5 - 383.8639
CAL CS5-7604-080 - BAL



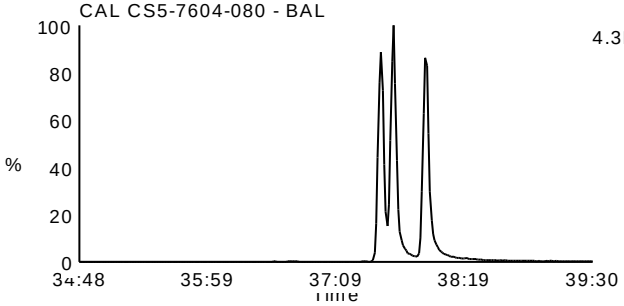
Data File: F110501B 05 G3 C9 - 401.8559
CAL CS5-7604-080 - BAL



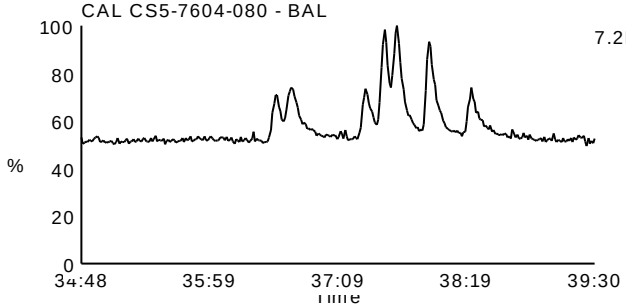
Data File: F110501B_05 G3 C6 - 385.861
CAL CS5-7604-080 - BAL



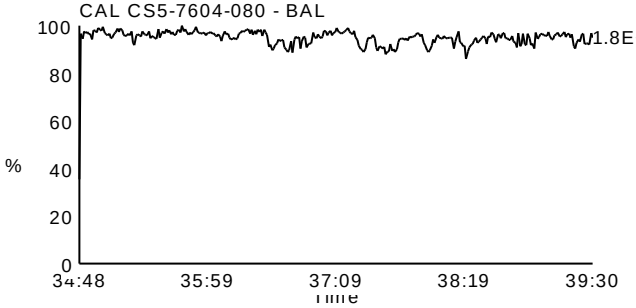
Data File: F110501B_05 G3 C10 - 403.8529
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G3 C11 - 445.7555
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G3 C3 - 380.976
CAL CS5-7604-080 - BAL

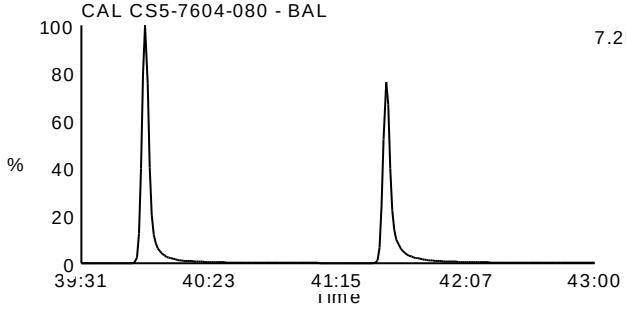


Homologue Group: Heptas

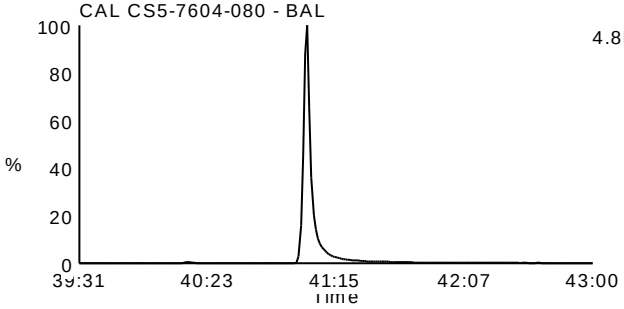
Data File Name: F110501B_05
Date Acquired: 5/1/2011
Sample Description: CAL CS5-7604-080 - BAL

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR05 (F)

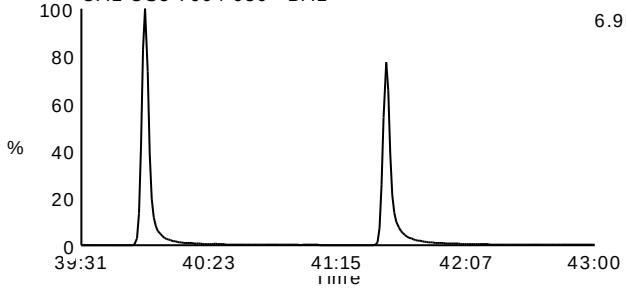
Data File: F110501B 05 G4 C3 - 407.7818
CAL CS5-7604-080 - BAL



Data File: F110501B 05 G4 C8 - 423.7767
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G4 C4 - 409.7788
CAL CS5-7604-080 - BAL



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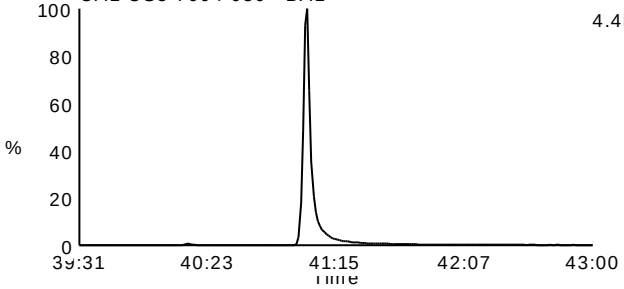
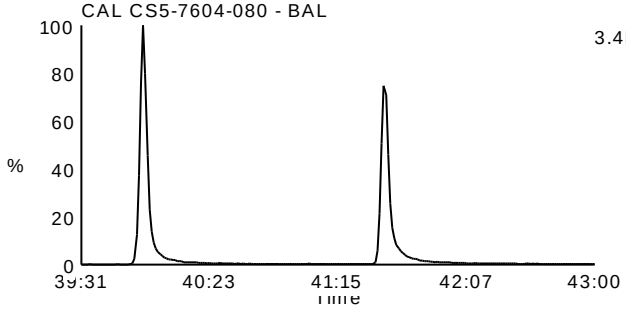
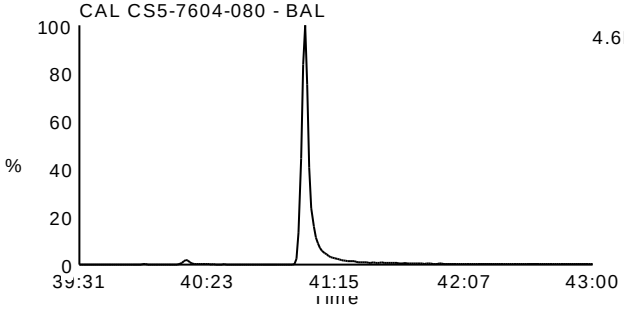
CAL CS5-7604-080 - BAL



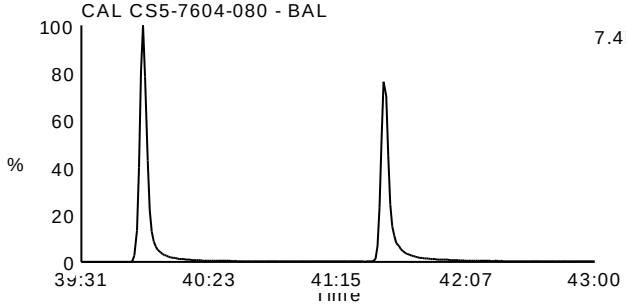
Data File: F110501B 05 G4 C6 - 417.825
CAL CS5-7604-080 - BAL



Data File: F110501B 05 G4 C11 - 435.8169
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G4 C7 - 419.822
CAL CS5-7604-080 - BAL



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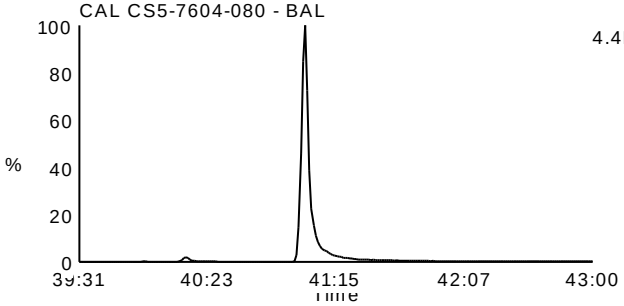
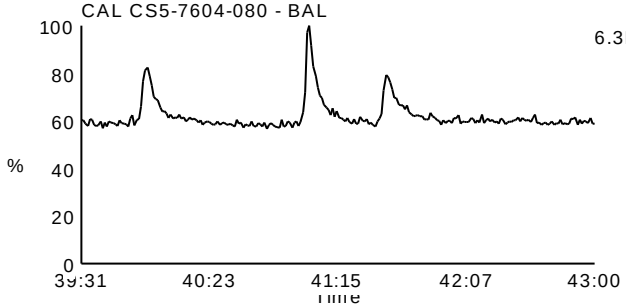
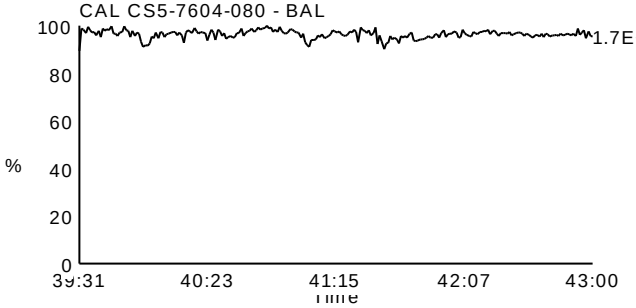
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G4 C13 - 479.7165
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G4 C1 - 380.976
CAL CS5-7604-080 - BAL

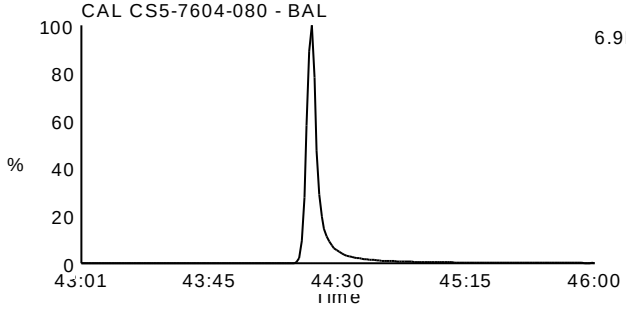


Homologue Group: Octas

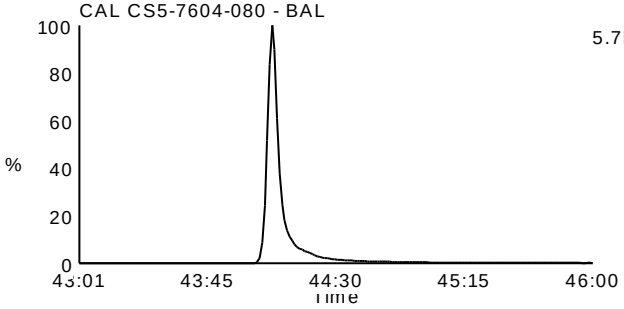
Data File Name: F110501B_05
Date Acquired: 5/1/2011
Sample Description: CAL CS5-7604-080 - BAL

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR05 (F)

Data File: F110501B 05 G5 C4 - 441.7428
CAL CS5-7604-080 - BAL



Data File: F110501B 05 G5 C8 - 457.7377
CAL CS5-7604-080 - BAL



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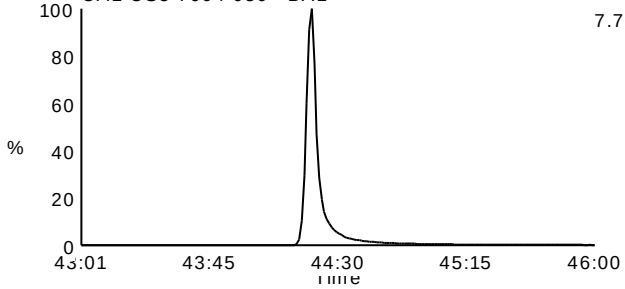
CAL CS5-7604-080 - BAL



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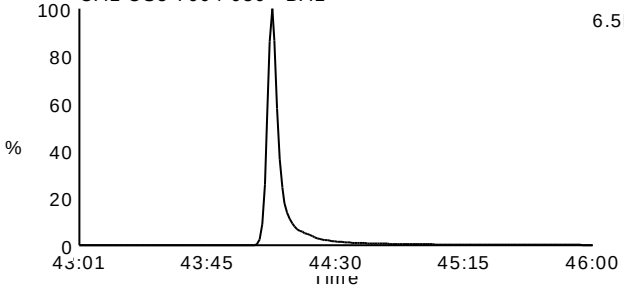
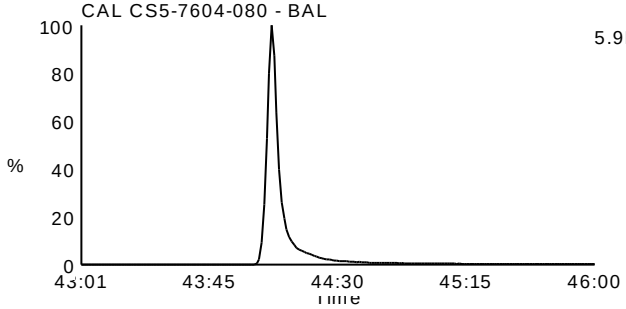
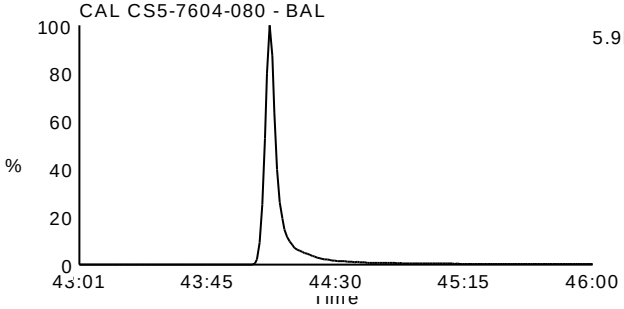
CAL CS5-7604-080 - BAL



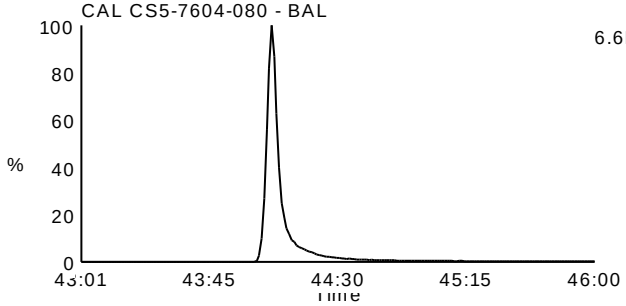
Data File: F110501B 05 G5 C11 - 469.7779
CAL CS5-7604-080 - BAL



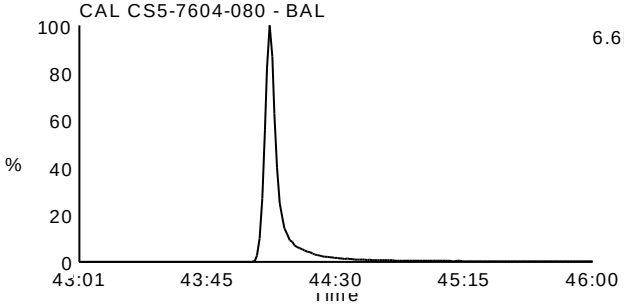
Data File: F110501B 05 G5 C11 - 469.7779
CAL CS5-7604-080 - BAL



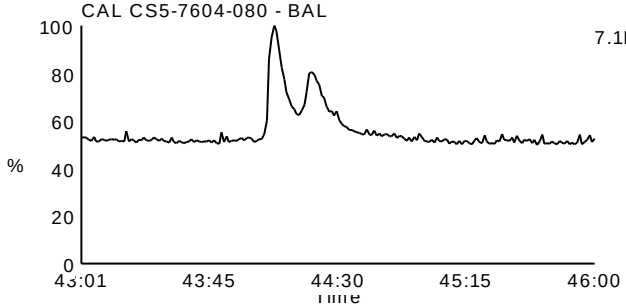
Data File: F110501B_05 G5 C12 - 471.7749
CAL CS5-7604-080 - BAL



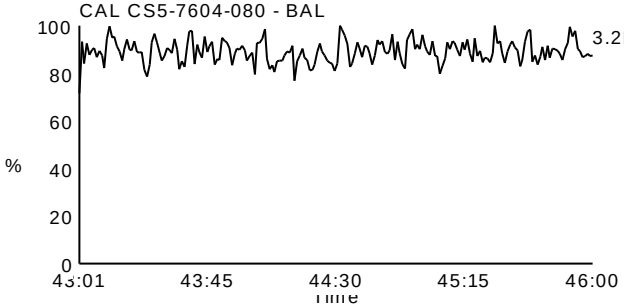
Data File: F110501B_05 G5 C12 - 471.7749
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G5 C13 - 513.6775
CAL CS5-7604-080 - BAL



Data File: F110501B_05 G5 C2 - 430.9728
CAL CS5-7604-080 - BAL

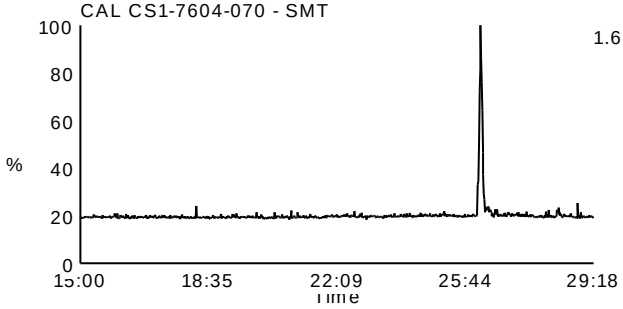


Homologue Group: Tetras

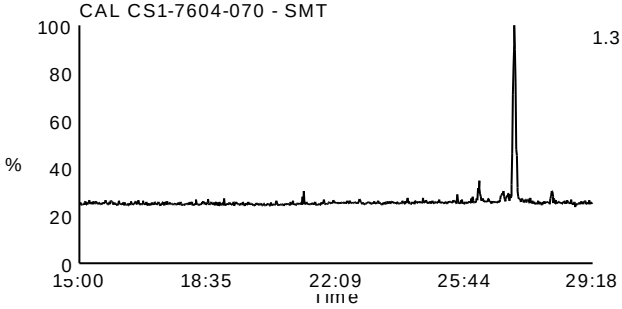
Data File Name: P110413A_03
Date Acquired: 4/13/2011
Sample Description: CAL CS1-7604-070 - SMT

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR09 (P)

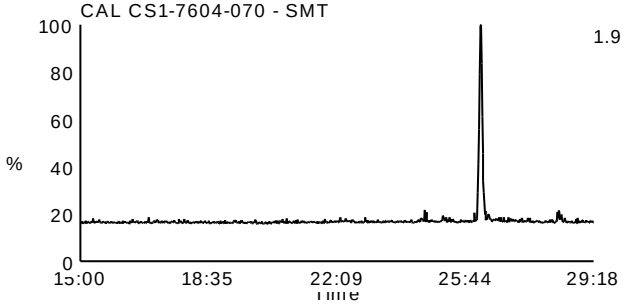
Data File: P110413A 03 G1 C1 - 303.9016
CAL CS1-7604-070 - SMT



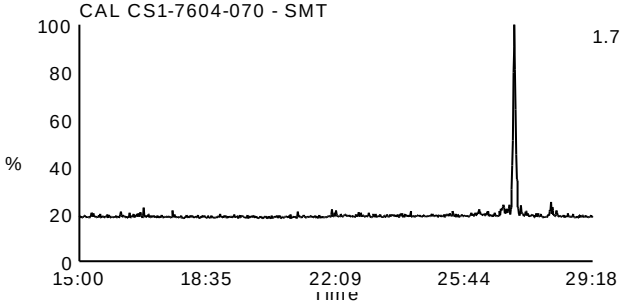
Data File: P110413A 03 G1 C7 - 319.8965
CAL CS1-7604-070 - SMT



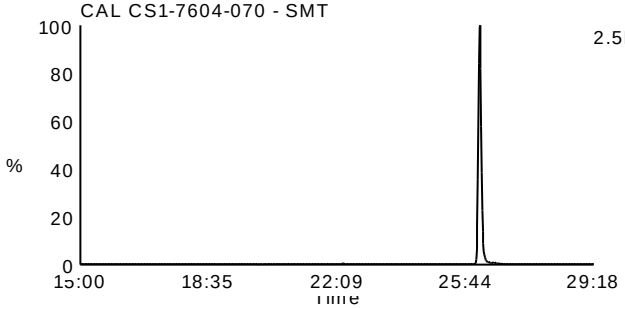
Data File: P110413A_03 G1 C2 - 305.8987
CAL CS1-7604-070 - SMT



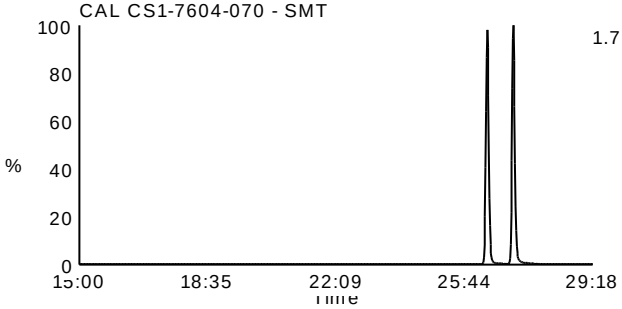
Data File: P110413A_03 G1 C8 - 321.8936
CAL CS1-7604-070 - SMT



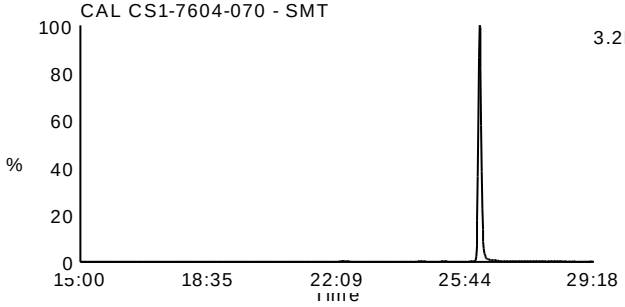
Data File: P110413A 03 G1 C3 - 315.9418
CAL CS1-7604-070 - SMT



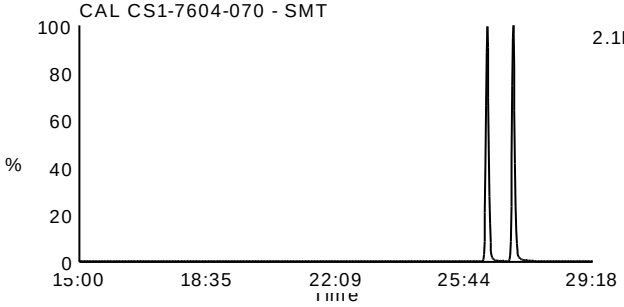
Data File: P110413A 03 G1 C10 - 331.9367
CAL CS1-7604-070 - SMT



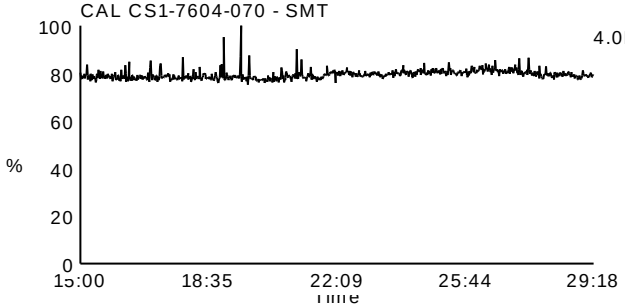
Data File: P110413A_03 G1 C4 - 317.9389
CAL CS1-7604-070 - SMT



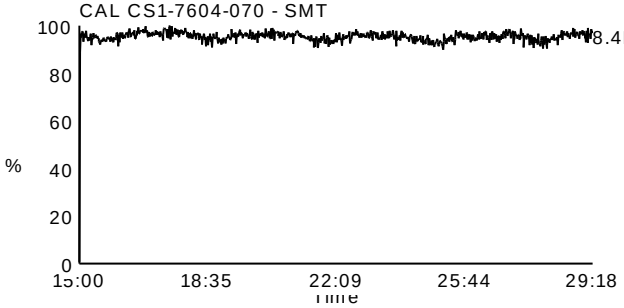
Data File: P110413A_03 G1 C11 - 333.9338
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G1 C14 - 375.8364
CAL CS1-7604-070 - SMT



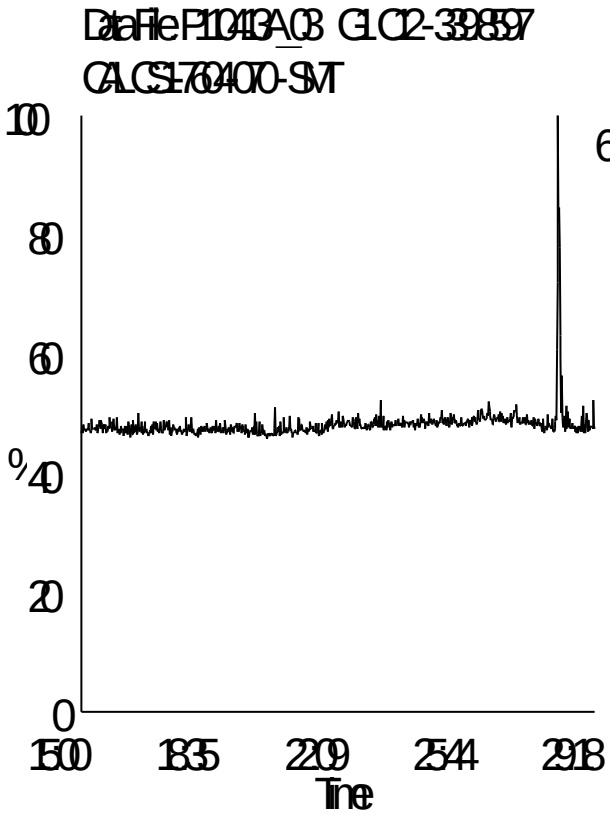
Data File: P110413A_03 G1 C5 - 318.9792
CAL CS1-7604-070 - SMT

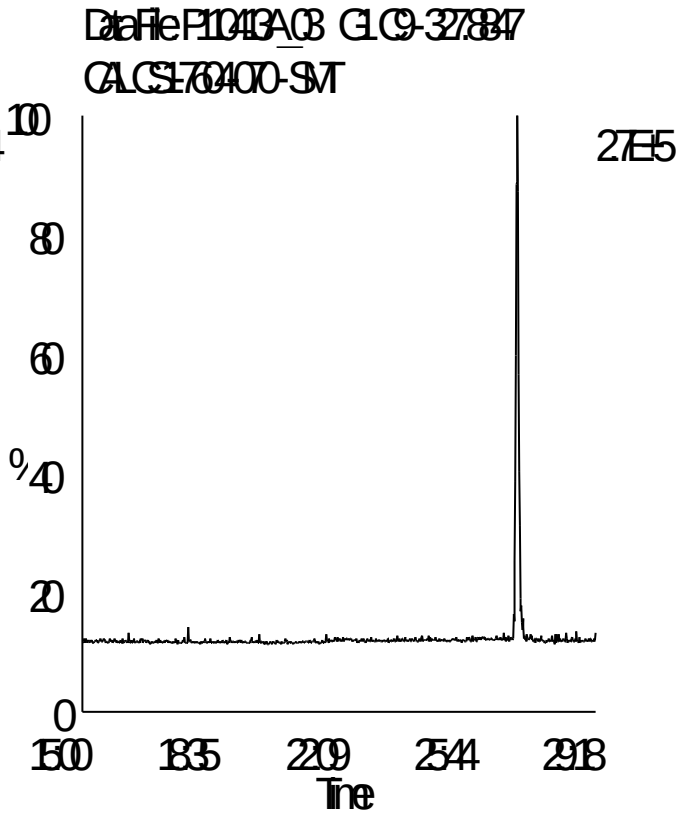


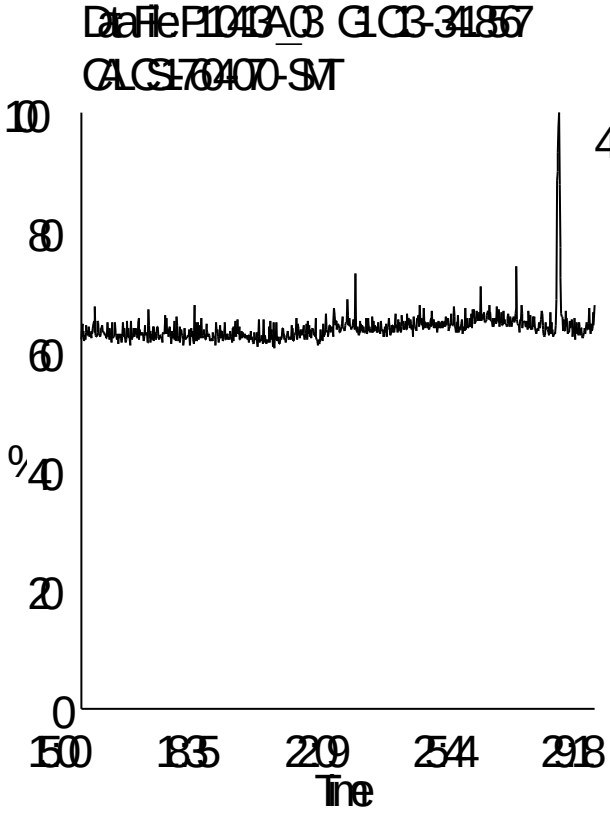
Homologue Group: Penta & Cleanup

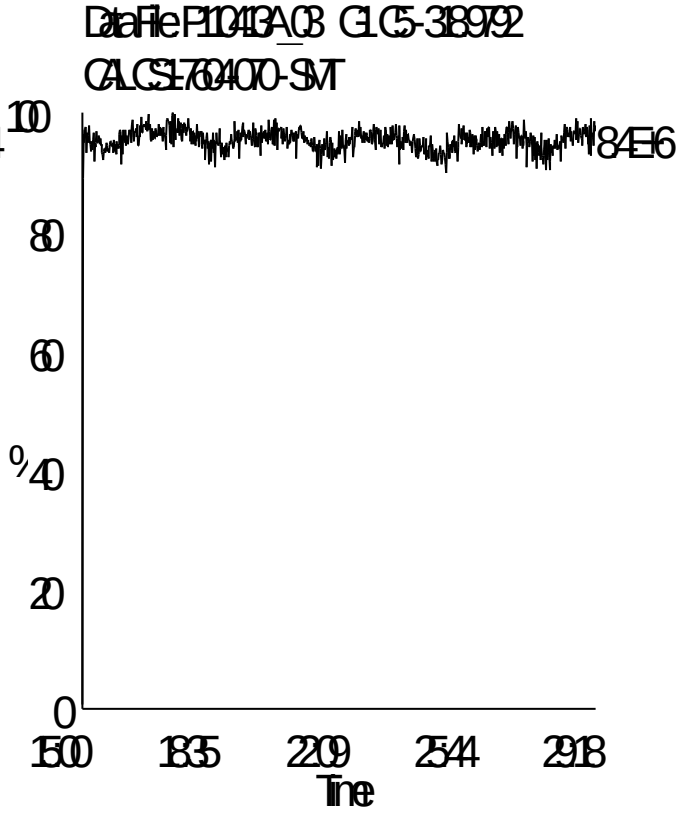
Data File Name: P110413A_03
Date Acquired: 4/13/2011
Sample Description: CAL CS1-7604-070 - SMT

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR09 (P)







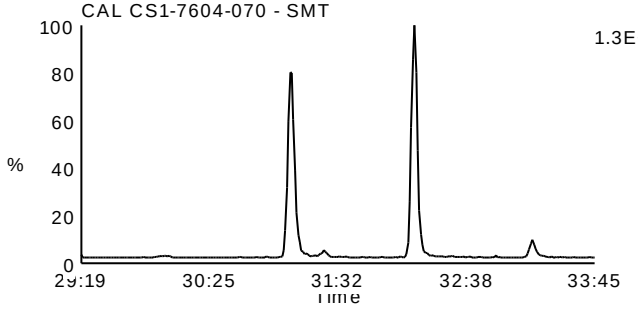


Homologue Group: Pentas

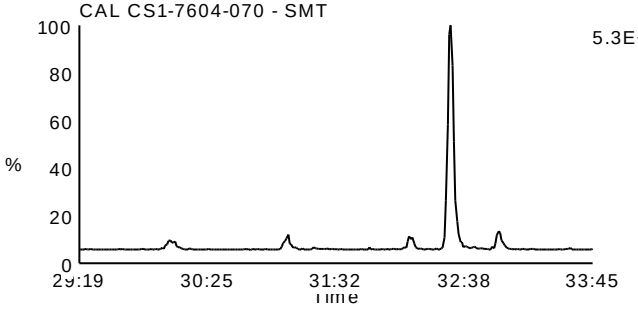
Data File Name: P110413A_03
Date Acquired: 4/13/2011
Sample Description: CAL CS1-7604-070 - SMT

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR09 (P)

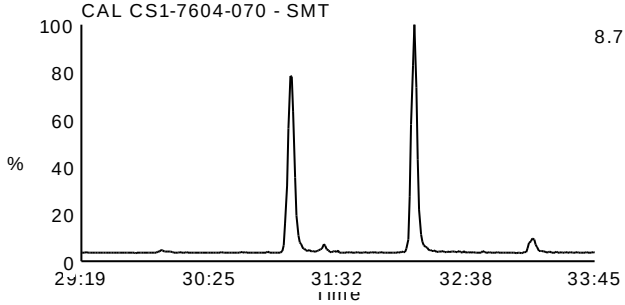
Data File: P110413A 03 G2 C1 - 339.8597
CAL CS1-7604-070 - SMT



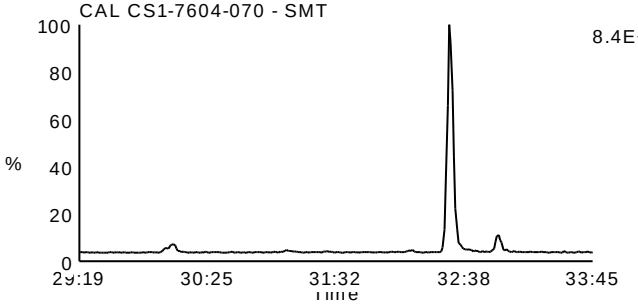
Data File: P110413A 03 G2 C4 - 353.8576
CAL CS1-7604-070 - SMT



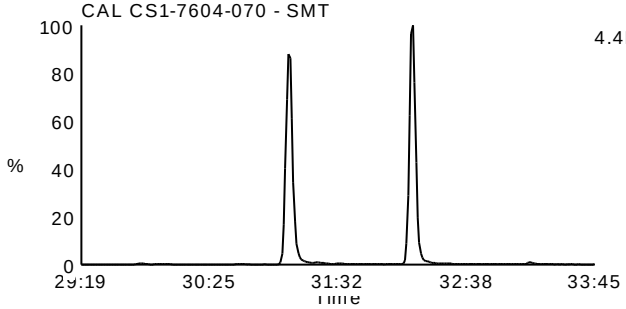
Data File: P110413A_03 G2 C2 - 341.8567
CAL CS1-7604-070 - SMT



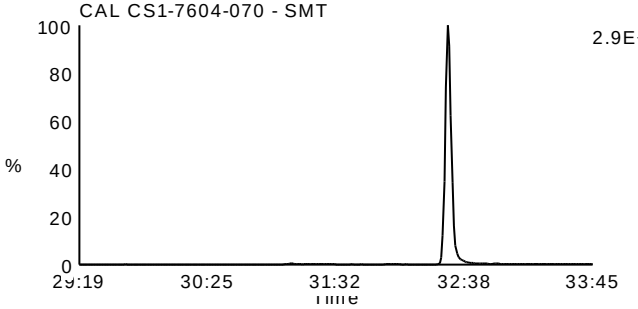
Data File: P110413A_03 G2 C8 - 355.8546
CAL CS1-7604-070 - SMT



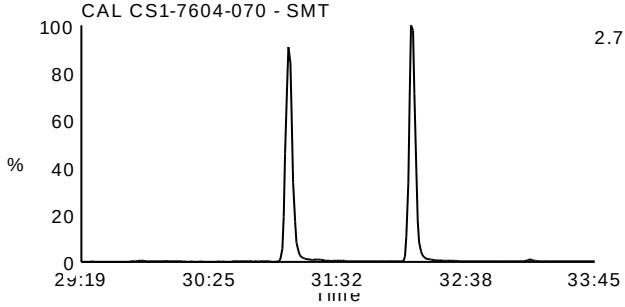
Data File: P110413A 03 G2 C3 - 351.8999
CAL CS1-7604-070 - SMT



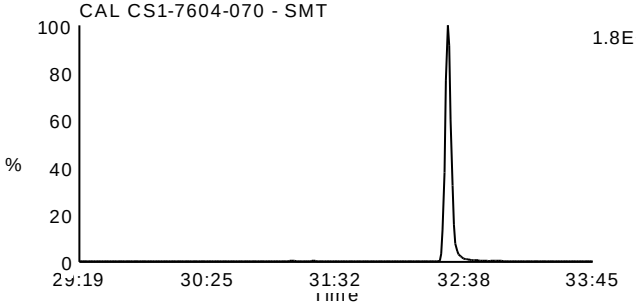
Data File: P110413A 03 G2 C10 - 367.8948
CAL CS1-7604-070 - SMT



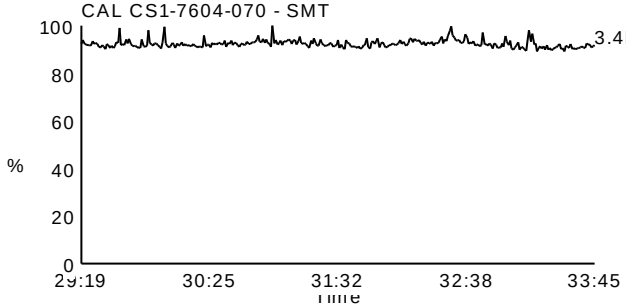
Data File: P110413A_03 G2 C5 - 353.8969
CAL CS1-7604-070 - SMT



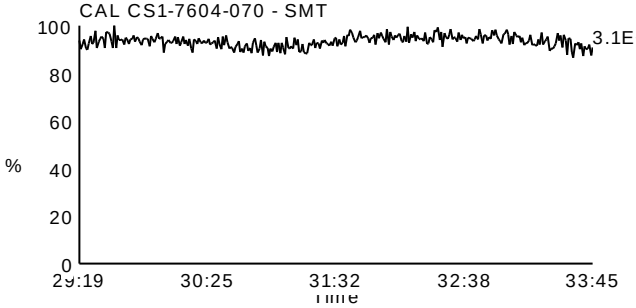
Data File: P110413A_03 G2 C11 - 369.8918
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G2 C12 - 409.7974
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G2 C6 - 354.9792
CAL CS1-7604-070 - SMT

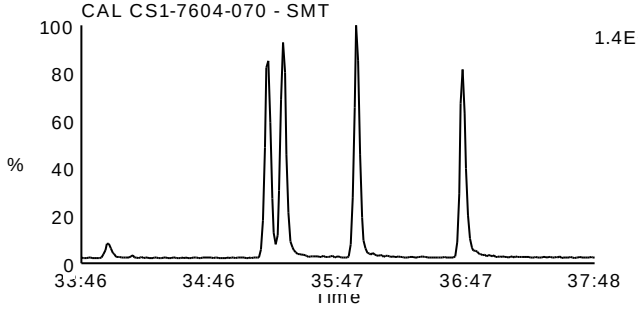


Homologue Group: Hexas

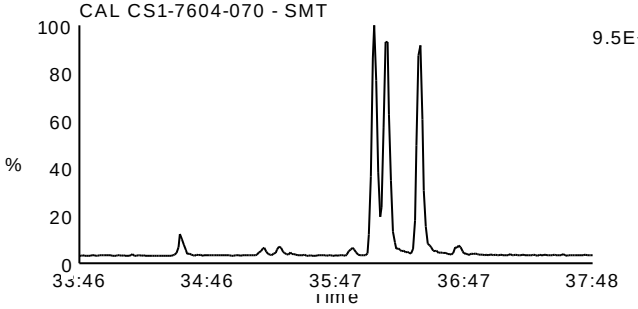
Data File Name: P110413A_03
Date Acquired: 4/13/2011
Sample Description: CAL CS1-7604-070 - SMT

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR09 (P)

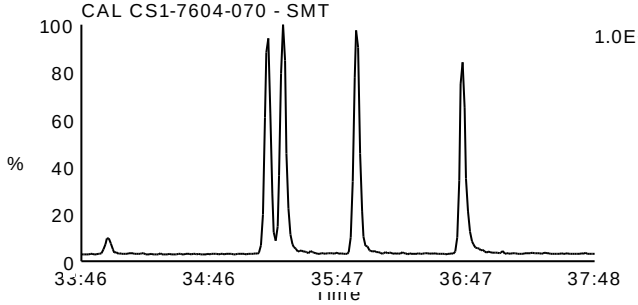
Data File: P110413A 03 G3 C1 - 373.8207
CAL CS1-7604-070 - SMT



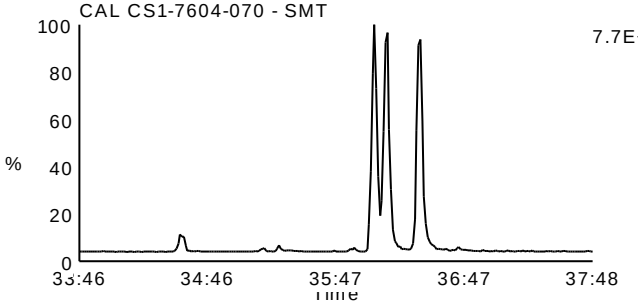
Data File: P110413A 03 G3 C7 - 389.8156
CAL CS1-7604-070 - SMT



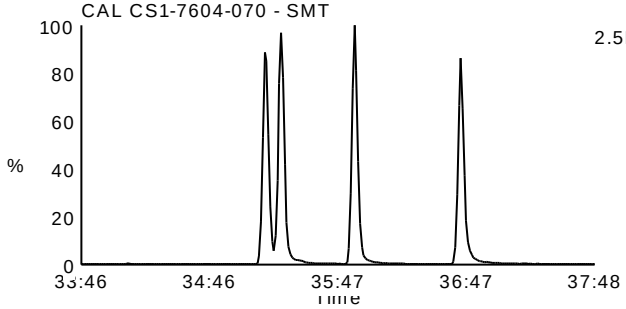
Data File: P110413A_03 G3 C2 - 375.8178
CAL CS1-7604-070 - SMT



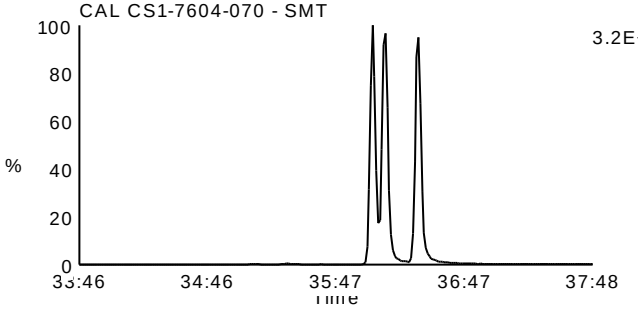
Data File: P110413A_03 G3 C8 - 391.8127
CAL CS1-7604-070 - SMT



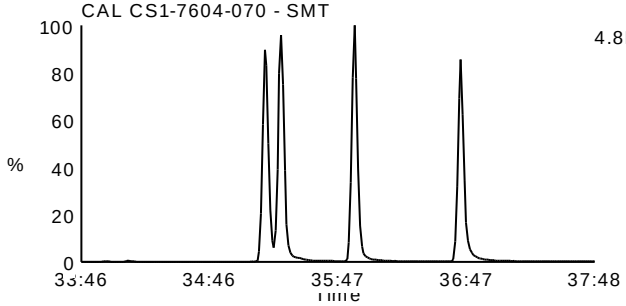
Data File: P110413A 03 G3 C5 - 383.8639
CAL CS1-7604-070 - SMT



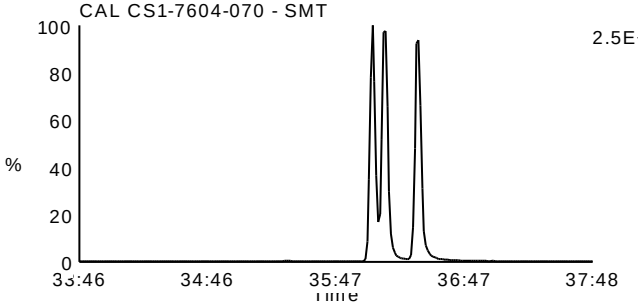
Data File: P110413A 03 G3 C9 - 401.8559
CAL CS1-7604-070 - SMT



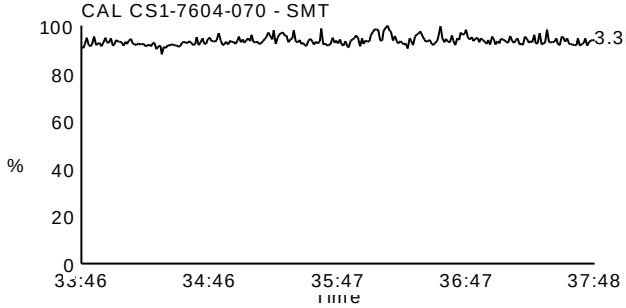
Data File: P110413A_03 G3 C6 - 385.861
CAL CS1-7604-070 - SMT



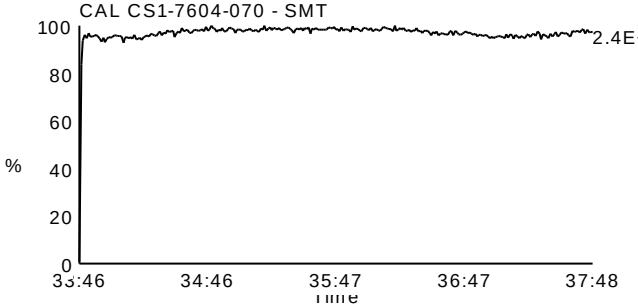
Data File: P110413A_03 G3 C10 - 403.8529
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G3 C11 - 445.7555
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G3 C3 - 380.976
CAL CS1-7604-070 - SMT

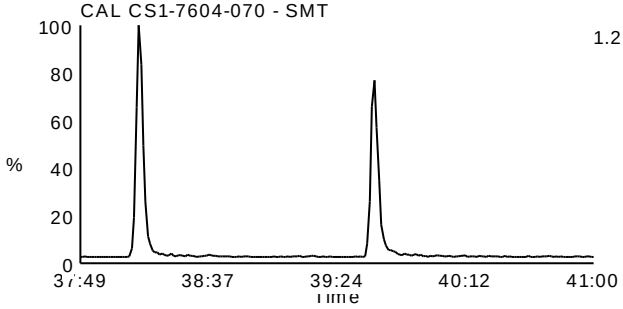


Homologue Group: Heptas

Data File Name: P110413A_03
Date Acquired: 4/13/2011
Sample Description: CAL CS1-7604-070 - SMT

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR09 (P)

Data File: P110413A 03 G4 C3 - 407.7818
CAL CS1-7604-070 - SMT



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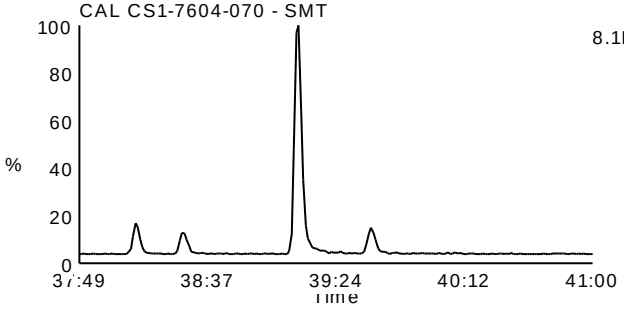
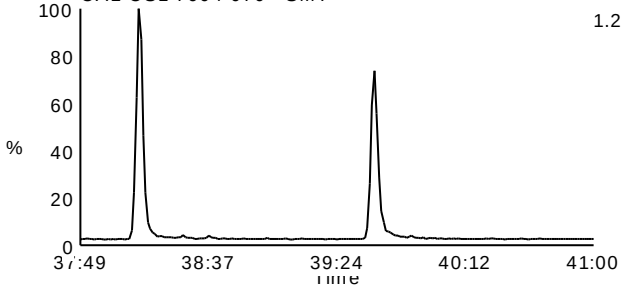
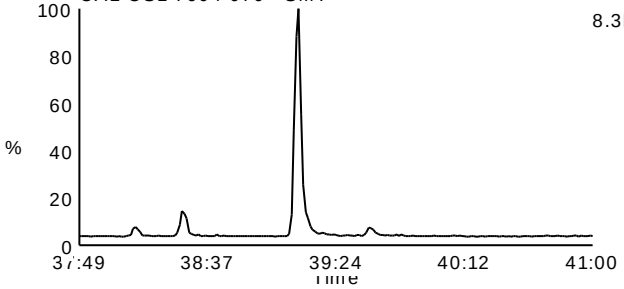
CAL CS1-7604-070 - SMT



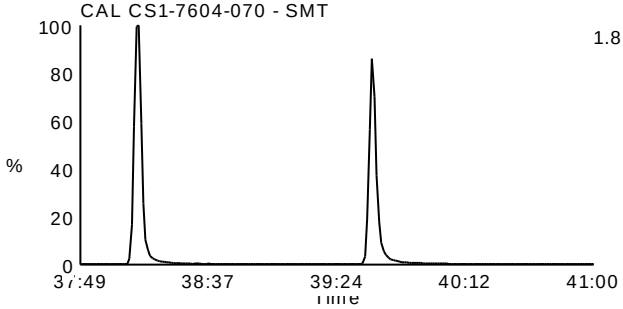
Data File: P110413A_03 G4 C4 - 409.7788
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G4 C9 - 425.7737
CAL CS1-7604-070 - SMT



Data File: P110413A 03 G4 C6 - 417.825
CAL CS1-7604-070 - SMT



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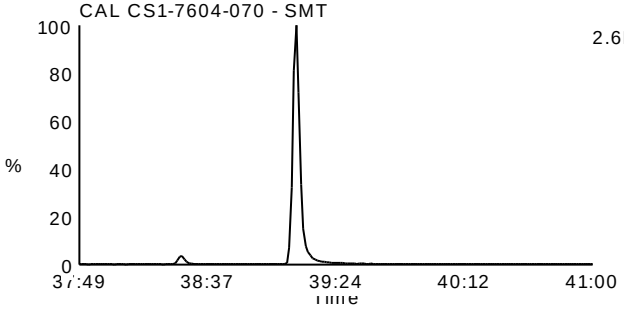
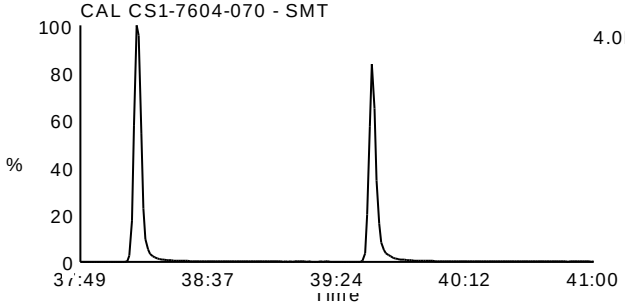
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G4 C7 - 419.822
CAL CS1-7604-070 - SMT



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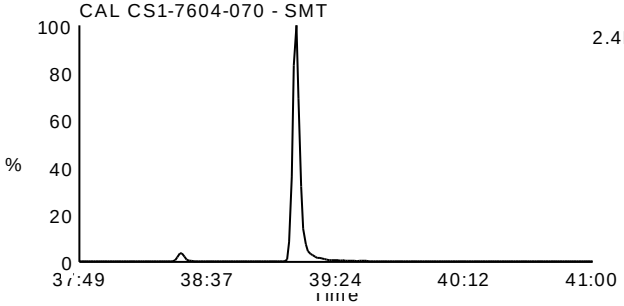
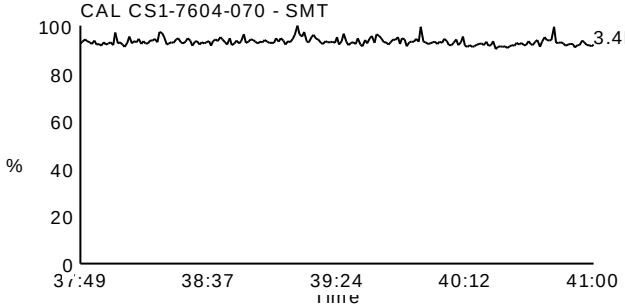
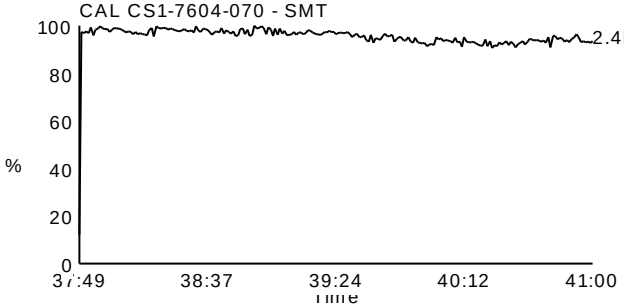
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G4 C13 - 479.7165
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G4 C1 - 380.976
CAL CS1-7604-070 - SMT

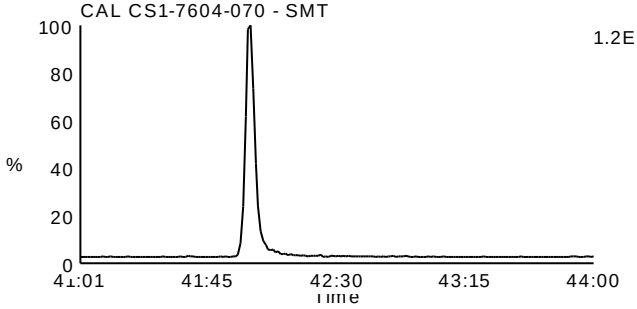


Homologue Group: Octas

Data File Name: P110413A_03
Date Acquired: 4/13/2011
Sample Description: CAL CS1-7604-070 - SMT

Lab Sample ID: CS1-7604-070
Client Sample ID: CS1
Instrument: 10MSHR09 (P)

Data File: P110413A 03 G5 C4 - 441.7428
CAL CS1-7604-070 - SMT



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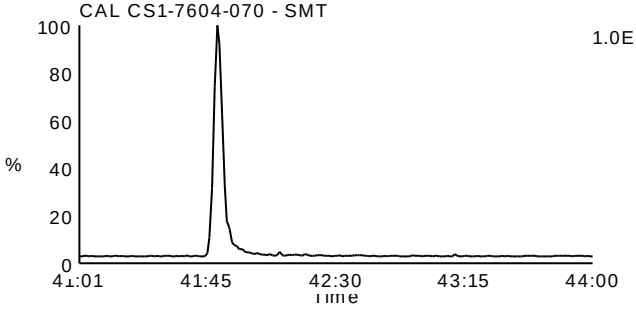
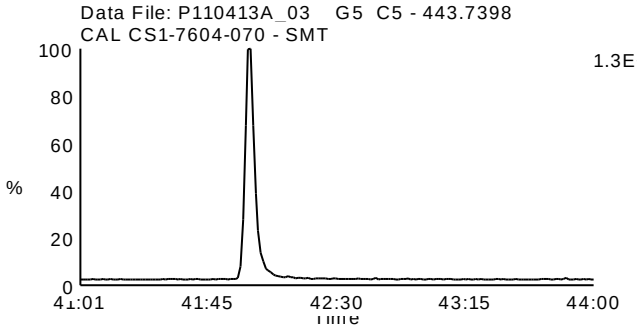
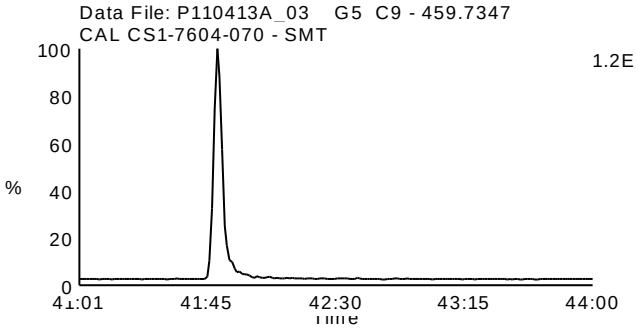
CAL CS1-7604-070 - SMT



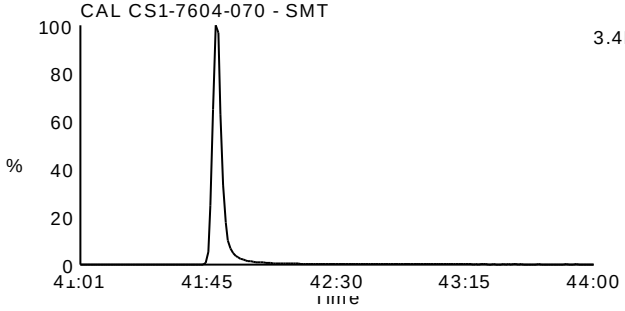
Data File: P110413A_03 G5 C5 - 443.7398
CAL CS1-7604-070 - SMT



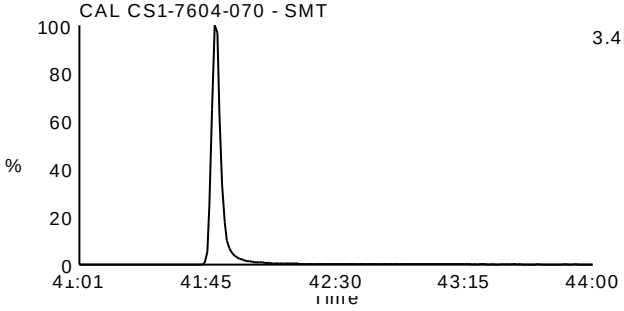
Data File: P110413A_03 G5 C9 - 459.7347
CAL CS1-7604-070 - SMT



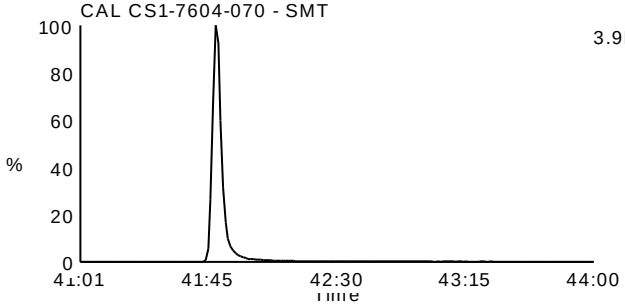
Data File: P110413A 03 G5 C11 - 469.7779
CAL CS1-7604-070 - SMT



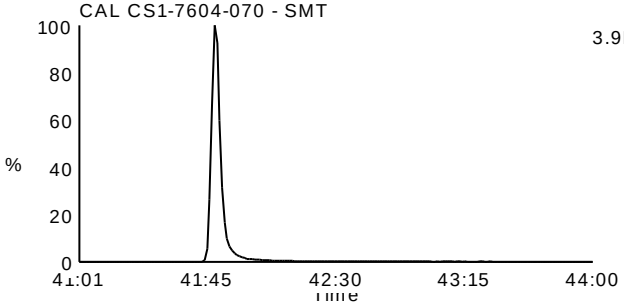
Data File: P110413A 03 G5 C11 - 469.7779
CAL CS1-7604-070 - SMT



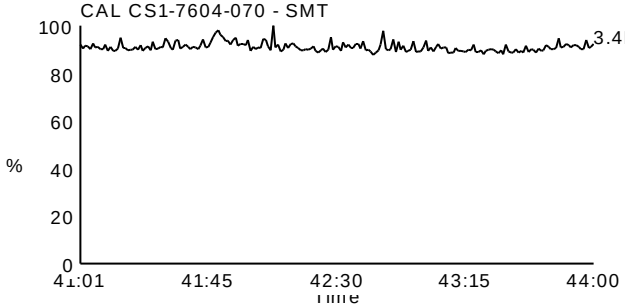
Data File: P110413A_03 G5 C12 - 471.7749
CAL CS1-7604-070 - SMT



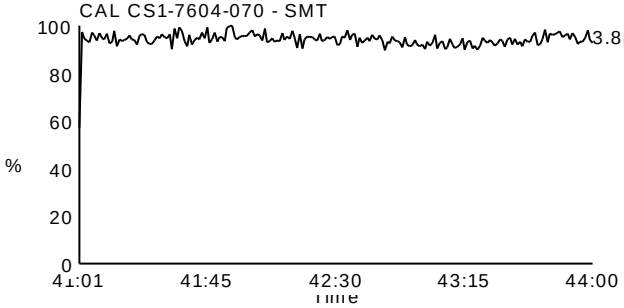
Data File: P110413A_03 G5 C12 - 471.7749
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G5 C13 - 513.6775
CAL CS1-7604-070 - SMT



Data File: P110413A_03 G5 C2 - 430.9728
CAL CS1-7604-070 - SMT

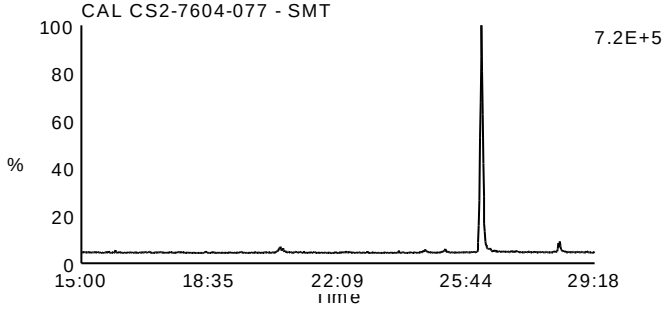


Homologue Group: Tetras

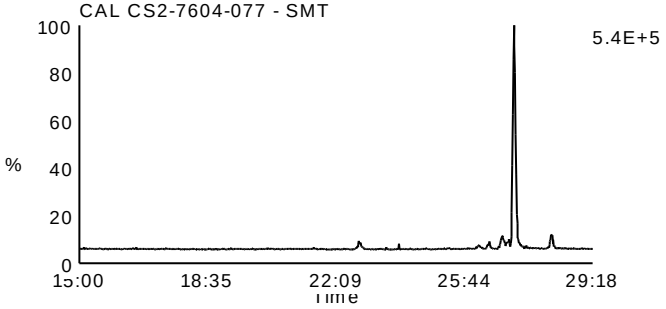
Data File Name: P110413A_02
Date Acquired: 4/13/2011
Sample Description: CAL CS2-7604-077 - SMT

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR09 (P)

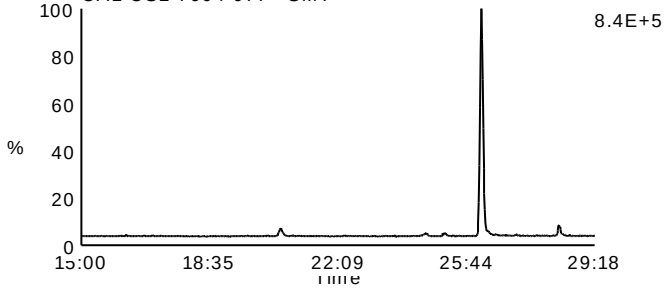
Data File: P110413A 02 G1 C1 - 303.9016
CAL CS2-7604-077 - SMT



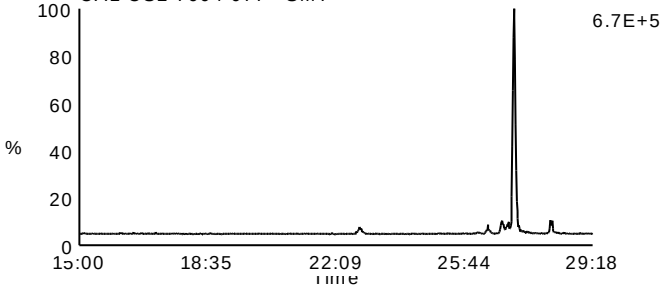
Data File: P110413A 02 G1 C7 - 319.8965
CAL CS2-7604-077 - SMT



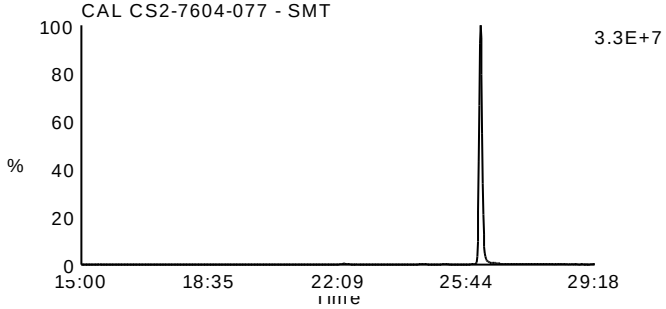
Data File: P110413A_02 G1 C2 - 305.8987
CAL CS2-7604-077 - SMT



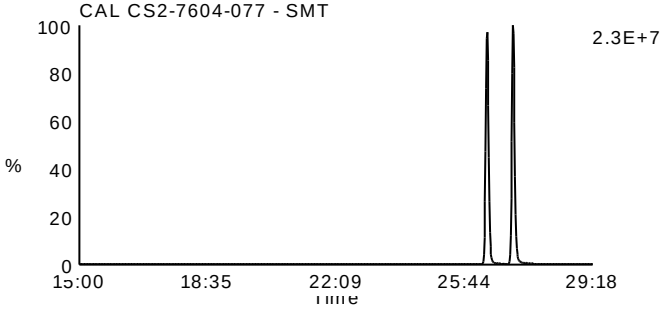
Data File: P110413A_02 G1 C8 - 321.8936
CAL CS2-7604-077 - SMT



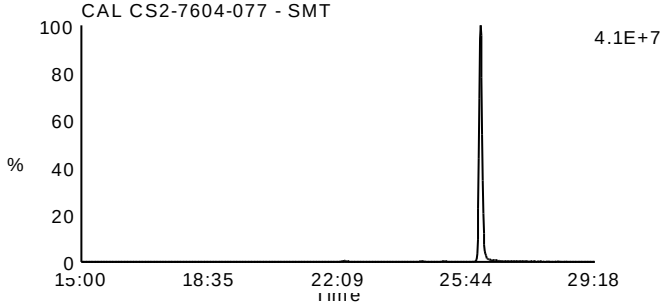
Data File: P110413A 02 G1 C3 - 315.9418
CAL CS2-7604-077 - SMT



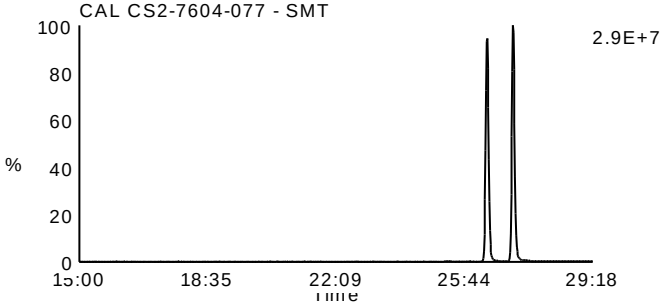
Data File: P110413A 02 G1 C10 - 331.9367
CAL CS2-7604-077 - SMT



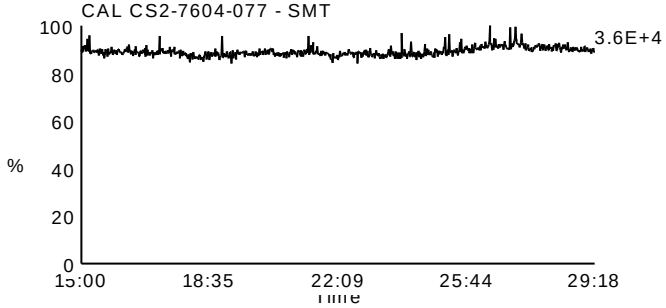
Data File: P110413A_02 G1 C4 - 317.9389
CAL CS2-7604-077 - SMT



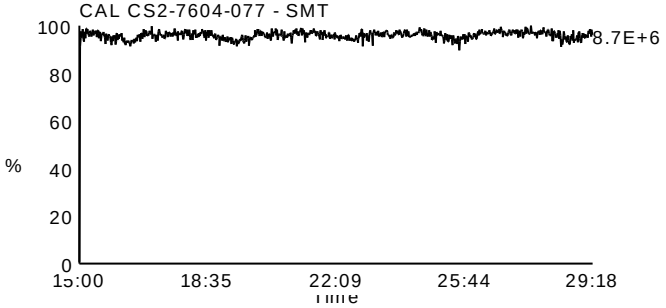
Data File: P110413A_02 G1 C11 - 333.9338
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G1 C14 - 375.8364
CAL CS2-7604-077 - SMT



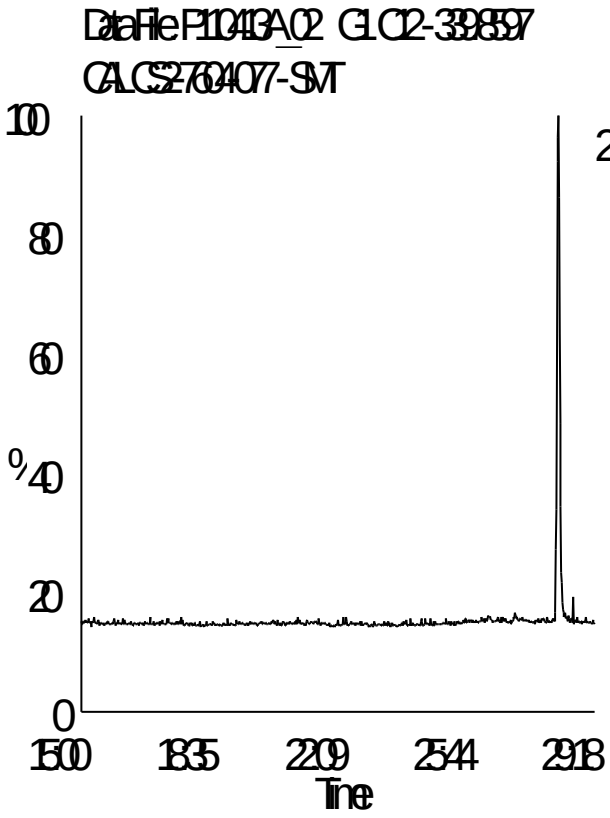
Data File: P110413A_02 G1 C5 - 318.9792
CAL CS2-7604-077 - SMT

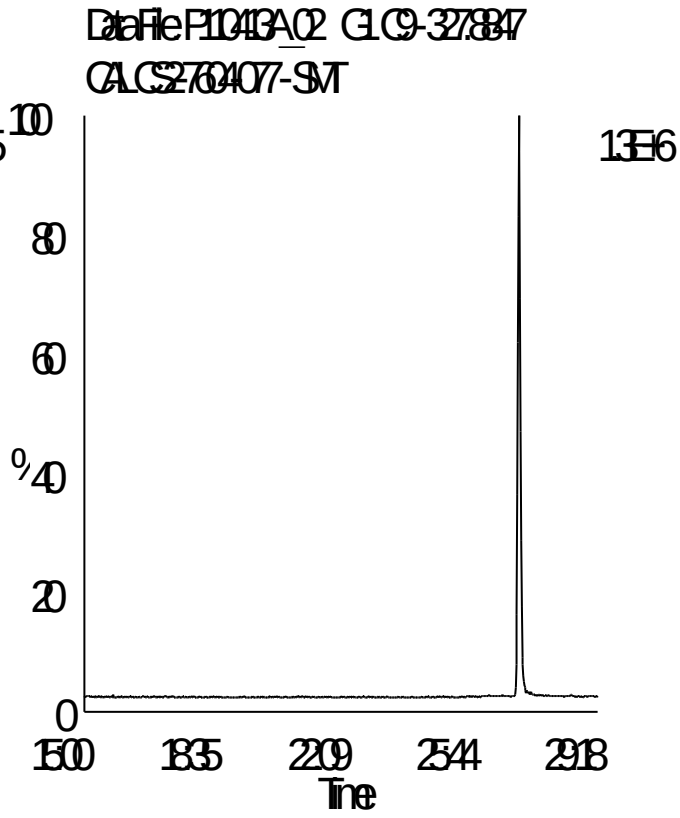


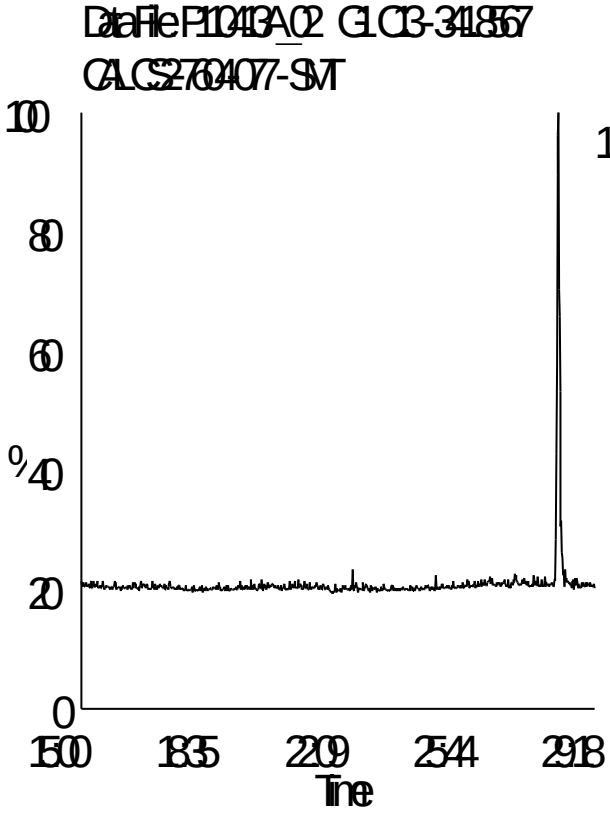
Homologue Group: Penta & Cleanup

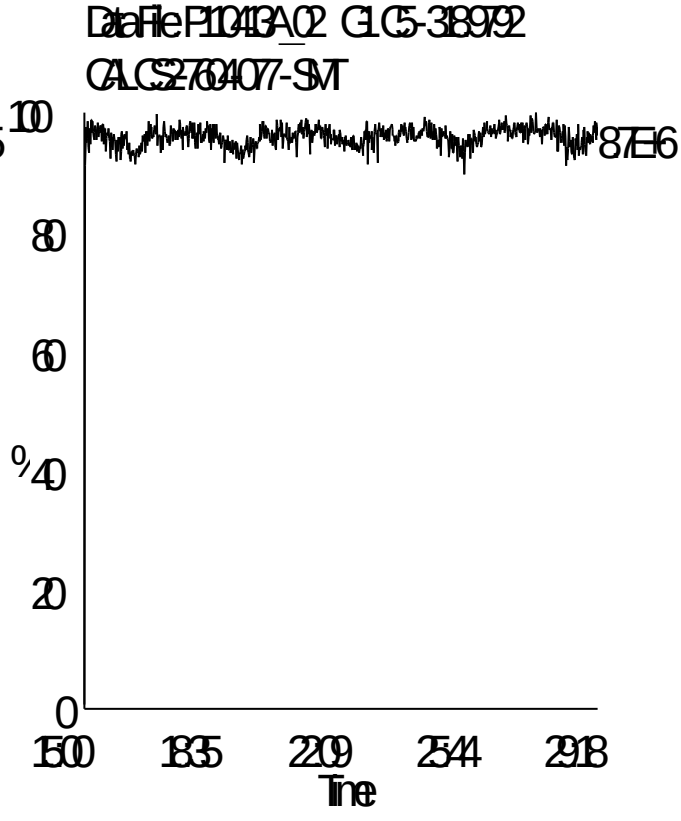
Data File Name: P110413A_02
Date Acquired: 4/13/2011
Sample Description: CAL CS2-7604-077 - SMT

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR09 (P)







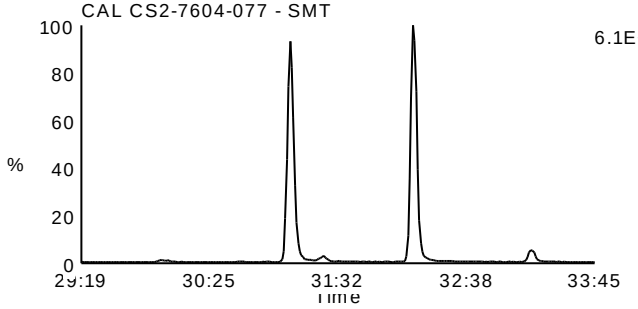


Homologue Group: Pentas

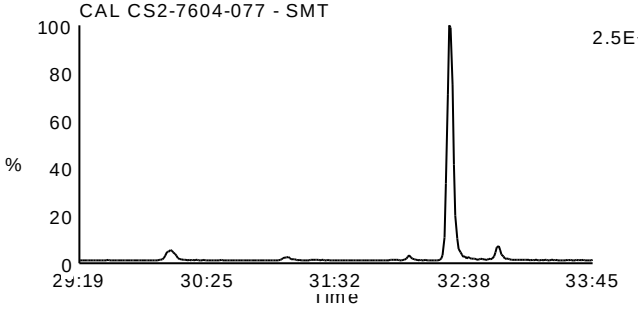
Data File Name: P110413A_02
Date Acquired: 4/13/2011
Sample Description: CAL CS2-7604-077 - SMT

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR09 (P)

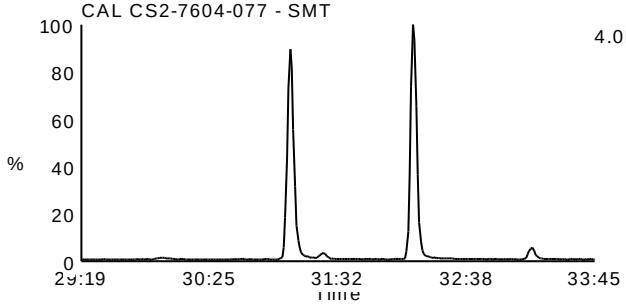
Data File: P110413A 02 G2 C1 - 339.8597
CAL CS2-7604-077 - SMT



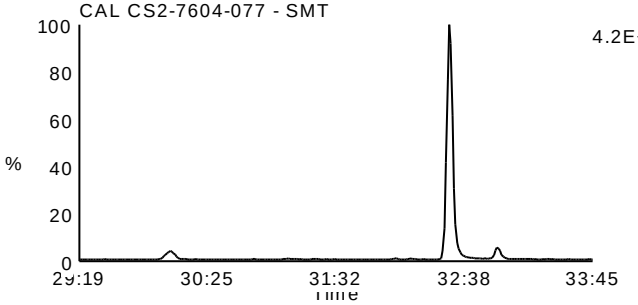
Data File: P110413A 02 G2 C4 - 353.8576
CAL CS2-7604-077 - SMT



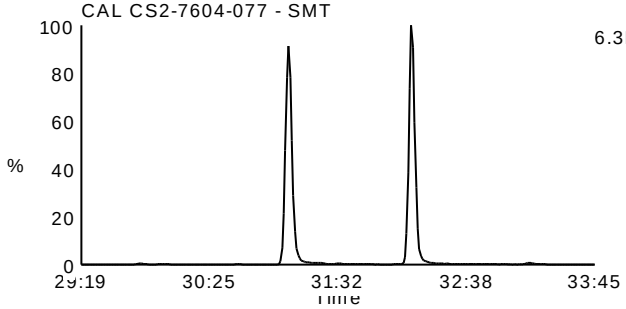
Data File: P110413A_02 G2 C2 - 341.8567
CAL CS2-7604-077 - SMT



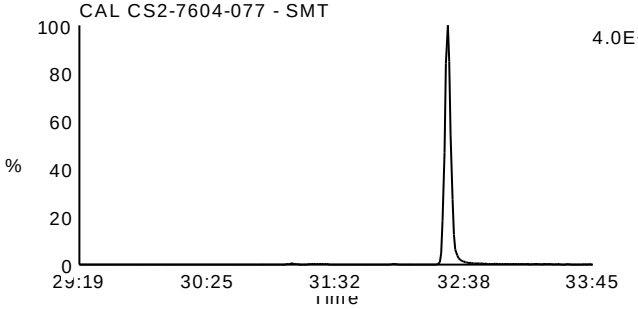
Data File: P110413A_02 G2 C8 - 355.8546
CAL CS2-7604-077 - SMT



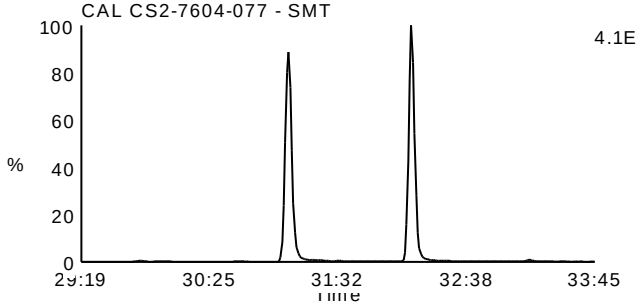
Data File: P110413A 02 G2 C3 - 351.8999
CAL CS2-7604-077 - SMT



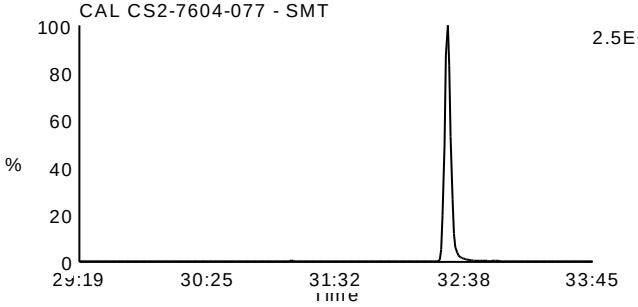
Data File: P110413A 02 G2 C10 - 367.8948
CAL CS2-7604-077 - SMT



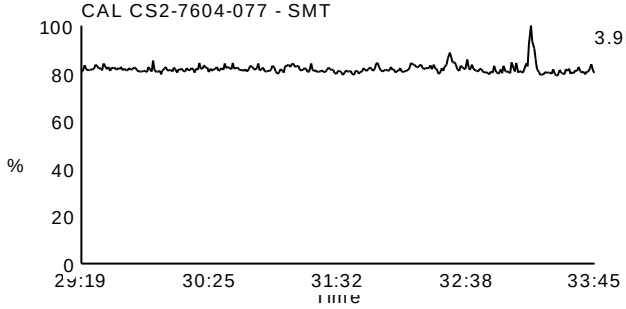
Data File: P110413A_02 G2 C5 - 353.8969
CAL CS2-7604-077 - SMT



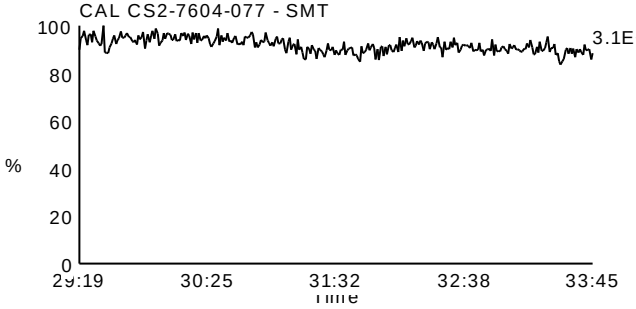
Data File: P110413A_02 G2 C11 - 369.8918
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G2 C12 - 409.7974
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G2 C6 - 354.9792
CAL CS2-7604-077 - SMT

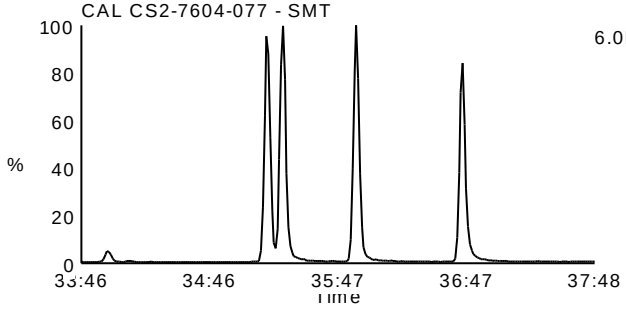


Homologue Group: Hexas

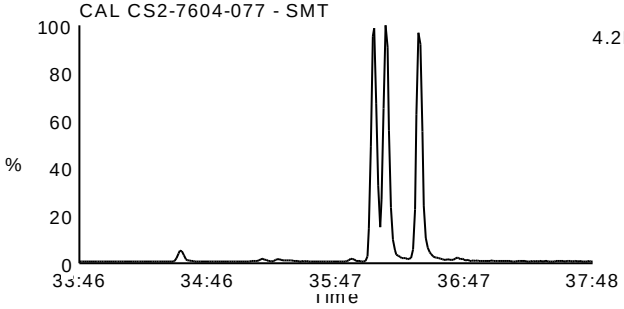
Data File Name: P110413A_02
Date Acquired: 4/13/2011
Sample Description: CAL CS2-7604-077 - SMT

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR09 (P)

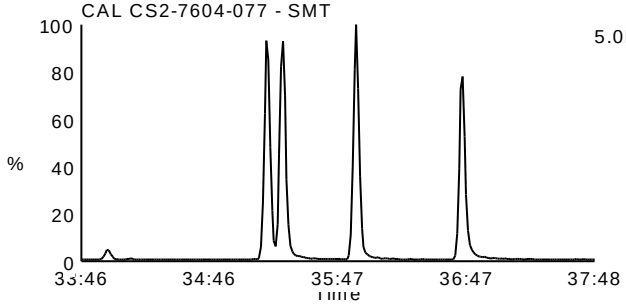
Data File: P110413A 02 G3 C1 - 373.8207
CAL CS2-7604-077 - SMT



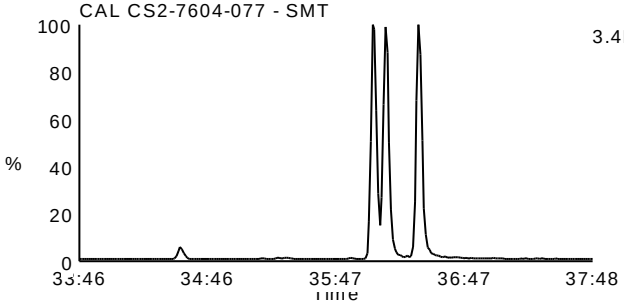
Data File: P110413A 02 G3 C7 - 389.8156
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G3 C2 - 375.8178
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G3 C8 - 391.8127
CAL CS2-7604-077 - SMT



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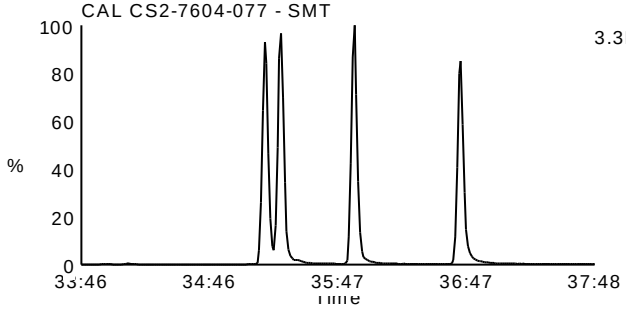
CAL CS2-7604-077 - SMT



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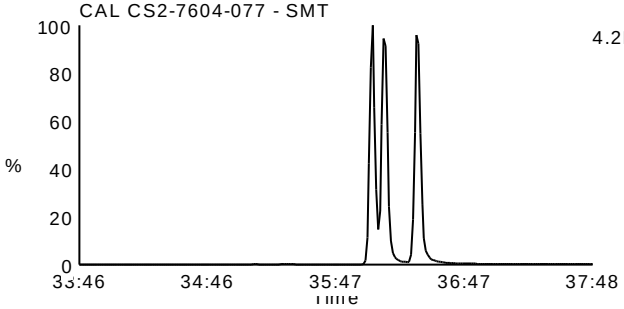
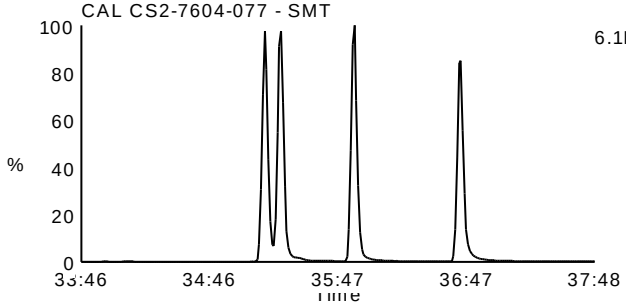
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G3 C6 - 385.861
CAL CS2-7604-077 - SMT



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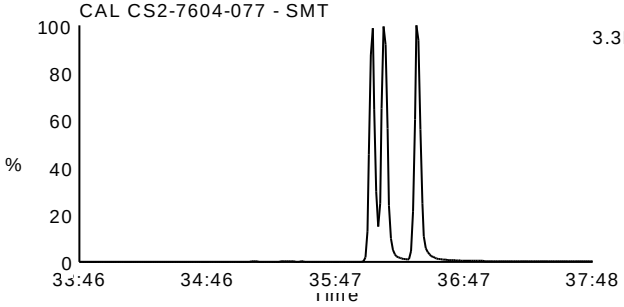
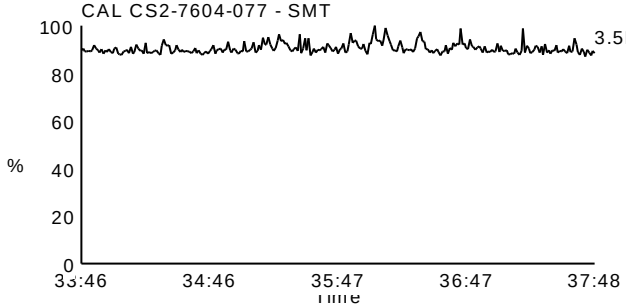
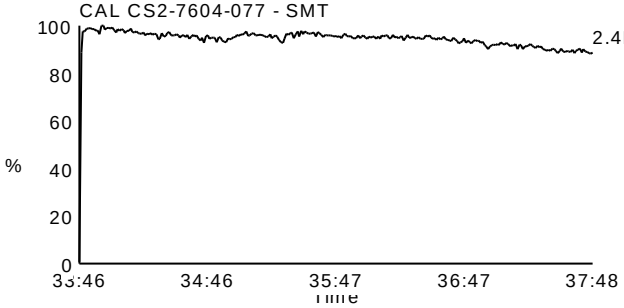
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G3 C11 - 445.7555
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G3 C3 - 380.976
CAL CS2-7604-077 - SMT

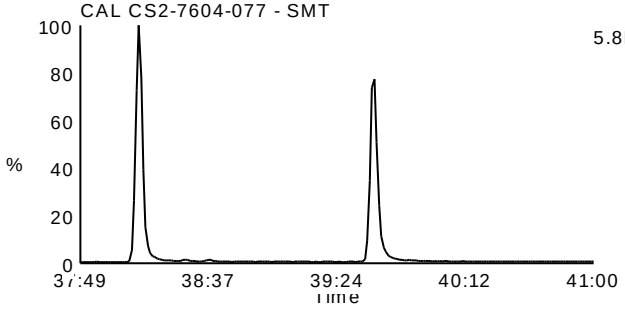


Homologue Group: Heptas

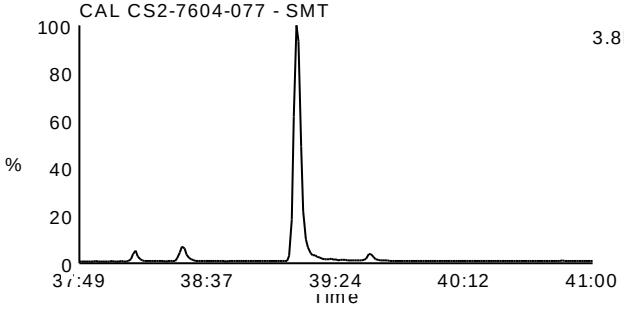
Data File Name: P110413A_02
Date Acquired: 4/13/2011
Sample Description: CAL CS2-7604-077 - SMT

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR09 (P)

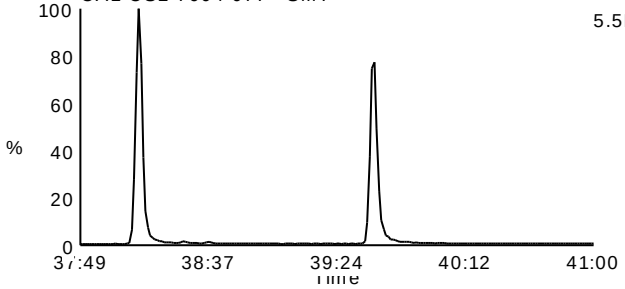
Data File: P110413A 02 G4 C3 - 407.7818
CAL CS2-7604-077 - SMT



Data File: P110413A 02 G4 C8 - 423.7767
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G4 C4 - 409.7788
CAL CS2-7604-077 - SMT



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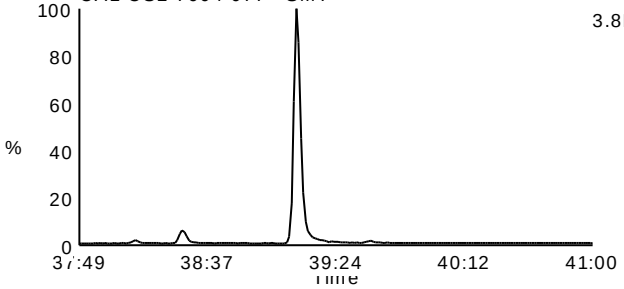
CAL CS2-7604-077 - SMT



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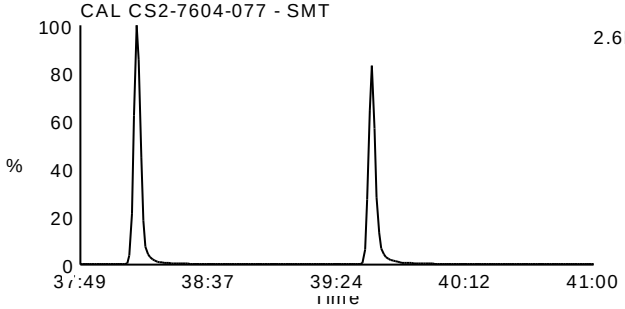
CAL CS2-7604-077 - SMT



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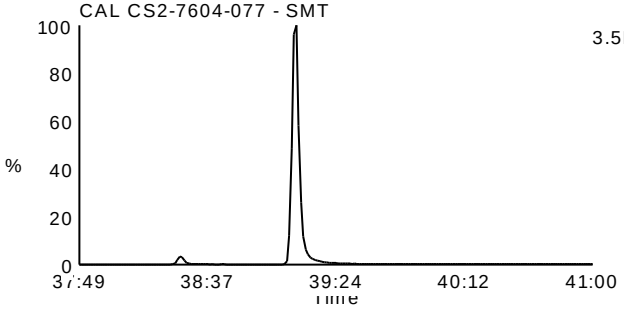
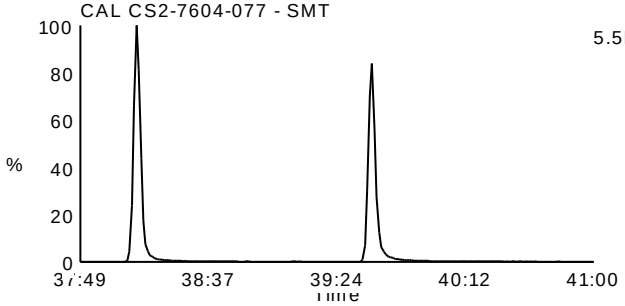
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G4 C7 - 419.822
CAL CS2-7604-077 - SMT



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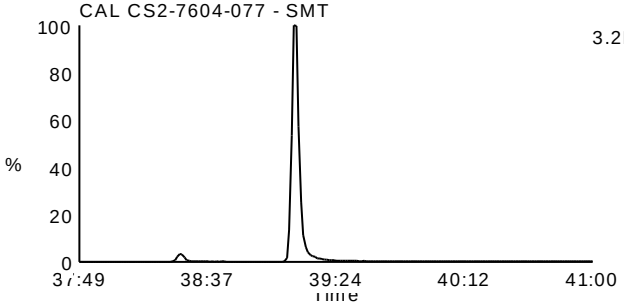
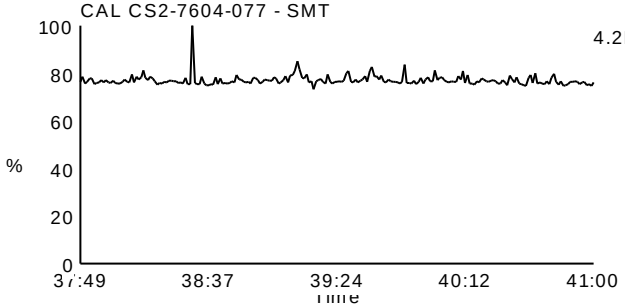
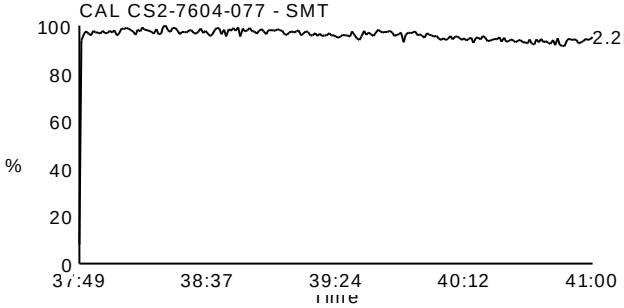
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G4 C13 - 479.7165
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G4 C1 - 380.976
CAL CS2-7604-077 - SMT

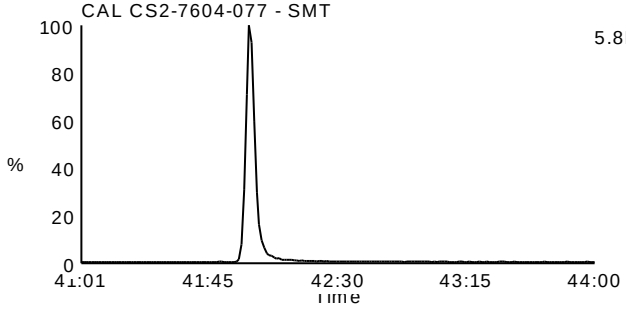


Homologue Group: Octas

Data File Name: P110413A_02
Date Acquired: 4/13/2011
Sample Description: CAL CS2-7604-077 - SMT

Lab Sample ID: CS2-7604-077
Client Sample ID: CS2
Instrument: 10MSHR09 (P)

Data File: P110413A 02 G5 C4 - 441.7428
CAL CS2-7604-077 - SMT



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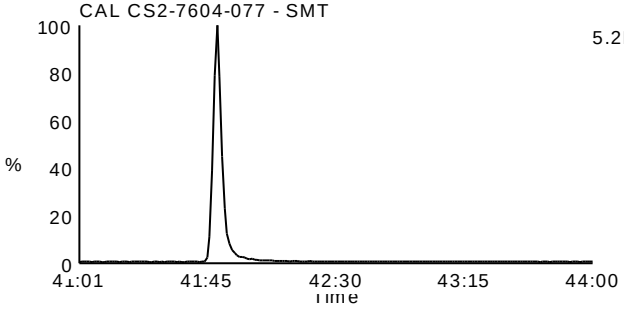
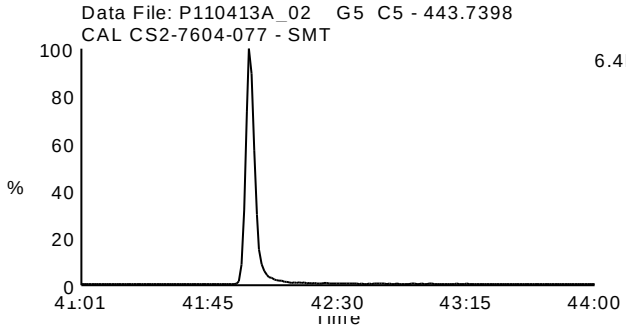
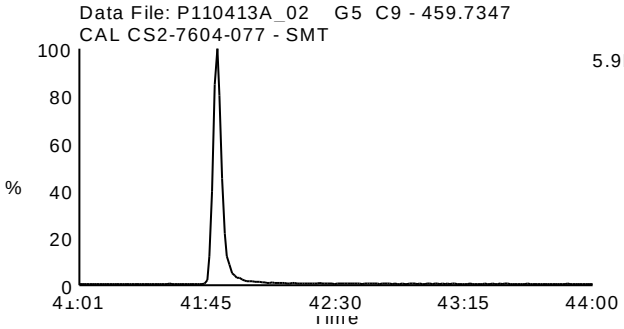
CAL CS2-7604-077 - SMT



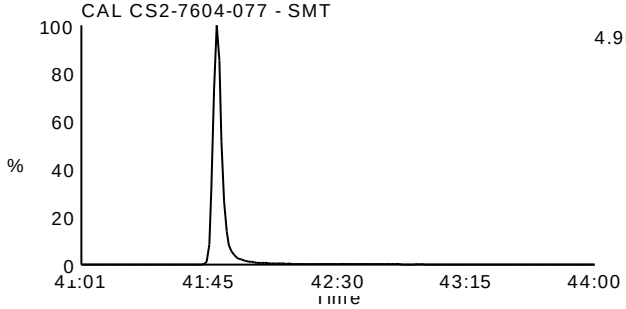
Data File: P110413A_02 G5 C5 - 443.7398
CAL CS2-7604-077 - SMT



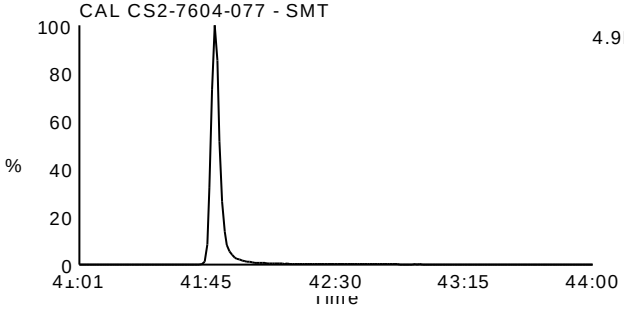
Data File: P110413A_02 G5 C9 - 459.7347
CAL CS2-7604-077 - SMT



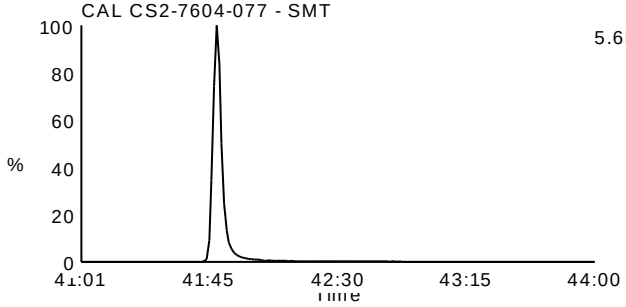
Data File: P110413A 02 G5 C11 - 469.7779
CAL CS2-7604-077 - SMT



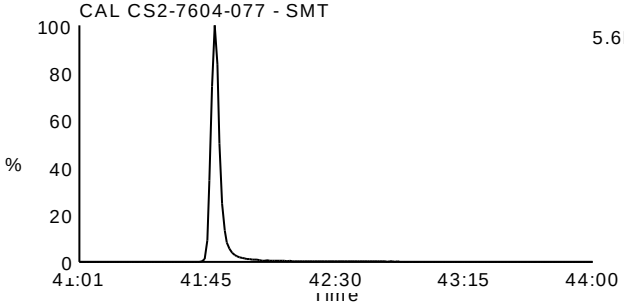
Data File: P110413A 02 G5 C11 - 469.7779
CAL CS2-7604-077 - SMT



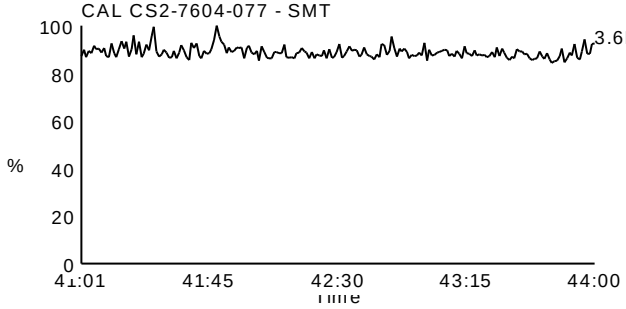
Data File: P110413A_02 G5 C12 - 471.7749
CAL CS2-7604-077 - SMT



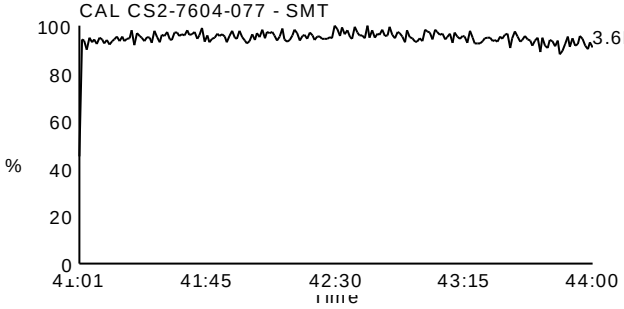
Data File: P110413A_02 G5 C12 - 471.7749
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G5 C13 - 513.6775
CAL CS2-7604-077 - SMT



Data File: P110413A_02 G5 C2 - 430.9728
CAL CS2-7604-077 - SMT

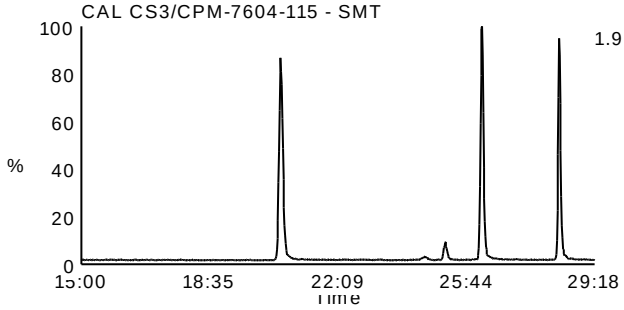


Homologue Group: Tetras

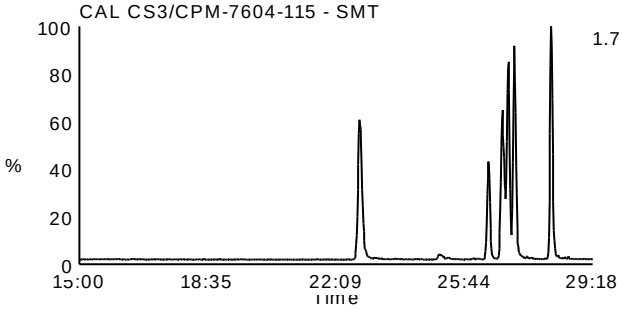
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

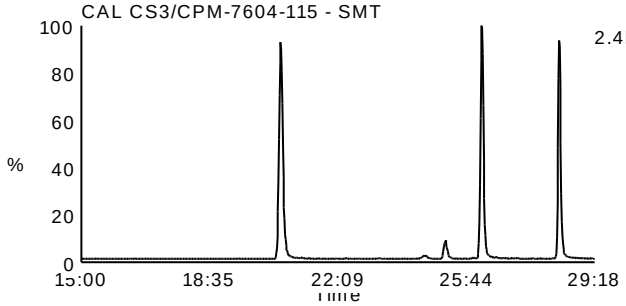
Data File: P110413A 01 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - SMT



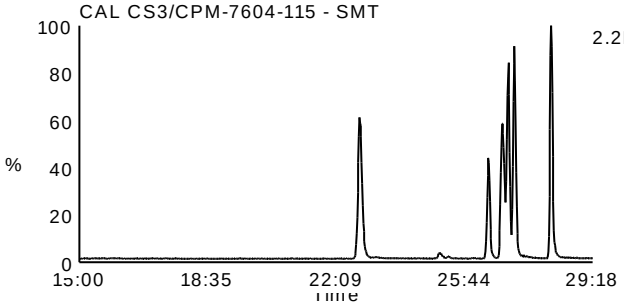
Data File: P110413A 01 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - SMT



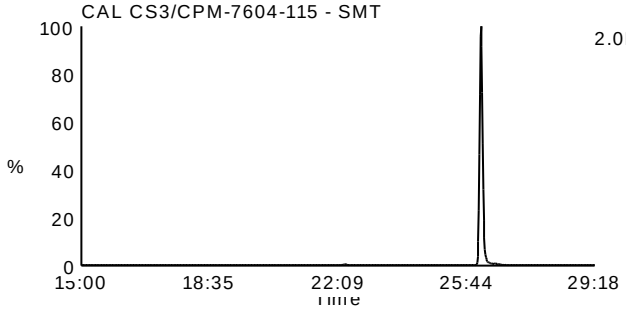
Data File: P110413A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - SMT



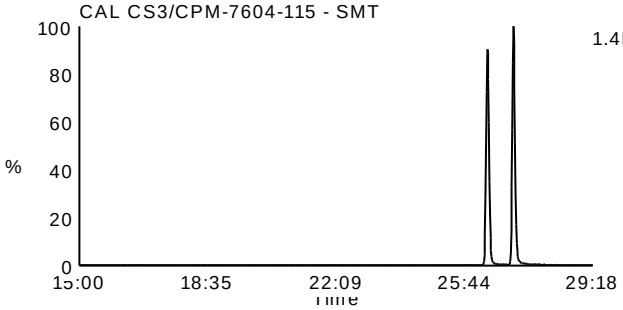
Data File: P110413A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - SMT



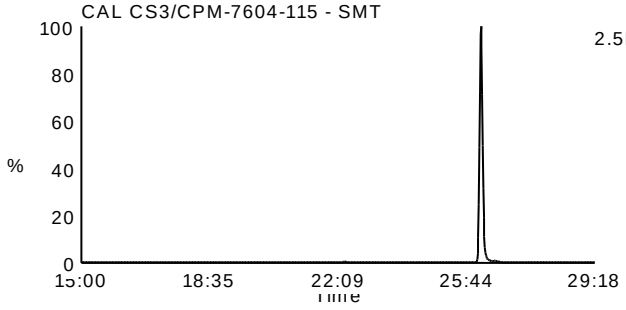
Data File: P110413A 01 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - SMT



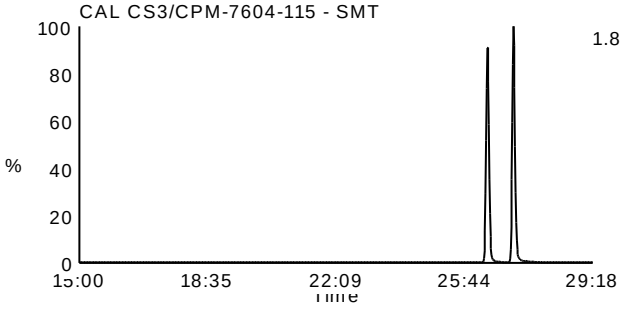
Data File: P110413A 01 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - SMT



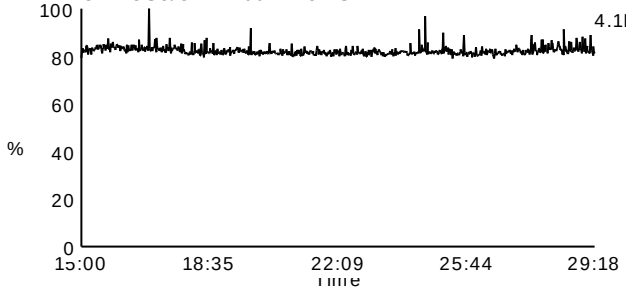
Data File: P110413A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - SMT



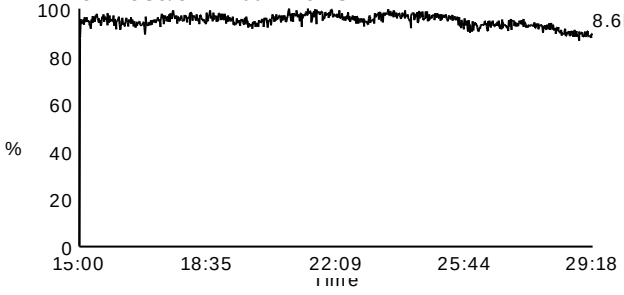
Data File: P110413A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - SMT



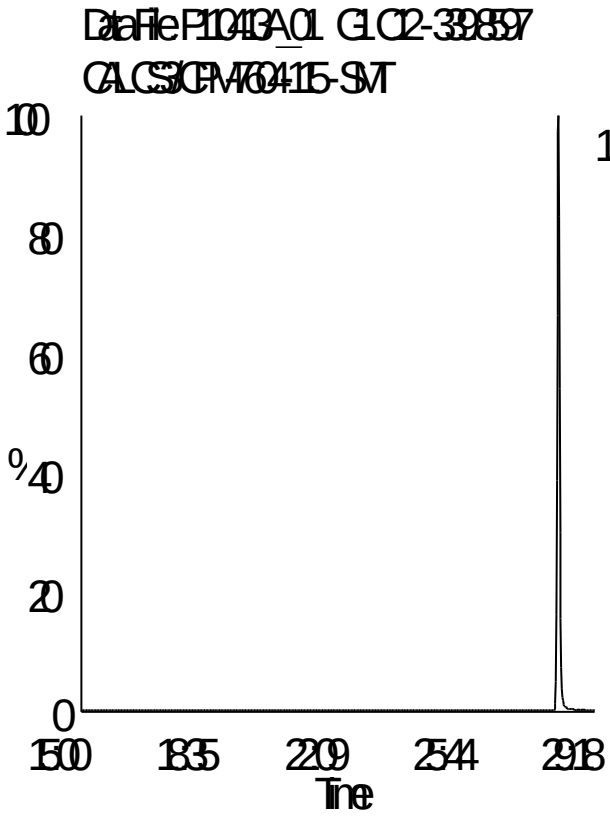
Data File: P110413A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - SMT

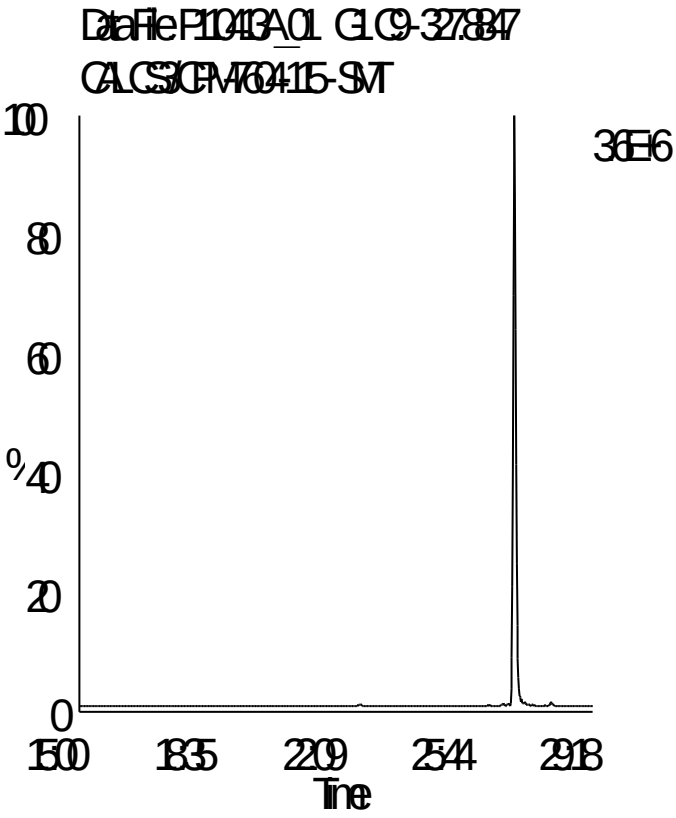


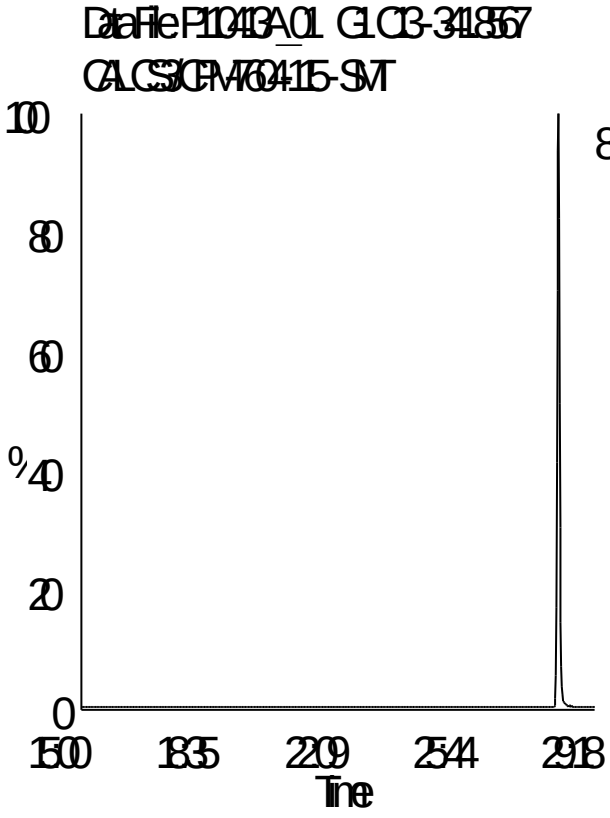
Homologue Group: Penta & Cleanup

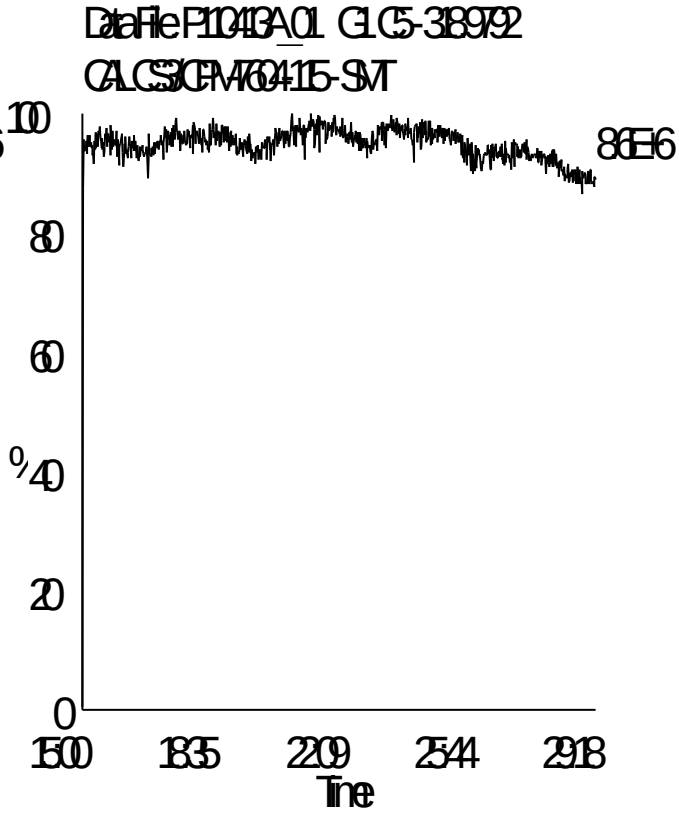
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)





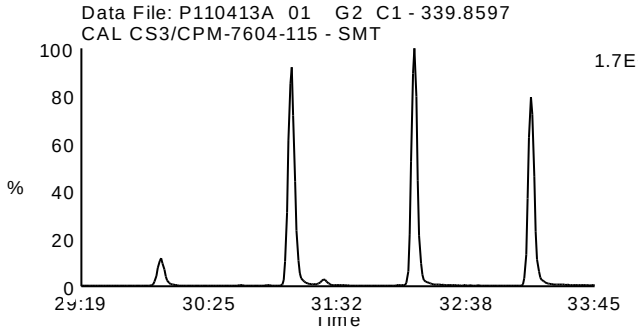


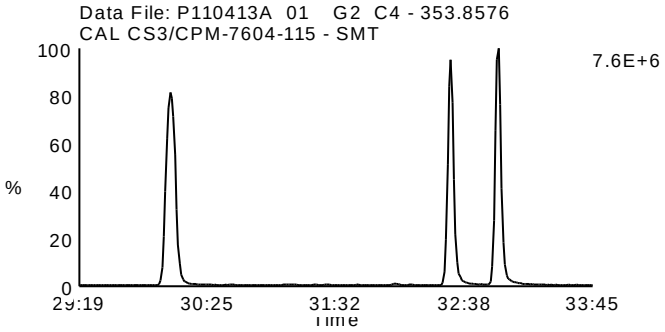


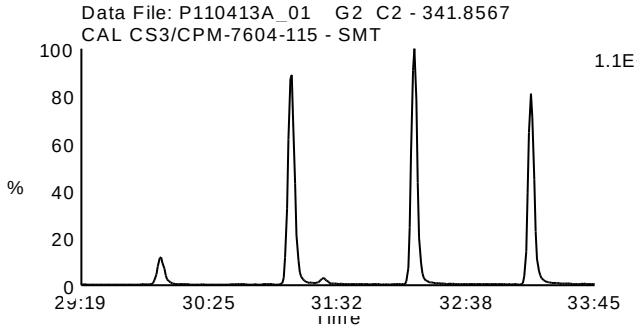
Homologue Group: Pentas

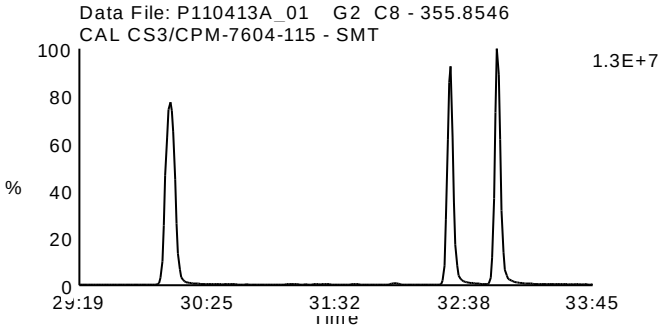
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

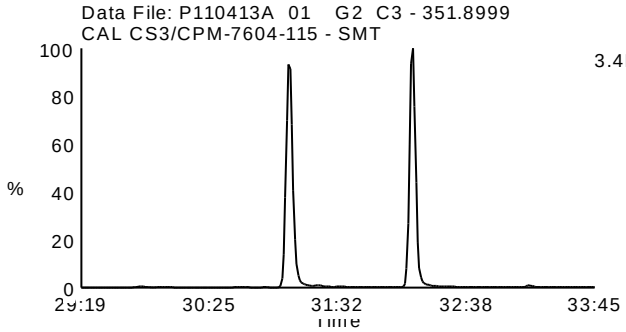
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

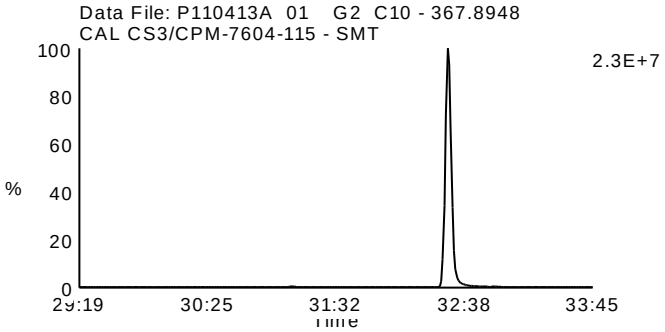


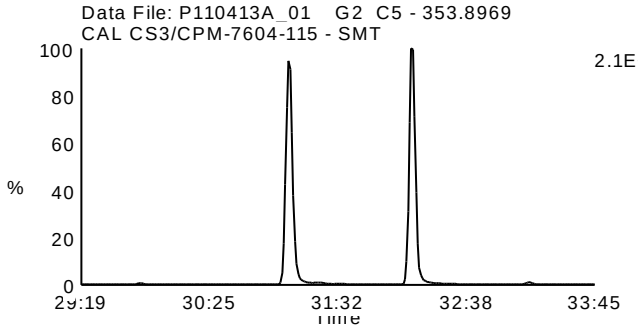


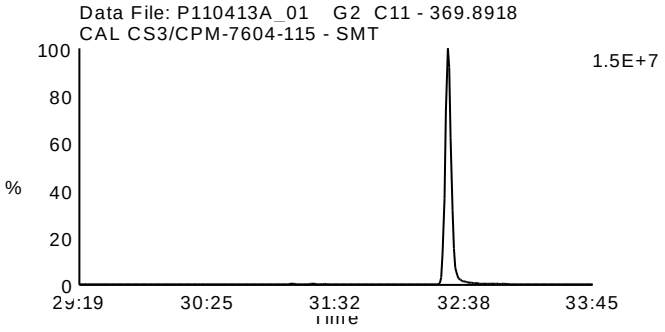


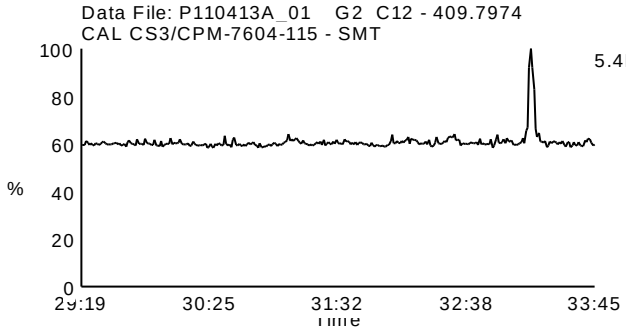


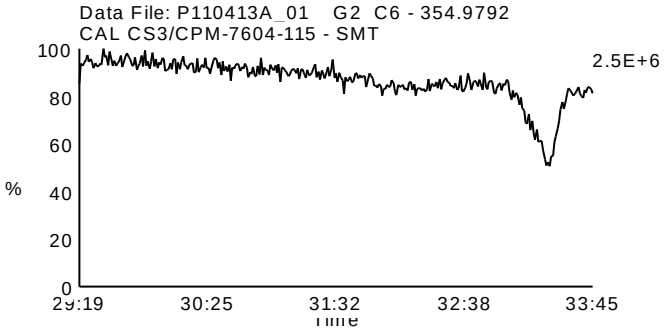










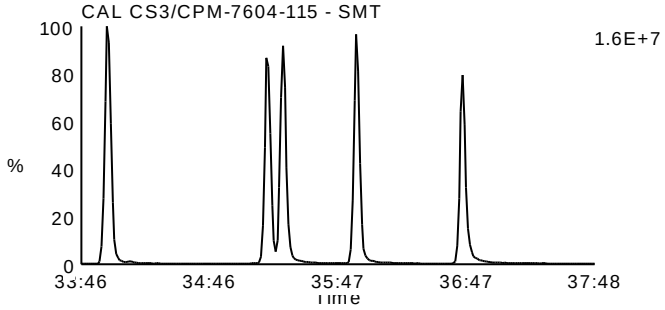


Homologue Group: Hexas

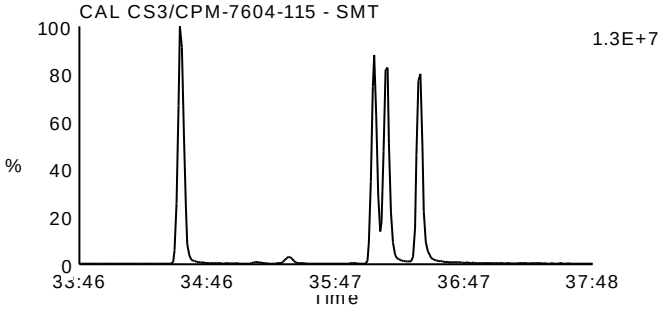
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

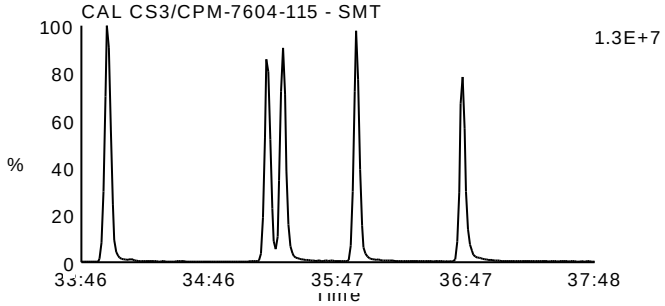
Data File: P110413A_01 G3 C1 - 373.8207
CAL CS3/CPM-7604-115 - SMT



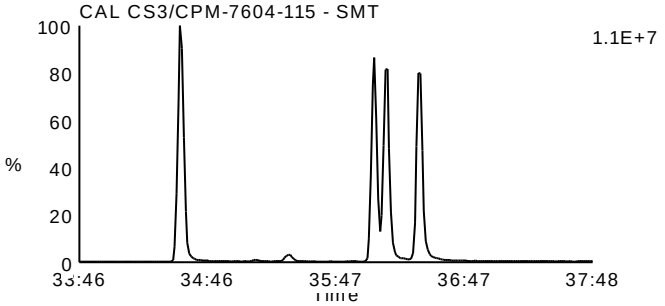
Data File: P110413A_01 G3 C7 - 389.8156
CAL CS3/CPM-7604-115 - SMT



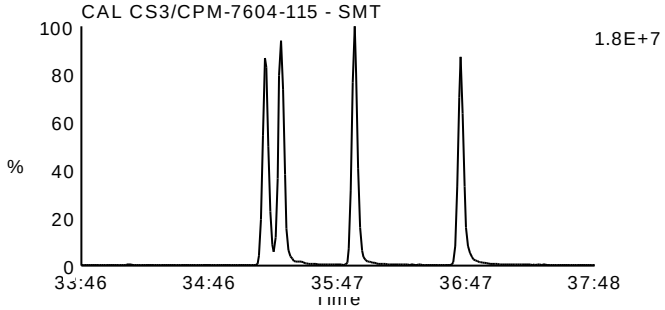
Data File: P110413A_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-115 - SMT



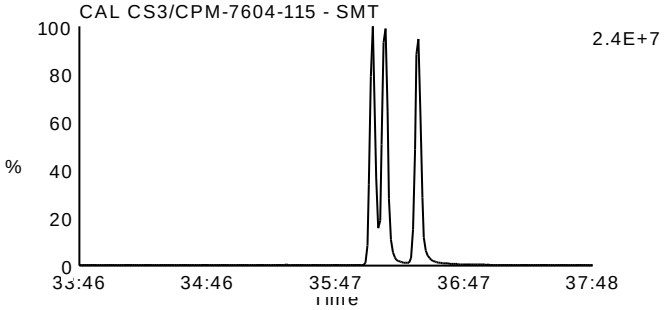
Data File: P110413A_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-115 - SMT



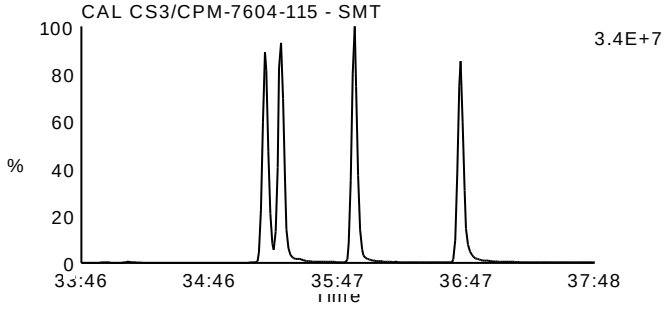
Data File: P110413A_01 G3 C5 - 383.8639
CAL CS3/CPM-7604-115 - SMT



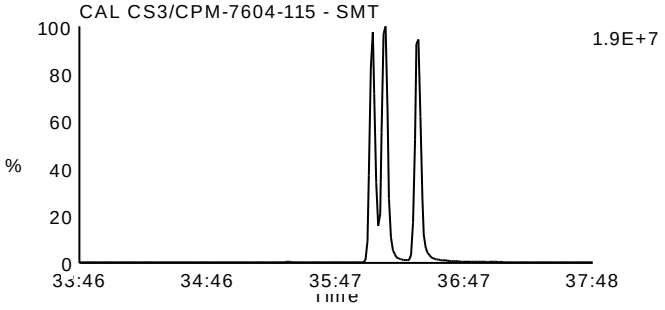
Data File: P110413A_01 G3 C9 - 401.8559
CAL CS3/CPM-7604-115 - SMT



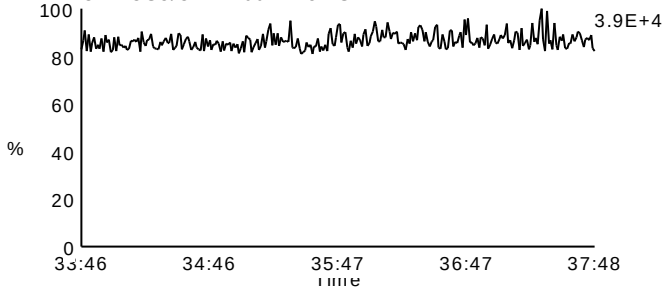
Data File: P110413A_01 G3 C6 - 385.861
CAL CS3/CPM-7604-115 - SMT



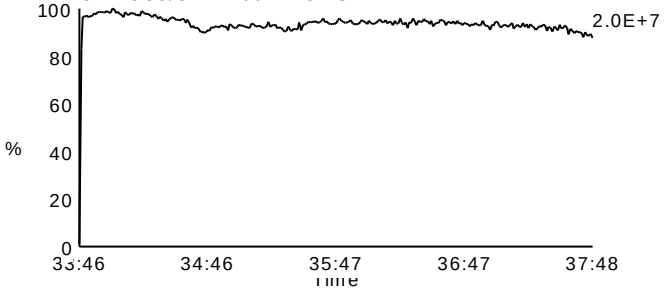
Data File: P110413A_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G3 C3 - 380.976
CAL CS3/CPM-7604-115 - SMT

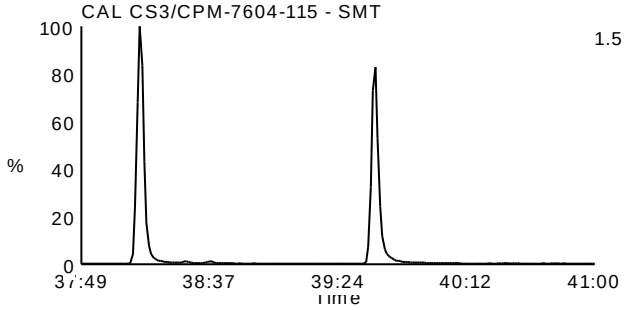


Homologue Group: Heptas

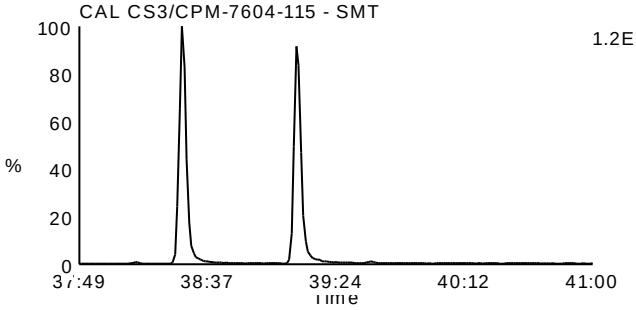
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

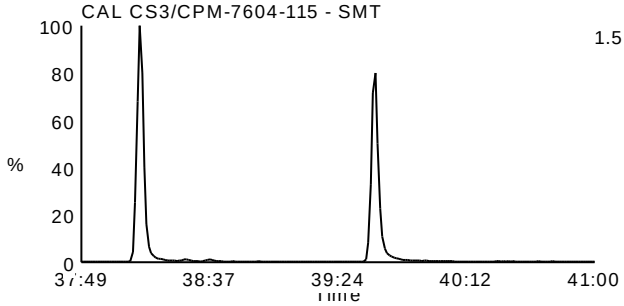
Data File: P110413A 01 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - SMT



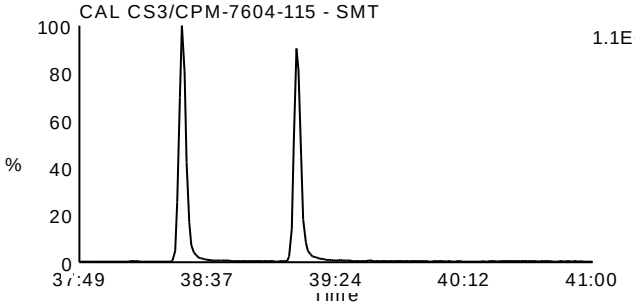
Data File: P110413A 01 G4 C8 - 423.7767
CAL CS3/CPM-7604-115 - SMT



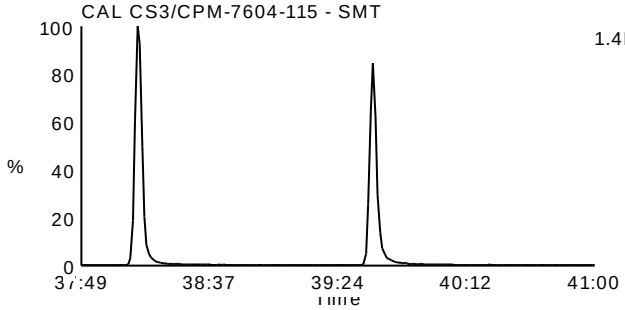
Data File: P110413A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - SMT



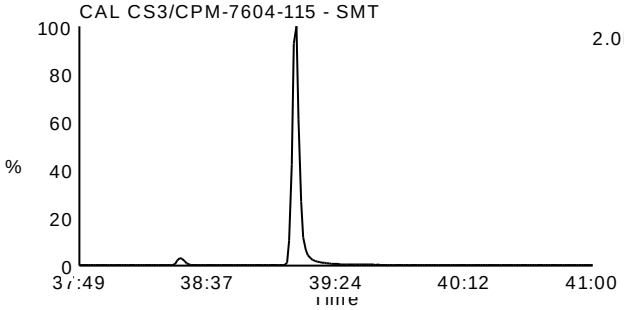
Data File: P110413A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - SMT



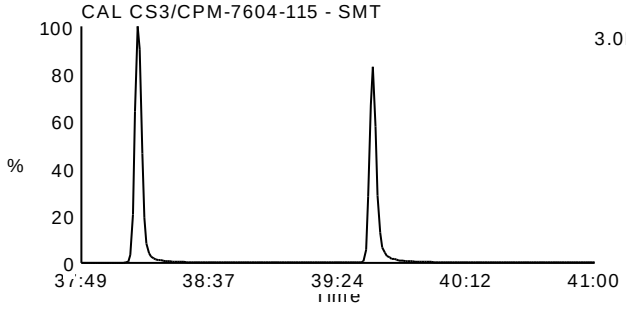
Data File: P110413A 01 G4 C6 - 417.825
CAL CS3/CPM-7604-115 - SMT



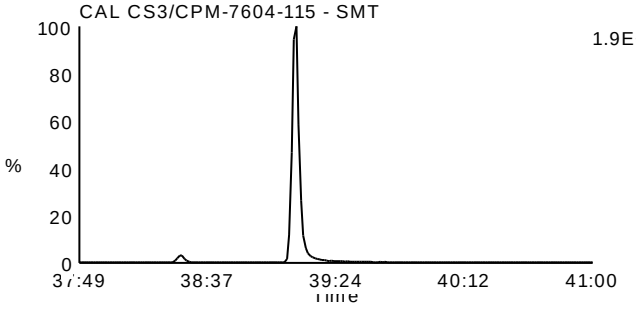
Data File: P110413A 01 G4 C11 - 435.8169
CAL CS3/CPM-7604-115 - SMT



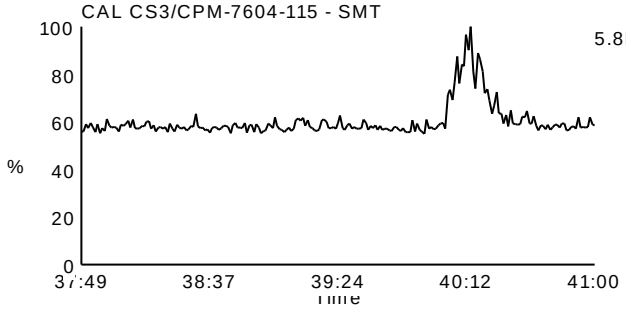
Data File: P110413A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-115 - SMT



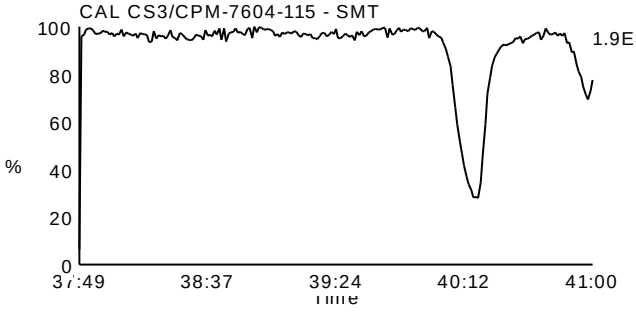
Data File: P110413A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - SMT

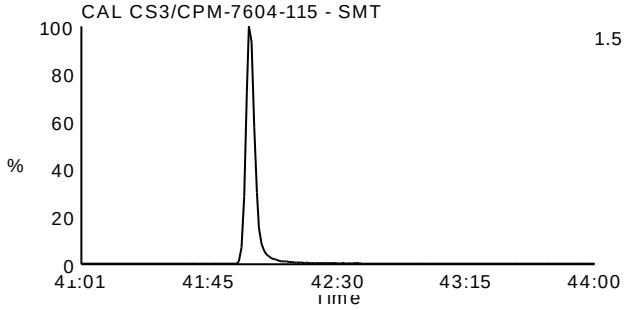


Homologue Group: Octas

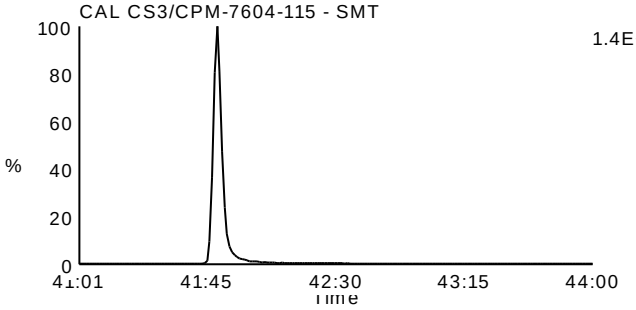
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

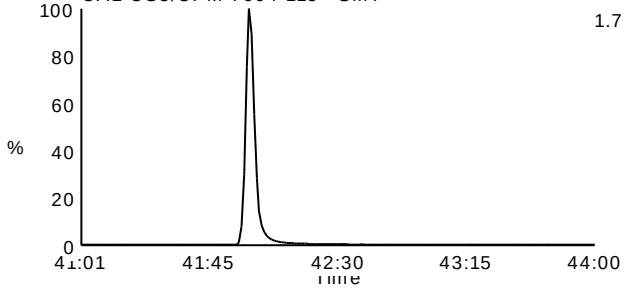
Data File: P110413A 01 G5 C4 - 441.7428
CAL CS3/CPM-7604-115 - SMT



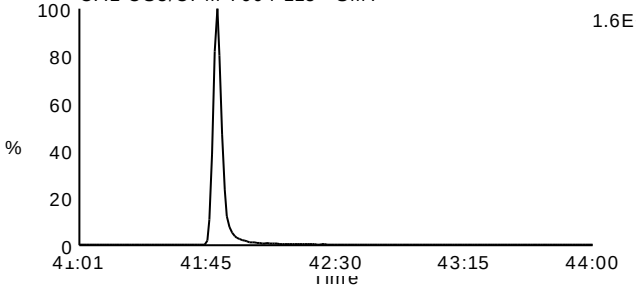
Data File: P110413A 01 G5 C8 - 457.7377
CAL CS3/CPM-7604-115 - SMT



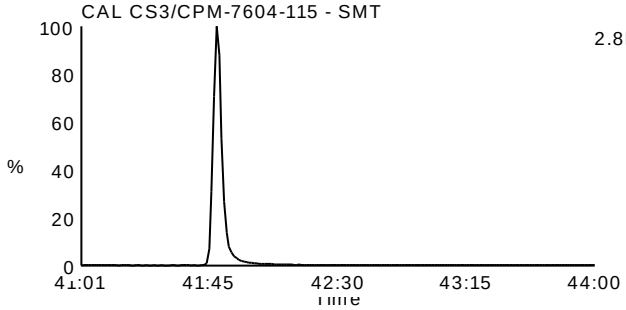
Data File: P110413A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-115 - SMT



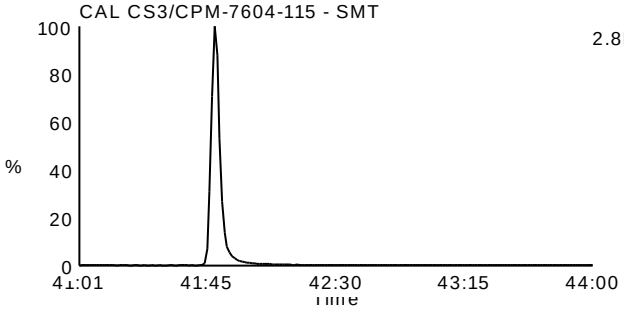
Data File: P110413A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-115 - SMT



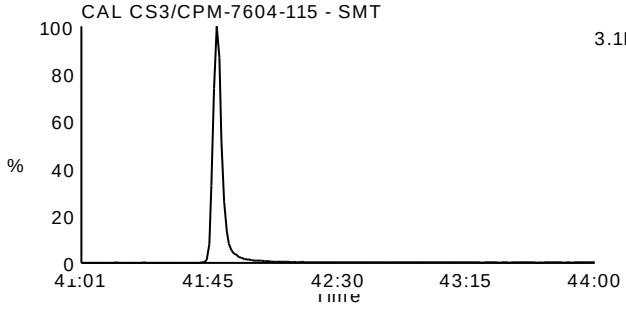
Data File: P110413A 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - SMT



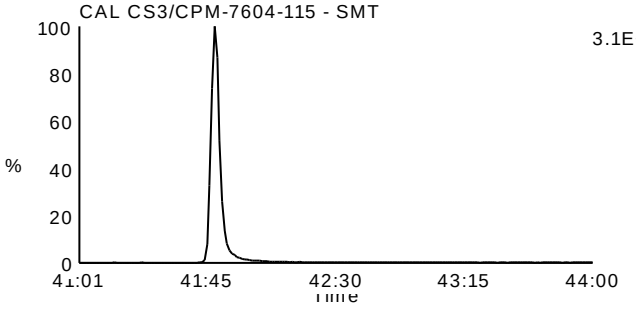
Data File: P110413A 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - SMT



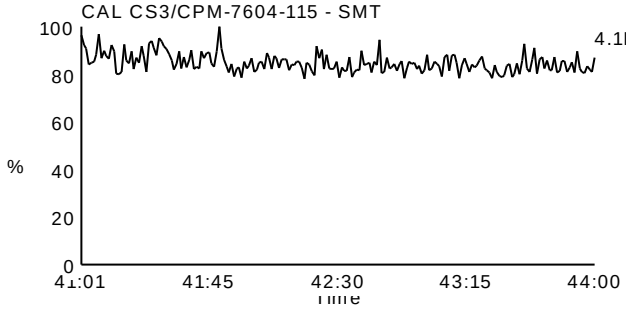
Data File: P110413A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - SMT



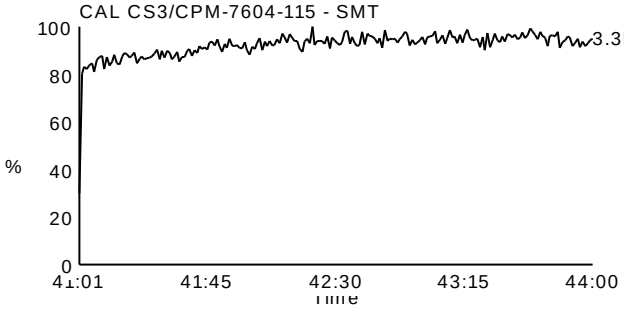
Data File: P110413A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-115 - SMT

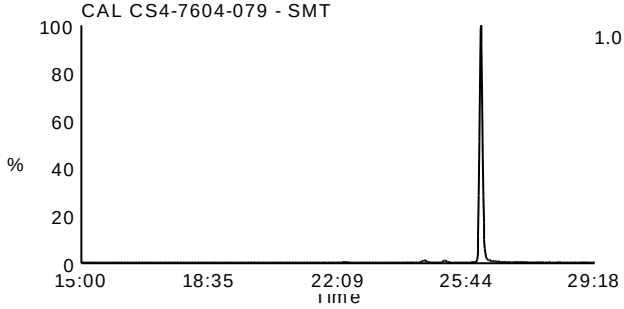


Homologue Group: Tetras

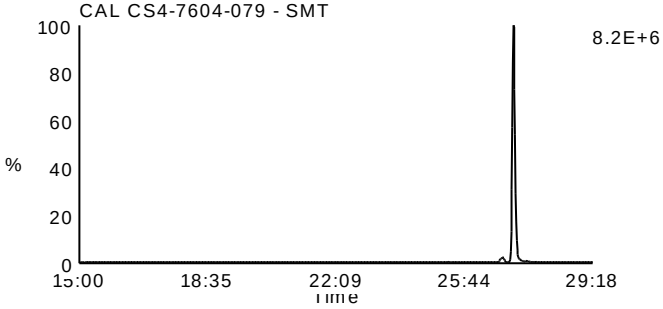
Data File Name: P110413A_05
Date Acquired: 4/13/2011
Sample Description: CAL CS4-7604-079 - SMT

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR09 (P)

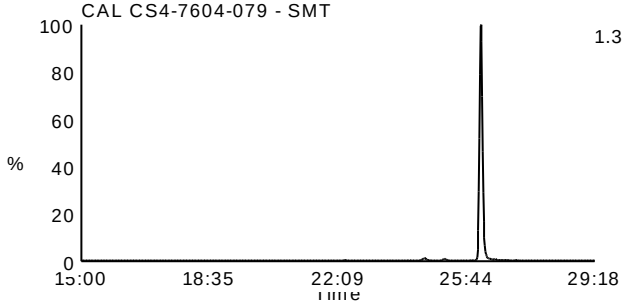
Data File: P110413A 05 G1 C1 - 303.9016
CAL CS4-7604-079 - SMT



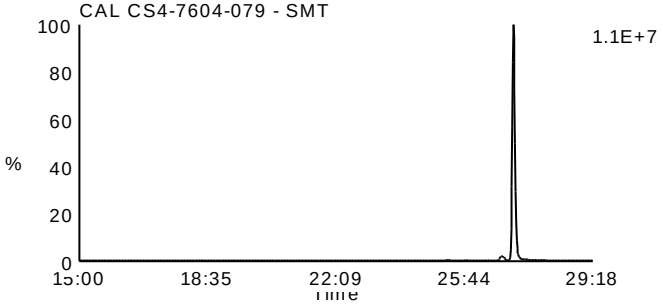
Data File: P110413A 05 G1 C7 - 319.8965
CAL CS4-7604-079 - SMT



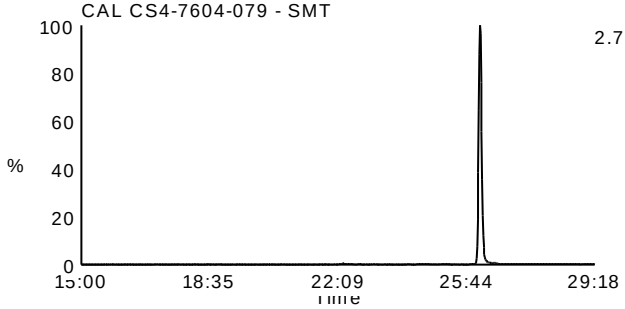
Data File: P110413A_05 G1 C2 - 305.8987
CAL CS4-7604-079 - SMT



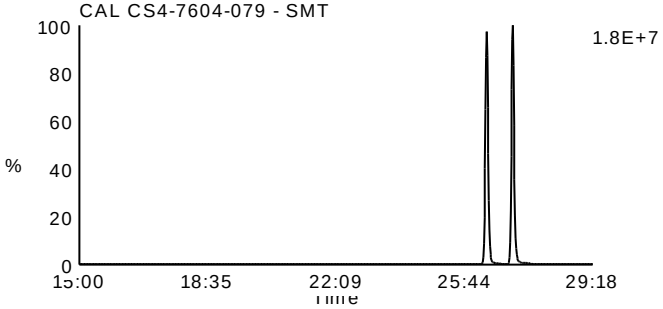
Data File: P110413A_05 G1 C8 - 321.8936
CAL CS4-7604-079 - SMT



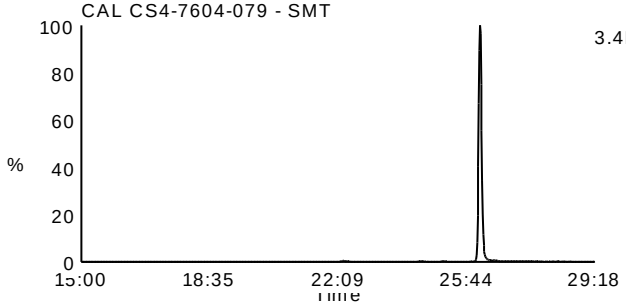
Data File: P110413A 05 G1 C3 - 315.9418
CAL CS4-7604-079 - SMT



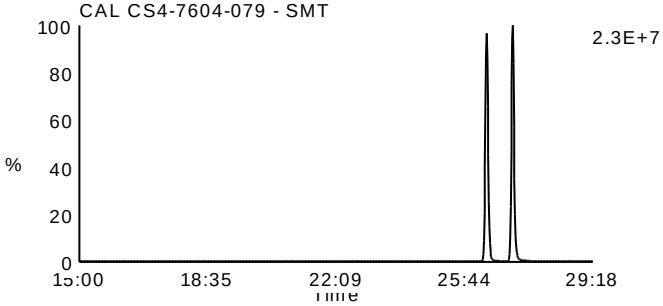
Data File: P110413A 05 G1 C10 - 331.9367
CAL CS4-7604-079 - SMT



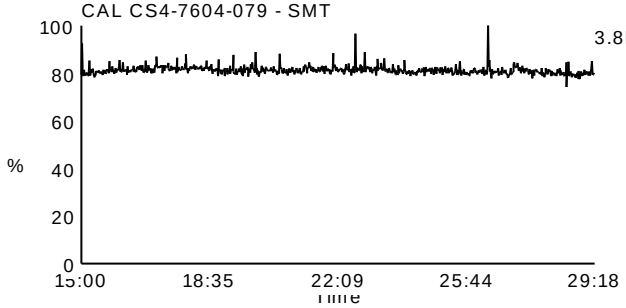
Data File: P110413A_05 G1 C4 - 317.9389
CAL CS4-7604-079 - SMT



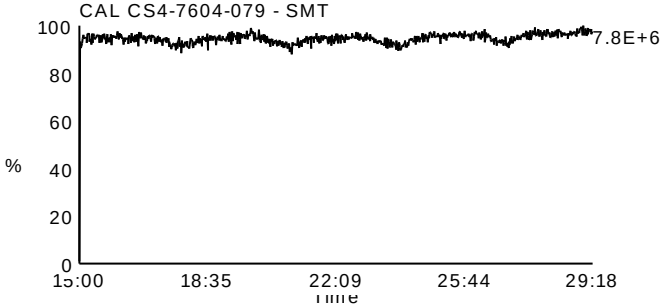
Data File: P110413A_05 G1 C11 - 333.9338
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G1 C14 - 375.8364
CAL CS4-7604-079 - SMT



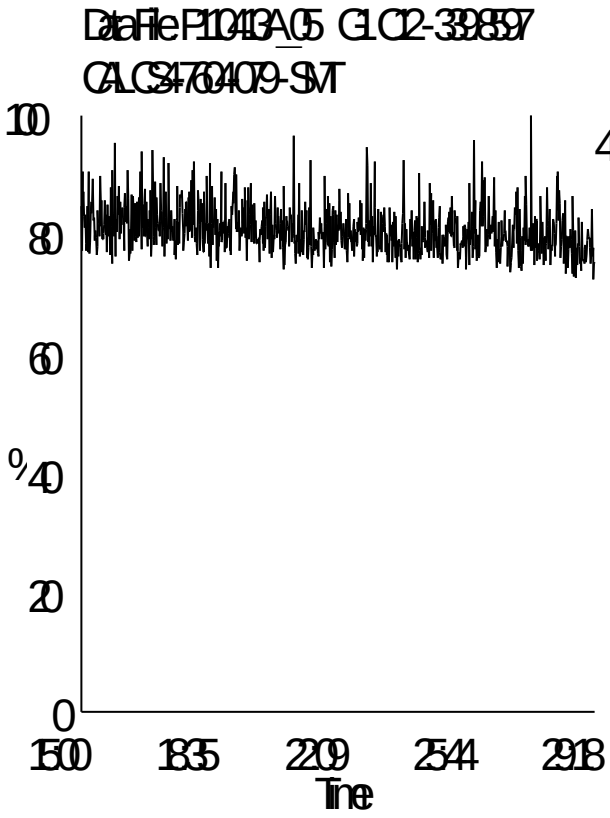
Data File: P110413A_05 G1 C5 - 318.9792
CAL CS4-7604-079 - SMT

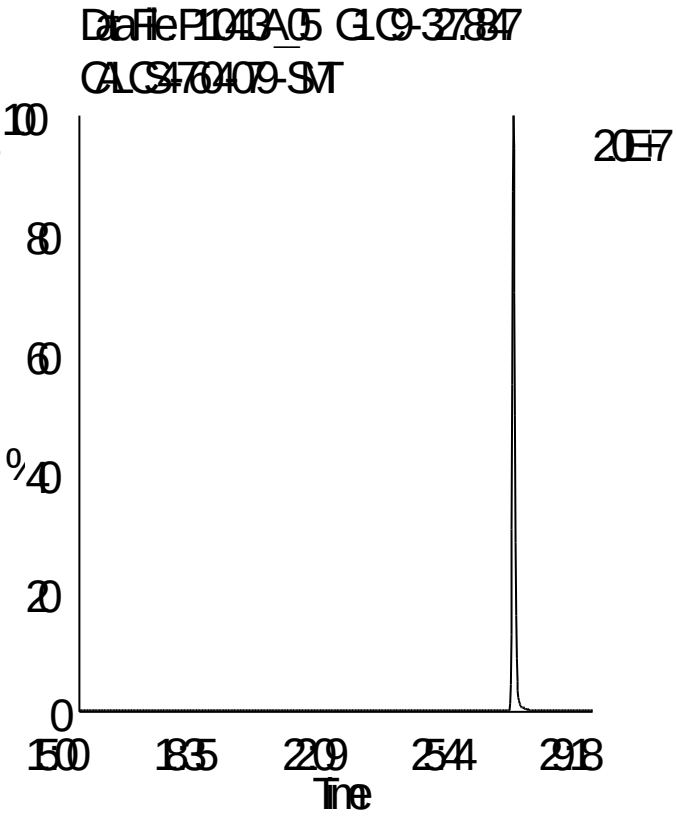


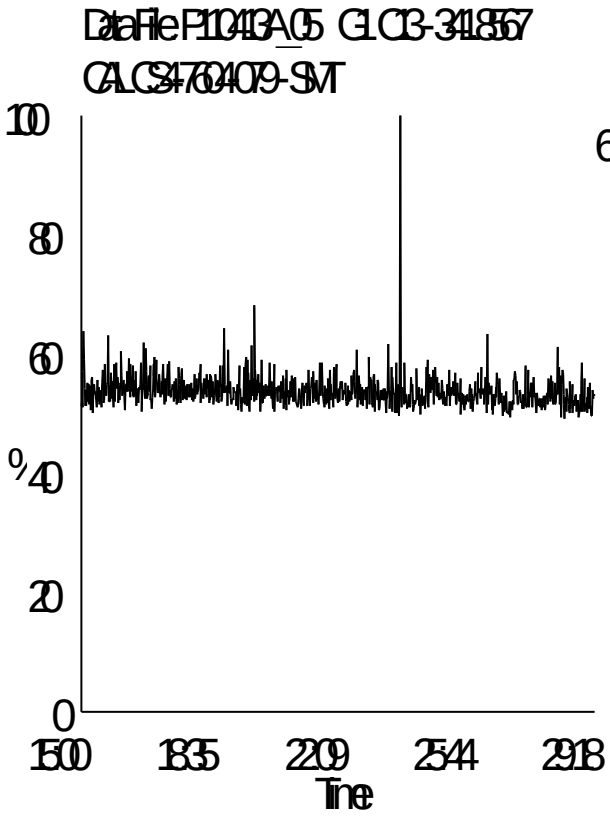
Homologue Group: Penta & Cleanup

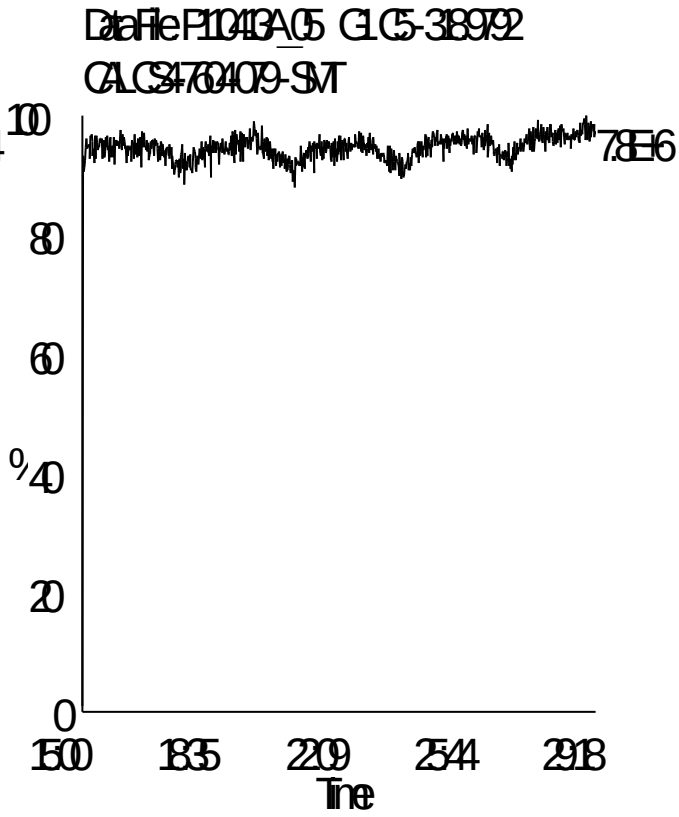
Data File Name: P110413A_05
Date Acquired: 4/13/2011
Sample Description: CAL CS4-7604-079 - SMT

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR09 (P)







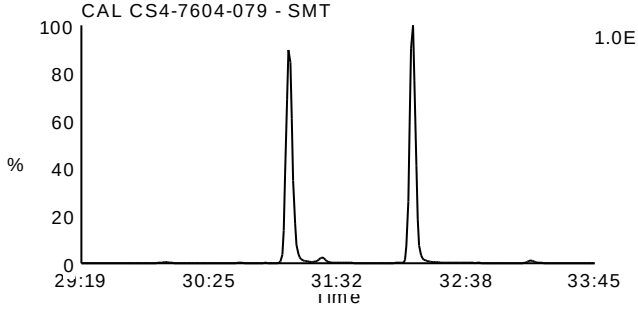


Homologue Group: Pentas

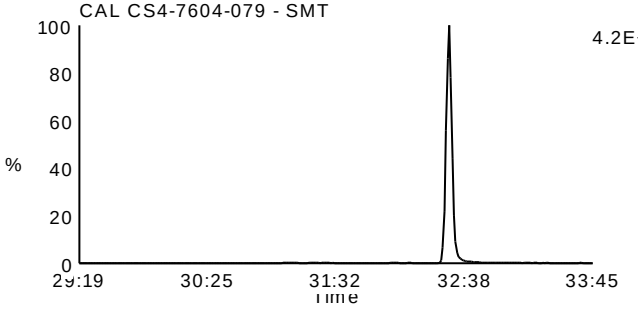
Data File Name: P110413A_05
Date Acquired: 4/13/2011
Sample Description: CAL CS4-7604-079 - SMT

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR09 (P)

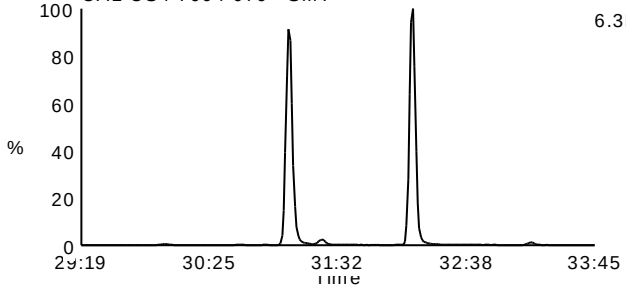
Data File: P110413A 05 G2 C1 - 339.8597
CAL CS4-7604-079 - SMT



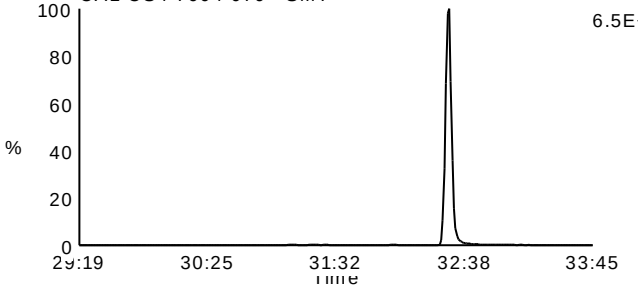
Data File: P110413A 05 G2 C4 - 353.8576
CAL CS4-7604-079 - SMT



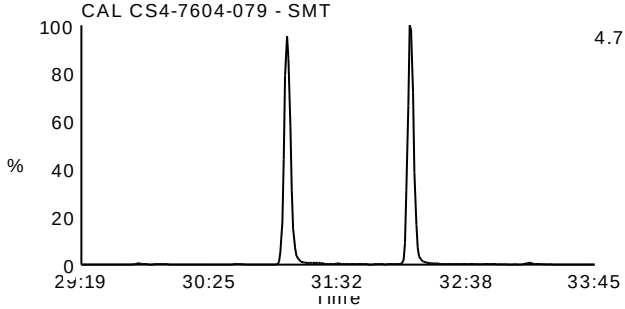
Data File: P110413A_05 G2 C2 - 341.8567
CAL CS4-7604-079 - SMT



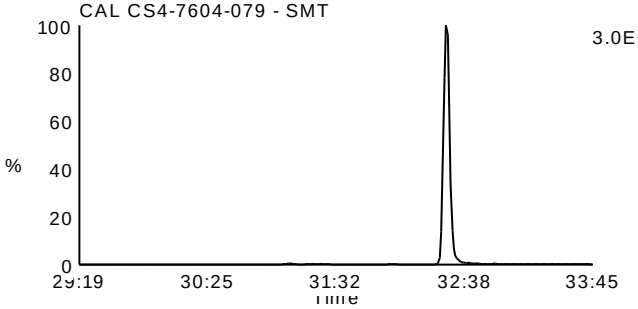
Data File: P110413A_05 G2 C8 - 355.8546
CAL CS4-7604-079 - SMT



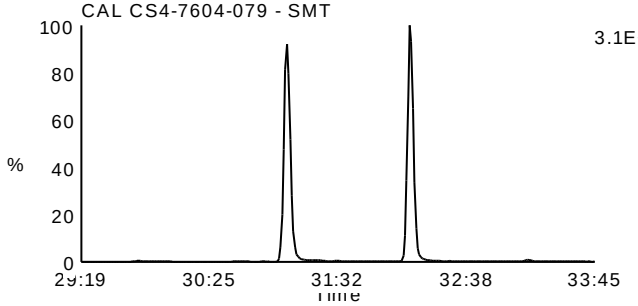
Data File: P110413A 05 G2 C3 - 351.8999
CAL CS4-7604-079 - SMT



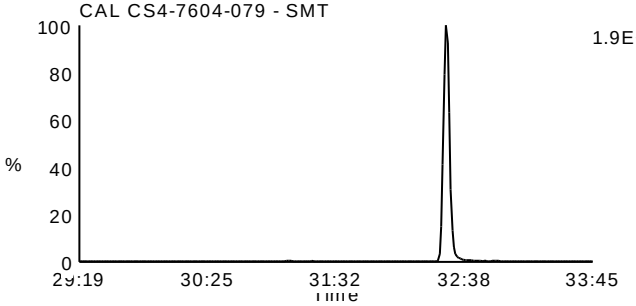
Data File: P110413A 05 G2 C10 - 367.8948
CAL CS4-7604-079 - SMT



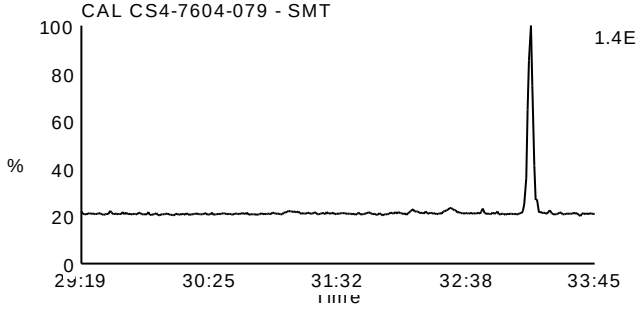
Data File: P110413A_05 G2 C5 - 353.8969
CAL CS4-7604-079 - SMT



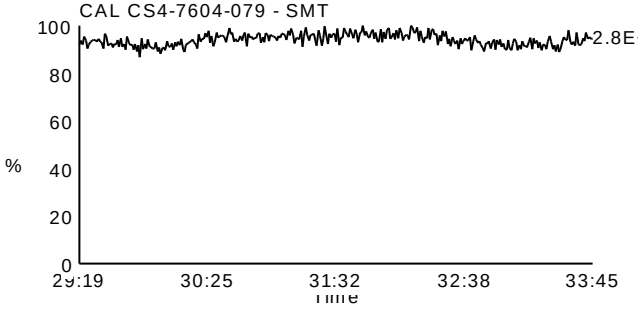
Data File: P110413A_05 G2 C11 - 369.8918
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G2 C12 - 409.7974
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G2 C6 - 354.9792
CAL CS4-7604-079 - SMT

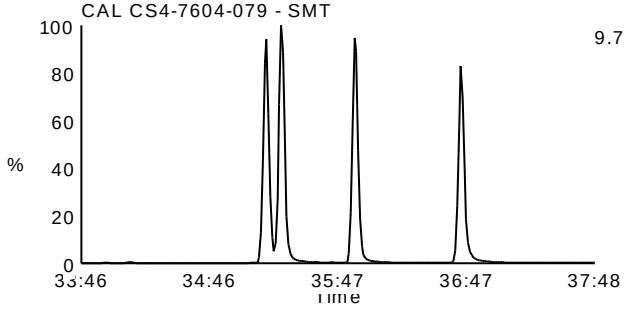


Homologue Group: Hexas

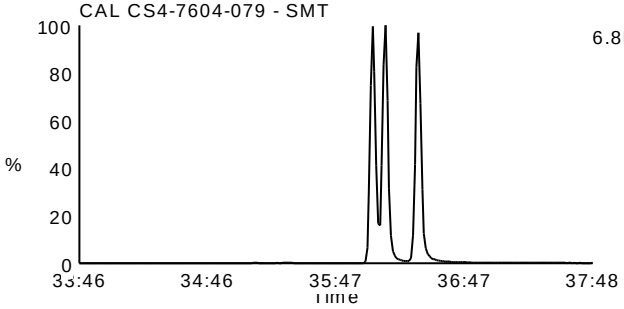
Data File Name: P110413A_05
Date Acquired: 4/13/2011
Sample Description: CAL CS4-7604-079 - SMT

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR09 (P)

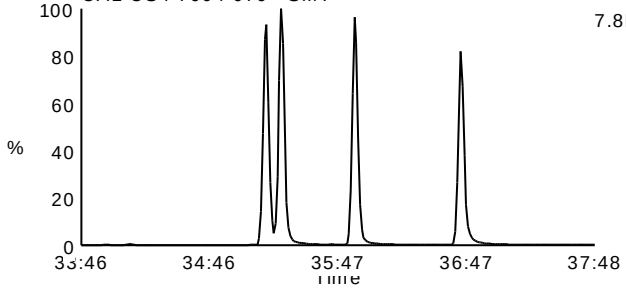
Data File: P110413A 05 G3 C1 - 373.8207
CAL CS4-7604-079 - SMT



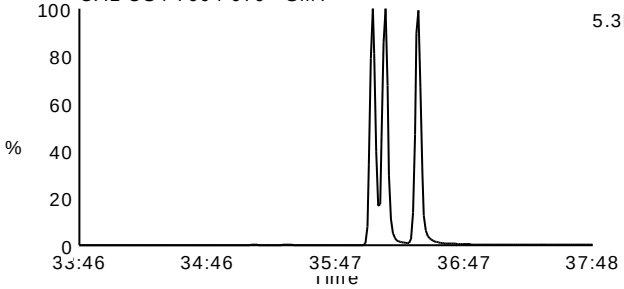
Data File: P110413A 05 G3 C7 - 389.8156
CAL CS4-7604-079 - SMT



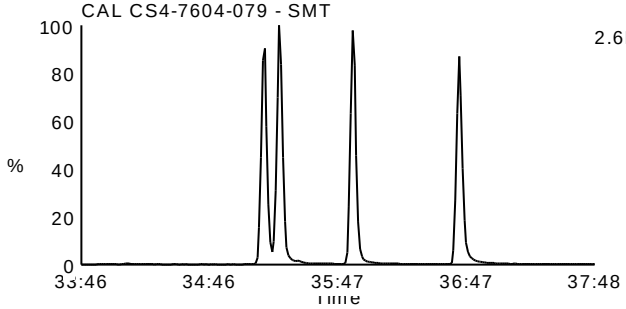
Data File: P110413A_05 G3 C2 - 375.8178
CAL CS4-7604-079 - SMT



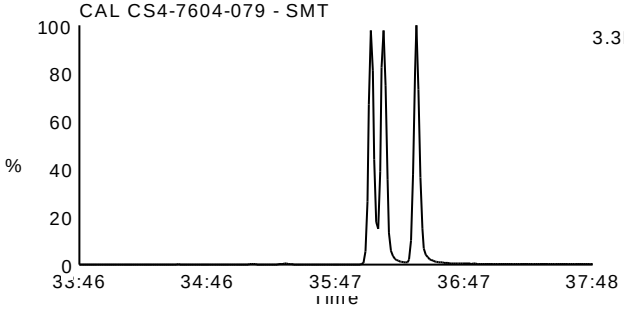
Data File: P110413A_05 G3 C8 - 391.8127
CAL CS4-7604-079 - SMT



Data File: P110413A 05 G3 C5 - 383.8639
CAL CS4-7604-079 - SMT



Data File: P110413A 05 G3 C9 - 401.8559
CAL CS4-7604-079 - SMT



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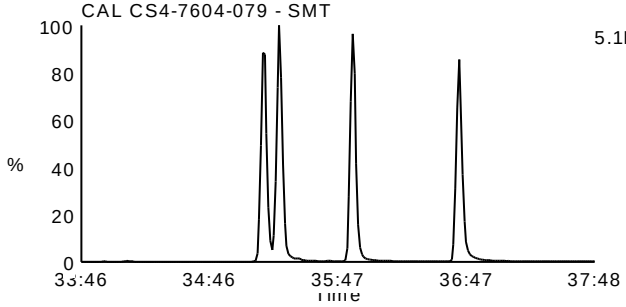
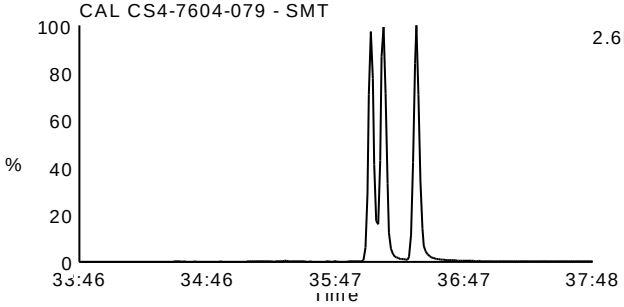
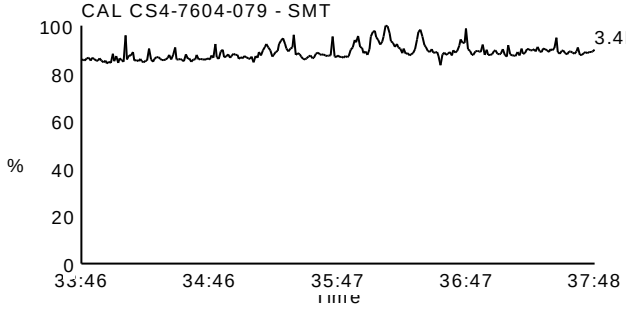
CAL CS4-7604-079 - SMT



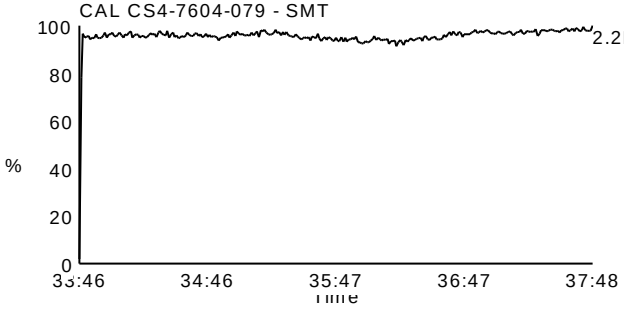
Data File: P110413A_05 G3 C10 - 403.8529
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G3 C11 - 445.7555
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G3 C3 - 380.976
CAL CS4-7604-079 - SMT

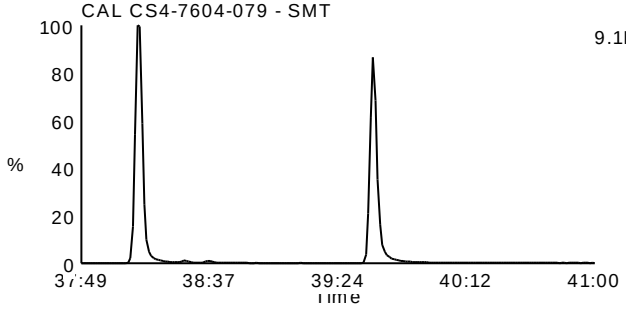


Homologue Group: Heptas

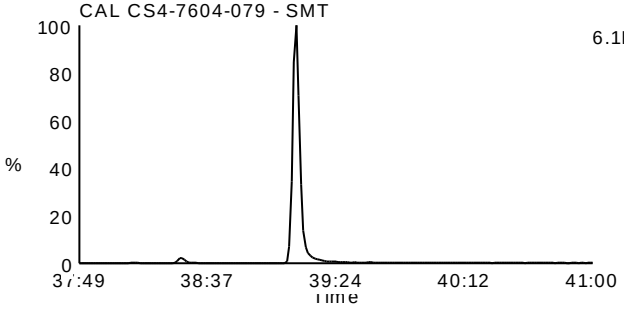
Data File Name: P110413A_05
Date Acquired: 4/13/2011
Sample Description: CAL CS4-7604-079 - SMT

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR09 (P)

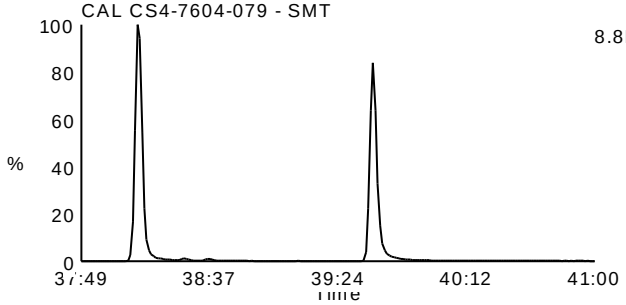
Data File: P110413A 05 G4 C3 - 407.7818
CAL CS4-7604-079 - SMT



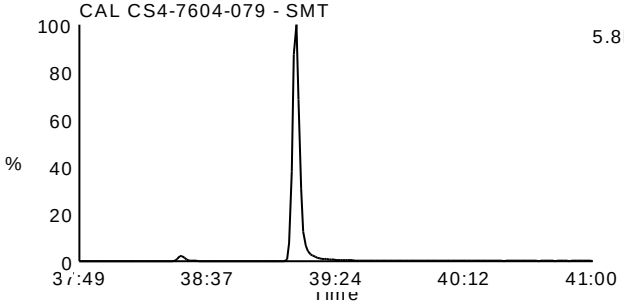
Data File: P110413A 05 G4 C8 - 423.7767
CAL CS4-7604-079 - SMT



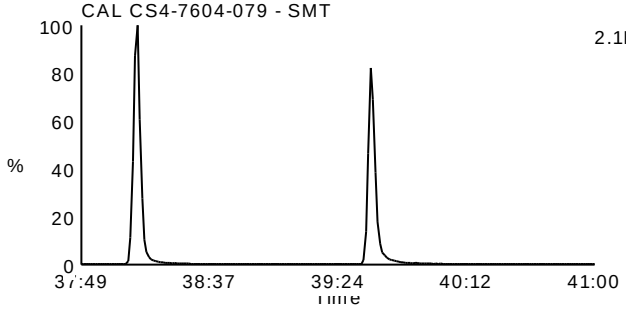
Data File: P110413A_05 G4 C4 - 409.7788
CAL CS4-7604-079 - SMT



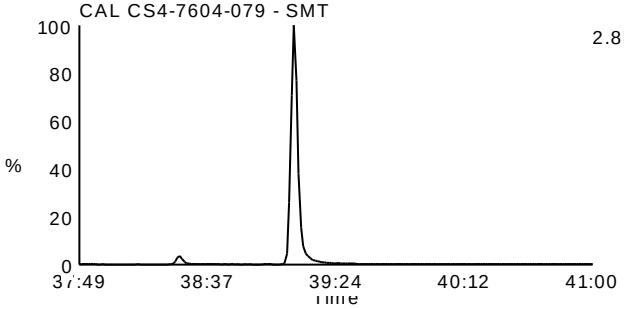
Data File: P110413A_05 G4 C9 - 425.7737
CAL CS4-7604-079 - SMT



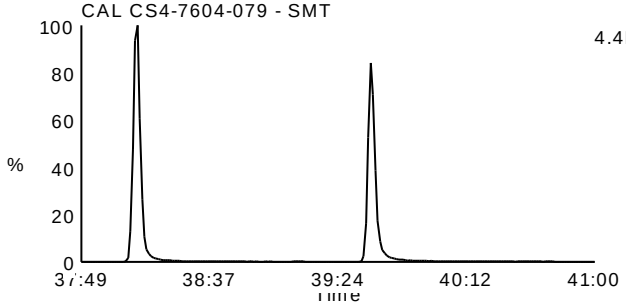
Data File: P110413A 05 G4 C6 - 417.825
CAL CS4-7604-079 - SMT



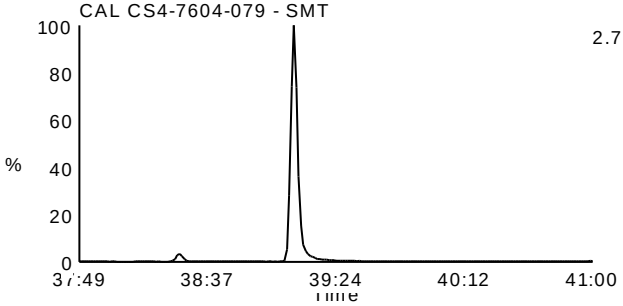
Data File: P110413A 05 G4 C11 - 435.8169
CAL CS4-7604-079 - SMT



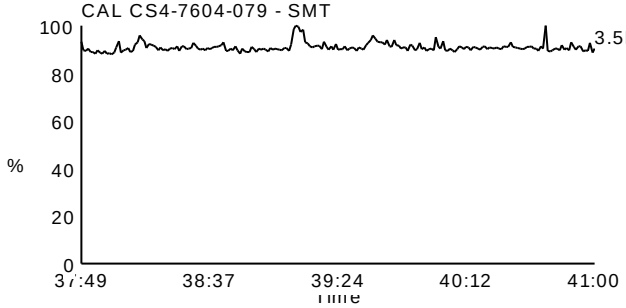
Data File: P110413A_05 G4 C7 - 419.822
CAL CS4-7604-079 - SMT



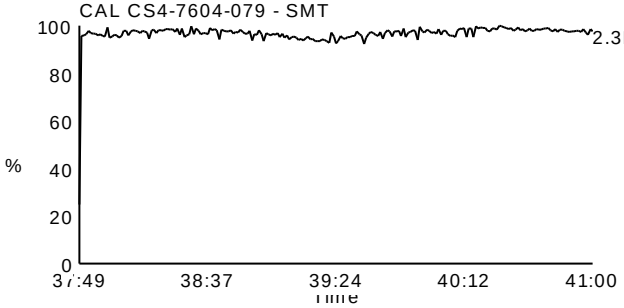
Data File: P110413A_05 G4 C12 - 437.814
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G4 C13 - 479.7165
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G4 C1 - 380.976
CAL CS4-7604-079 - SMT

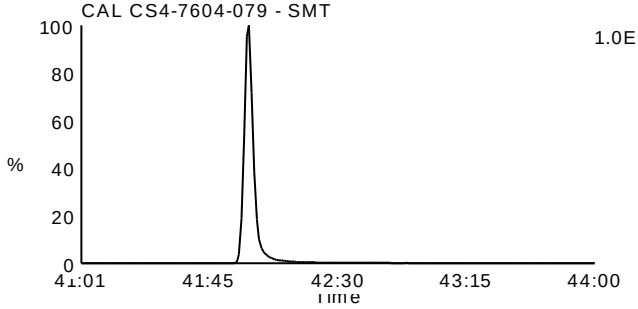


Homologue Group: Octas

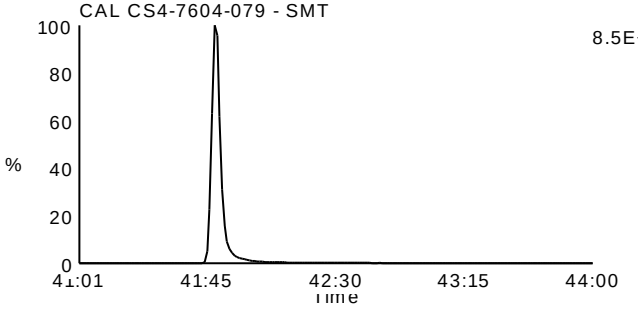
Data File Name: P110413A_05
Date Acquired: 4/13/2011
Sample Description: CAL CS4-7604-079 - SMT

Lab Sample ID: CS4-7604-079
Client Sample ID: CS4
Instrument: 10MSHR09 (P)

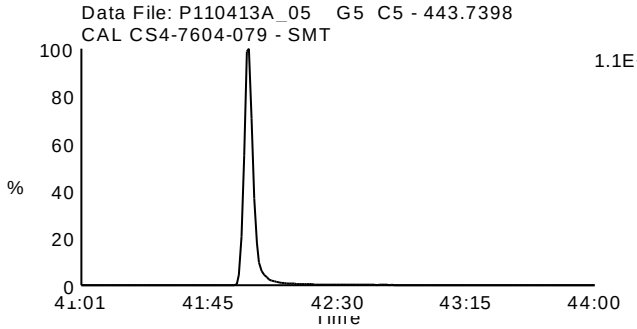
Data File: P110413A 05 G5 C4 - 441.7428
CAL CS4-7604-079 - SMT



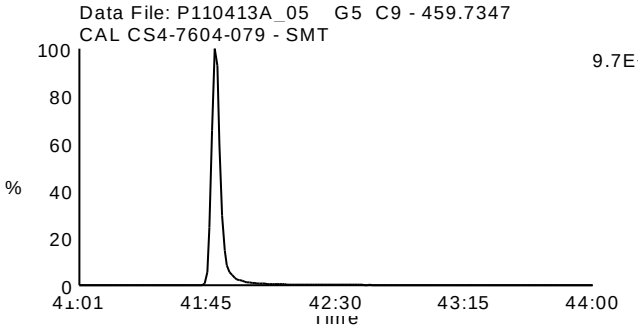
Data File: P110413A 05 G5 C8 - 457.7377
CAL CS4-7604-079 - SMT



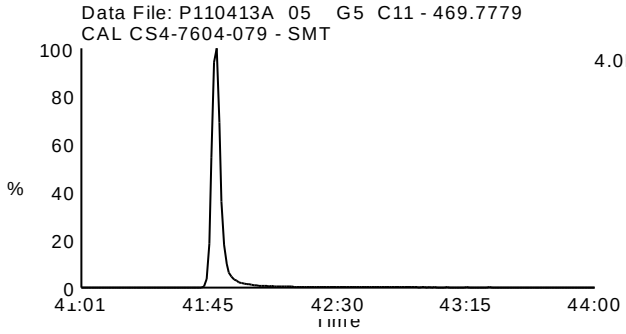
Data File: P110413A_05 G5 C5 - 443.7398
CAL CS4-7604-079 - SMT



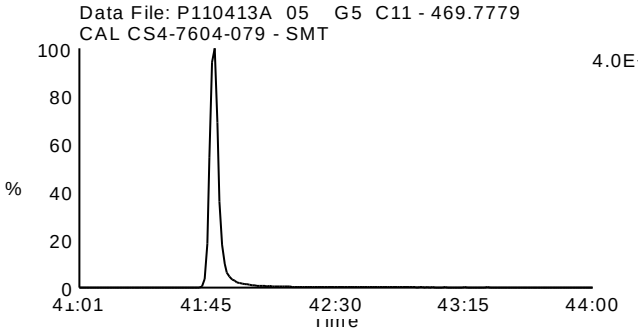
Data File: P110413A_05 G5 C9 - 459.7347
CAL CS4-7604-079 - SMT



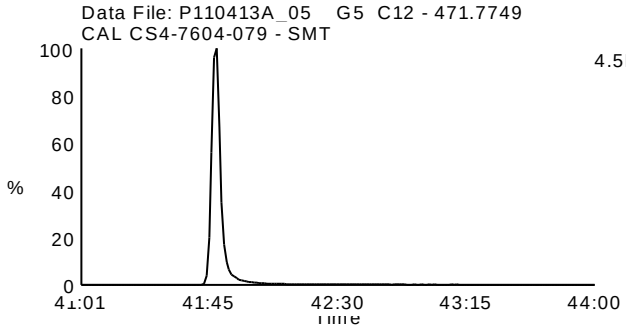
Data File: P110413A 05 G5 C11 - 469.7779
CAL CS4-7604-079 - SMT



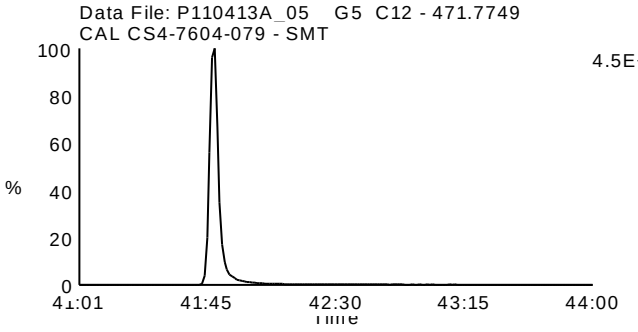
Data File: P110413A 05 G5 C11 - 469.7779
CAL CS4-7604-079 - SMT



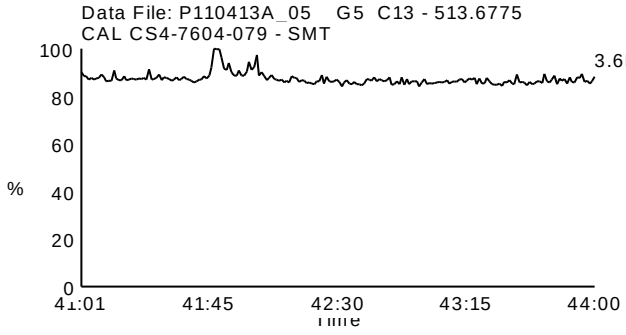
Data File: P110413A_05 G5 C12 - 471.7749
CAL CS4-7604-079 - SMT



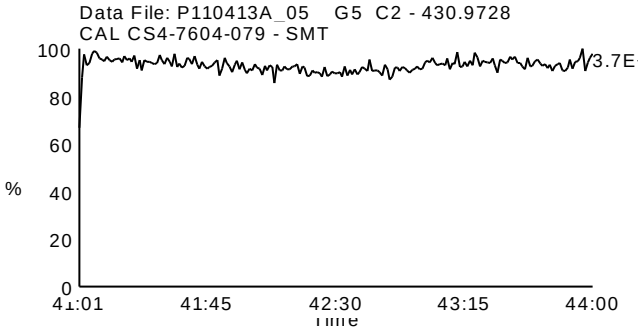
Data File: P110413A_05 G5 C12 - 471.7749
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G5 C13 - 513.6775
CAL CS4-7604-079 - SMT



Data File: P110413A_05 G5 C2 - 430.9728
CAL CS4-7604-079 - SMT

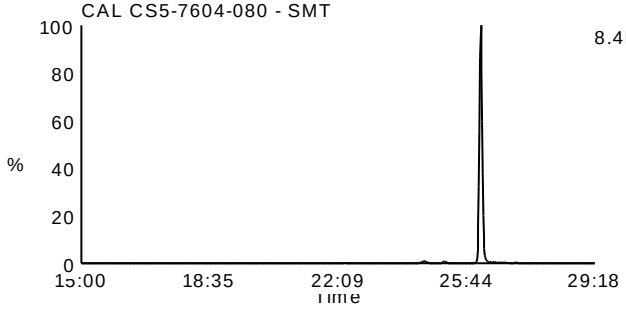


Homologue Group: Tetras

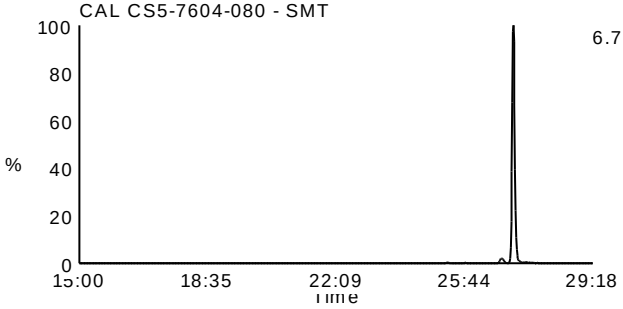
Data File Name: P110413A_04
Date Acquired: 4/13/2011
Sample Description: CAL CS5-7604-080 - SMT

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR09 (P)

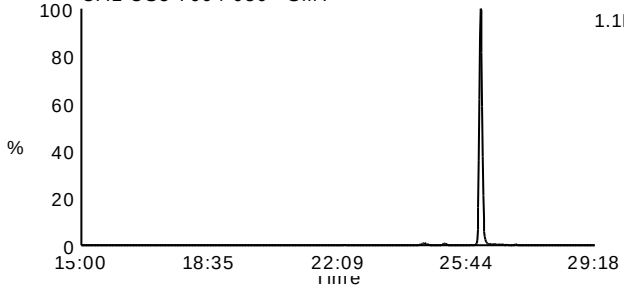
Data File: P110413A 04 G1 C1 - 303.9016
CAL CS5-7604-080 - SMT



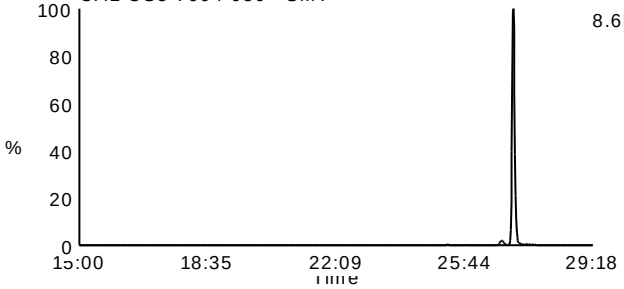
Data File: P110413A 04 G1 C7 - 319.8965
CAL CS5-7604-080 - SMT



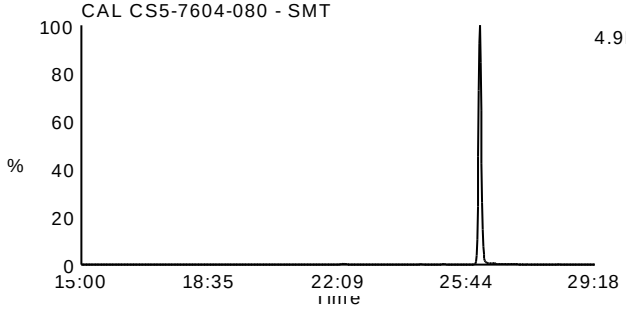
Data File: P110413A_04 G1 C2 - 305.8987
CAL CS5-7604-080 - SMT



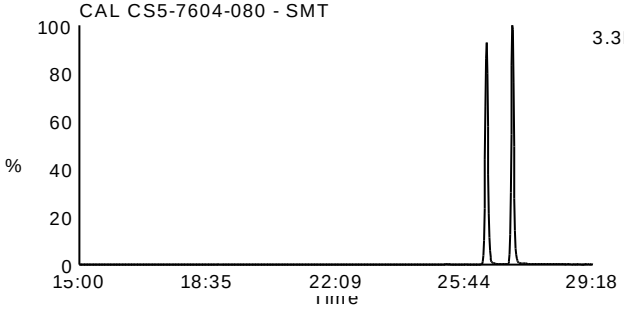
Data File: P110413A_04 G1 C8 - 321.8936
CAL CS5-7604-080 - SMT



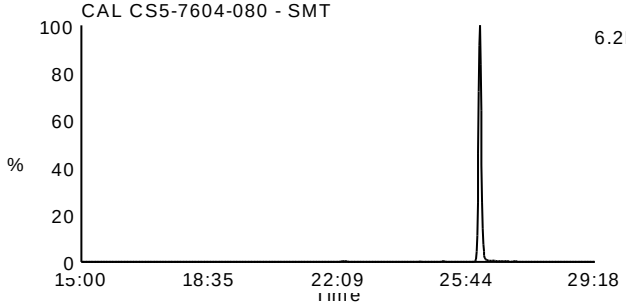
Data File: P110413A 04 G1 C3 - 315.9418
CAL CS5-7604-080 - SMT



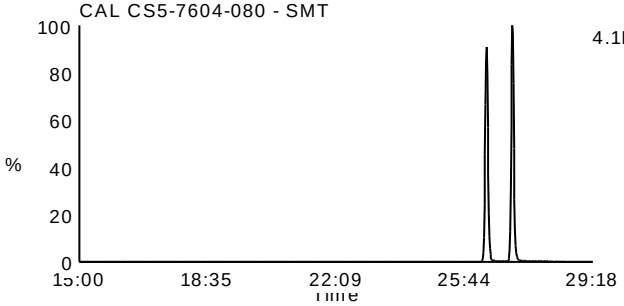
Data File: P110413A 04 G1 C10 - 331.9367
CAL CS5-7604-080 - SMT



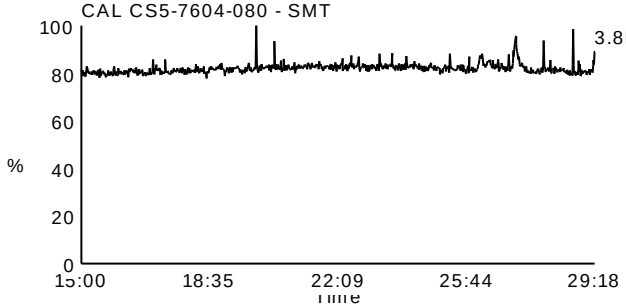
Data File: P110413A_04 G1 C4 - 317.9389
CAL CS5-7604-080 - SMT



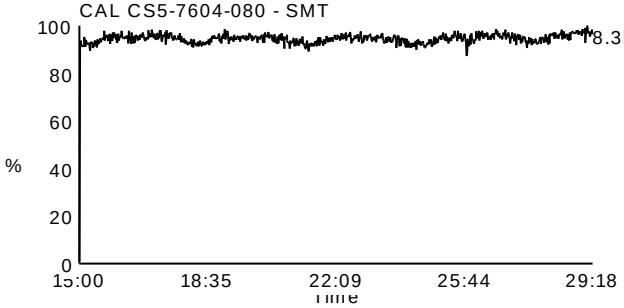
Data File: P110413A_04 G1 C11 - 333.9338
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G1 C14 - 375.8364
CAL CS5-7604-080 - SMT



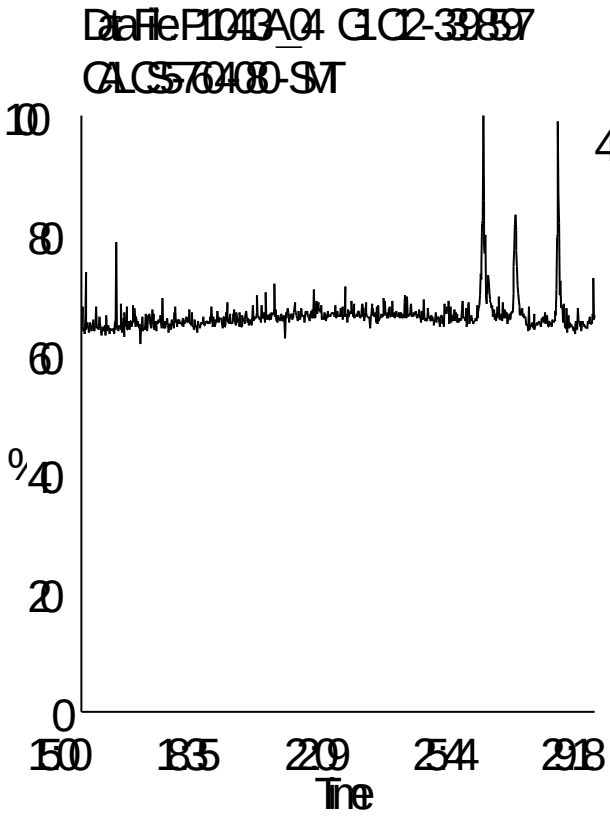
Data File: P110413A_04 G1 C5 - 318.9792
CAL CS5-7604-080 - SMT

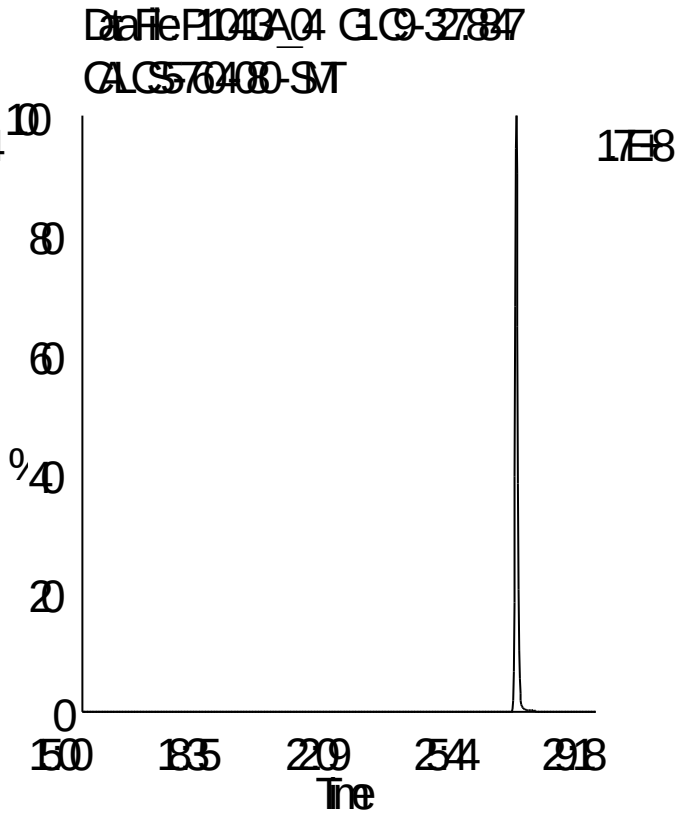


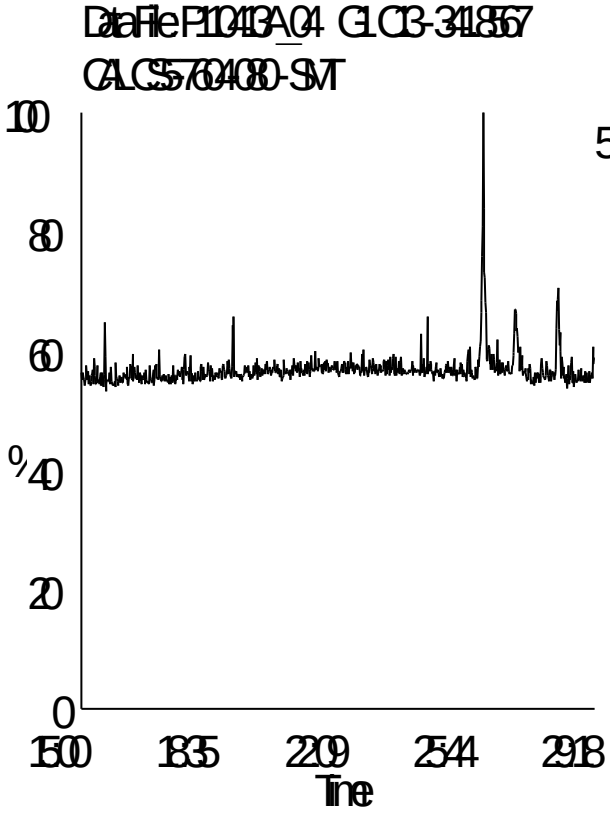
Homologue Group: Penta & Cleanup

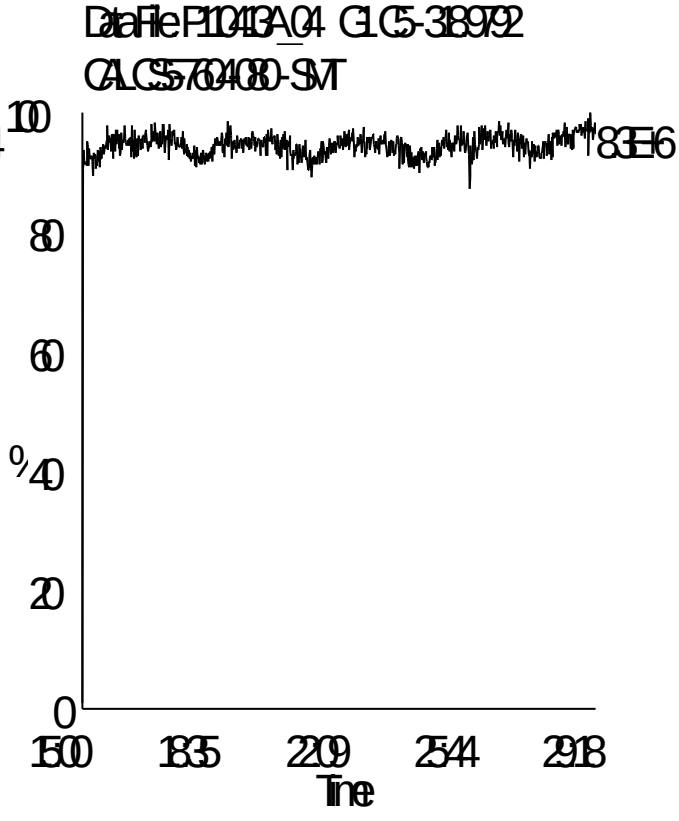
Data File Name: P110413A_04
Date Acquired: 4/13/2011
Sample Description: CAL CS5-7604-080 - SMT

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR09 (P)







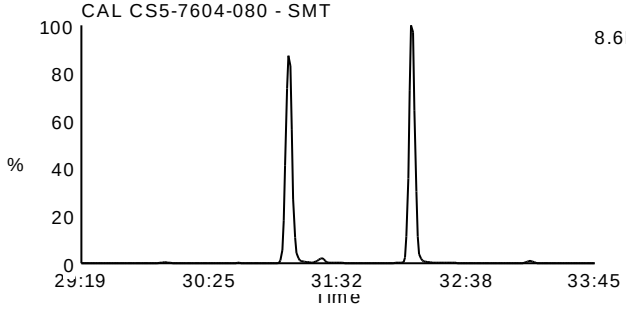


Homologue Group: Pentas

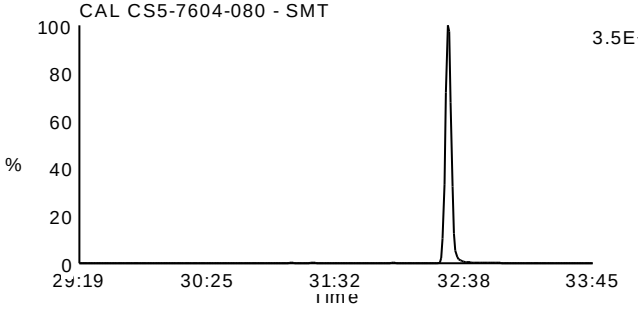
Data File Name: P110413A_04
Date Acquired: 4/13/2011
Sample Description: CAL CS5-7604-080 - SMT

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR09 (P)

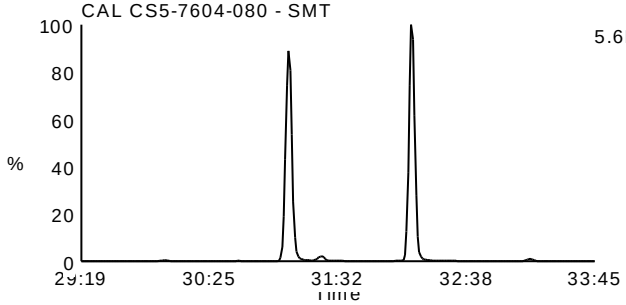
Data File: P110413A 04 G2 C1 - 339.8597
CAL CS5-7604-080 - SMT



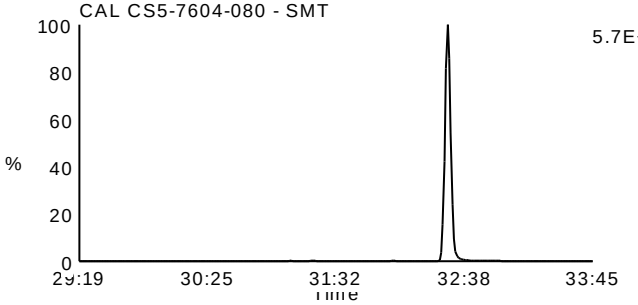
Data File: P110413A 04 G2 C4 - 353.8576
CAL CS5-7604-080 - SMT



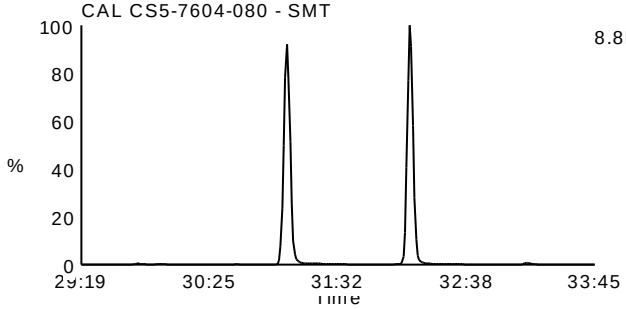
Data File: P110413A_04 G2 C2 - 341.8567
CAL CS5-7604-080 - SMT



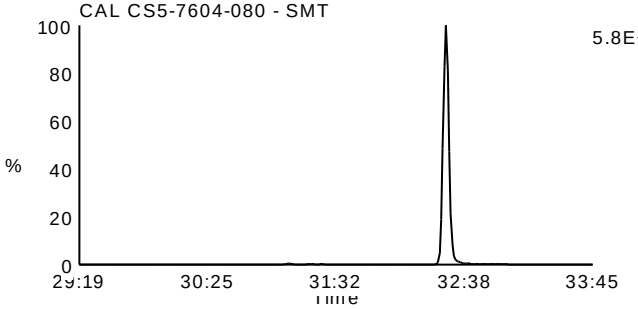
Data File: P110413A_04 G2 C8 - 355.8546
CAL CS5-7604-080 - SMT



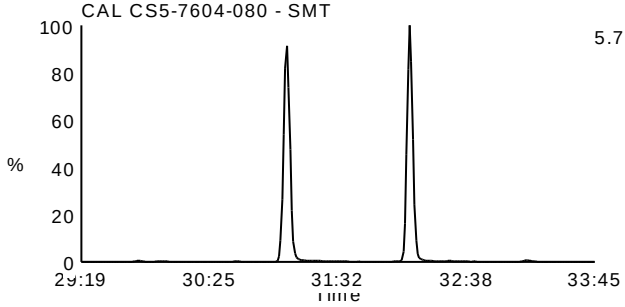
Data File: P110413A 04 G2 C3 - 351.8999
CAL CS5-7604-080 - SMT



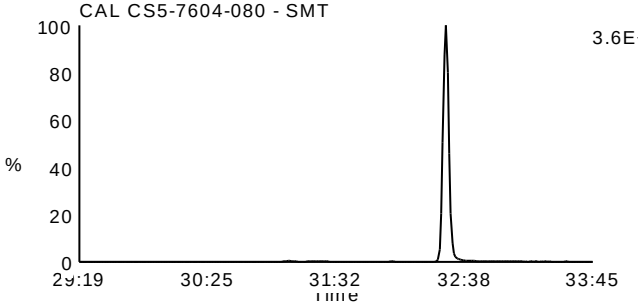
Data File: P110413A 04 G2 C10 - 367.8948
CAL CS5-7604-080 - SMT



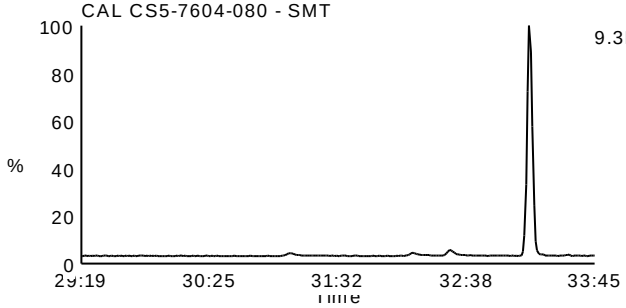
Data File: P110413A_04 G2 C5 - 353.8969
CAL CS5-7604-080 - SMT



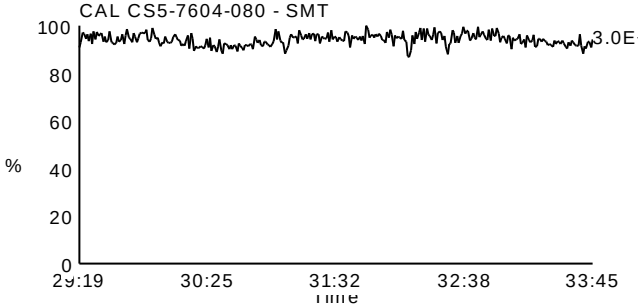
Data File: P110413A_04 G2 C11 - 369.8918
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G2 C12 - 409.7974
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G2 C6 - 354.9792
CAL CS5-7604-080 - SMT

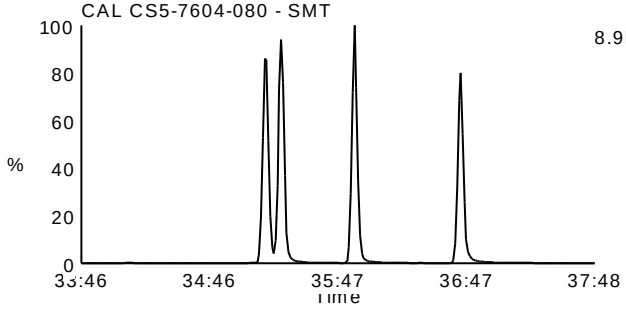


Homologue Group: Hexas

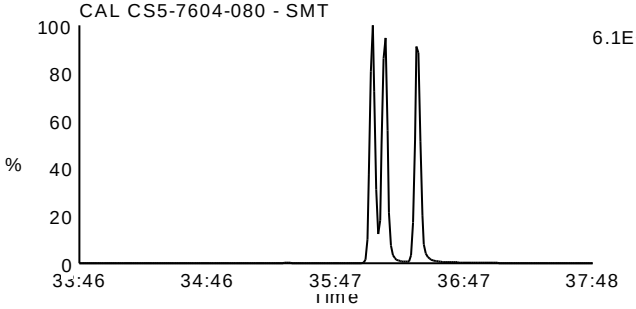
Data File Name: P110413A_04
Date Acquired: 4/13/2011
Sample Description: CAL CS5-7604-080 - SMT

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR09 (P)

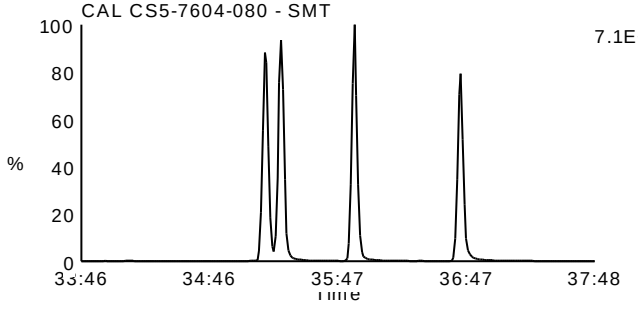
Data File: P110413A 04 G3 C1 - 373.8207
CAL CS5-7604-080 - SMT



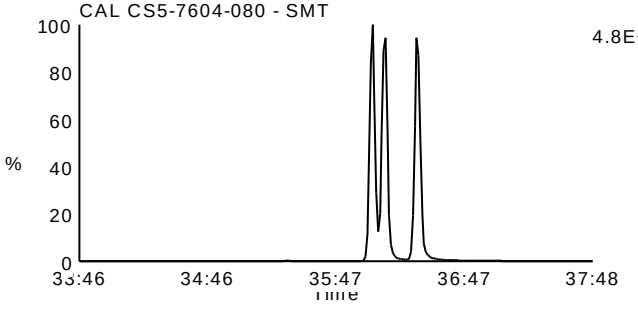
Data File: P110413A 04 G3 C7 - 389.8156
CAL CS5-7604-080 - SMT



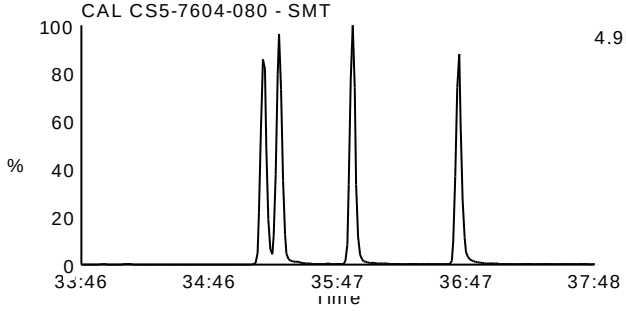
Data File: P110413A_04 G3 C2 - 375.8178
CAL CS5-7604-080 - SMT



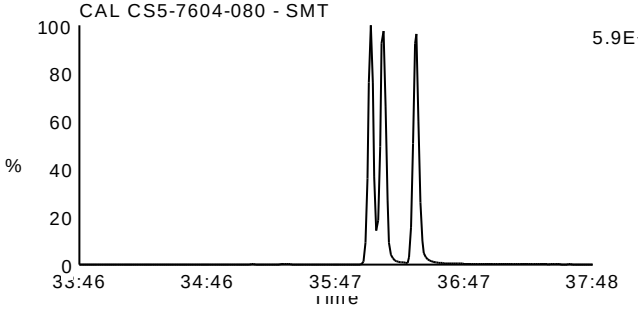
Data File: P110413A_04 G3 C8 - 391.8127
CAL CS5-7604-080 - SMT



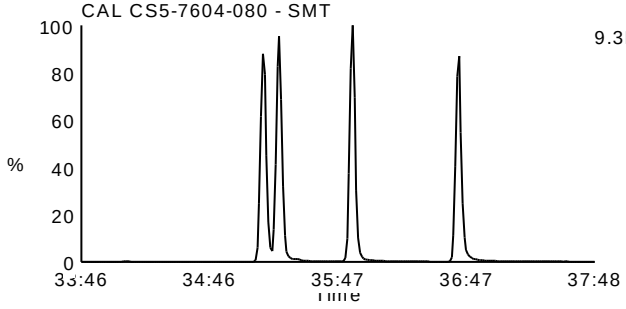
Data File: P110413A 04 G3 C5 - 383.8639
CAL CS5-7604-080 - SMT



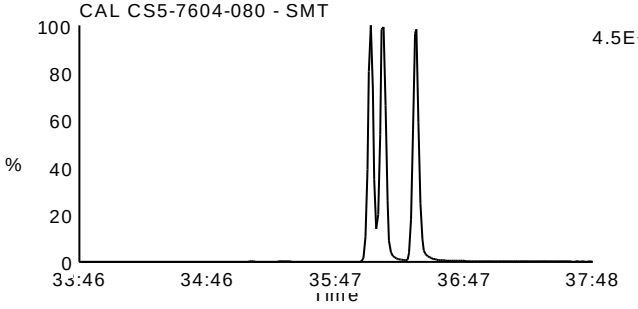
Data File: P110413A 04 G3 C9 - 401.8559
CAL CS5-7604-080 - SMT



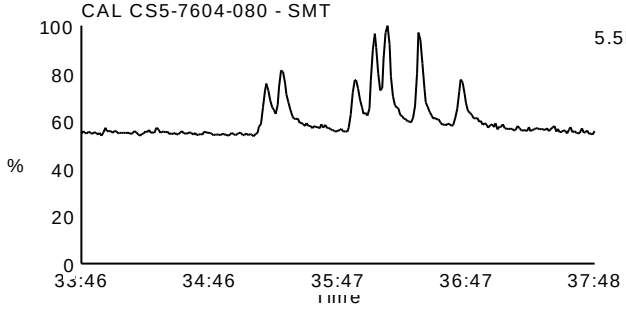
Data File: P110413A_04 G3 C6 - 385.861
CAL CS5-7604-080 - SMT



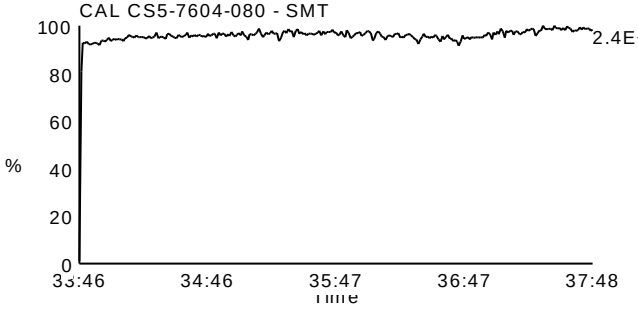
Data File: P110413A_04 G3 C10 - 403.8529
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G3 C11 - 445.7555
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G3 C3 - 380.976
CAL CS5-7604-080 - SMT

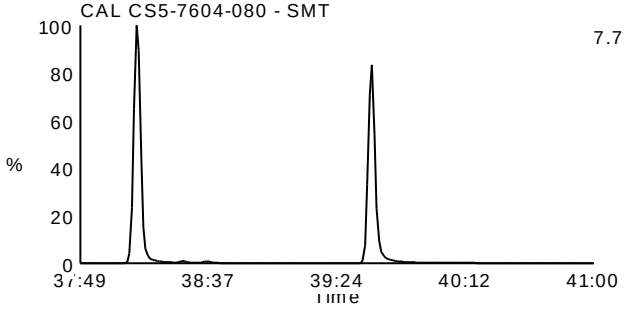


Homologue Group: Heptas

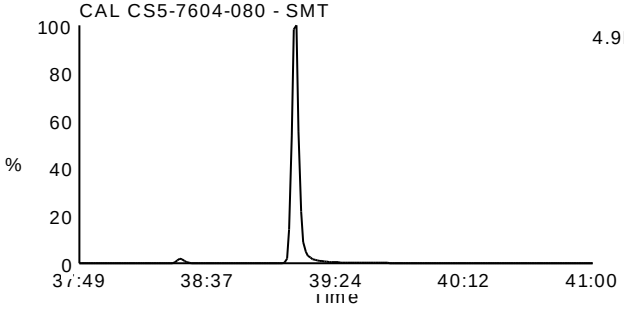
Data File Name: P110413A_04
Date Acquired: 4/13/2011
Sample Description: CAL CS5-7604-080 - SMT

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR09 (P)

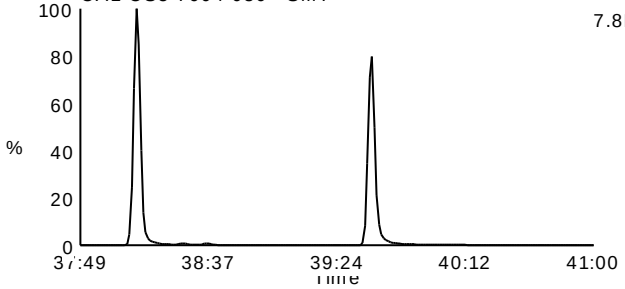
Data File: P110413A 04 G4 C3 - 407.7818
CAL CS5-7604-080 - SMT



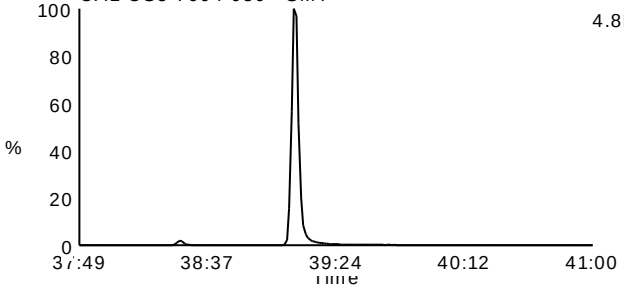
Data File: P110413A 04 G4 C8 - 423.7767
CAL CS5-7604-080 - SMT



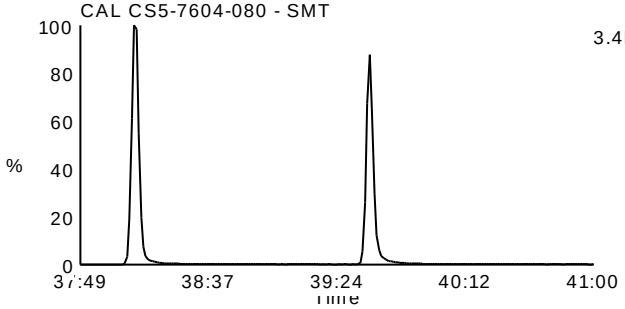
Data File: P110413A_04 G4 C4 - 409.7788
CAL CS5-7604-080 - SMT



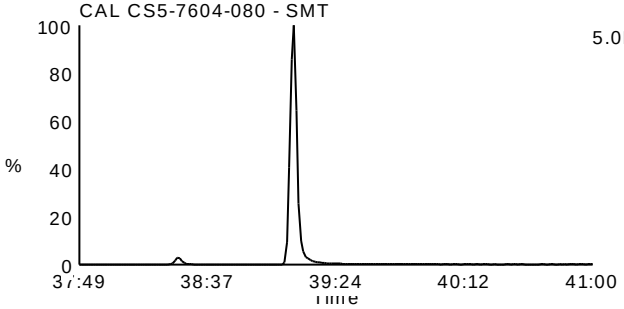
Data File: P110413A_04 G4 C9 - 425.7737
CAL CS5-7604-080 - SMT



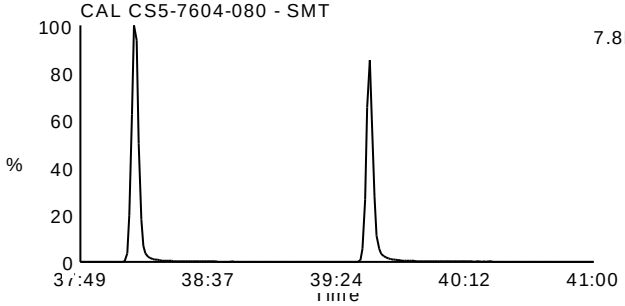
Data File: P110413A 04 G4 C6 - 417.825
CAL CS5-7604-080 - SMT



Data File: P110413A 04 G4 C11 - 435.8169
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G4 C7 - 419.822
CAL CS5-7604-080 - SMT



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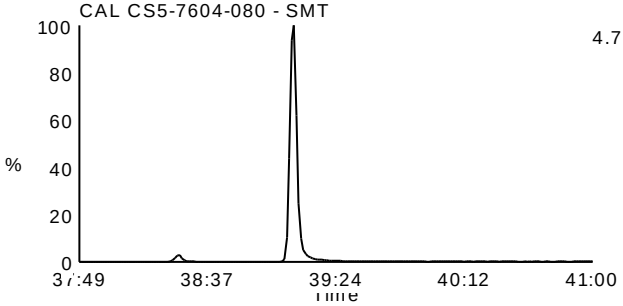
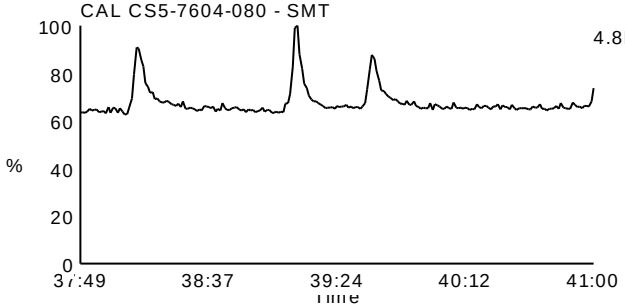
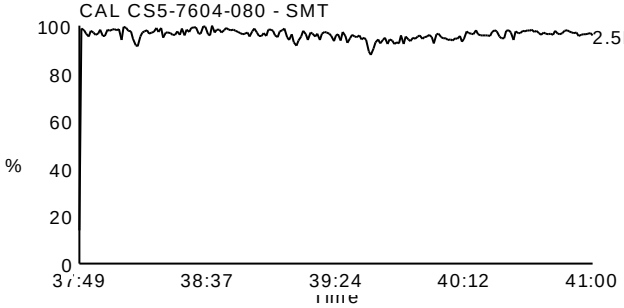
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G4 C13 - 479.7165
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G4 C1 - 380.976
CAL CS5-7604-080 - SMT

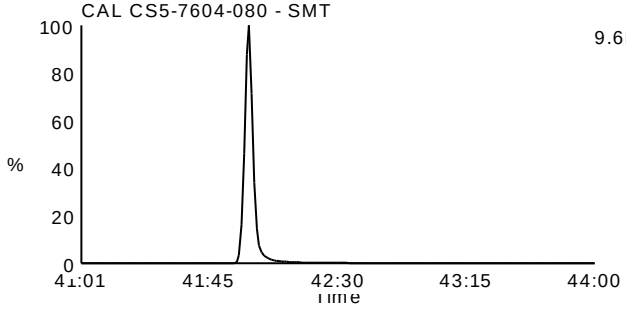


Homologue Group: Octas

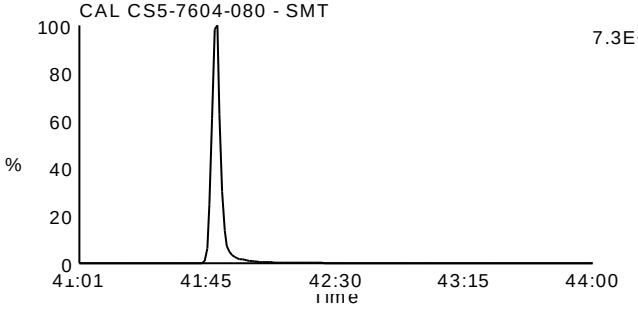
Data File Name: P110413A_04
Date Acquired: 4/13/2011
Sample Description: CAL CS5-7604-080 - SMT

Lab Sample ID: CS5-7604-080
Client Sample ID: CS5
Instrument: 10MSHR09 (P)

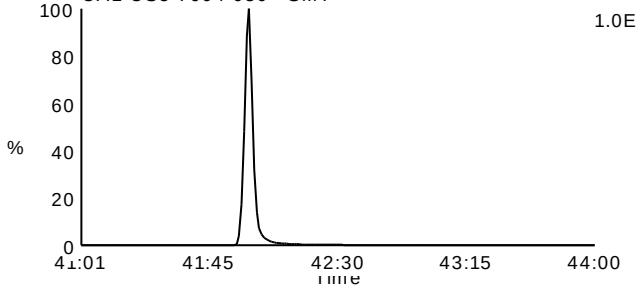
Data File: P110413A 04 G5 C4 - 441.7428
CAL CS5-7604-080 - SMT



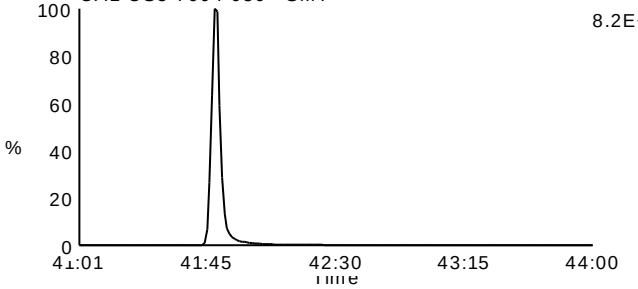
Data File: P110413A 04 G5 C8 - 457.7377
CAL CS5-7604-080 - SMT



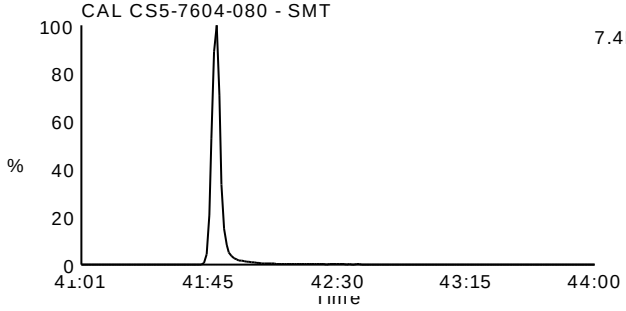
Data File: P110413A_04 G5 C5 - 443.7398
CAL CS5-7604-080 - SMT



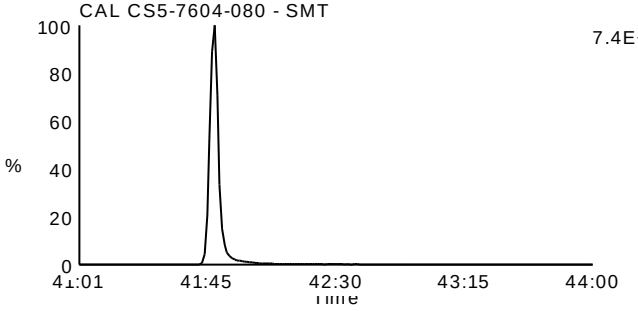
Data File: P110413A_04 G5 C9 - 459.7347
CAL CS5-7604-080 - SMT



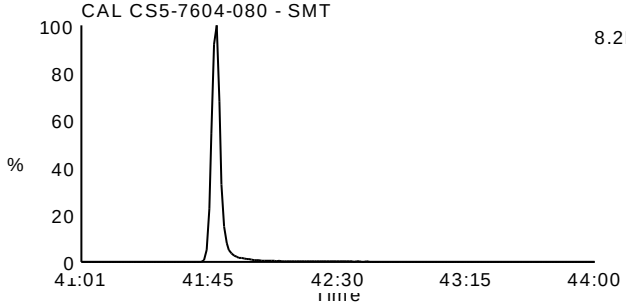
Data File: P110413A 04 G5 C11 - 469.7779
CAL CS5-7604-080 - SMT



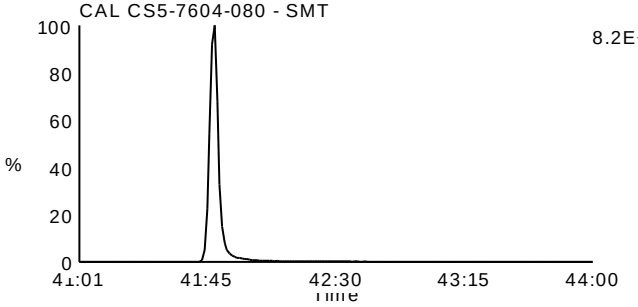
Data File: P110413A 04 G5 C11 - 469.7779
CAL CS5-7604-080 - SMT



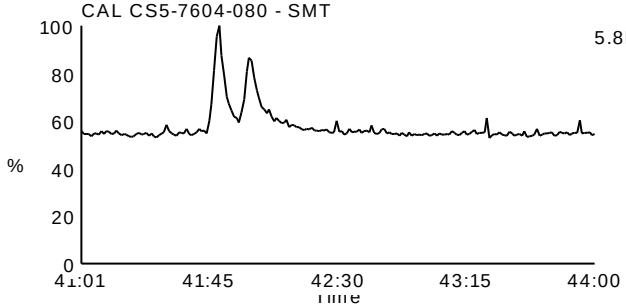
Data File: P110413A_04 G5 C12 - 471.7749
CAL CS5-7604-080 - SMT



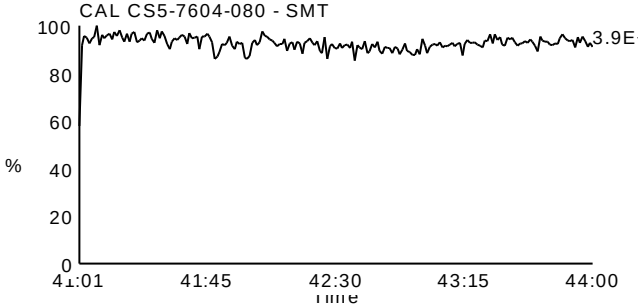
Data File: P110413A_04 G5 C12 - 471.7749
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G5 C13 - 513.6775
CAL CS5-7604-080 - SMT



Data File: P110413A_04 G5 C2 - 430.9728
CAL CS5-7604-080 - SMT

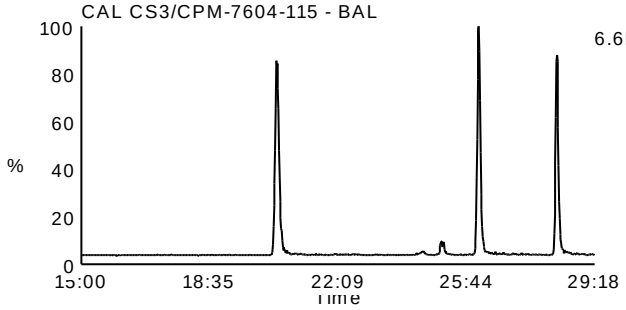


Homologue Group: Tetras

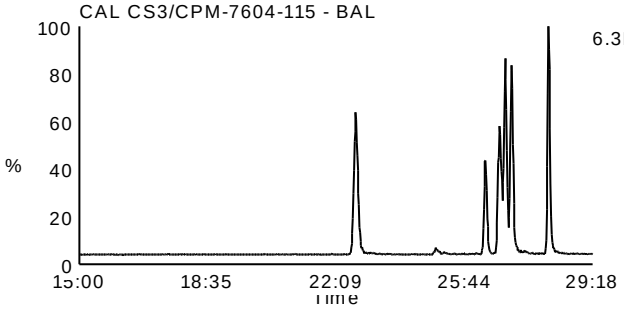
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

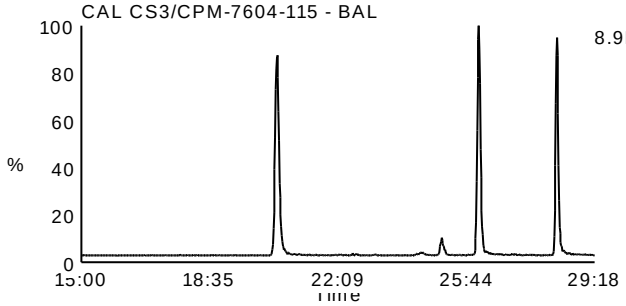
Data File: P110514B 07 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - BAL



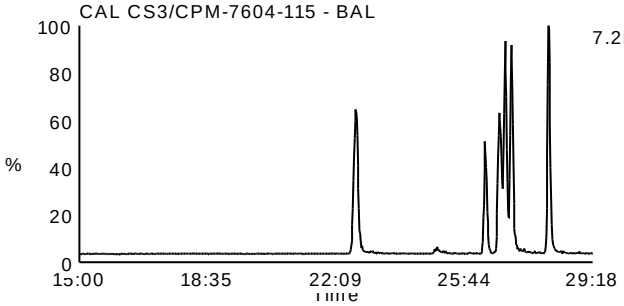
Data File: P110514B 07 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - BAL



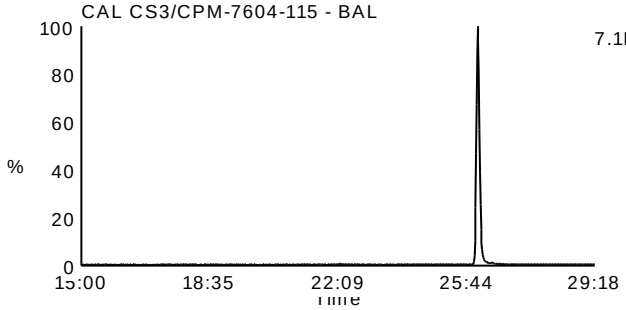
Data File: P110514B_07 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - BAL



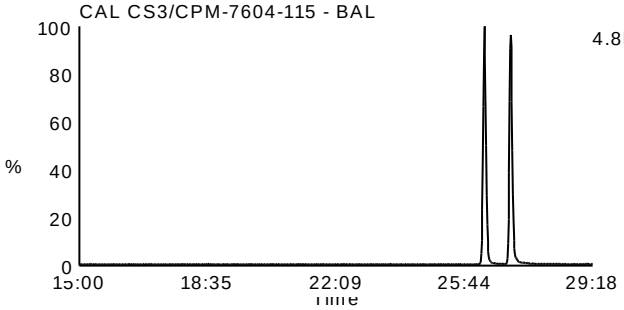
Data File: P110514B_07 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - BAL



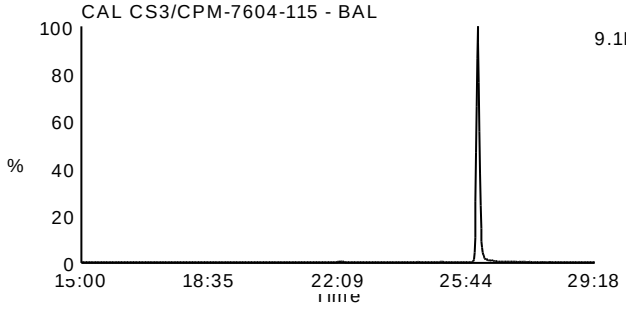
Data File: P110514B 07 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - BAL



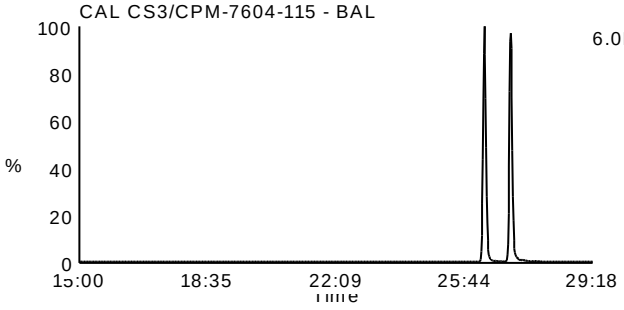
Data File: P110514B 07 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - BAL



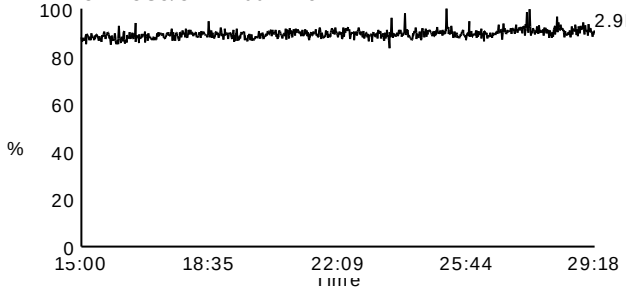
Data File: P110514B_07 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - BAL



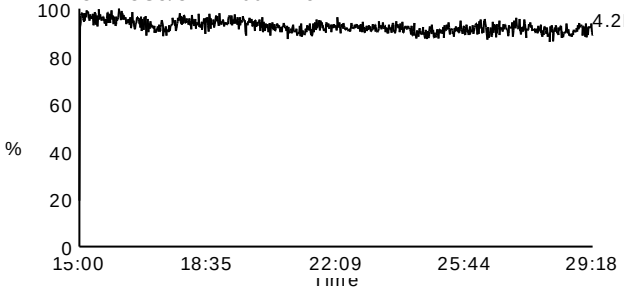
Data File: P110514B_07 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B_07 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - BAL



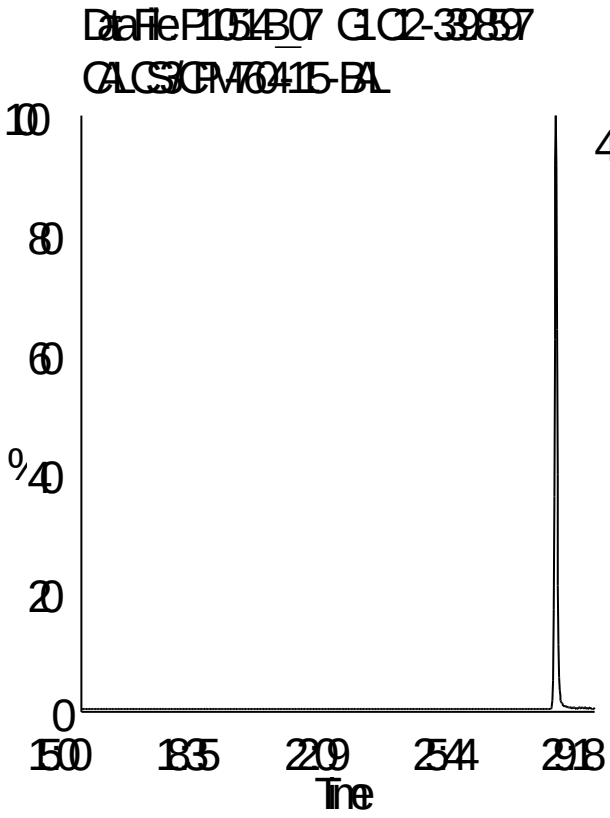
Data File: P110514B_07 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - BAL

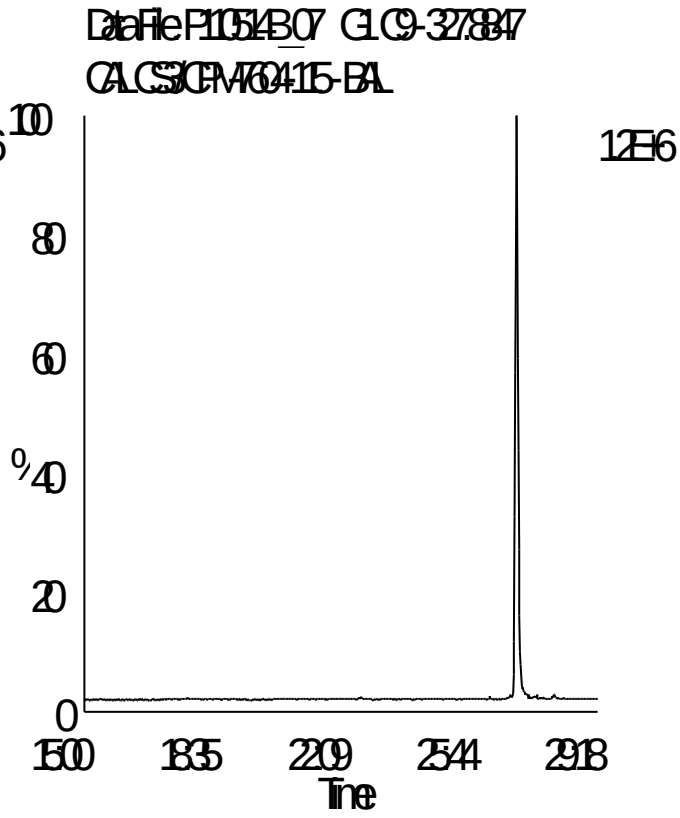


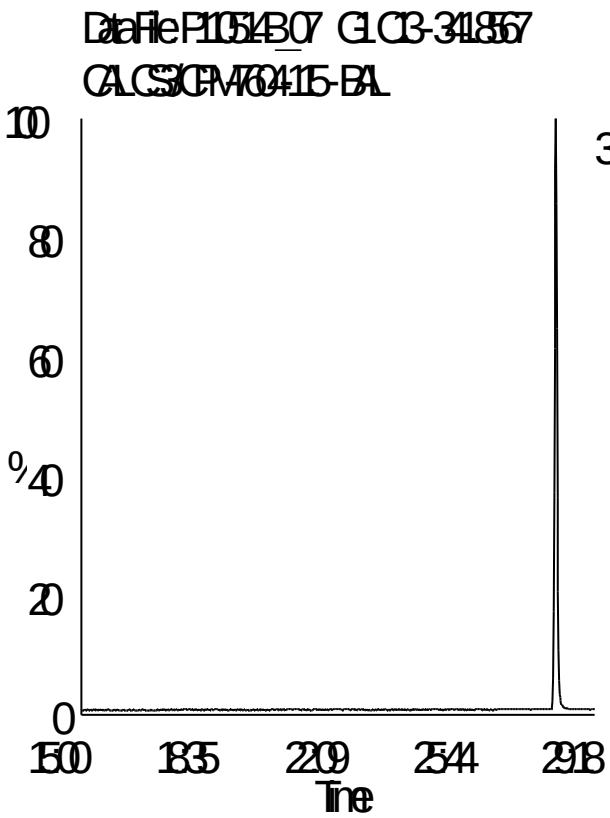
Homologue Group: Penta & Cleanup

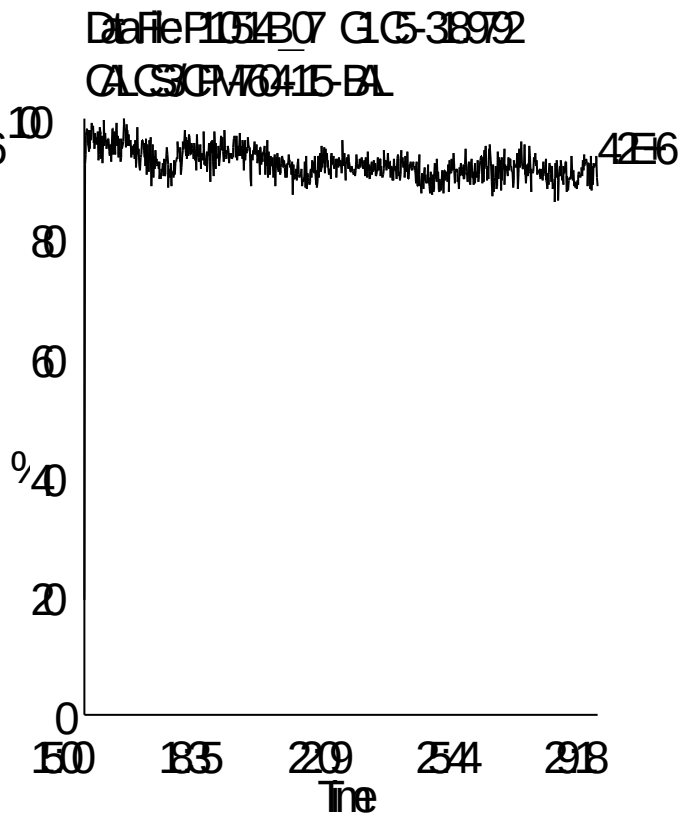
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)







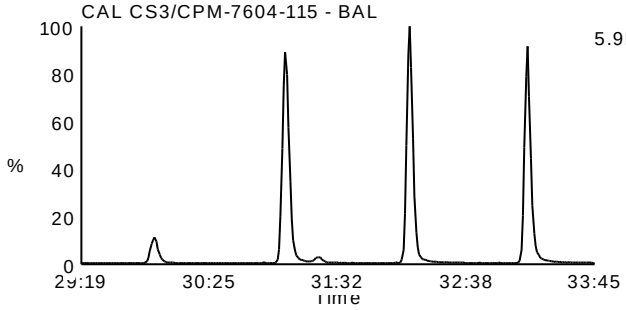


Homologue Group: Pentas

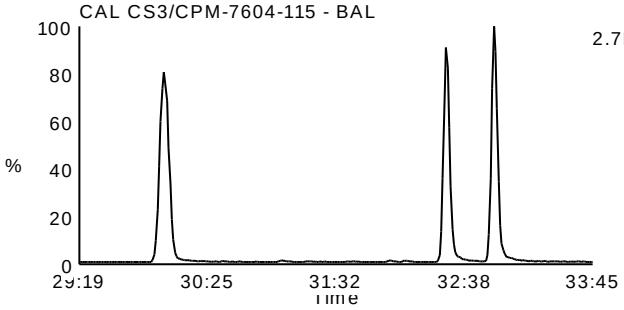
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

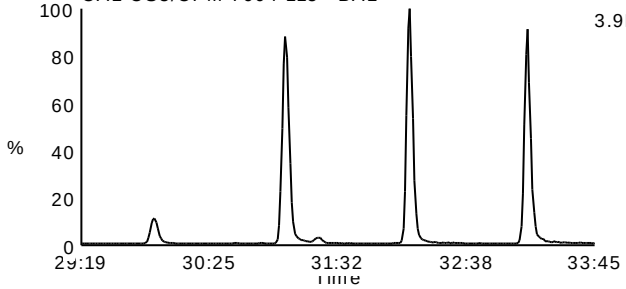
Data File: P110514B 07 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL



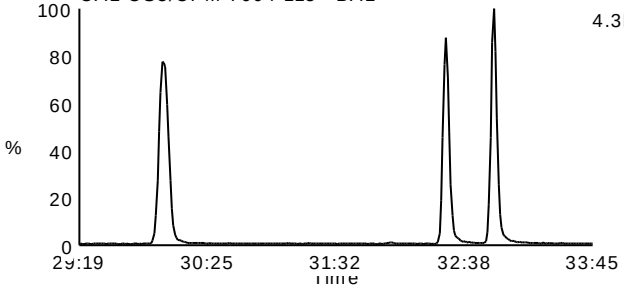
Data File: P110514B 07 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL



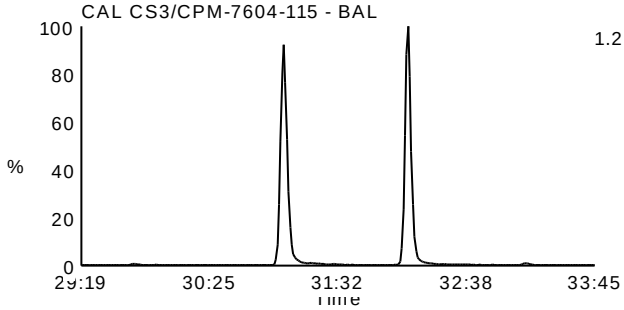
Data File: P110514B_07 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL



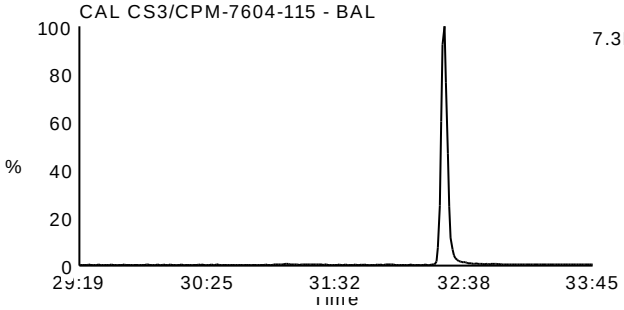
Data File: P110514B_07 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL



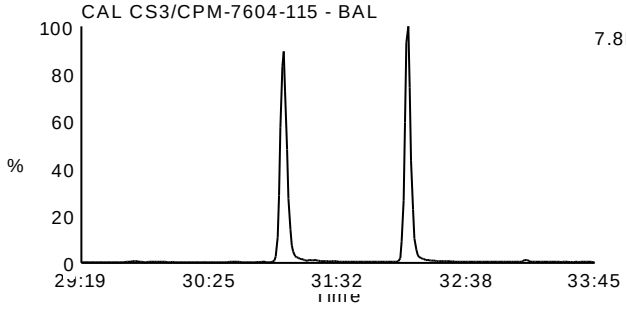
Data File: P110514B 07 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL



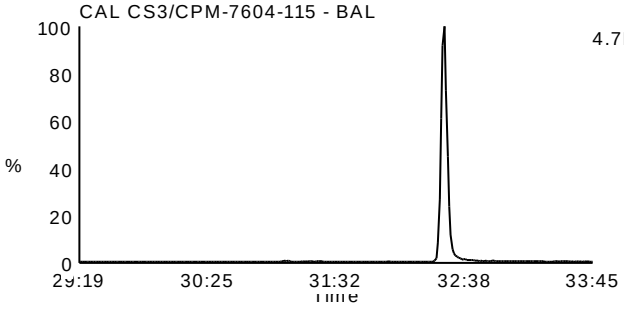
Data File: P110514B 07 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL



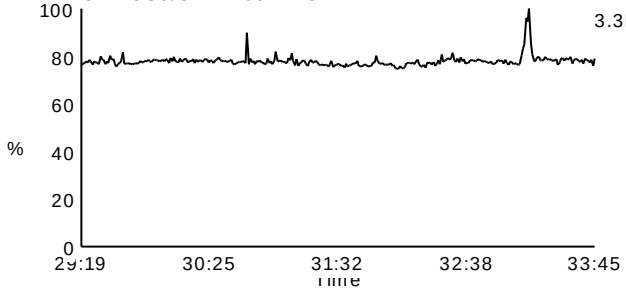
Data File: P110514B_07 G2 C5 - 353.8969
CAL CS3/CPM-7604-115 - BAL



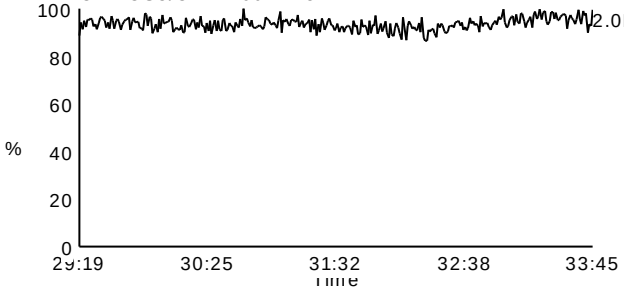
Data File: P110514B_07 G2 C11 - 369.8918
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B_07 G2 C12 - 409.7974
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B_07 G2 C6 - 354.9792
CAL CS3/CPM-7604-115 - BAL

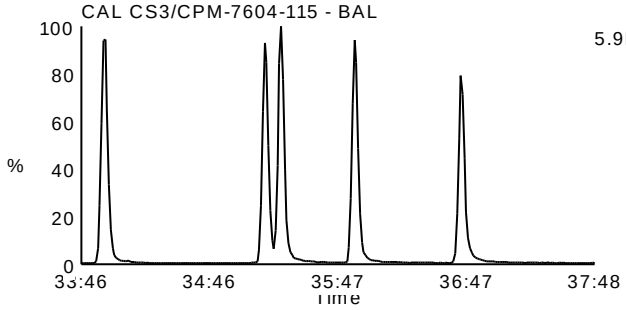


Homologue Group: Hexas

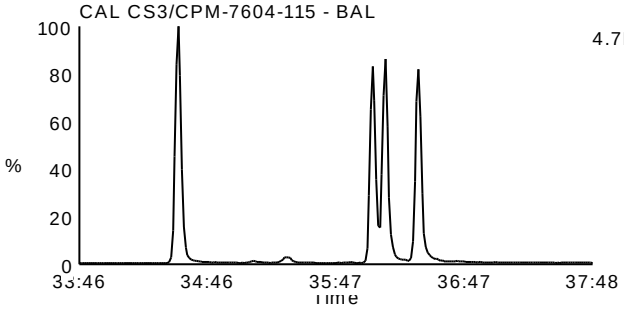
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

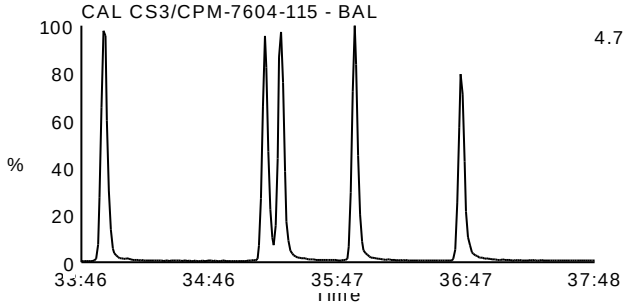
Data File: P110514B 07 G3 C1 - 373.8207
CAL CS3/CPM-7604-115 - BAL



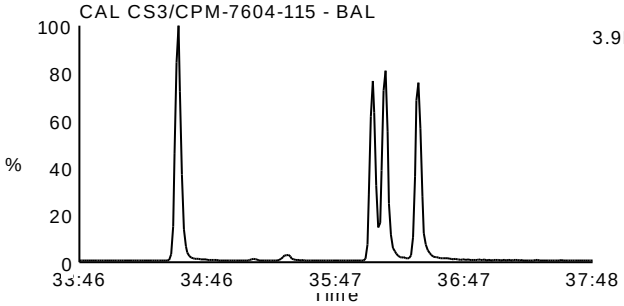
Data File: P110514B 07 G3 C7 - 389.8156
CAL CS3/CPM-7604-115 - BAL



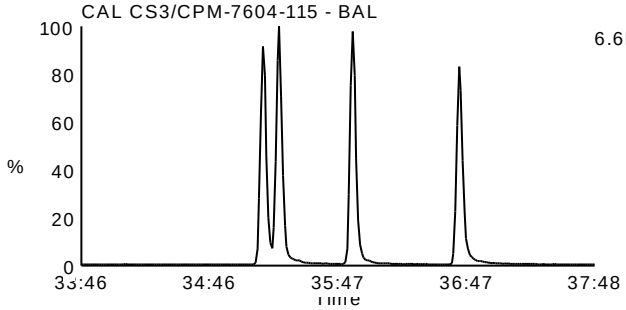
Data File: P110514B 07 G3 C2 - 375.8178
CAL CS3/CPM-7604-115 - BAL



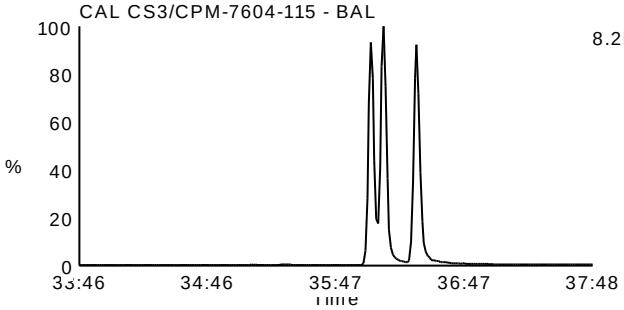
Data File: P110514B 07 G3 C8 - 391.8127
CAL CS3/CPM-7604-115 - BAL



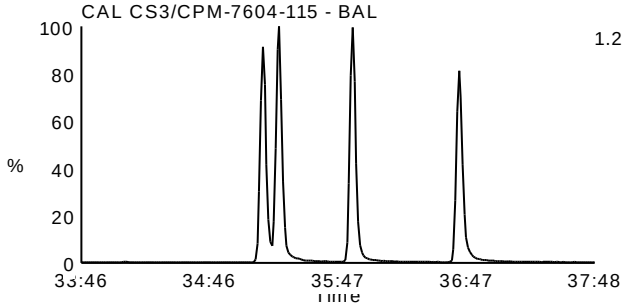
Data File: P110514B 07 G3 C5 - 383.8639
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B 07 G3 C9 - 401.8559
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B_07 G3 C6 - 385.861
CAL CS3/CPM-7604-115 - BAL



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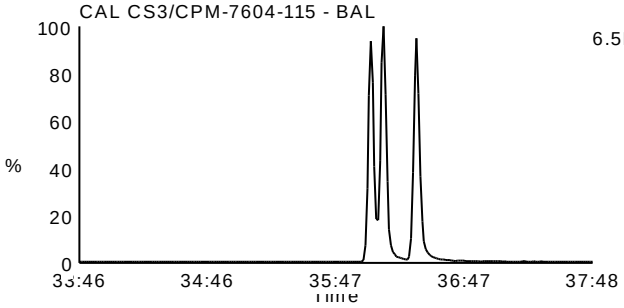
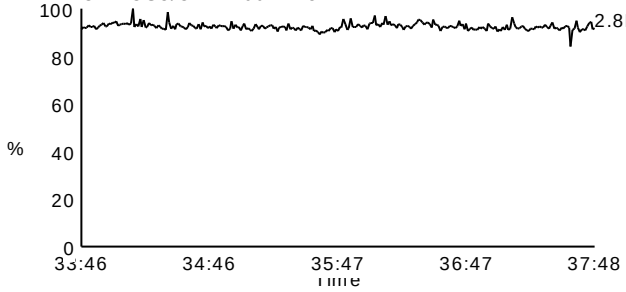
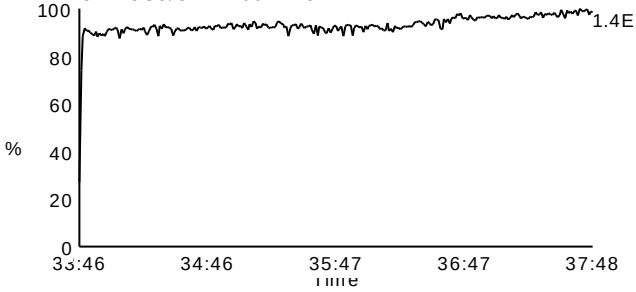
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B_07 G3 C11 - 445.7555
CAL CS3/CPM-7604-115 - BAL



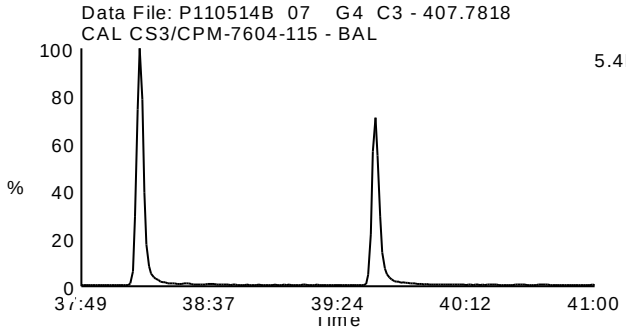
Data File: P110514B_07 G3 C3 - 380.976
CAL CS3/CPM-7604-115 - BAL

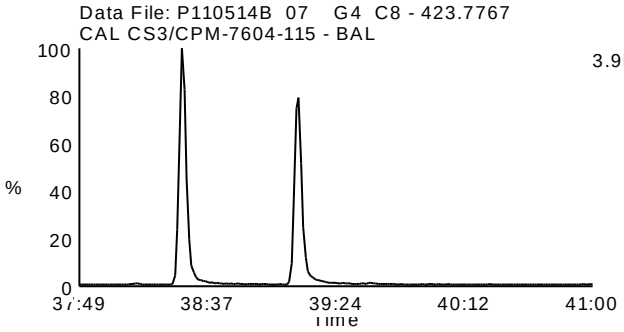


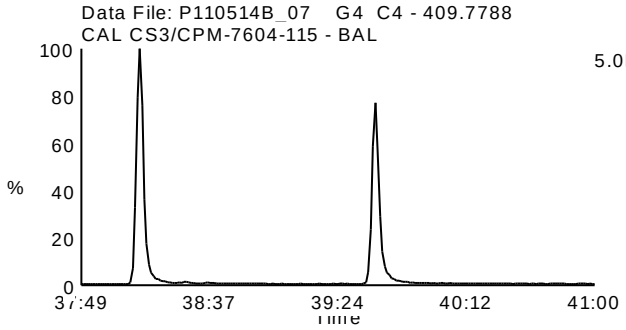
Homologue Group: Heptas

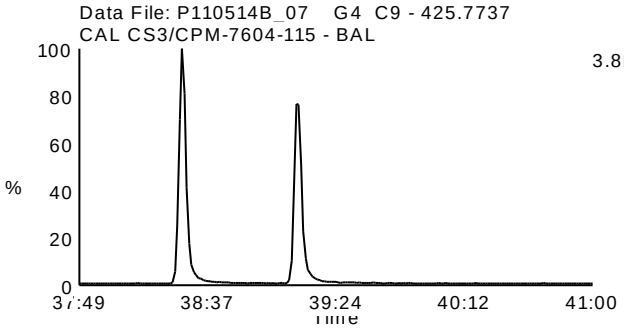
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

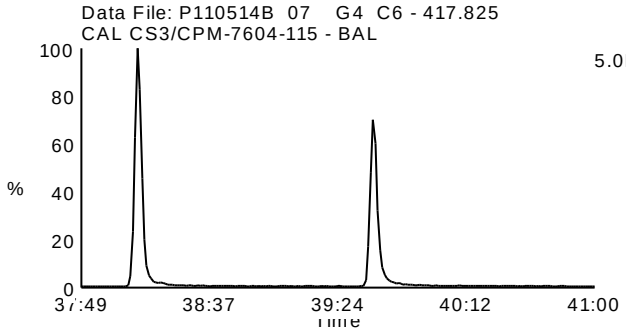
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

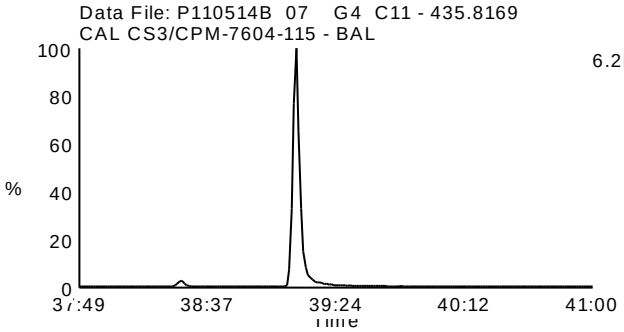


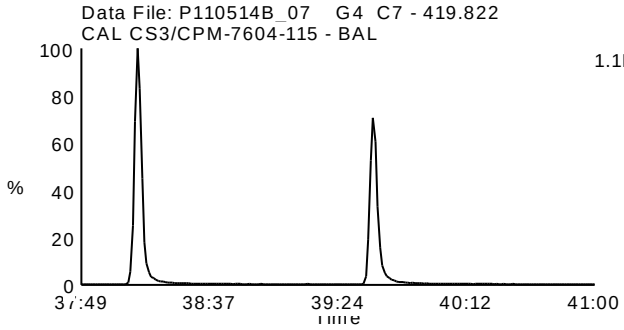


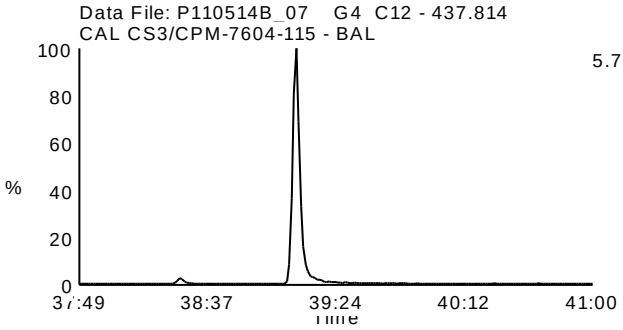


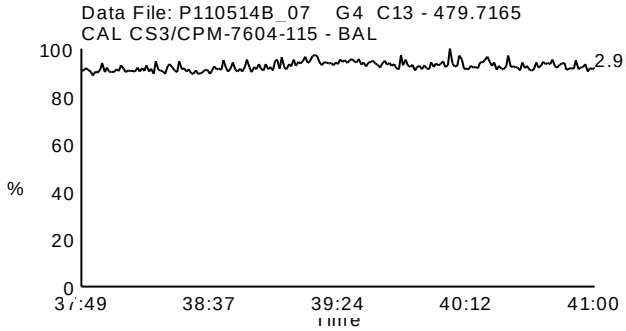


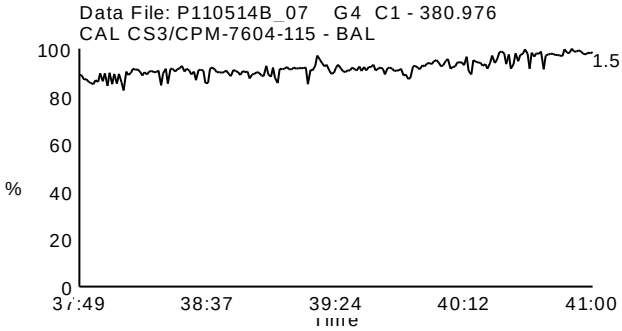








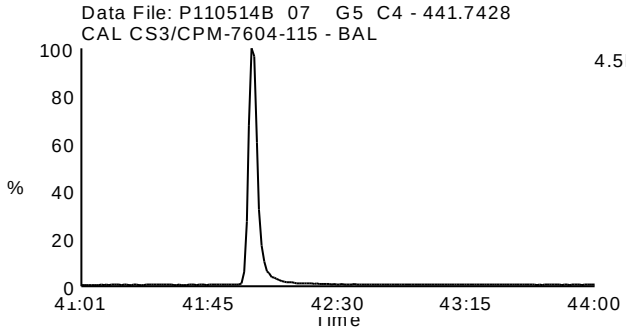


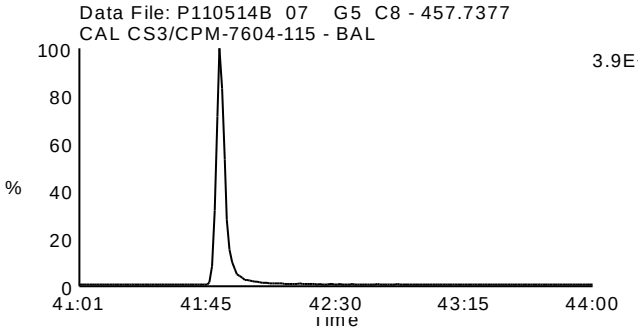


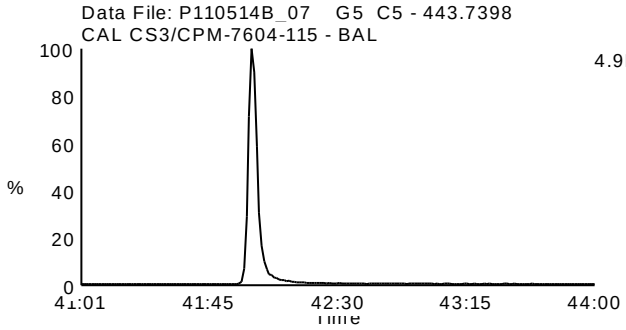
Homologue Group: Octas

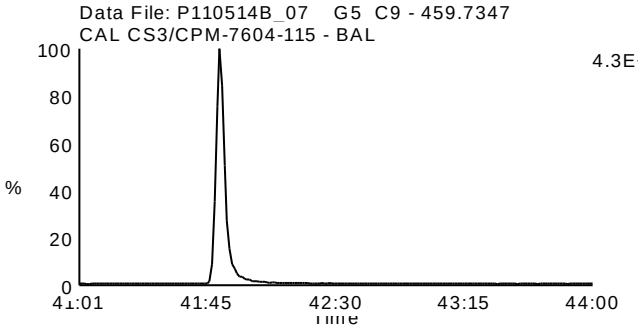
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

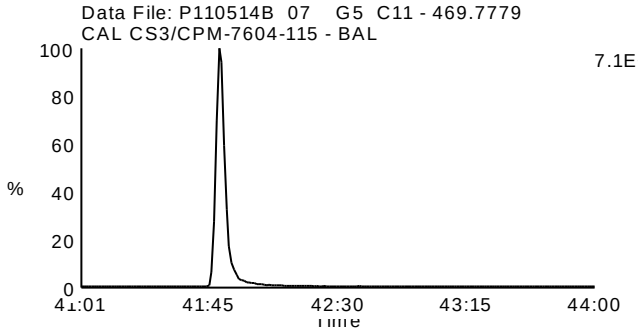
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

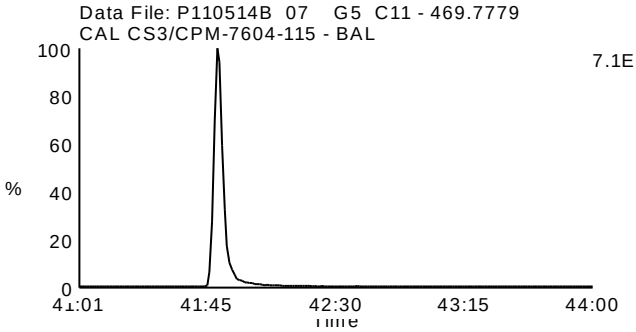


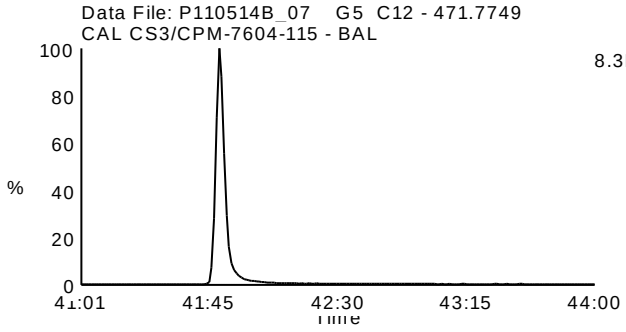


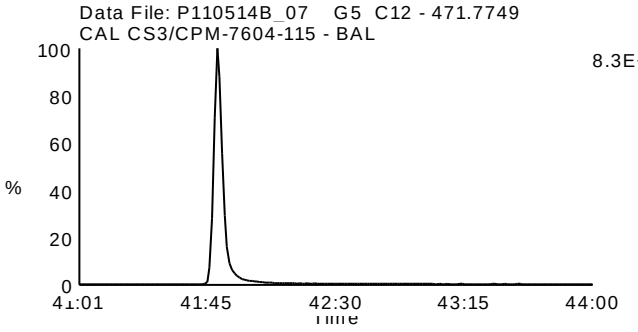


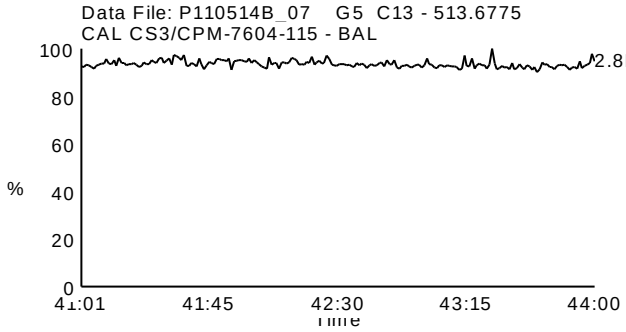


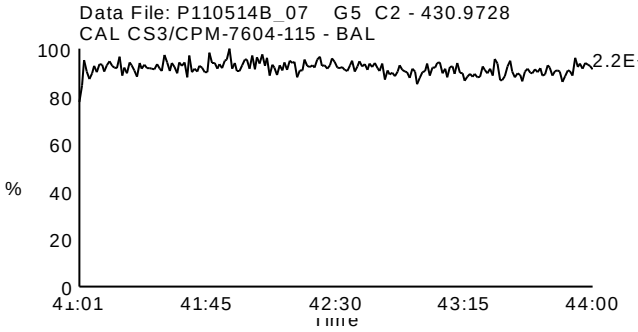










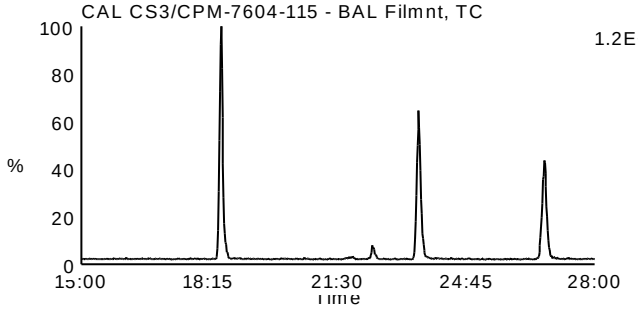


Homologue Group: Tetras

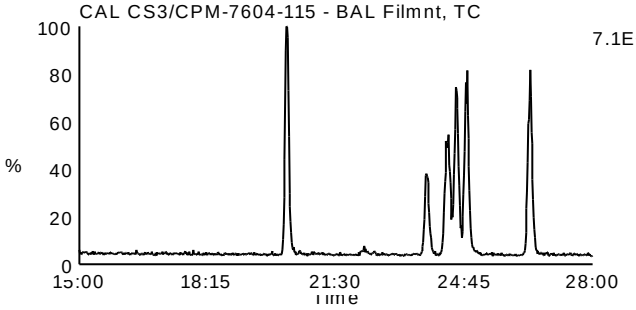
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

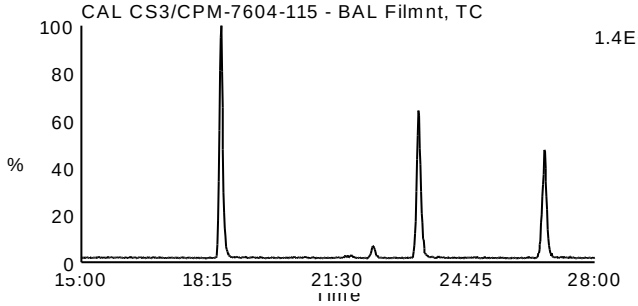
Data File: F110515B 01 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



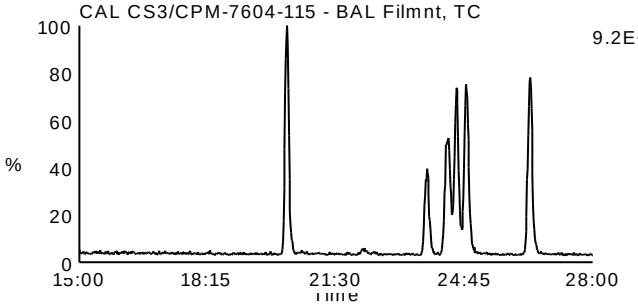
Data File: F110515B 01 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



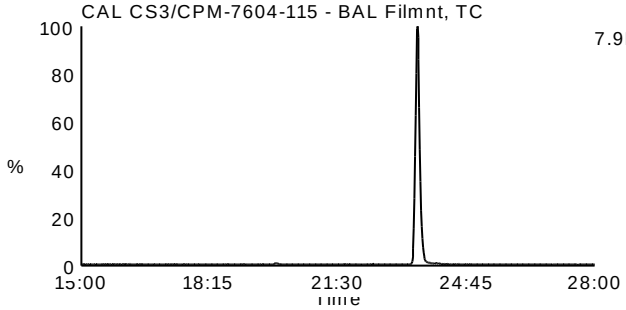
Data File: F110515B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



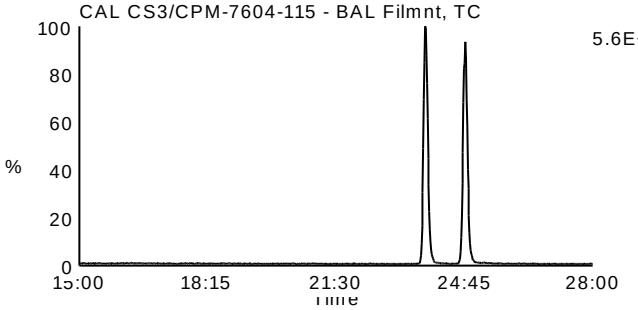
Data File: F110515B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



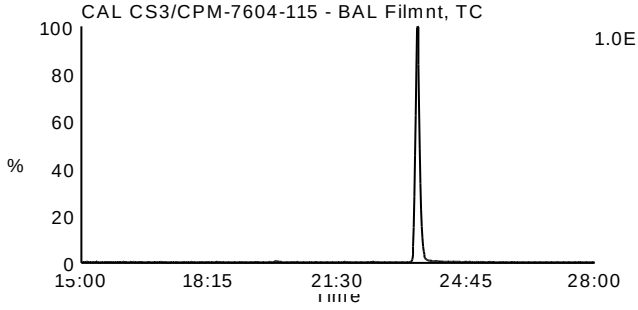
Data File: F110515B 01 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



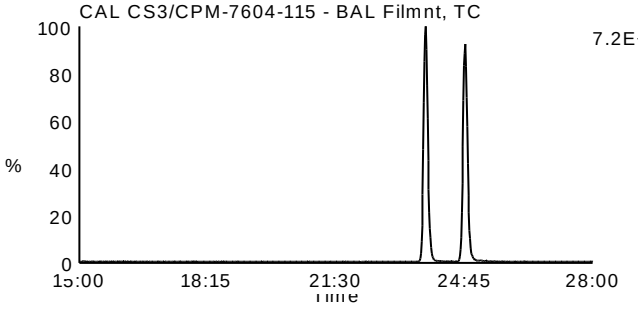
Data File: F110515B 01 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



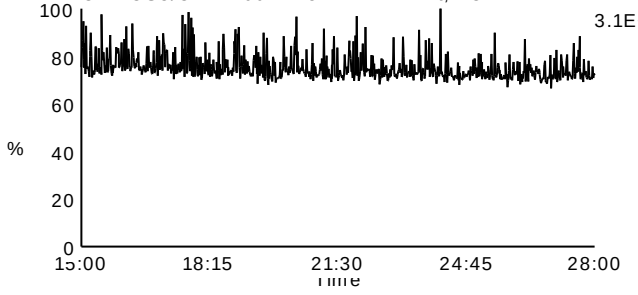
Data File: F110515B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



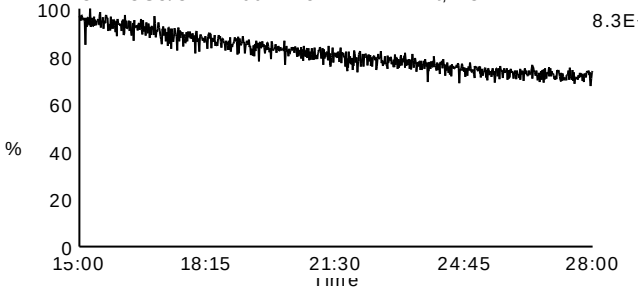
Data File: F110515B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



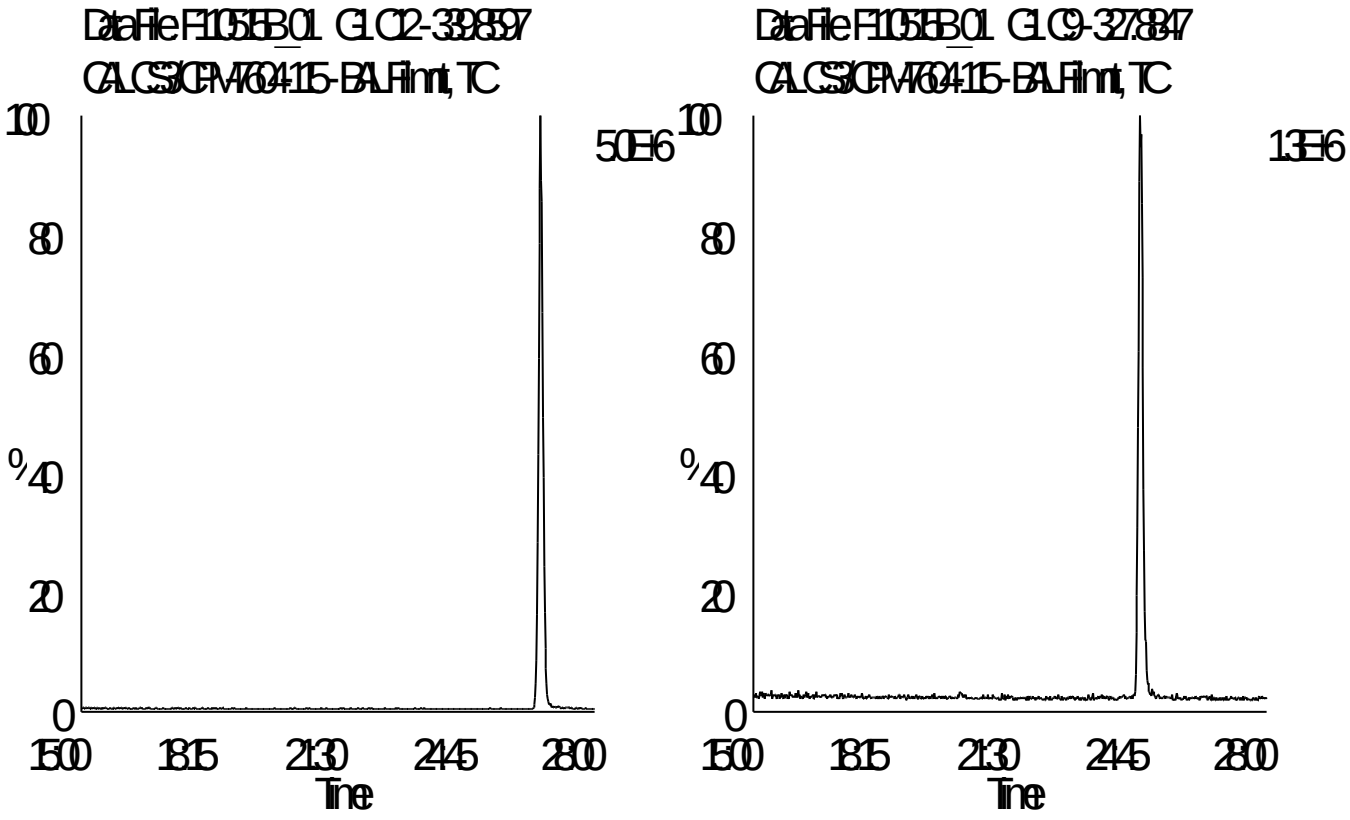
Data File: F110515B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - BAL Filmnt, TC

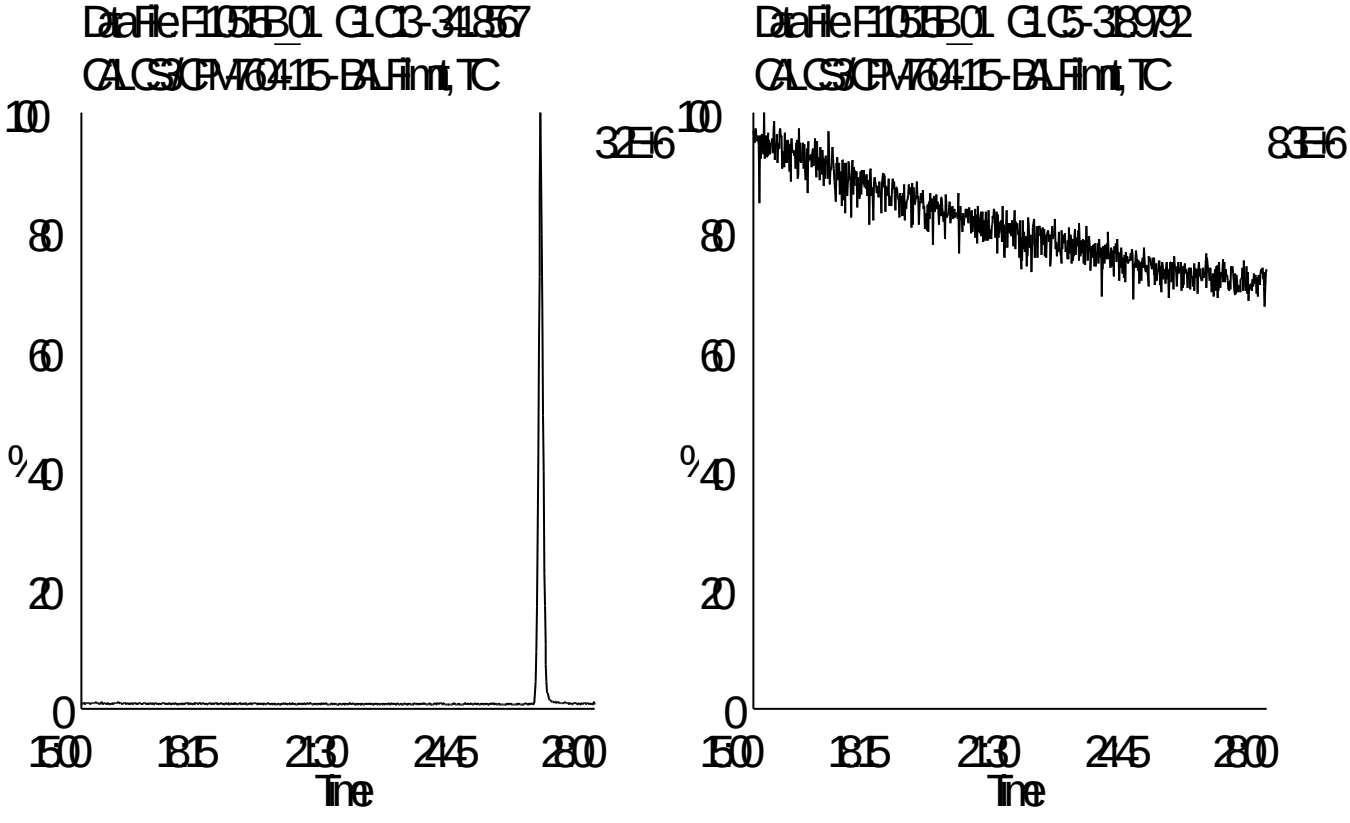


Homologue Group: Penta & Cleanup

Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)



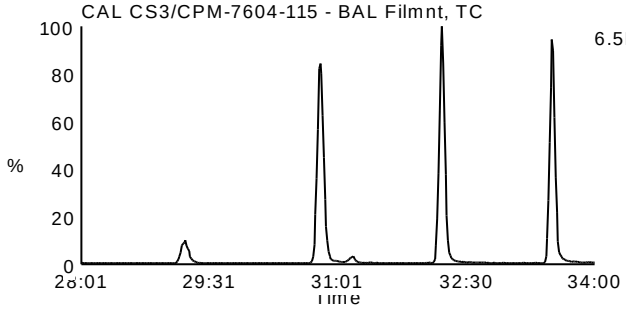


Homologue Group: Pentas

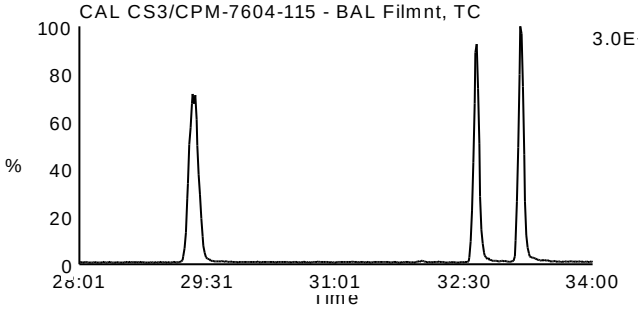
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

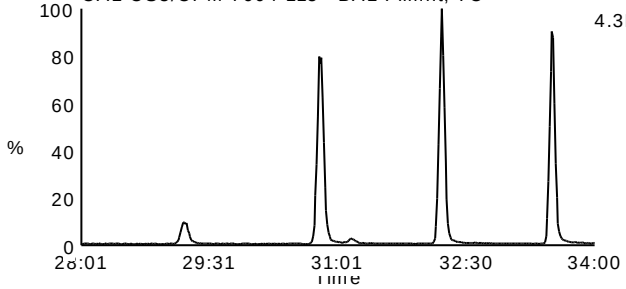
Data File: F110515B 01 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



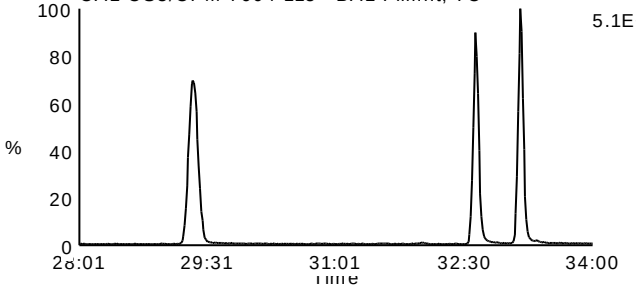
Data File: F110515B 01 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



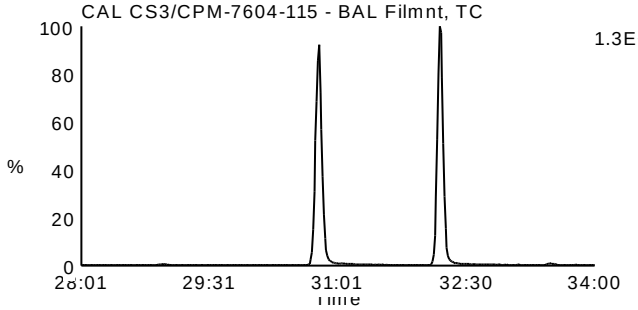
Data File: F110515B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



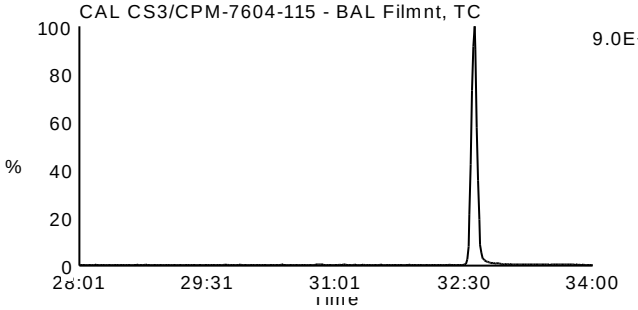
Data File: F110515B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



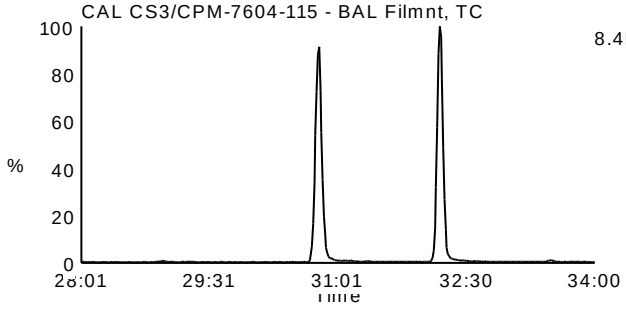
Data File: F110515B 01 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



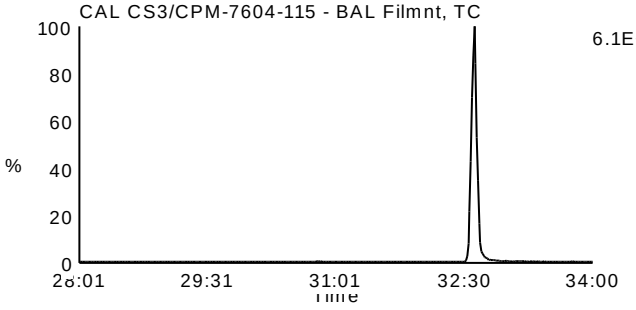
Data File: F110515B 01 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



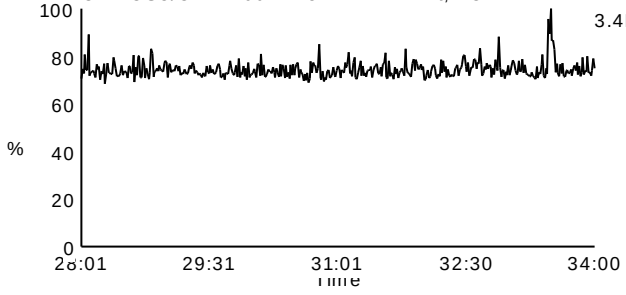
Data File: F110515B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



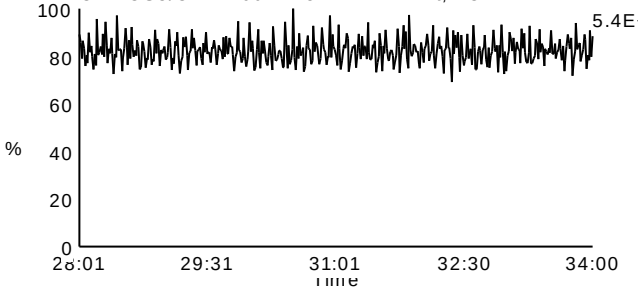
Data File: F110515B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



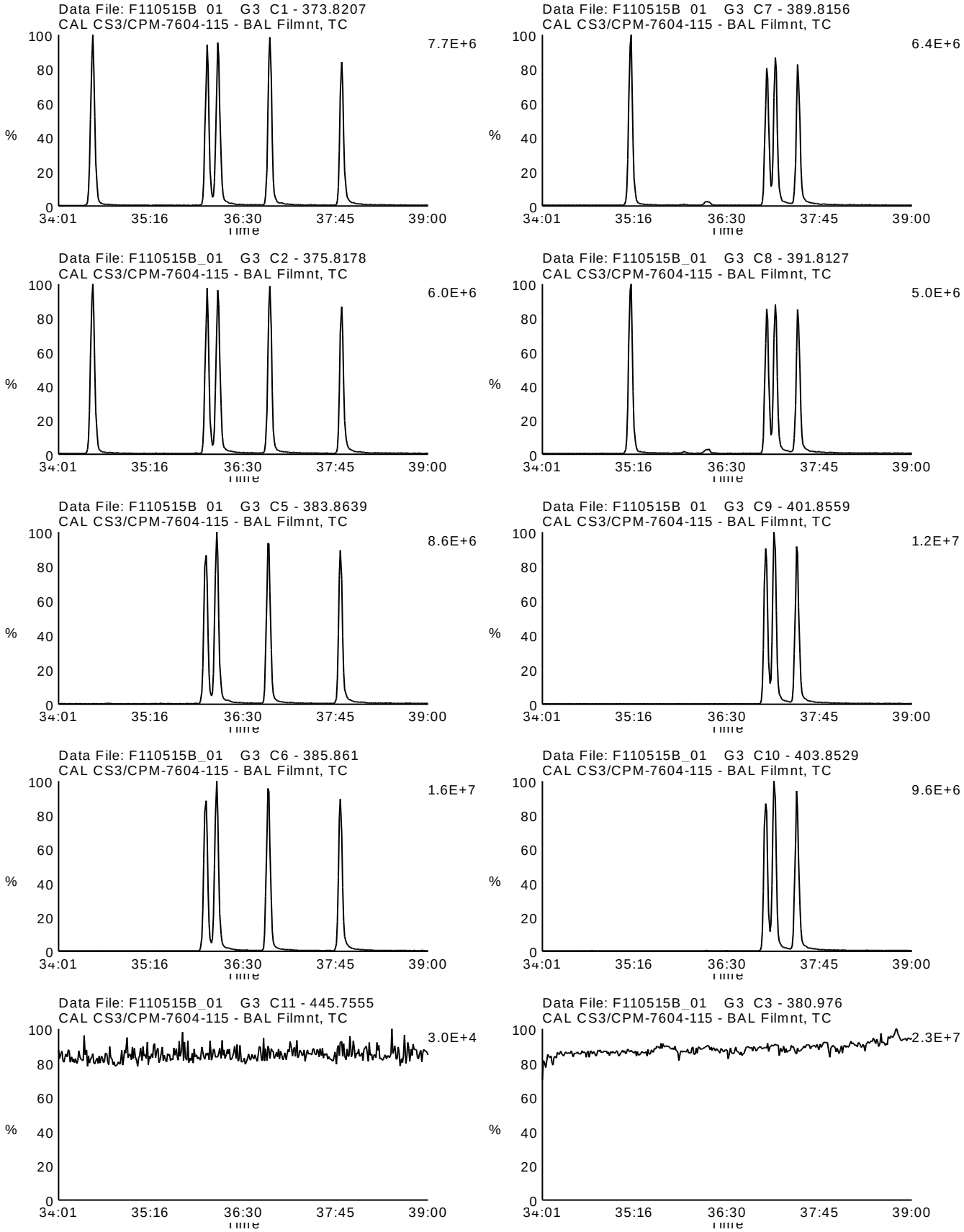
Data File: F110515B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Homologue Group: Hexas

Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

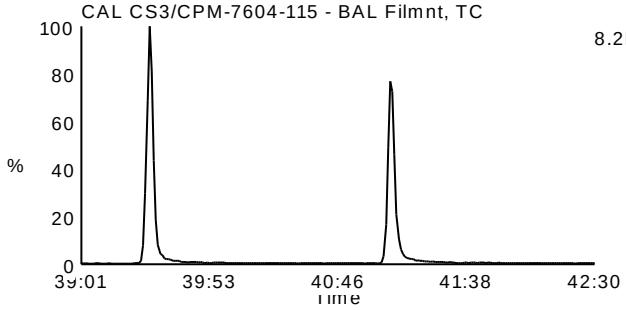


Homologue Group: Heptas

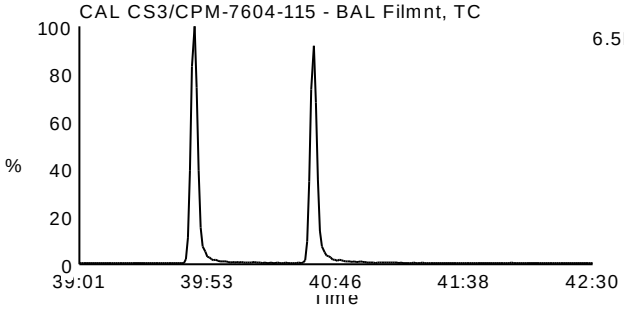
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

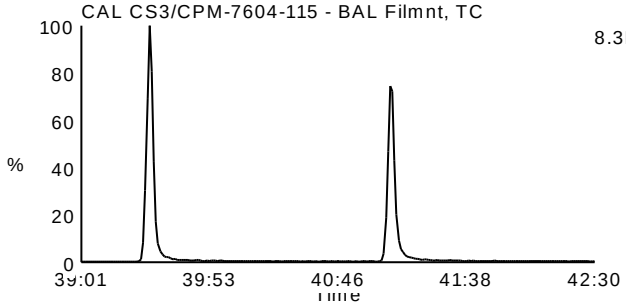
Data File: F110515B 01 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



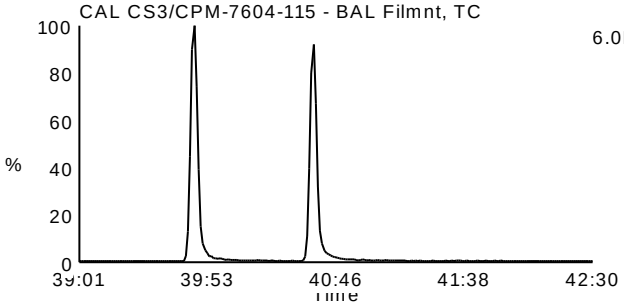
Data File: F110515B 01 G4 C8 - 423.7767
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



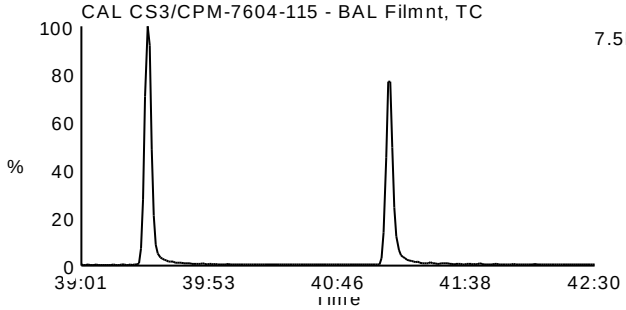
Data File: F110515B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



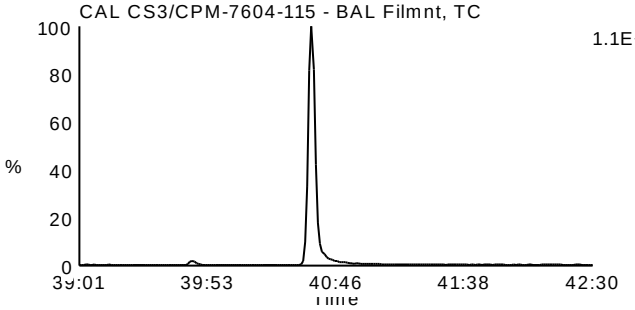
Data File: F110515B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



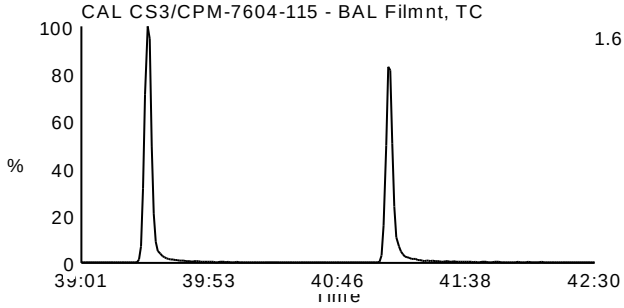
Data File: F110515B 01 G4 C6 - 417.825
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



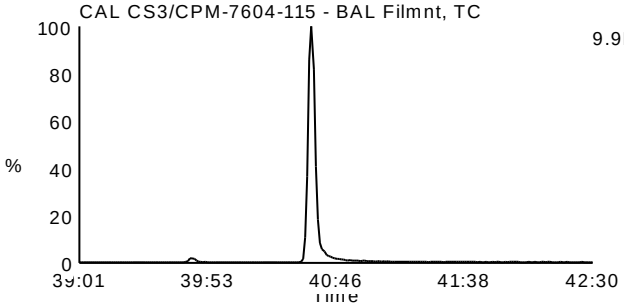
Data File: F110515B 01 G4 C11 - 435.8169
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



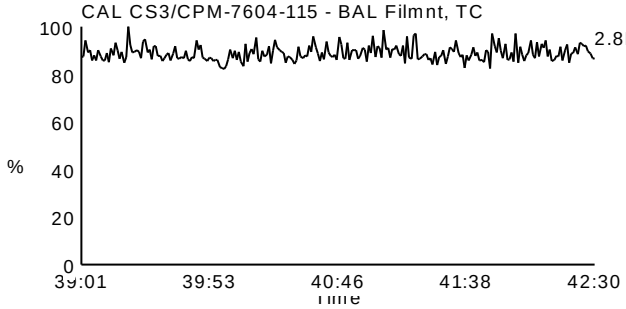
Data File: F110515B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



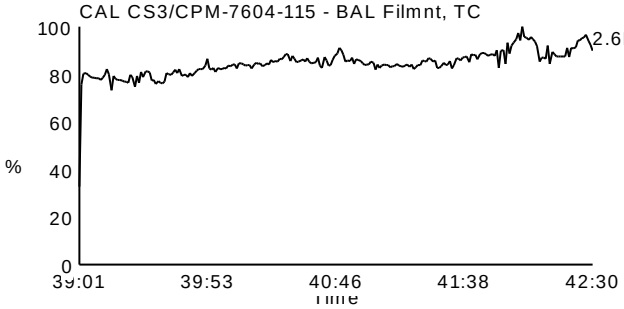
Data File: F110515B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - BAL Filmnt, TC

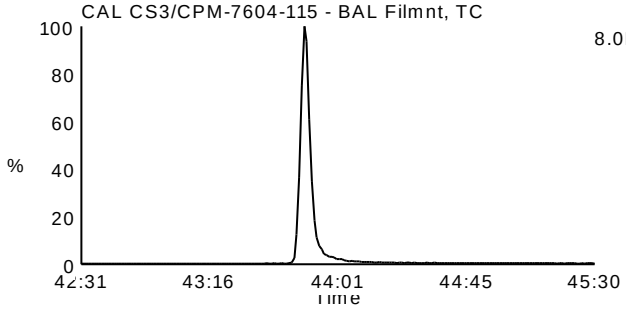


Homologue Group: Octas

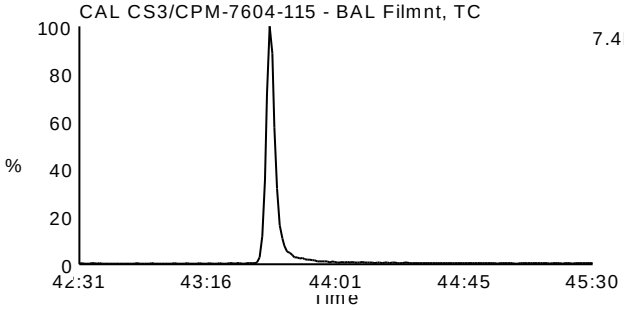
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

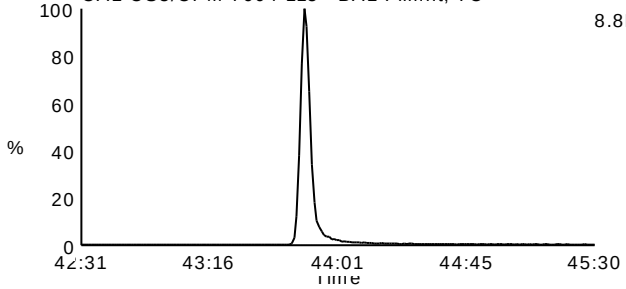
Data File: F110515B 01 G5 C4 - 441.7428
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



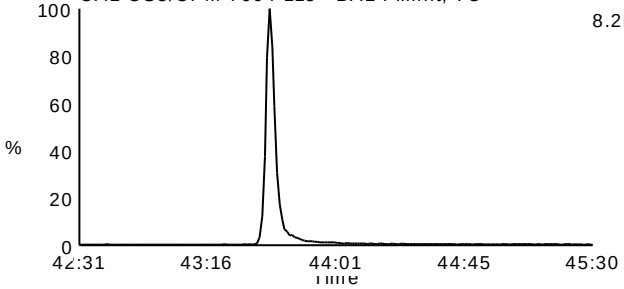
Data File: F110515B 01 G5 C8 - 457.7377
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



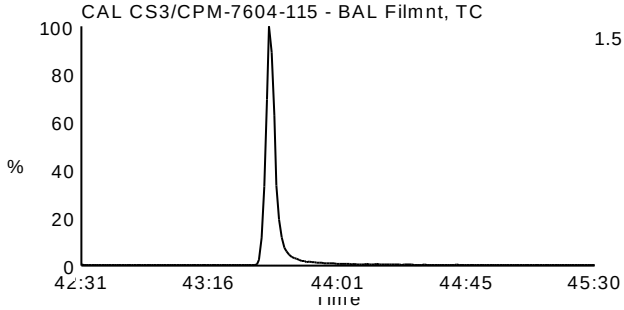
Data File: F110515B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



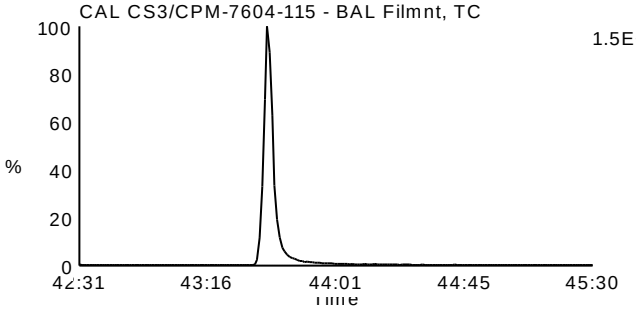
Data File: F110515B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



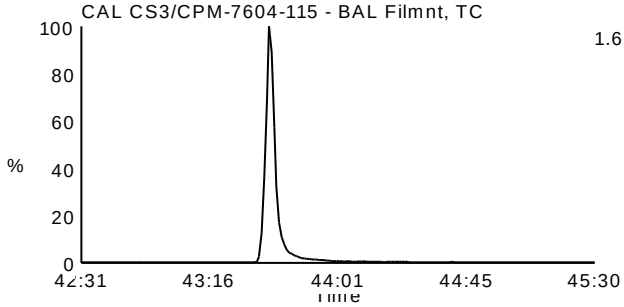
Data File: F110515B 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



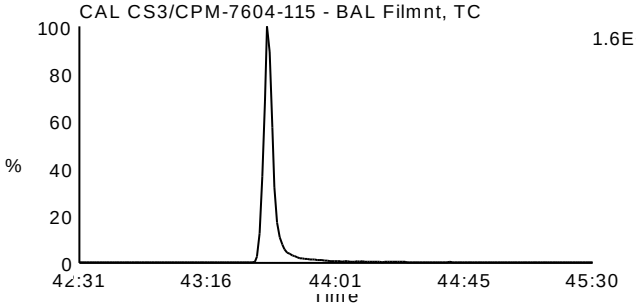
Data File: F110515B 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



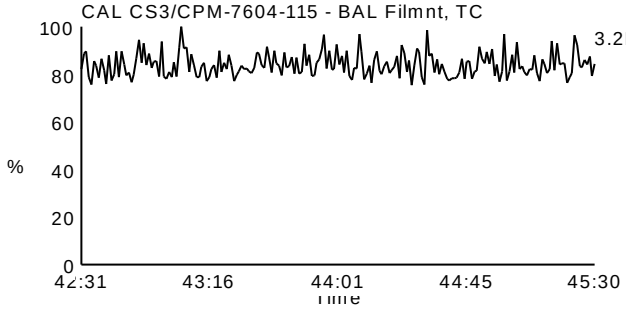
Data File: F110515B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



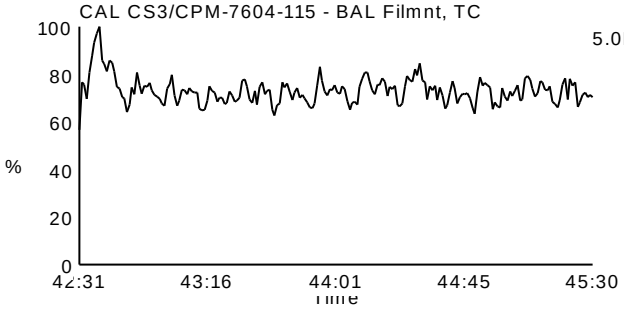
Data File: F110515B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-115 - BAL Filmnt, TC

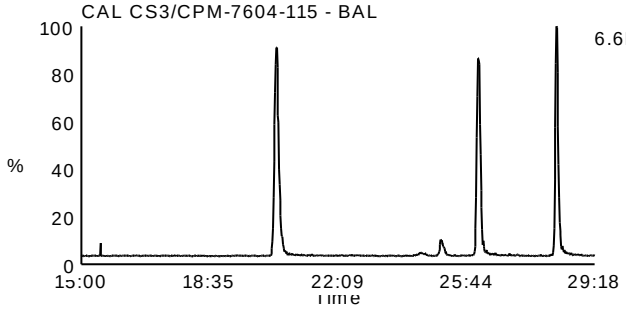


Homologue Group: Tetras

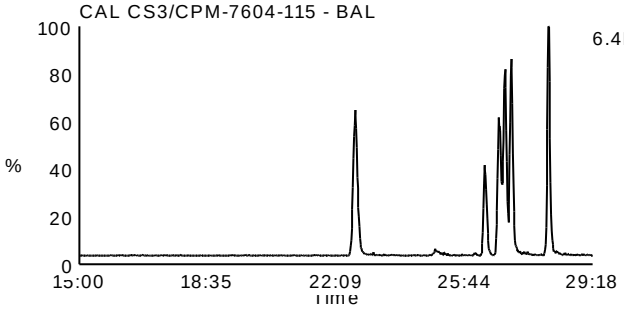
Data File Name: P110515A_14
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

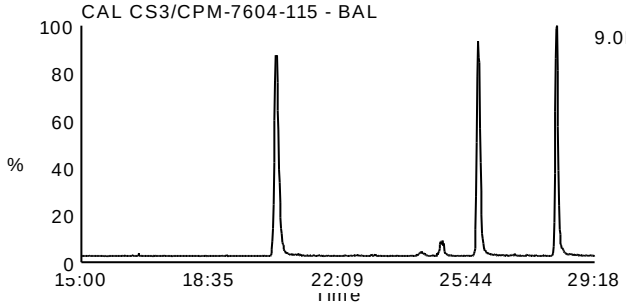
Data File: P110515A 14 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - BAL



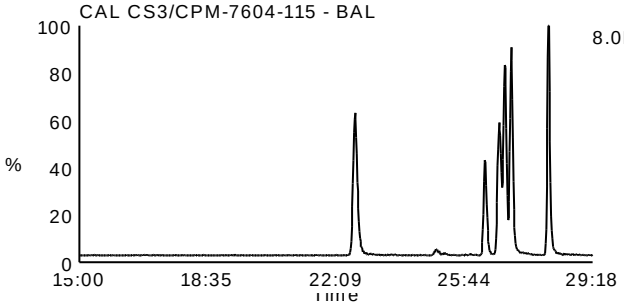
Data File: P110515A 14 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - BAL



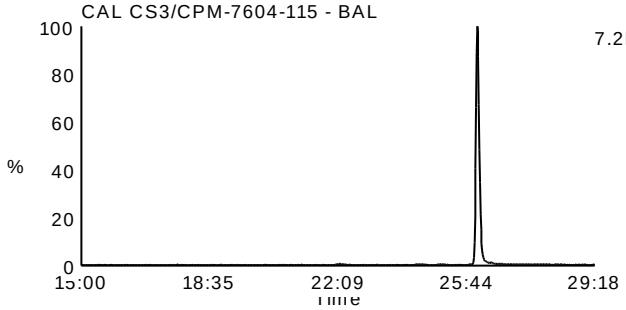
Data File: P110515A_14 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - BAL



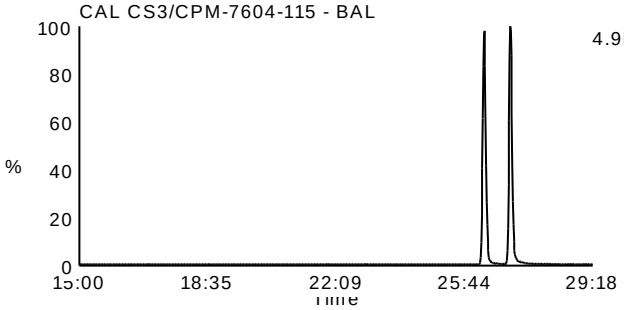
Data File: P110515A_14 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - BAL



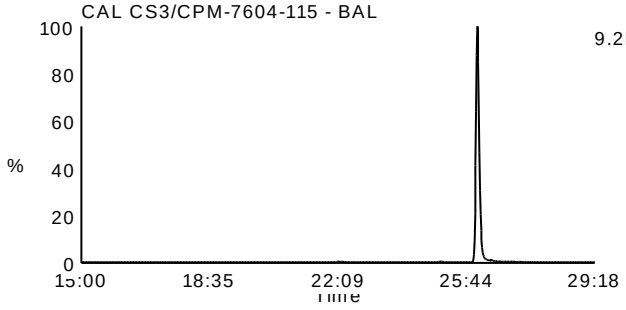
Data File: P110515A 14 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - BAL



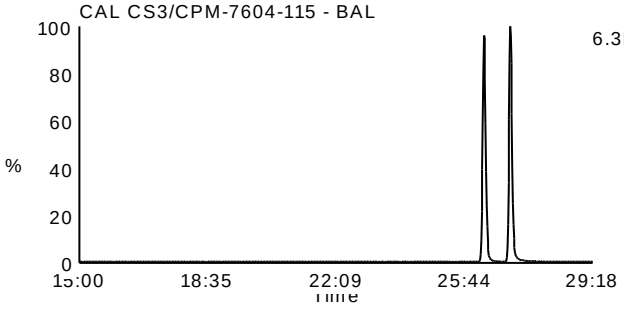
Data File: P110515A 14 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - BAL



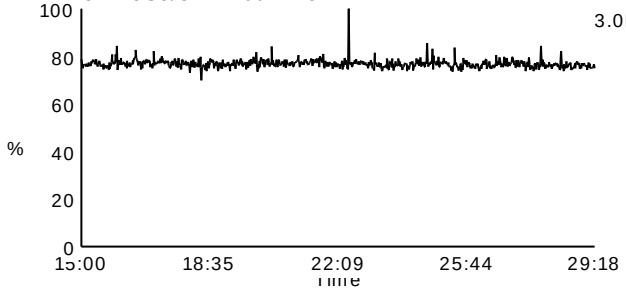
Data File: P110515A_14 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - BAL



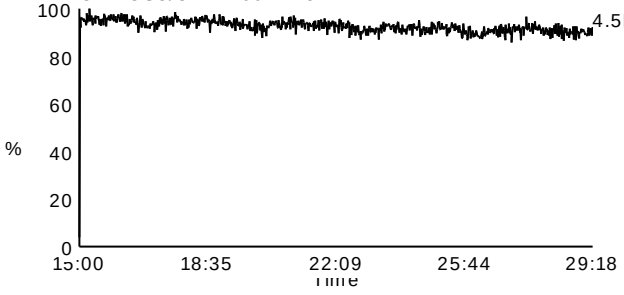
Data File: P110515A_14 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - BAL



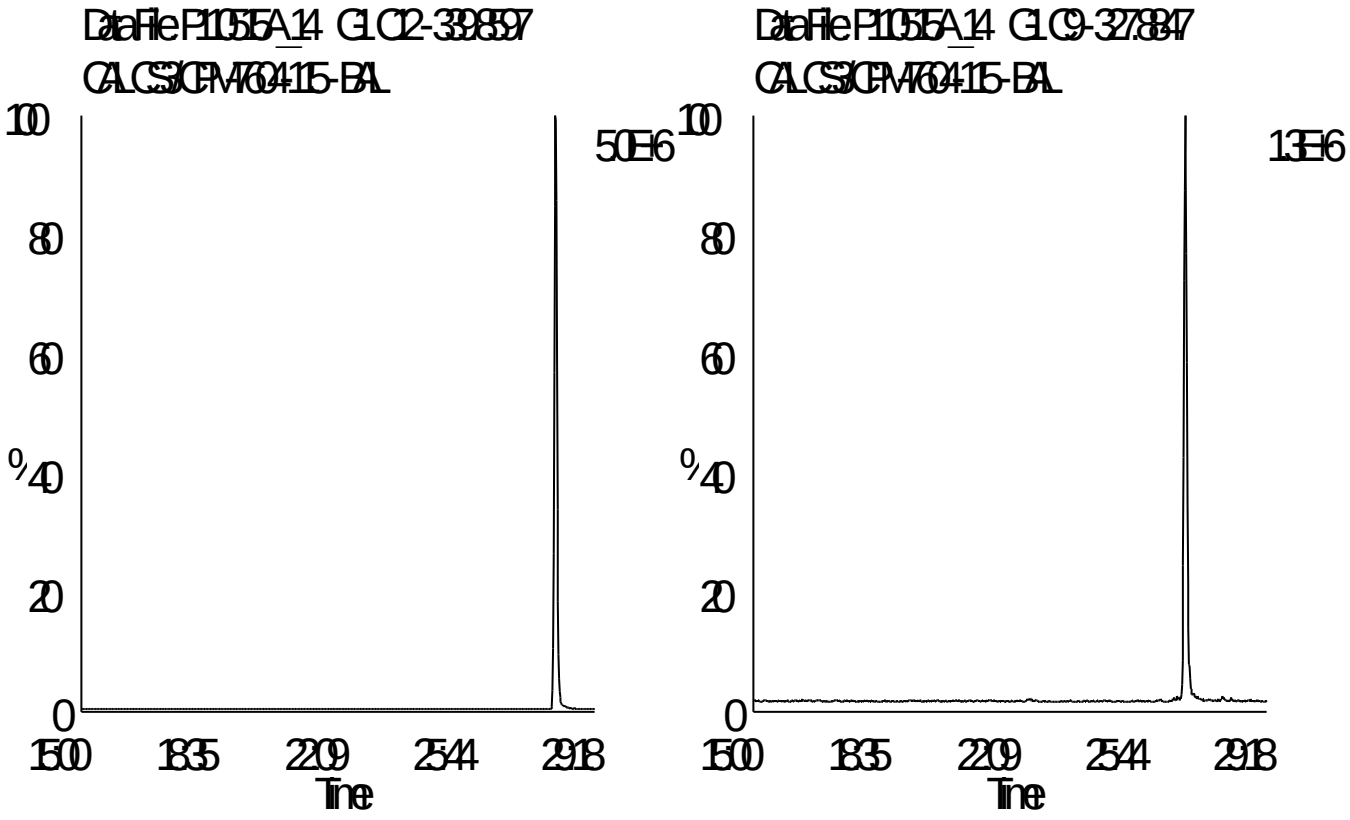
Data File: P110515A_14 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - BAL

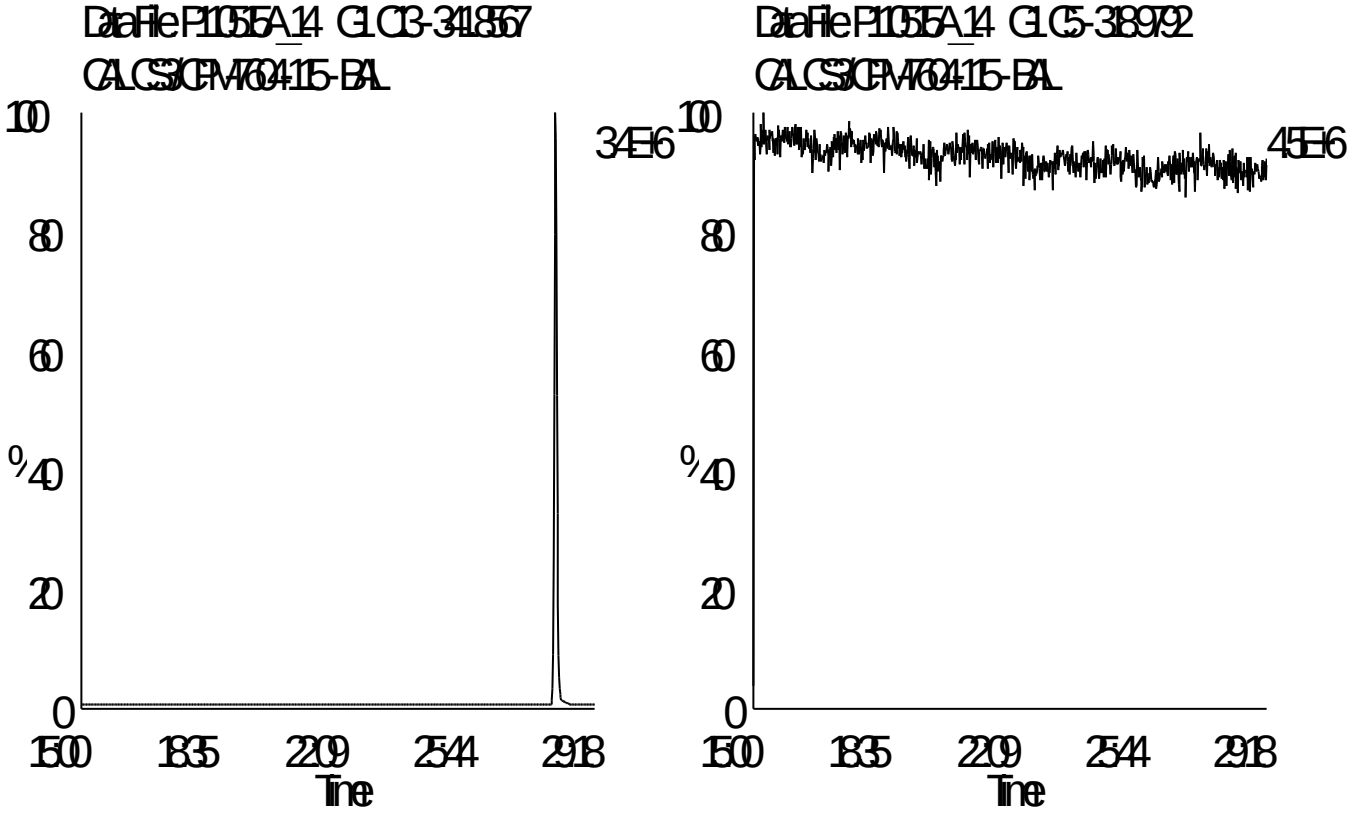


Homologue Group: Penta & Cleanup

Data File Name: P110515A_14
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)



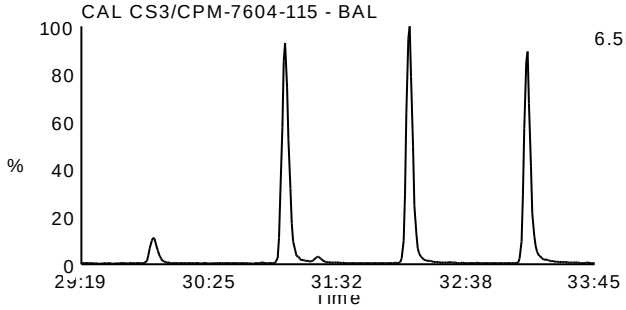


Homologue Group: Pentas

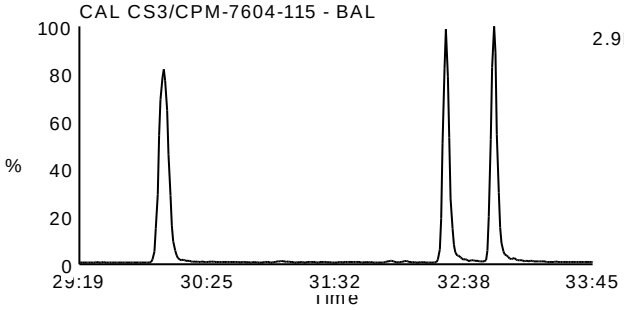
Data File Name: P110515A_14
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

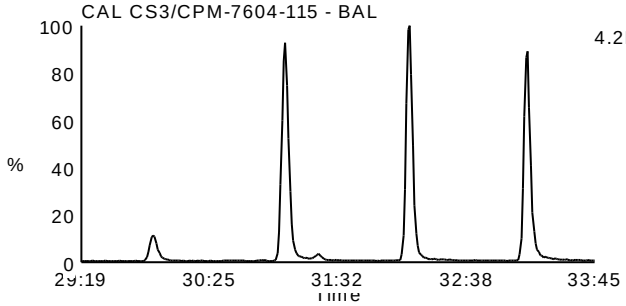
Data File: P110515A 14 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL



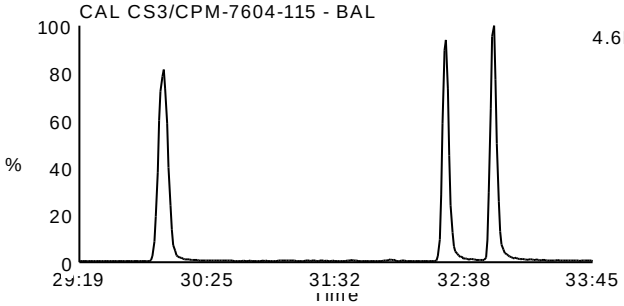
Data File: P110515A 14 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL



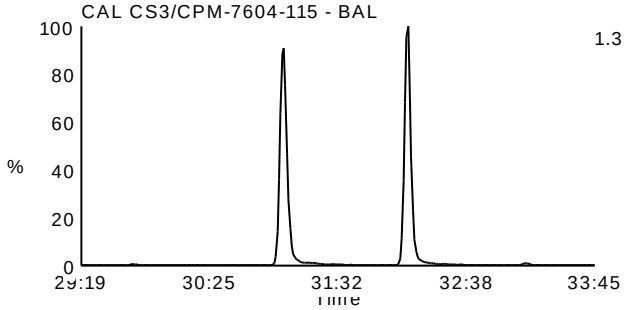
Data File: P110515A_14 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL



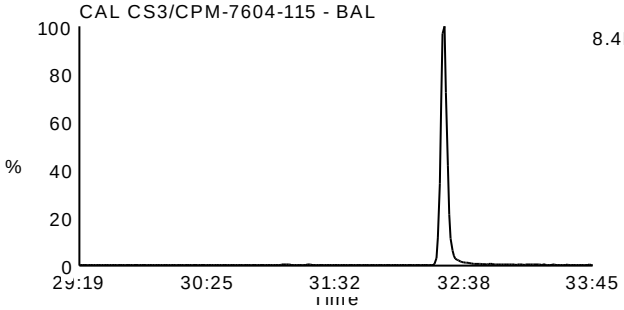
Data File: P110515A_14 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL



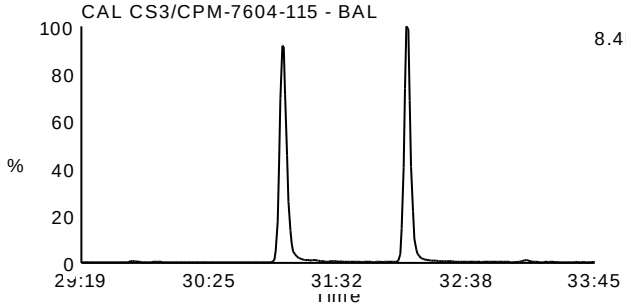
Data File: P110515A 14 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL



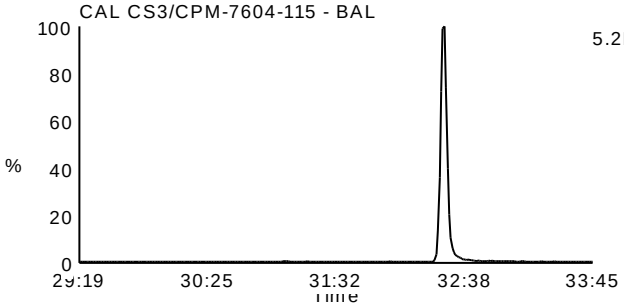
Data File: P110515A 14 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL



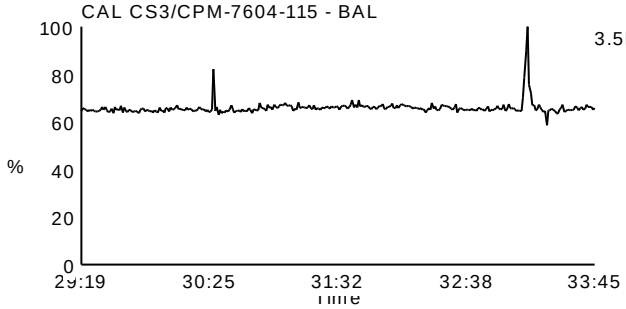
Data File: P110515A_14 G2 C5 - 353.8969
CAL CS3/CPM-7604-115 - BAL



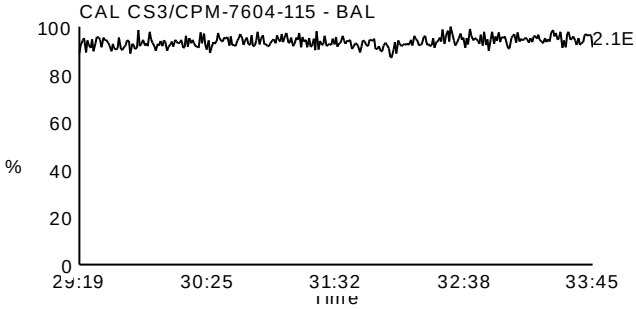
Data File: P110515A_14 G2 C11 - 369.8918
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G2 C12 - 409.7974
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G2 C6 - 354.9792
CAL CS3/CPM-7604-115 - BAL

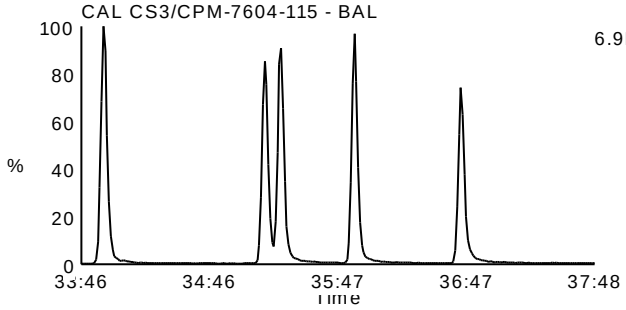


Homologue Group: Hexas

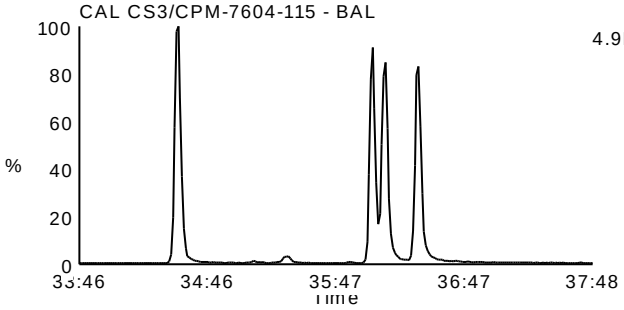
Data File Name: P110515A_14
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

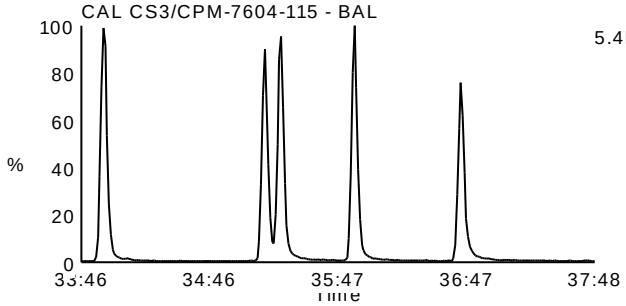
Data File: P110515A 14 G3 C1 - 373.8207
CAL CS3/CPM-7604-115 - BAL



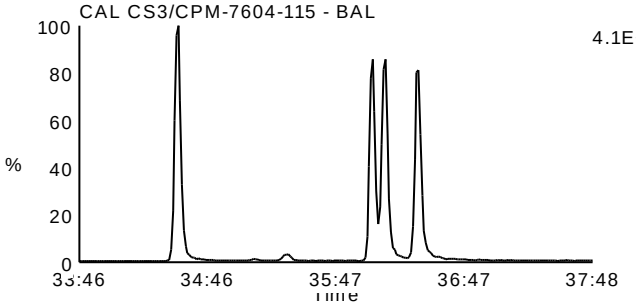
Data File: P110515A 14 G3 C7 - 389.8156
CAL CS3/CPM-7604-115 - BAL



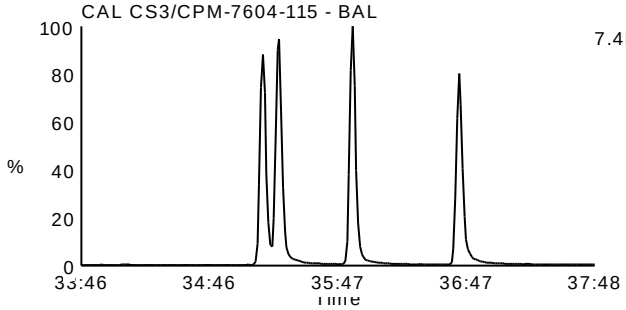
Data File: P110515A_14 G3 C2 - 375.8178
CAL CS3/CPM-7604-115 - BAL



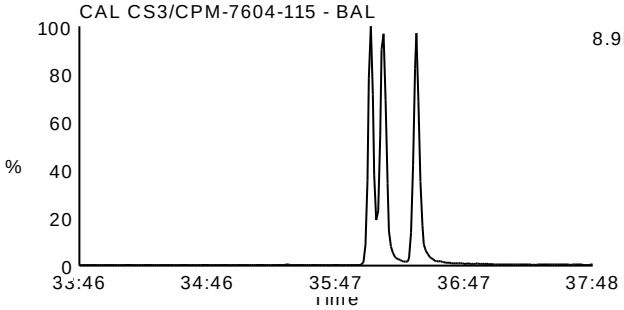
Data File: P110515A_14 G3 C8 - 391.8127
CAL CS3/CPM-7604-115 - BAL



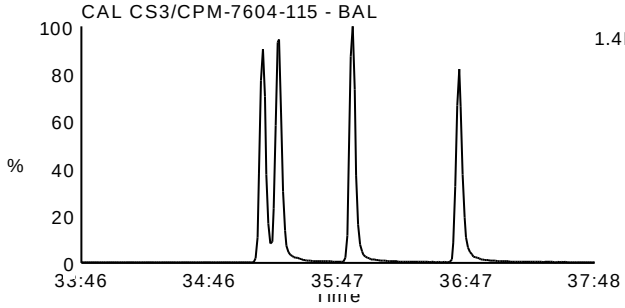
Data File: P110515A 14 G3 C5 - 383.8639
CAL CS3/CPM-7604-115 - BAL



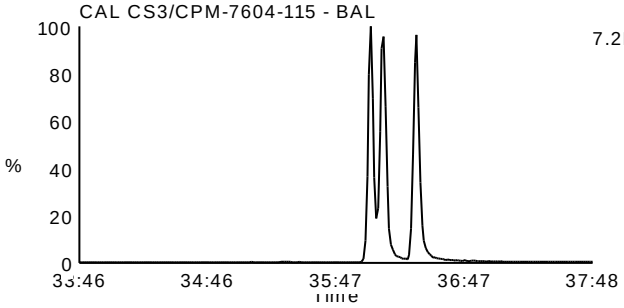
Data File: P110515A 14 G3 C9 - 401.8559
CAL CS3/CPM-7604-115 - BAL



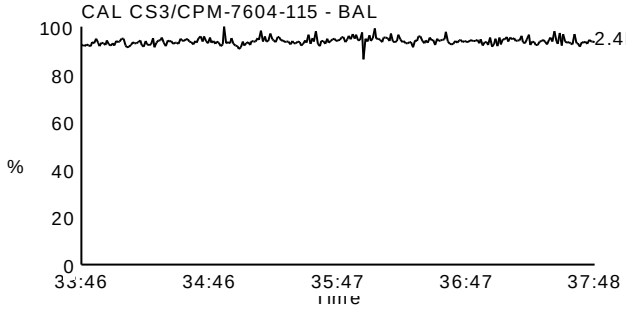
Data File: P110515A_14 G3 C6 - 385.861
CAL CS3/CPM-7604-115 - BAL



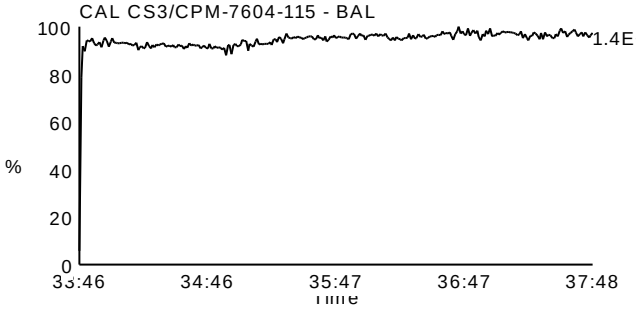
Data File: P110515A_14 G3 C10 - 403.8529
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G3 C11 - 445.7555
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G3 C3 - 380.976
CAL CS3/CPM-7604-115 - BAL

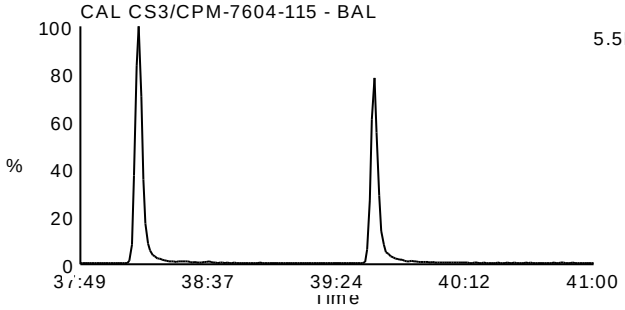


Homologue Group: Heptas

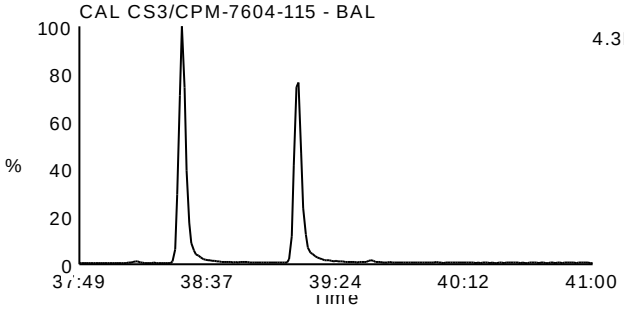
Data File Name: P110515A_14
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

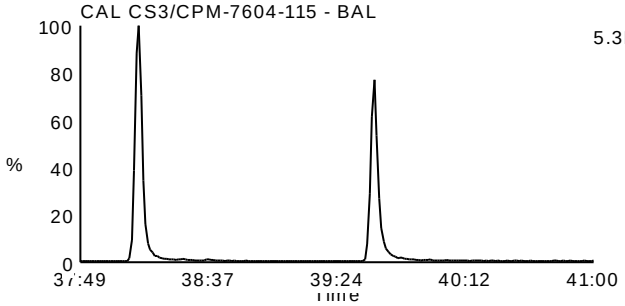
Data File: P110515A 14 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - BAL



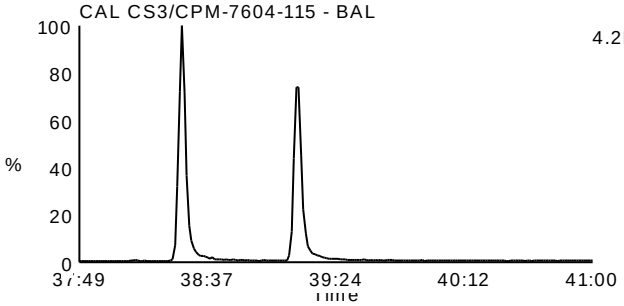
Data File: P110515A 14 G4 C8 - 423.7767
CAL CS3/CPM-7604-115 - BAL



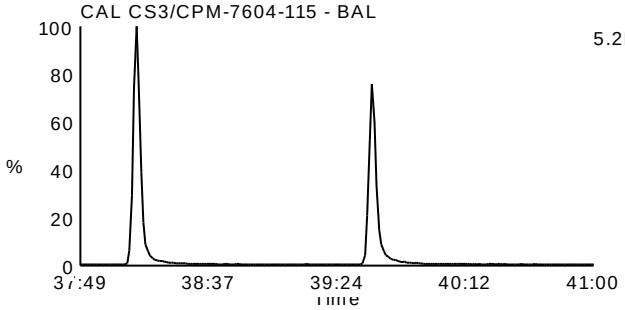
Data File: P110515A_14 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - BAL



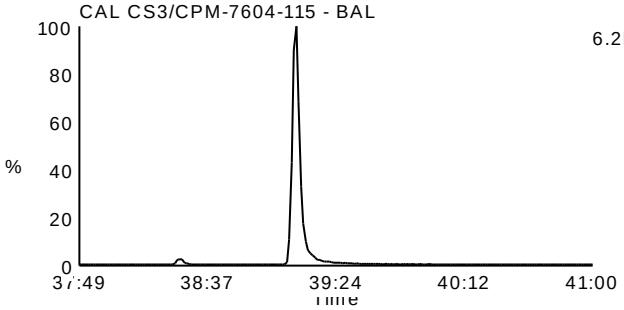
Data File: P110515A_14 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - BAL



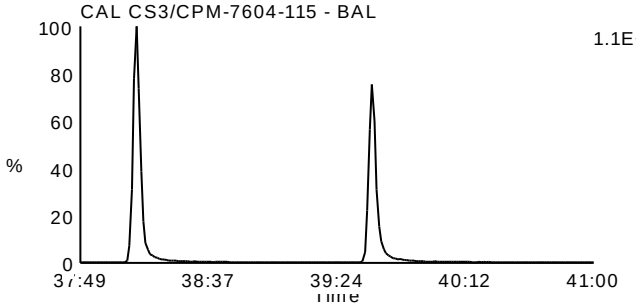
Data File: P110515A 14 G4 C6 - 417.825
CAL CS3/CPM-7604-115 - BAL



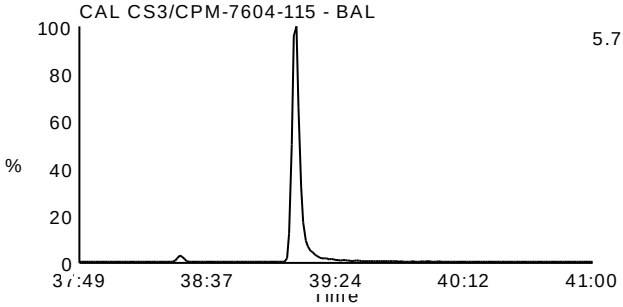
Data File: P110515A 14 G4 C11 - 435.8169
CAL CS3/CPM-7604-115 - BAL



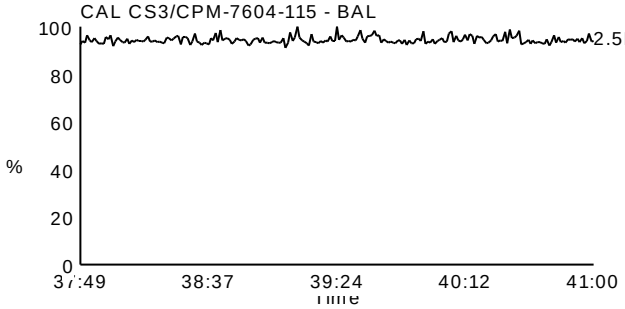
Data File: P110515A_14 G4 C7 - 419.822
CAL CS3/CPM-7604-115 - BAL



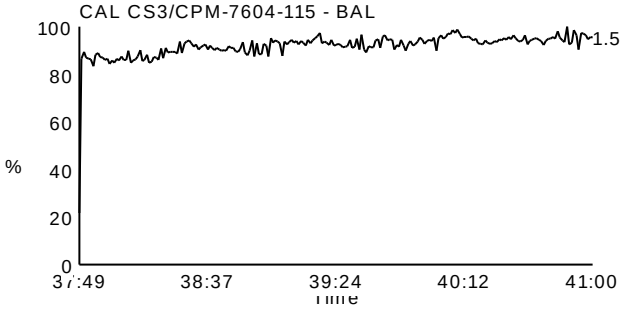
Data File: P110515A_14 G4 C12 - 437.814
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G4 C13 - 479.7165
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - BAL

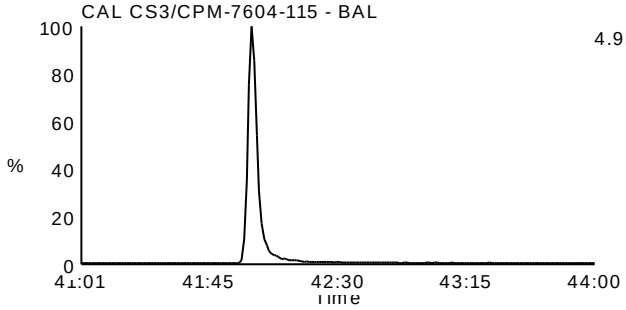


Homologue Group: Octas

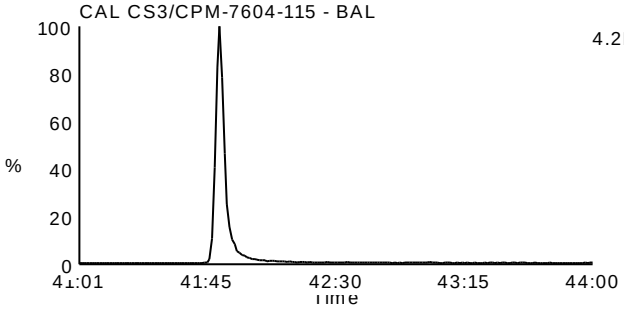
Data File Name: P110515A_14
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR09 (P)

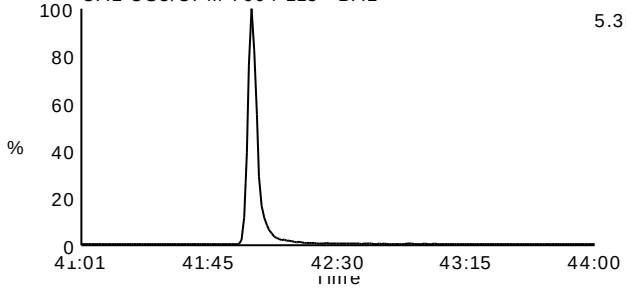
Data File: P110515A 14 G5 C4 - 441.7428
CAL CS3/CPM-7604-115 - BAL



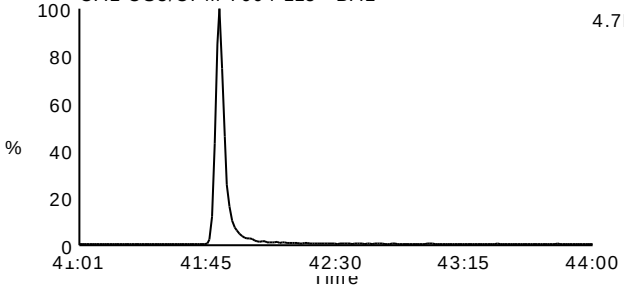
Data File: P110515A 14 G5 C8 - 457.7377
CAL CS3/CPM-7604-115 - BAL



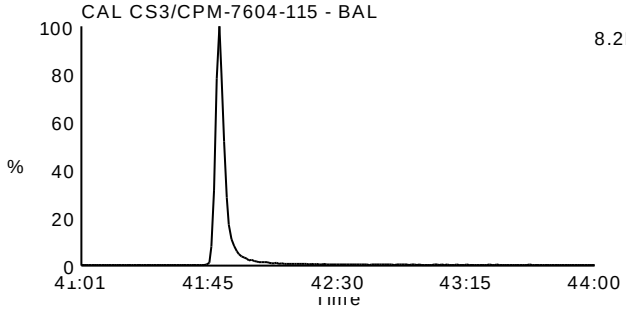
Data File: P110515A_14 G5 C5 - 443.7398
CAL CS3/CPM-7604-115 - BAL



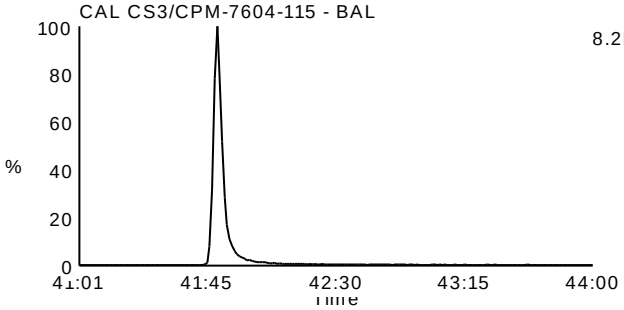
Data File: P110515A_14 G5 C9 - 459.7347
CAL CS3/CPM-7604-115 - BAL



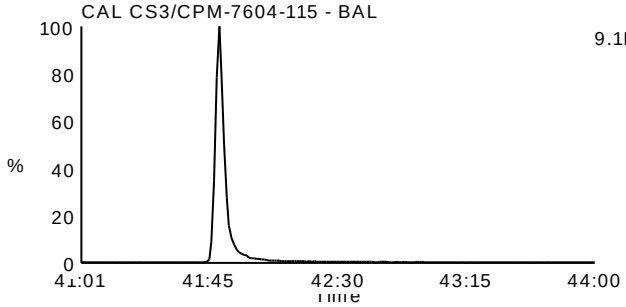
Data File: P110515A 14 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - BAL



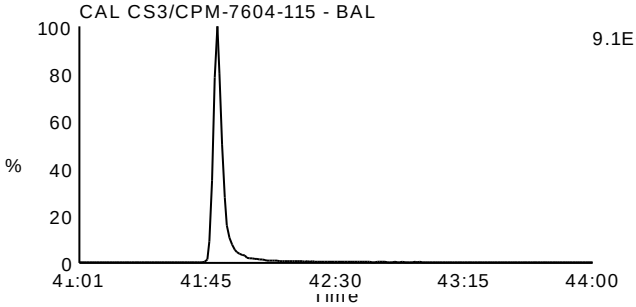
Data File: P110515A 14 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - BAL



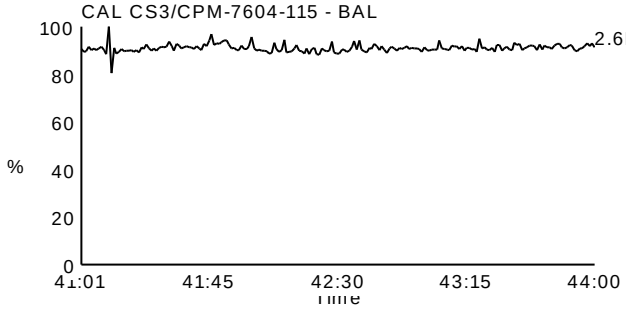
Data File: P110515A_14 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - BAL



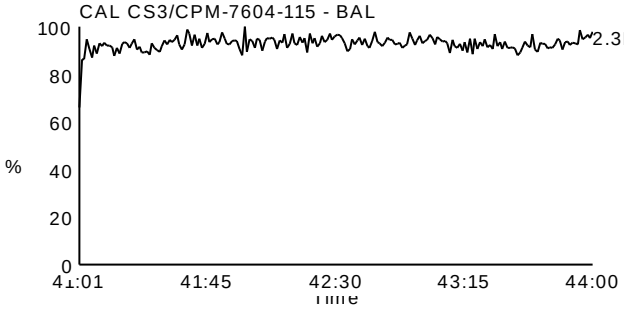
Data File: P110515A_14 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G5 C13 - 513.6775
CAL CS3/CPM-7604-115 - BAL



Data File: P110515A_14 G5 C2 - 430.9728
CAL CS3/CPM-7604-115 - BAL

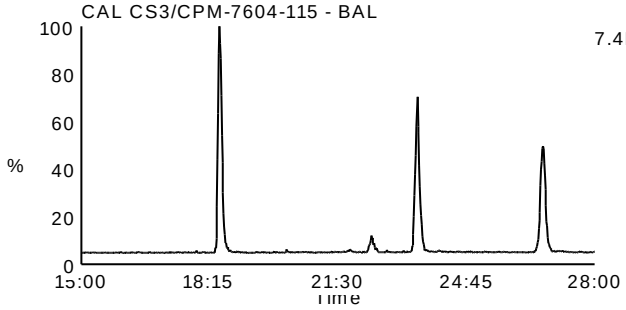


Homologue Group: Tetras

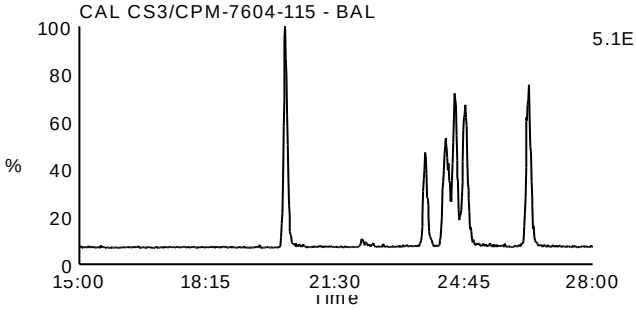
Data File Name: F110515B_15
Date Acquired: 5/16/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

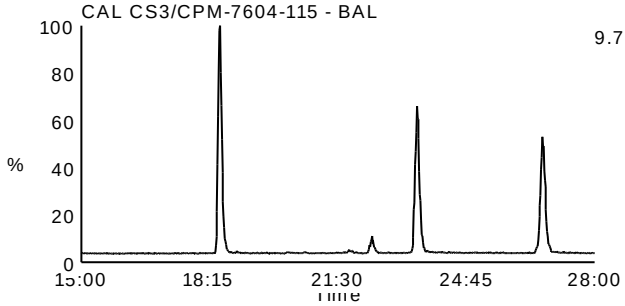
Data File: F110515B 15 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - BAL



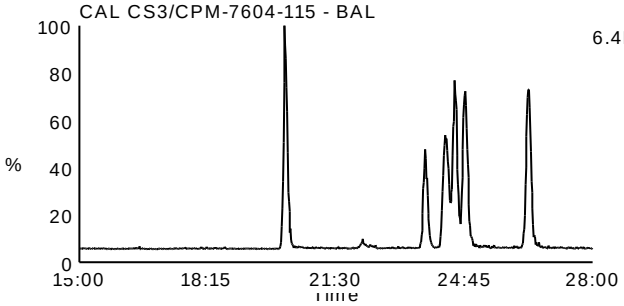
Data File: F110515B 15 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - BAL



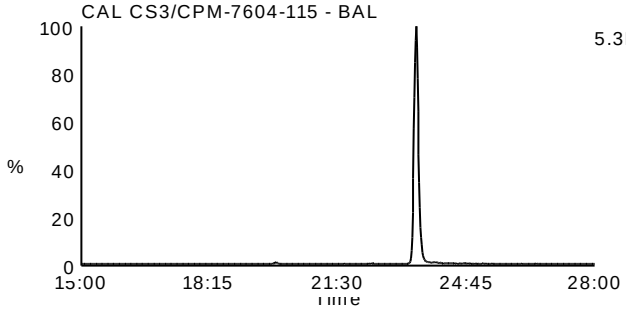
Data File: F110515B_15 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - BAL



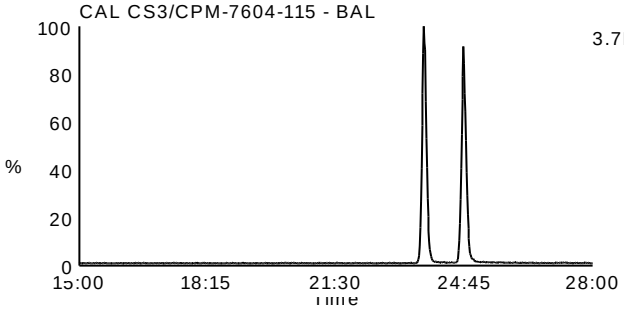
Data File: F110515B_15 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - BAL



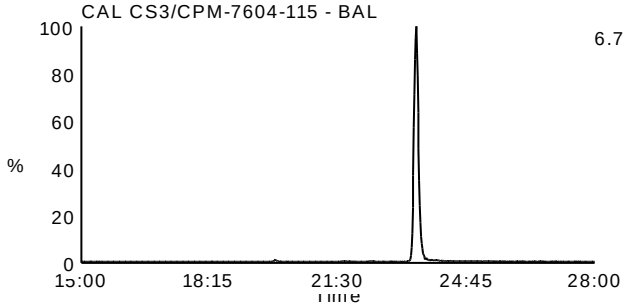
Data File: F110515B 15 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - BAL



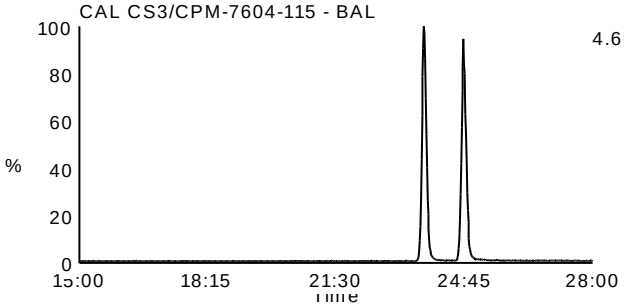
Data File: F110515B 15 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - BAL



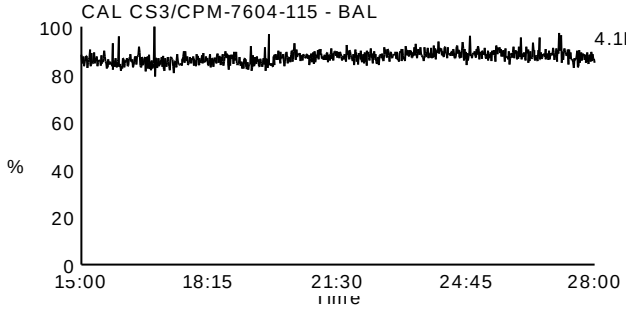
Data File: F110515B_15 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - BAL



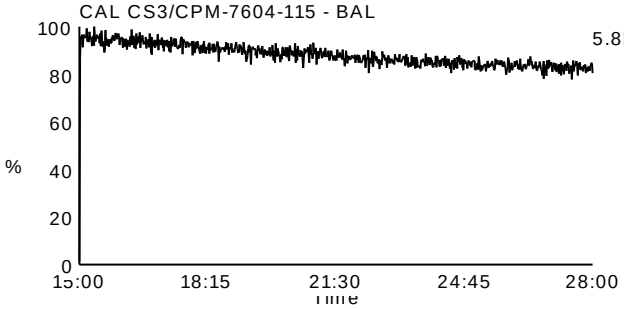
Data File: F110515B_15 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - BAL



Data File: F110515B_15 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - BAL



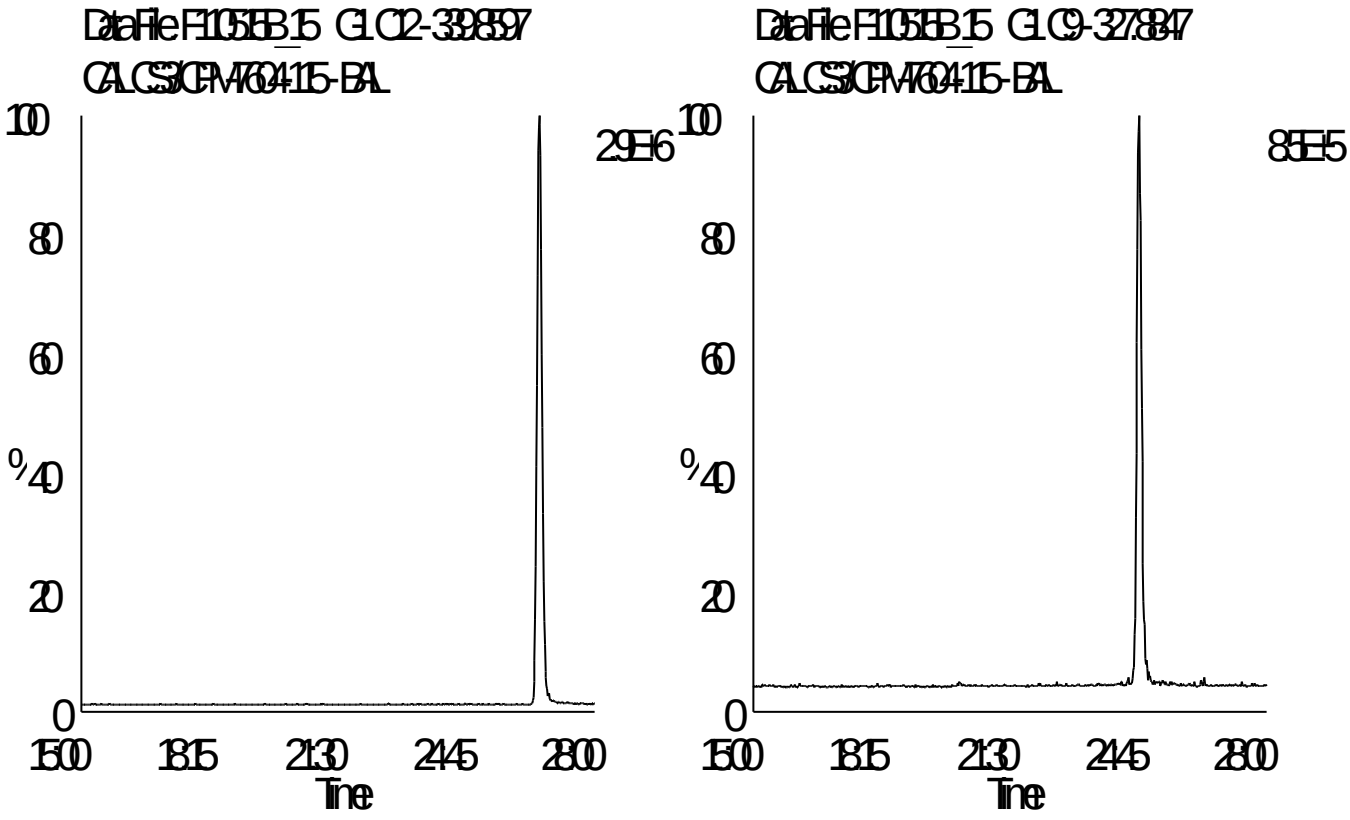
Data File: F110515B_15 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - BAL

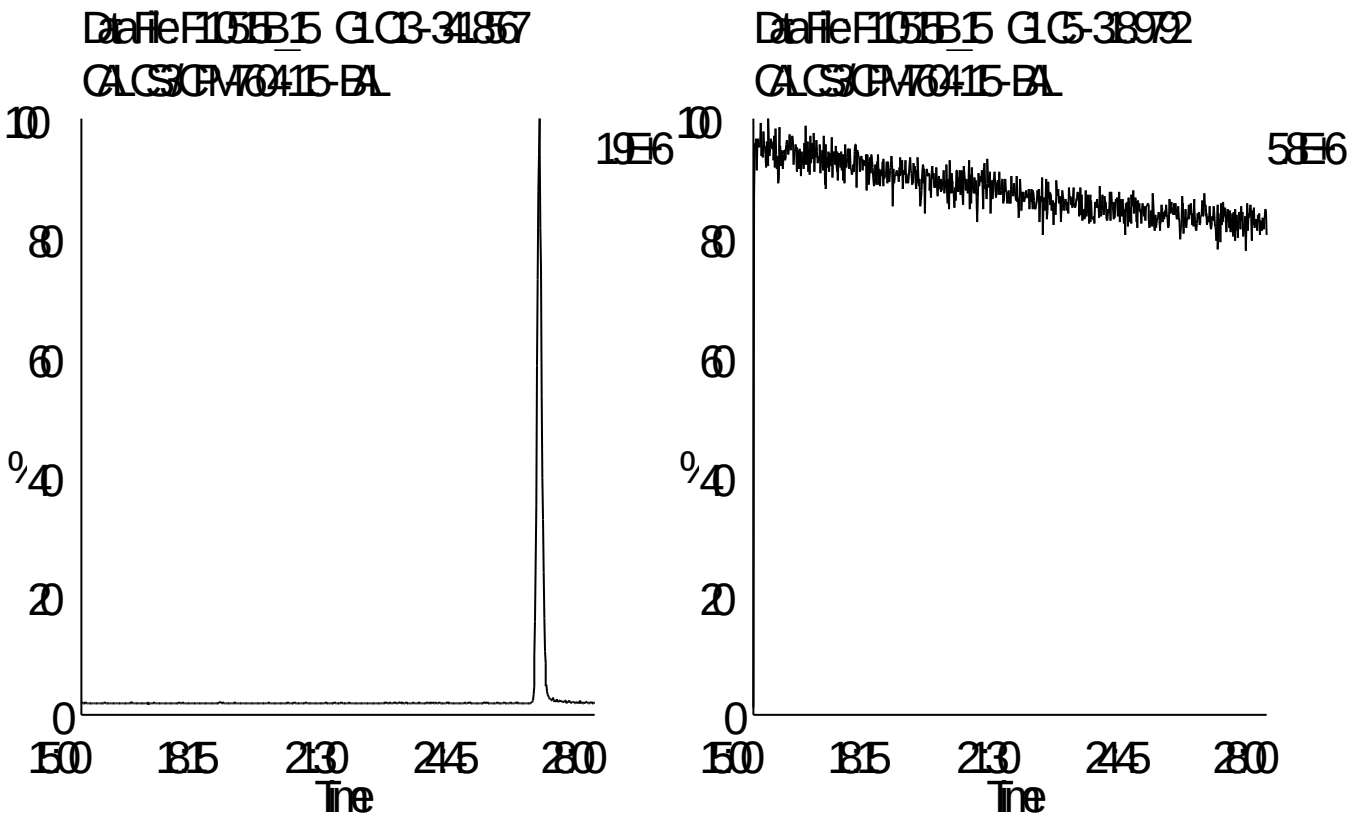


Homologue Group: Penta & Cleanup

Data File Name: F110515B_15
Date Acquired: 5/16/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)



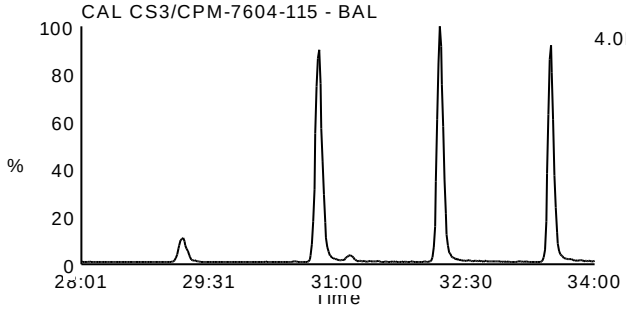


Homologue Group: Pentas

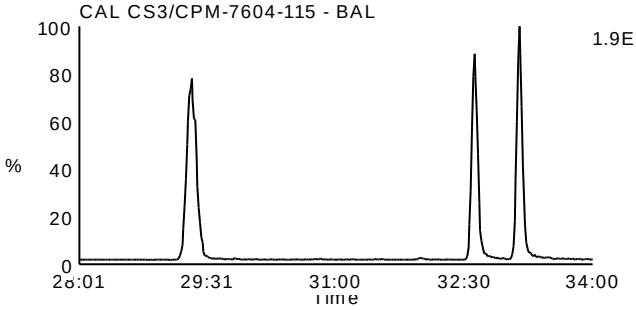
Data File Name: F110515B_15
Date Acquired: 5/16/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

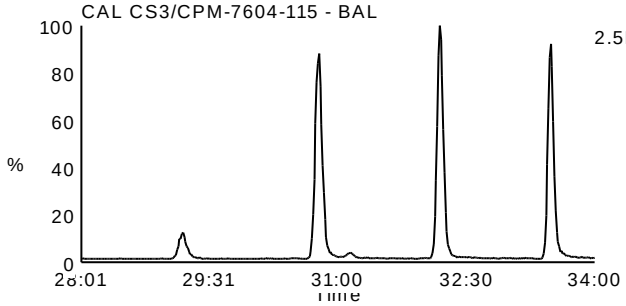
Data File: F110515B 15 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL



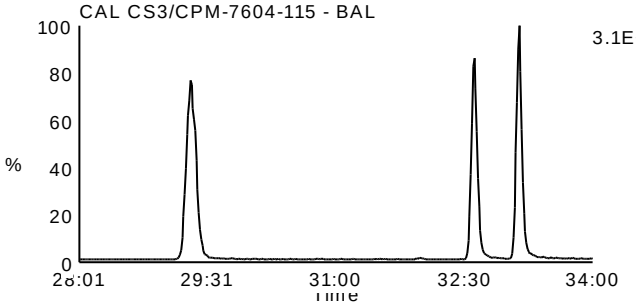
Data File: F110515B 15 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL



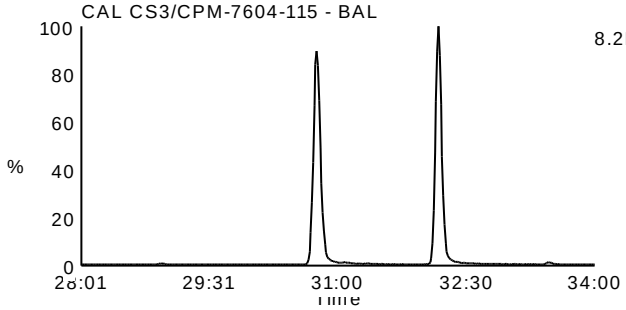
Data File: F110515B_15 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL



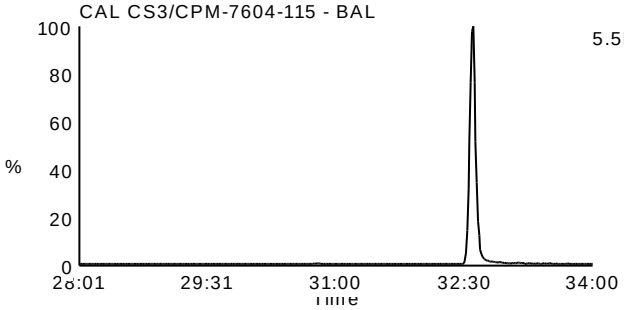
Data File: F110515B_15 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL



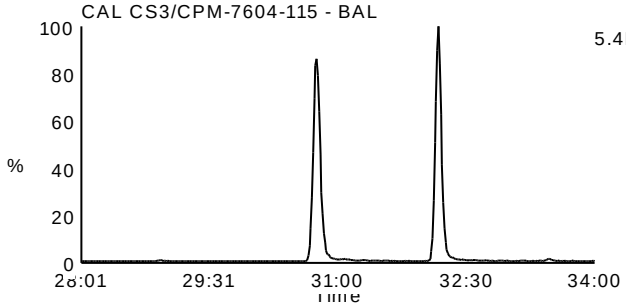
Data File: F110515B 15 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL



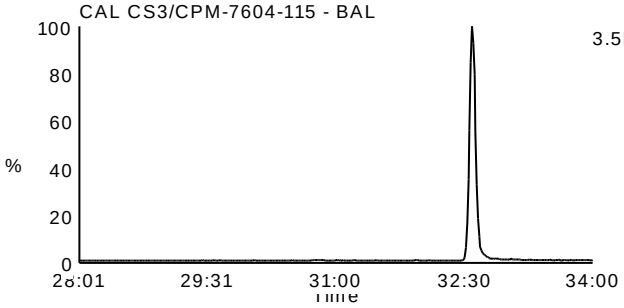
Data File: F110515B 15 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL



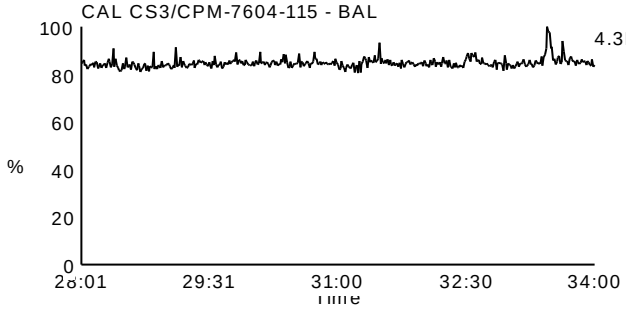
Data File: F110515B_15 G2 C5 - 353.8969
CAL CS3/CPM-7604-115 - BAL



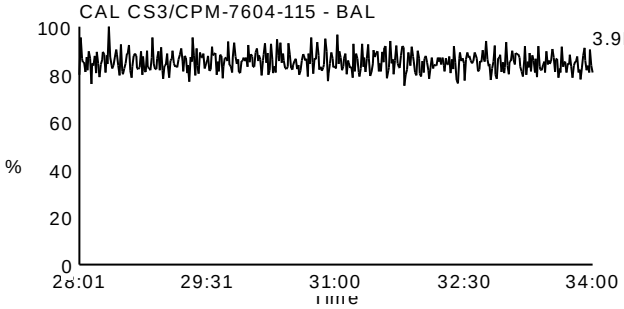
Data File: F110515B_15 G2 C11 - 369.8918
CAL CS3/CPM-7604-115 - BAL



Data File: F110515B_15 G2 C12 - 409.7974
CAL CS3/CPM-7604-115 - BAL



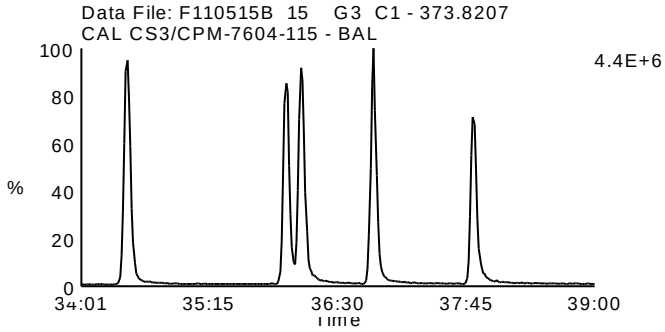
Data File: F110515B_15 G2 C6 - 354.9792
CAL CS3/CPM-7604-115 - BAL

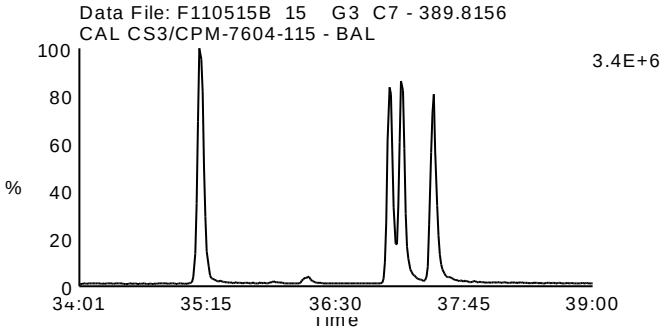


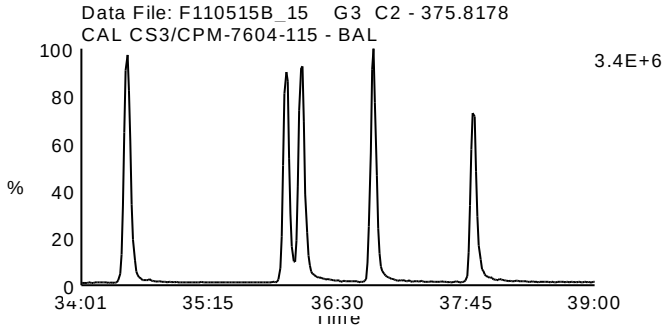
Homologue Group: Hexas

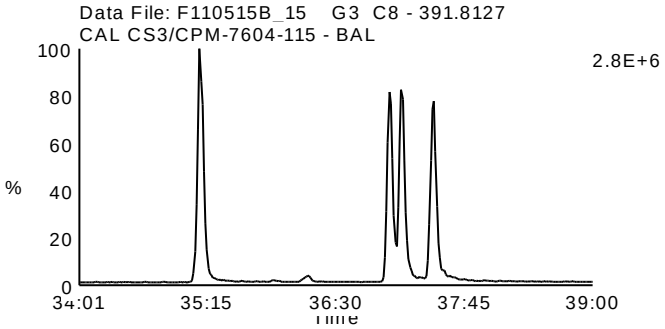
Data File Name: F110515B_15
Date Acquired: 5/16/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

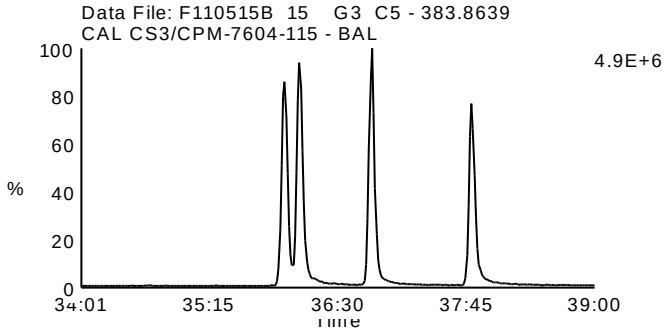
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

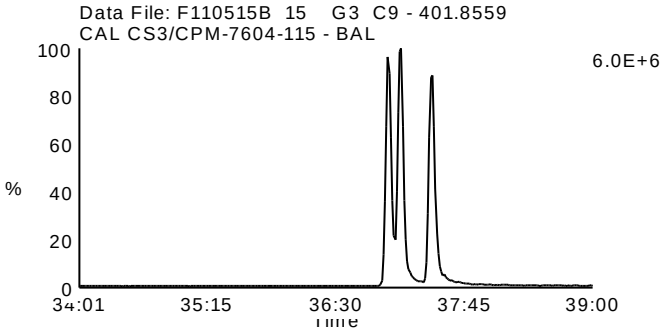


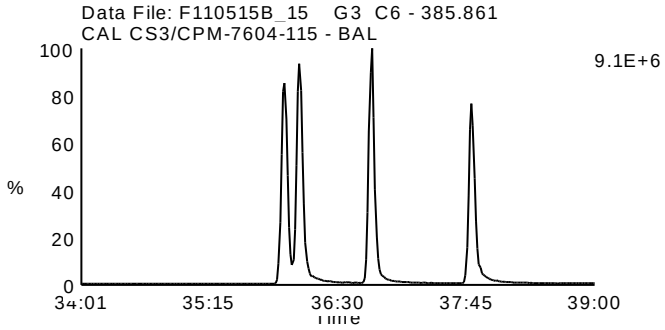


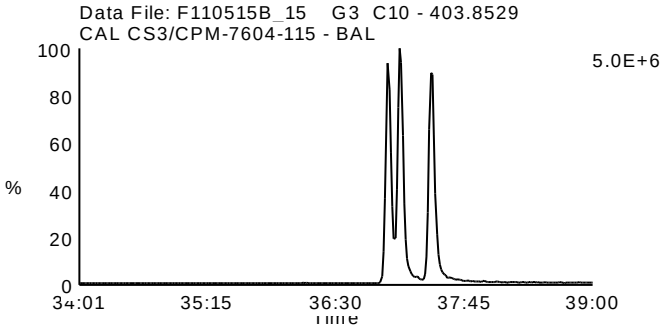


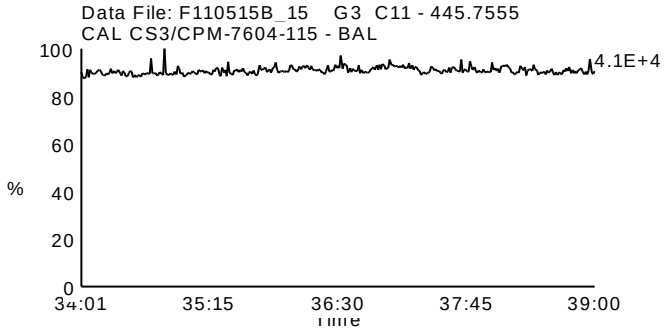


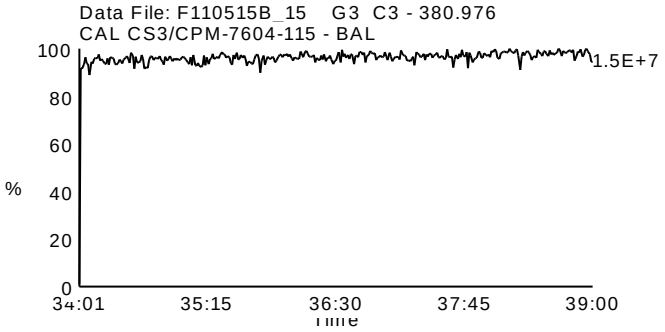










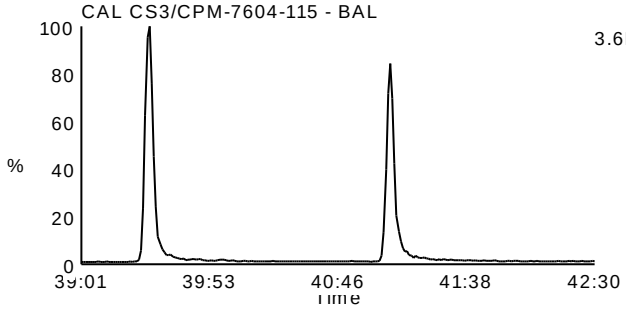


Homologue Group: Heptas

Data File Name: F110515B_15
Date Acquired: 5/16/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

Data File: F110515B 15 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - BAL



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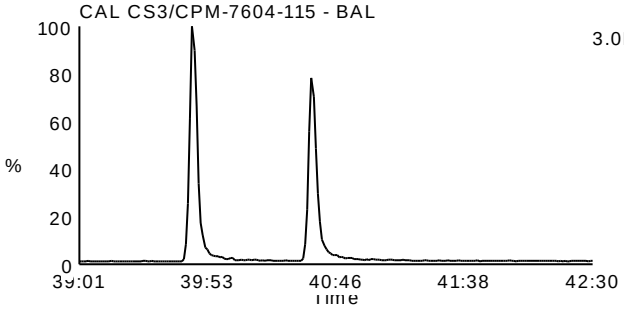
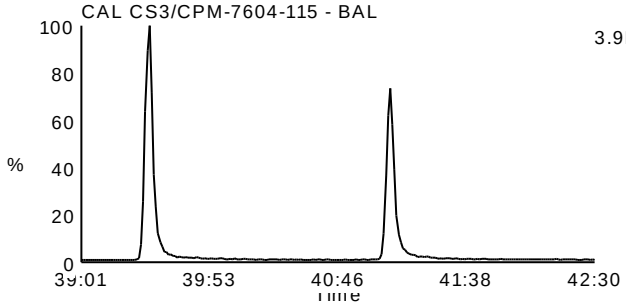
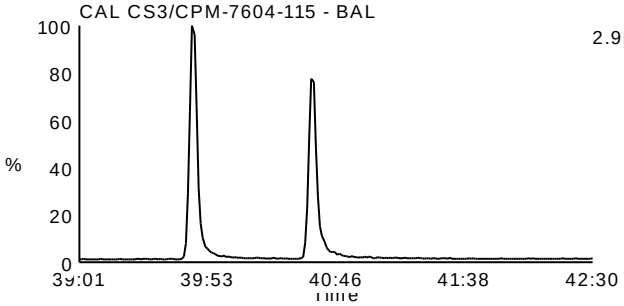
CAL CS3/CPM-7604-115 - BAL



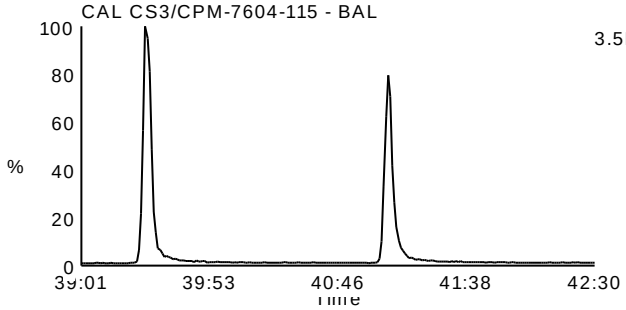
Data File: F110515B_15 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - BAL



Data File: F110515B_15 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - BAL



Data File: F110515B 15 G4 C6 - 417.825
CAL CS3/CPM-7604-115 - BAL



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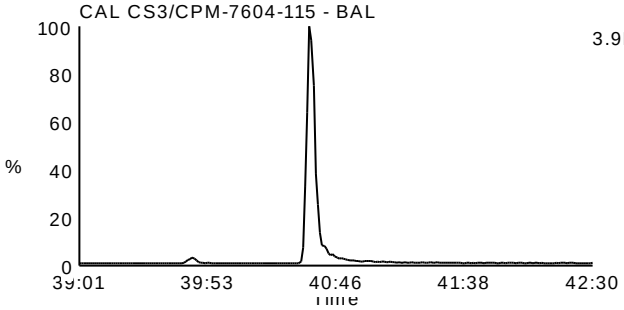
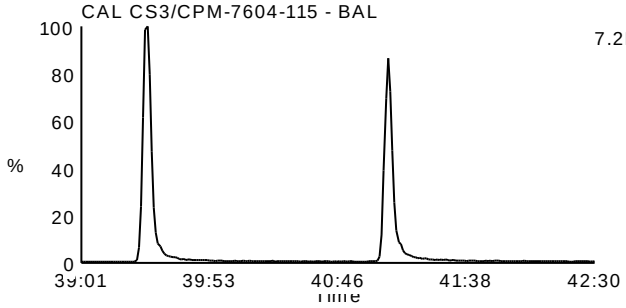
CAL CS3/CPM-7604-115 - BAL



Data File: F110515B_15 G4 C7 - 419.822
CAL CS3/CPM-7604-115 - BAL



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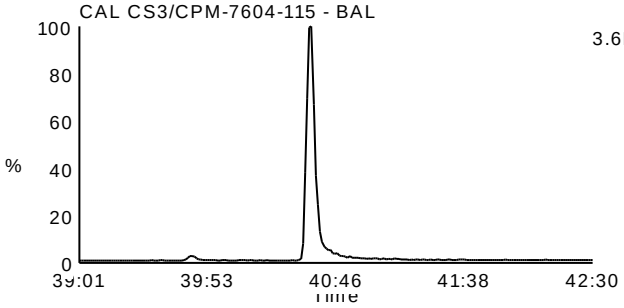
CAL CS3/CPM-7604-115 - BAL



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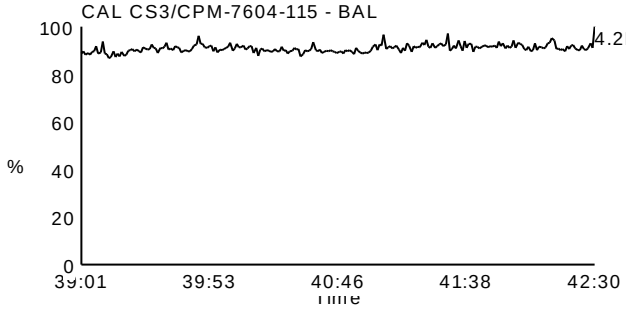
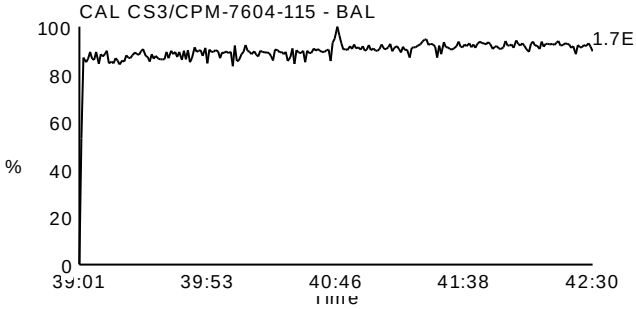
CAL CS3/CPM-7604-115 - BAL



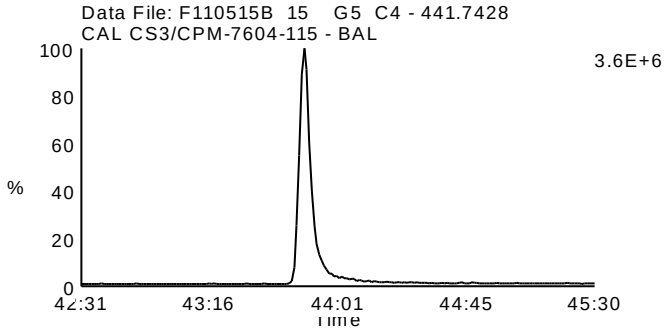
Data File: F110515B_15 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - BAL

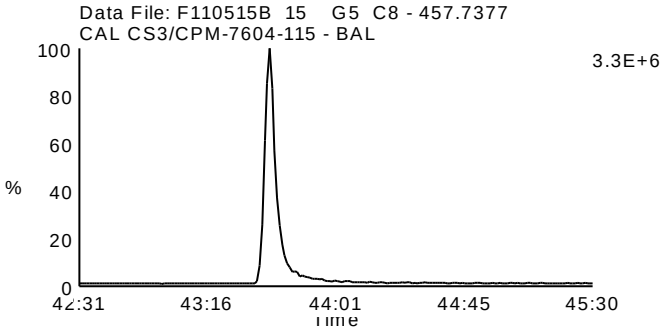


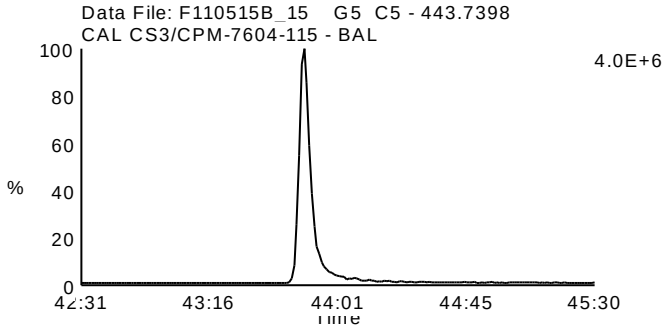
Homologue Group: Octas

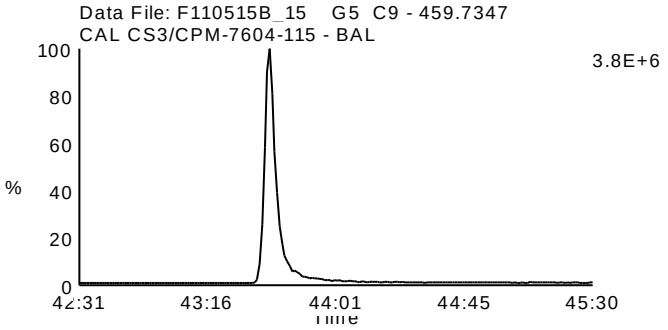
Data File Name: F110515B_15
Date Acquired: 5/16/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

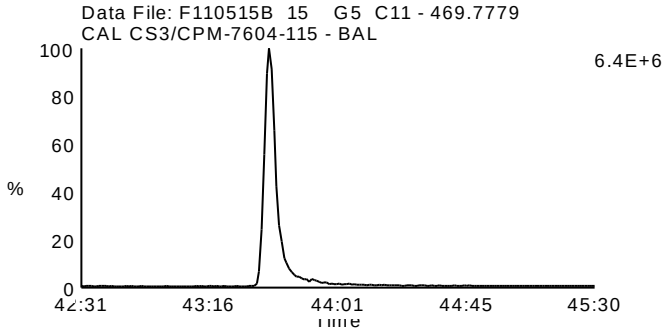
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID:
Instrument: 10MSHR05 (F)

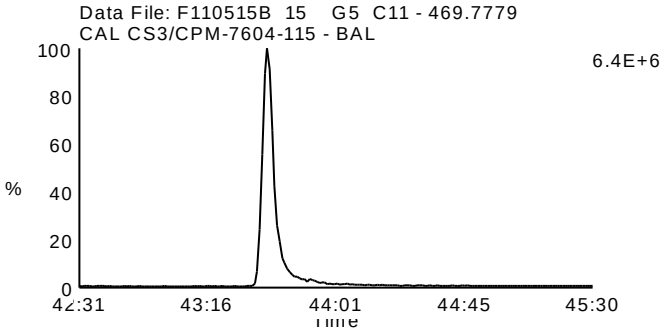


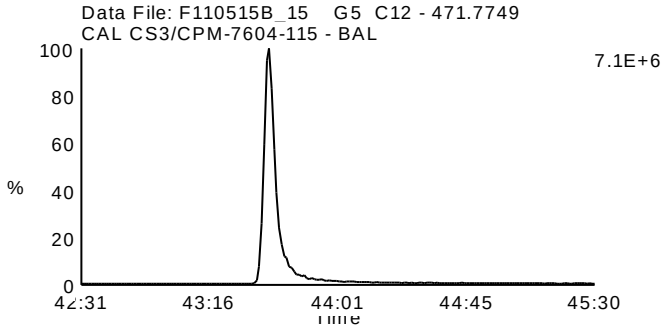


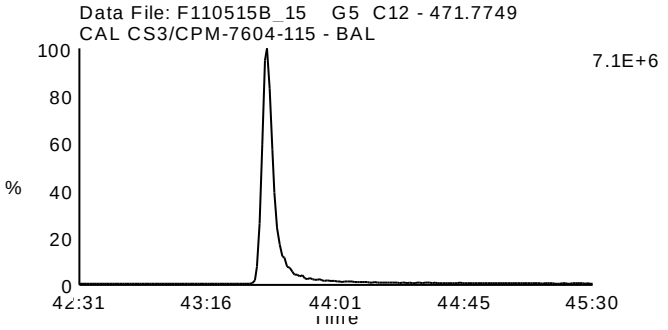


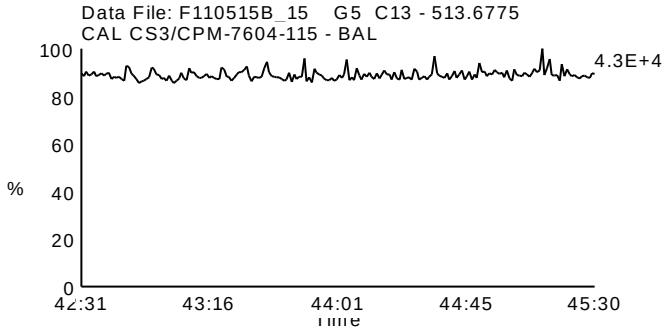


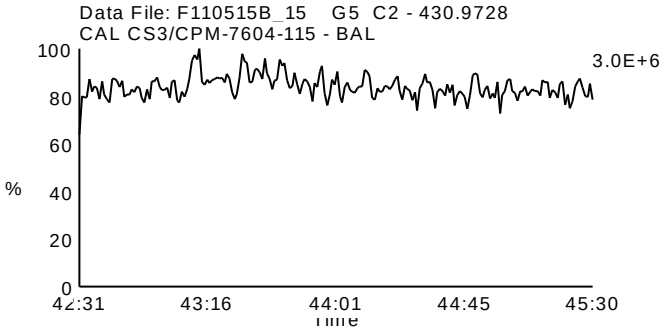












Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS1	Injected By	BAL
Lab ID	CS1-7604-070	Instrument ID	10MSHR05 (F)
Filename	F110501B_04	GC Column ID	USA209122H
Analyzed	05/01/2011 16:32	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:48	1.51e8	1.98e8	2.04e7	2.58e7	-----	-----	0.76	
2,3,7,8-TCDF	24:50	6.73e5	8.50e5	9.49e4	1.31e5	-----	-----	0.79	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	25:07	1.13e8	1.43e8	1.53e7	1.94e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	26:08	1.10e8	1.41e8	1.38e7	1.74e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	26:10	1.41e6		1.76e5		-----	-----		
2,3,7,8-TCDD	26:11	5.34e5	7.22e5	6.84e4	1.11e5	-----	-----	0.74	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:36	1.58e8	1.03e8	2.99e7	2.02e7	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	32:57	1.62e8	1.05e8	3.53e7	2.34e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	31:37	3.63e6	2.42e6	7.79e5	4.69e5	-----	-----	1.50	
2,3,4,7,8-PeCDF	32:57	3.97e6	2.52e6	8.59e5	5.85e5	-----	-----	1.57	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:20	1.18e8	7.42e7	2.56e7	1.59e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	33:22	1.66e6	2.80e6	3.92e5	6.11e5	-----	-----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:35	6.39e7	1.24e8	1.71e7	3.30e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:43	8.26e7	1.57e8	1.80e7	3.47e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:24	7.67e7	1.47e8	1.87e7	3.56e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:22	6.58e7	1.28e8	1.44e7	2.74e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	36:35	3.00e6	2.42e6	8.19e5	6.08e5	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	36:44	3.59e6	2.80e6	8.13e5	6.55e5	-----	-----	1.28	
2,3,4,6,7,8-HxCDF	37:25	3.39e6	2.87e6	8.40e5	7.14e5	-----	-----	1.18	
1,2,3,7,8,9-HxCDF	38:23	2.82e6	2.36e6	6.89e5	5.35e5	-----	-----	1.19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID	CS1	Injected By	BAL
Lab ID	CS1-7604-070	Instrument ID	10MSHR05 (F)
Filename	F110501B_04	GC Column ID	USA209122H
Analyzed	05/01/2011 16:32	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:35	9.29e7	7.48e7	2.47e7	2.03e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	37:41	1.15e8	9.22e7	2.66e7	2.19e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:59	1.16e8	9.17e7	2.45e7	2.00e7	-----	-----	1.26	
1,2,3,4,7,8-HxCDD	37:36	2.22e6	1.78e6	6.13e5	5.06e5	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	37:43	2.73e6	2.22e6	6.17e5	5.36e5	-----	-----	1.23	
1,2,3,7,8,9-HxCDD	38:00	2.74e6	2.11e6	6.10e5	4.76e5	-----	-----	1.30	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:57	6.83e7	1.58e8	1.66e7	3.81e7	-----	-----	0.43	
1,2,3,4,7,8,9-HpCDF-13C	41:35	5.53e7	1.29e8	1.31e7	2.87e7	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	39:57	3.83e6	3.84e6	9.61e5	1.02e6	-----	-----	1.00	
1,2,3,4,7,8,9-HpCDF	41:36	3.25e6	3.04e6	7.46e5	7.14e5	-----	-----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:03	1.01e8	9.41e7	2.33e7	2.19e7	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	41:04	2.66e6	2.47e6	6.88e5	6.11e5	-----	-----	1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:21	4.22e6	4.80e6	8.42e5	9.38e5	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:08	1.62e8	1.84e8	3.04e7	3.36e7	-----	-----	0.88	
OCDD	44:08	4.32e6	4.75e6	8.42e5	9.73e5	-----	-----	0.91	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS2	Injected By	BAL
Lab ID	CS2-7604-077	Instrument ID	10MSHR05 (F)
Filename	F110501B_03	GC Column ID	USA209122H
Analyzed	05/01/2011 15:45	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:48	2.15e8	2.79e8	2.72e7	3.61e7	-----	-----	0.77	
2,3,7,8-TCDF	24:49	3.35e6	4.60e6	4.60e5	6.23e5	-----	-----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	25:07	1.59e8	2.02e8	2.08e7	2.69e7	-----	-----	0.78	
2,3,7,8-TCDD-13C	26:08	1.54e8	1.99e8	1.89e7	2.47e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	26:11	7.73e6		9.83e5		-----	-----		
2,3,7,8-TCDD	26:10	2.83e6	3.97e6	3.65e5	4.90e5	-----	-----	0.71	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:36	2.27e8	1.47e8	4.37e7	2.88e7	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	32:57	2.29e8	1.45e8	4.83e7	3.12e7	-----	-----	1.58	
1,2,3,7,8-PeCDF	31:38	2.01e7	1.33e7	3.81e6	2.55e6	-----	-----	1.52	
2,3,4,7,8-PeCDF	32:58	2.05e7	1.35e7	4.44e6	2.80e6	-----	-----	1.52	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:20	1.65e8	1.06e8	3.46e7	2.24e7	-----	-----	1.56	
1,2,3,7,8-PeCDD	33:22	9.40e6	1.52e7	1.91e6	3.28e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:35	9.05e7	1.76e8	2.42e7	4.76e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:43	1.14e8	2.17e8	2.55e7	4.90e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:24	1.05e8	2.08e8	2.57e7	4.85e7	-----	-----	0.50	
1,2,3,7,8,9-HxCDF-13C	38:22	9.64e7	1.86e8	2.05e7	3.82e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	36:35	1.58e7	1.27e7	4.12e6	3.36e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	36:45	1.90e7	1.55e7	4.32e6	3.58e6	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	37:26	1.77e7	1.46e7	4.45e6	3.68e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDF	38:23	1.47e7	1.19e7	3.23e6	2.70e6	-----	-----	1.24	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Client Name	Onsite Environmental, Inc.		
Client ID	CS2	Injected By	BAL
Lab ID	CS2-7604-077	Instrument ID	10MSHR05 (F)
Filename	F110501B_03	GC Column ID	USA209122H
Analyzed	05/01/2011 15:45	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:35	1.31e8	1.04e8	3.56e7	2.83e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	37:42	1.66e8	1.34e8	3.79e7	3.06e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	37:59	1.64e8	1.31e8	3.39e7	2.84e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	37:36	1.24e7	9.65e6	3.41e6	2.63e6	-----	-----	1.28	
1,2,3,6,7,8-HxCDD	37:43	1.47e7	1.21e7	3.52e6	2.84e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	38:00	1.38e7	1.15e7	3.12e6	2.61e6	-----	-----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:57	1.01e8	2.25e8	2.51e7	5.47e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:35	7.86e7	1.74e8	1.79e7	3.87e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	39:58	2.13e7	2.06e7	5.18e6	4.98e6	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	41:36	1.63e7	1.59e7	3.94e6	3.70e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:04	1.41e8	1.34e8	3.19e7	3.01e7	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	41:05	1.50e7	1.40e7	3.44e6	3.30e6	-----	-----	1.07	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:22	2.31e7	2.54e7	4.19e6	4.69e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:08	2.35e8	2.54e8	4.16e7	4.63e7	-----	-----	0.92	
OCDD	44:08	2.19e7	2.51e7	4.20e6	4.71e6	-----	-----	0.87	

REPORT OF LABORATORY ANALYSIS

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR05 (F)
Filename	F110501B_01	GC Column ID	USA209122H
Analyzed	05/01/2011 14:54	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:48	9.26e7	1.20e8	1.21e7	1.58e7	-----	-----	0.77	
2,3,7,8-TCDF	24:51	7.33e6	9.55e6	1.03e6	1.30e6	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	25:08	6.98e7	8.81e7	8.96e6	1.17e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	26:09	6.61e7	8.64e7	8.36e6	1.08e7	-----	-----	0.76	
2,3,7,8-TCDD-37Cl4	26:11	1.63e7		2.05e6		-----	-----		
2,3,7,8-TCDD	26:11	6.52e6	8.72e6	8.25e5	1.10e6	-----	-----	0.75	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:37	9.78e7	6.29e7	1.82e7	1.19e7	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	32:56	9.89e7	6.47e7	2.00e7	1.32e7	-----	-----	1.53	
1,2,3,7,8-PeCDF	31:38	4.28e7	2.80e7	8.29e6	5.35e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	32:58	4.38e7	2.87e7	9.50e6	5.94e6	-----	-----	1.52	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:20	7.35e7	4.69e7	1.49e7	9.78e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	33:22	2.04e7	3.31e7	4.23e6	6.74e6	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:35	3.99e7	7.78e7	9.99e6	1.93e7	-----	-----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:43	5.11e7	9.84e7	1.07e7	2.04e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:24	4.79e7	9.16e7	1.07e7	2.08e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:21	4.04e7	8.07e7	8.36e6	1.66e7	-----	-----	0.50	
1,2,3,4,7,8-HxCDF	36:36	3.47e7	2.80e7	8.67e6	7.18e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	36:44	4.39e7	3.53e7	9.58e6	7.61e6	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	37:25	4.00e7	3.14e7	9.03e6	7.29e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDF	38:22	3.33e7	2.61e7	6.75e6	5.56e6	-----	-----	1.27	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Tel: 612-607-1700
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Client Name	Onsite Environmental, Inc.		
Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR05 (F)
Filename	F110501B_01	GC Column ID	USA209122H
Analyzed	05/01/2011 14:54	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:34	5.49e7	4.42e7	1.51e7	1.22e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	37:41	7.48e7	6.04e7	1.65e7	1.37e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:60	7.03e7	5.94e7	1.41e7	1.15e7	-----	-----	1.18	
1,2,3,4,7,8-HxCDD	37:35	2.62e7	2.11e7	6.99e6	5.82e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	37:42	3.33e7	2.73e7	7.49e6	6.10e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	38:00	3.20e7	2.58e7	6.39e6	5.18e6	-----	-----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:56	4.16e7	9.11e7	9.96e6	2.18e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:35	3.18e7	6.91e7	6.39e6	1.48e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	39:57	4.01e7	4.07e7	1.02e7	1.02e7	-----	-----	0.99	
1,2,3,4,7,8,9-HpCDF	41:35	3.20e7	3.17e7	6.70e6	6.97e6	-----	-----	1.01	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:03	5.61e7	5.45e7	1.33e7	1.24e7	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	41:04	2.91e7	2.78e7	6.83e6	6.49e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:21	4.84e7	5.30e7	8.75e6	9.81e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:07	9.60e7	1.05e8	1.62e7	1.81e7	-----	-----	0.91	
OCDD	44:08	4.56e7	5.16e7	8.06e6	9.04e6	-----	-----	0.88	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS4	Injected By	BAL
Lab ID	CS4-7604-079	Instrument ID	10MSHR05 (F)
Filename	F110501B_06	GC Column ID	USA209122H
Analyzed	05/01/2011 18:14	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:46	1.61e8	2.11e8	2.07e7	2.73e7	-----	-----	0.76	
2,3,7,8-TCDF	24:48	5.40e7	7.19e7	7.34e6	9.67e6	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	25:05	1.22e8	1.54e8	1.65e7	2.05e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	26:06	1.19e8	1.55e8	1.58e7	1.97e7	-----	-----	0.77	
2,3,7,8-TCDD-37Cl4	26:08	1.21e8		1.53e7		-----	-----		
2,3,7,8-TCDD	26:08	4.65e7	6.10e7	5.76e6	7.77e6	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:35	1.72e8	1.12e8	3.48e7	2.26e7	-----	-----	1.54	
2,3,4,7,8-PeCDF-13C	32:55	1.74e8	1.13e8	3.76e7	2.48e7	-----	-----	1.54	
1,2,3,7,8-PeCDF	31:36	3.14e8	2.04e8	6.45e7	4.14e7	-----	-----	1.54	
2,3,4,7,8-PeCDF	32:57	3.29e8	2.17e8	7.44e7	4.87e7	-----	-----	1.52	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:19	1.28e8	8.15e7	2.78e7	1.76e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	33:20	1.51e8	2.48e8	3.39e7	5.36e7	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:33	7.06e7	1.36e8	1.82e7	3.60e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:42	8.82e7	1.69e8	1.97e7	3.79e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:23	8.18e7	1.62e8	2.01e7	3.81e7	-----	-----	0.50	
1,2,3,7,8,9-HxCDF-13C	38:20	7.37e7	1.44e8	1.61e7	3.13e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	36:35	2.61e8	2.11e8	6.69e7	5.37e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	36:43	3.12e8	2.57e8	7.42e7	5.96e7	-----	-----	1.22	
2,3,4,6,7,8-HxCDF	37:24	2.99e8	2.42e8	7.63e7	6.05e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	38:21	2.57e8	2.07e8	5.54e7	4.56e7	-----	-----	1.24	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Client Name	Onsite Environmental, Inc.		
Client ID	CS4	Injected By	BAL
Lab ID	CS4-7604-079	Instrument ID	10MSHR05 (F)
Filename	F110501B_06	GC Column ID	USA209122H
Analyzed	05/01/2011 18:14	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:33	1.00e8	8.06e7	2.82e7	2.31e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	37:40	1.27e8	1.03e8	3.07e7	2.52e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD-13C	37:58	1.24e8	9.90e7	2.64e7	2.17e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	37:34	1.98e8	1.61e8	5.77e7	4.69e7	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	37:41	2.37e8	1.93e8	5.78e7	4.83e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDD	37:59	2.32e8	1.89e8	5.08e7	4.17e7	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:55	7.66e7	1.67e8	1.97e7	4.38e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:34	6.31e7	1.42e8	1.42e7	3.20e7	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	39:56	3.46e8	3.37e8	8.90e7	8.62e7	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	41:34	2.99e8	2.85e8	6.53e7	6.46e7	-----	-----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:02	1.09e8	1.06e8	2.62e7	2.54e7	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	41:03	2.36e8	2.29e8	5.94e7	5.60e7	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:20	4.35e8	4.84e8	8.52e7	9.51e7	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:07	1.84e8	2.05e8	3.40e7	3.76e7	-----	-----	0.90	
OCDD	44:07	3.82e8	4.41e8	7.40e7	8.43e7	-----	-----	0.87	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS5	Injected By	BAL
Lab ID	CS5-7604-080	Instrument ID	10MSHR05 (F)
Filename	F110501B_05	GC Column ID	USA209122H
Analyzed	05/01/2011 17:27	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:47	2.69e8	3.48e8	3.59e7	4.63e7	-----	-----	0.77	
2,3,7,8-TCDF	24:48	4.35e8	5.68e8	5.87e7	7.58e7	-----	-----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	25:05	1.98e8	2.52e8	2.63e7	3.35e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	26:07	1.97e8	2.53e8	2.45e7	3.18e7	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	26:09	9.74e8		1.20e8		-----	-----		
2,3,7,8-TCDD	26:09	3.73e8	4.88e8	4.64e7	6.04e7	-----	-----	0.77	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:36	2.87e8	1.86e8	5.81e7	3.72e7	-----	-----	1.55	
2,3,4,7,8-PeCDF-13C	32:56	2.90e8	1.87e8	6.17e7	3.97e7	-----	-----	1.55	
1,2,3,7,8-PeCDF	31:37	2.50e9	1.62e9	4.73e8	3.14e8	-----	-----	1.54	
2,3,4,7,8-PeCDF	32:57	2.65e9	1.69e9	5.62e8	3.61e8	-----	-----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:20	2.14e8	1.39e8	4.54e7	3.03e7	-----	-----	1.54	
1,2,3,7,8-PeCDD	33:21	1.21e9	1.97e9	2.62e8	4.29e8	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:34	1.19e8	2.26e8	3.01e7	5.80e7	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	36:42	1.46e8	2.88e8	3.32e7	6.47e7	-----	-----	0.51	
2,3,4,6,7,8-HxCDF-13C	37:23	1.38e8	2.65e8	3.32e7	6.46e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:21	1.26e8	2.47e8	2.91e7	5.59e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	36:35	2.06e9	1.67e9	5.38e8	4.29e8	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	36:44	2.50e9	2.01e9	5.81e8	4.57e8	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	37:25	2.38e9	1.92e9	5.79e8	4.56e8	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	38:22	2.12e9	1.68e9	4.72e8	3.84e8	-----	-----	1.26	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID	CS5	Injected By	BAL
Lab ID	CS5-7604-080	Instrument ID	10MSHR05 (F)
Filename	F110501B_05	GC Column ID	USA209122H
Analyzed	05/01/2011 17:27	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:34	1.74e8	1.40e8	4.78e7	3.85e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:41	2.13e8	1.75e8	5.33e7	4.34e7	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	37:58	2.11e8	1.69e8	4.51e7	3.75e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	37:35	1.59e9	1.29e9	4.54e8	3.68e8	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	37:42	1.85e9	1.52e9	4.62e8	3.81e8	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	37:59	1.92e9	1.57e9	4.21e8	3.43e8	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:56	1.29e8	2.88e8	3.40e7	7.43e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:34	1.12e8	2.50e8	2.54e7	5.66e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	39:57	2.70e9	2.62e9	7.18e8	6.94e8	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	41:35	2.35e9	2.30e9	5.46e8	5.37e8	-----	-----	1.02	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:03	1.90e8	1.81e8	4.59e7	4.40e7	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	41:04	1.94e9	1.85e9	4.75e8	4.43e8	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:22	3.48e9	3.89e9	6.95e8	7.68e8	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:08	3.26e8	3.61e8	5.93e7	6.56e7	-----	-----	0.90	
OCDD	44:08	3.15e9	3.59e9	5.71e8	6.53e8	-----	-----	0.88	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS1	Injected By	SMT
Lab ID	CS1-7604-070	Instrument ID	10MSHR09 (P)
Filename	P110413A_03	GC Column ID	USA260032H
Analyzed	04/13/2011 04:20	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:09	1.49e8	1.90e8	2.52e7	3.18e7	-----	-----	0.79	
2,3,7,8-TCDF	26:10	7.16e5	9.87e5	1.30e5	1.59e5	-----	-----	0.72	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:22	9.26e7	1.18e8	1.67e7	2.12e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	27:06	9.42e7	1.18e8	1.70e7	2.13e7	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	27:08	1.27e6		2.33e5		-----	-----		
2,3,7,8-TCDD	27:08	5.27e5	6.93e5	9.35e4	1.35e5	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:07	1.64e8	1.04e8	3.85e7	2.47e7	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	32:11	1.69e8	1.06e8	4.39e7	2.72e7	-----	-----	1.60	
1,2,3,7,8-PeCDF	31:08	4.25e6	2.70e6	1.01e6	6.47e5	-----	-----	1.58	
2,3,4,7,8-PeCDF	32:12	4.65e6	2.97e6	1.26e6	8.35e5	-----	-----	1.57	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:30	1.09e8	6.92e7	2.85e7	1.82e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	32:32	1.92e6	3.04e6	5.01e5	8.09e5	-----	-----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:13	7.31e7	1.41e8	2.21e7	4.29e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:21	8.46e7	1.62e8	2.42e7	4.60e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:55	8.12e7	1.56e8	2.49e7	4.79e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	36:45	7.49e7	1.43e8	2.15e7	4.10e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	35:14	3.80e6	3.13e6	1.12e6	9.35e5	-----	-----	1.21	
1,2,3,6,7,8-HxCDF	35:21	4.26e6	3.43e6	1.23e6	9.94e5	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	35:56	4.11e6	3.32e6	1.32e6	9.68e5	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	36:46	3.76e6	3.01e6	1.07e6	8.32e5	-----	-----	1.25	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID	CS1	Injected By	SMT
Lab ID	CS1-7604-070	Instrument ID	10MSHR09 (P)
Filename	P110413A_03	GC Column ID	USA260032H
Analyzed	04/13/2011 04:20	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:05	9.30e7	7.35e7	3.16e7	2.47e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	36:11	1.08e8	8.59e7	3.05e7	2.41e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	36:26	1.06e8	8.45e7	2.99e7	2.31e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	36:06	2.81e6	2.17e6	9.23e5	7.35e5	-----	-----	1.30	
1,2,3,6,7,8-HxCDD	36:11	3.18e6	2.42e6	8.56e5	7.09e5	-----	-----	1.31	
1,2,3,7,8,9-HxCDD	36:27	2.91e6	2.39e6	8.43e5	6.87e5	-----	-----	1.22	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:11	5.95e7	1.34e8	1.75e7	4.02e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:38	4.95e7	1.10e8	1.51e7	3.36e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	38:11	3.81e6	3.78e6	1.19e6	1.21e6	-----	-----	1.01	
1,2,3,4,7,8,9-HpCDF	39:39	3.10e6	2.95e6	9.04e5	8.85e5	-----	-----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:10	8.38e7	7.74e7	2.58e7	2.39e7	-----	-----	1.08	
1,2,3,4,6,7,8-HpCDD	39:11	2.59e6	2.50e6	7.74e5	8.00e5	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	42:01	4.64e6	4.98e6	1.15e6	1.23e6	-----	-----	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:48	1.35e8	1.52e8	3.42e7	3.92e7	-----	-----	0.89	
OCDD	41:49	4.02e6	4.50e6	1.01e6	1.18e6	-----	-----	0.89	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS2	Injected By	SMT
Lab ID	CS2-7604-077	Instrument ID	10MSHR09 (P)
Filename	P110413A_02	GC Column ID	USA260032H
Analyzed	04/13/2011 03:34	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:08	2.01e8	2.51e8	3.28e7	4.12e7	-----	-----	0.80	
2,3,7,8-TCDF	26:10	3.68e6	5.00e6	6.89e5	8.10e5	-----	-----	0.74	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:22	1.26e8	1.57e8	2.19e7	2.71e7	-----	-----	0.80	
2,3,7,8-TCDD-13C	27:05	1.25e8	1.59e8	2.26e7	2.87e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	27:07	6.58e6		1.25e6		-----	-----		
2,3,7,8-TCDD	27:07	2.85e6	3.62e6	5.09e5	6.39e5	-----	-----	0.79	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:07	2.32e8	1.47e8	5.72e7	3.61e7	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	32:10	2.32e8	1.48e8	6.27e7	4.07e7	-----	-----	1.57	
1,2,3,7,8-PeCDF	31:08	2.28e7	1.44e7	5.68e6	3.60e6	-----	-----	1.58	
2,3,4,7,8-PeCDF	32:11	2.34e7	1.51e7	6.10e6	4.00e6	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:30	1.50e8	9.42e7	3.98e7	2.47e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	32:31	9.85e6	1.60e7	2.49e6	4.20e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:13	9.88e7	1.89e8	3.03e7	5.93e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:21	1.11e8	2.13e8	3.15e7	5.93e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:55	1.07e8	2.06e8	3.26e7	6.08e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	36:45	1.01e8	1.91e8	2.77e7	5.18e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	35:14	1.86e7	1.51e7	5.73e6	4.63e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	35:21	2.05e7	1.63e7	5.98e6	4.62e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	35:56	1.99e7	1.60e7	6.00e6	4.97e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	36:46	1.75e7	1.37e7	5.04e6	3.87e6	-----	-----	1.27	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Client Name	Onsite Environmental, Inc.		
Client ID	CS2	Injected By	SMT
Lab ID	CS2-7604-077	Instrument ID	10MSHR09 (P)
Filename	P110413A_02	GC Column ID	USA260032H
Analyzed	04/13/2011 03:34	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:05	1.25e8	9.87e7	4.22e7	3.24e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	36:10	1.39e8	1.12e8	3.98e7	3.26e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	36:25	1.42e8	1.15e8	4.05e7	3.28e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	36:05	1.32e7	1.07e7	4.14e6	3.38e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	36:11	1.43e7	1.11e7	4.19e6	3.34e6	-----	-----	1.28	
1,2,3,7,8,9-HxCDD	36:26	1.43e7	1.15e7	4.06e6	3.37e6	-----	-----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:10	7.97e7	1.74e8	2.55e7	5.50e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	39:38	6.83e7	1.53e8	2.12e7	4.61e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	38:11	1.78e7	1.73e7	5.77e6	5.52e6	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	39:39	1.51e7	1.46e7	4.45e6	4.26e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:10	1.16e8	1.08e8	3.51e7	3.20e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	39:10	1.22e7	1.19e7	3.76e6	3.79e6	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:60	2.27e7	2.48e7	5.81e6	6.41e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:48	1.83e8	2.06e8	4.89e7	5.55e7	-----	-----	0.89	
OCDD	41:49	1.91e7	2.18e7	5.21e6	5.83e6	-----	-----	0.87	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR09 (P)
Filename	P110413A_01	GC Column ID	USA260032H
Analyzed	04/13/2011 02:48	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:09	1.20e8	1.49e8	1.98e7	2.49e7	-----	-----	0.80	
2,3,7,8-TCDF	26:11	1.11e7	1.42e7	1.85e6	2.32e6	-----	-----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:22	7.29e7	9.20e7	1.26e7	1.59e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	27:06	7.59e7	9.57e7	1.39e7	1.75e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	27:08	1.92e7		3.60e6		-----	-----		
2,3,7,8-TCDD	27:08	8.48e6	1.07e7	1.49e6	1.94e6	-----	-----	0.79	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:07	1.29e8	8.29e7	3.12e7	1.98e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	32:11	1.26e8	8.05e7	3.35e7	2.09e7	-----	-----	1.56	
1,2,3,7,8-PeCDF	31:08	6.15e7	3.92e7	1.53e7	9.48e6	-----	-----	1.57	
2,3,4,7,8-PeCDF	32:12	6.07e7	3.94e7	1.66e7	1.07e7	-----	-----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:30	8.66e7	5.50e7	2.30e7	1.48e7	-----	-----	1.57	
1,2,3,7,8-PeCDD	32:32	2.68e7	4.32e7	7.19e6	1.16e7	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:13	5.13e7	9.95e7	1.56e7	3.05e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:20	5.85e7	1.12e8	1.69e7	3.18e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:55	5.85e7	1.10e8	1.79e7	3.42e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	36:45	5.36e7	1.02e8	1.57e7	2.92e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	35:14	4.64e7	3.71e7	1.41e7	1.12e7	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	35:21	5.05e7	4.08e7	1.49e7	1.19e7	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	35:56	5.03e7	4.06e7	1.57e7	1.28e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	36:46	4.40e7	3.55e7	1.29e7	1.03e7	-----	-----	1.24	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID		Injected By	SMT
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR09 (P)
Filename	P110413A_01	GC Column ID	USA260032H
Analyzed	04/13/2011 02:48	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:05	7.18e7	5.66e7	2.44e7	1.88e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	36:11	8.25e7	6.68e7	2.41e7	1.93e7	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	36:26	8.10e7	6.51e7	2.30e7	1.82e7	-----	-----	1.24	
1,2,3,4,7,8-HxCDD	36:05	3.52e7	2.84e7	1.17e7	9.39e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	36:12	3.85e7	3.09e7	1.10e7	8.85e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD	36:27	3.75e7	3.11e7	1.07e7	8.68e6	-----	-----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:10	4.43e7	9.64e7	1.36e7	3.01e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	39:38	3.69e7	8.13e7	1.15e7	2.50e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	38:11	4.70e7	4.51e7	1.49e7	1.47e7	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	39:39	4.01e7	3.83e7	1.24e7	1.18e7	-----	-----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:10	6.51e7	6.08e7	2.00e7	1.87e7	-----	-----	1.07	
1,2,3,4,6,7,8-HpCDD	39:10	3.41e7	3.24e7	1.06e7	1.03e7	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:60	5.87e7	6.47e7	1.53e7	1.71e7	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:48	1.04e8	1.17e8	2.78e7	3.10e7	-----	-----	0.89	
OCDD	41:49	5.18e7	5.84e7	1.39e7	1.56e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS4	Injected By	SMT
Lab ID	CS4-7604-079	Instrument ID	10MSHR09 (P)
Filename	P110413A_05	GC Column ID	USA260032H
Analyzed	04/13/2011 05:53	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:07	1.60e8	2.02e8	2.72e7	3.42e7	-----	-----	0.79	
2,3,7,8-TCDF	26:09	6.11e7	8.05e7	1.01e7	1.32e7	-----	-----	0.76	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:21	9.77e7	1.23e8	1.79e7	2.23e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	27:05	9.68e7	1.23e8	1.84e7	2.31e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	27:06	1.06e8		2.02e7		-----	-----		
2,3,7,8-TCDD	27:06	4.42e7	5.72e7	8.19e6	1.08e7	-----	-----	0.77	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:06	1.80e8	1.15e8	4.53e7	2.88e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	32:09	1.79e8	1.14e8	4.74e7	3.13e7	-----	-----	1.56	
1,2,3,7,8-PeCDF	31:07	3.55e8	2.30e8	8.95e7	5.79e7	-----	-----	1.55	
2,3,4,7,8-PeCDF	32:11	3.65e8	2.37e8	9.98e7	6.34e7	-----	-----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:29	1.15e8	7.27e7	2.97e7	1.92e7	-----	-----	1.58	
1,2,3,7,8-PeCDD	32:31	1.52e8	2.44e8	4.19e7	6.48e7	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:13	7.62e7	1.47e8	2.38e7	4.47e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:20	8.65e7	1.67e8	2.64e7	5.06e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:54	8.19e7	1.55e8	2.58e7	4.88e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	36:44	7.91e7	1.50e8	2.29e7	4.34e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	35:14	2.87e8	2.32e8	9.13e7	7.24e7	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	35:21	3.25e8	2.57e8	9.68e7	7.77e7	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	35:55	2.97e8	2.41e8	9.17e7	7.49e7	-----	-----	1.23	
1,2,3,7,8,9-HxCDF	36:45	2.77e8	2.22e8	8.03e7	6.37e7	-----	-----	1.25	

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Client Name	Onsite Environmental, Inc.		
Client ID	CS4	Injected By	SMT
Lab ID	CS4-7604-079	Instrument ID	10MSHR09 (P)
Filename	P110413A_05	GC Column ID	USA260032H
Analyzed	04/13/2011 05:53	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:04	9.83e7	7.80e7	3.20e7	2.53e7	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	36:10	1.05e8	8.36e7	3.20e7	2.58e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	36:25	1.09e8	8.67e7	3.27e7	2.60e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	36:05	2.10e8	1.60e8	6.73e7	5.26e7	-----	-----	1.31	
1,2,3,6,7,8-HxCDD	36:11	2.11e8	1.74e8	6.76e7	5.27e7	-----	-----	1.21	
1,2,3,7,8,9-HxCDD	36:26	2.18e8	1.76e8	6.55e7	5.22e7	-----	-----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:10	6.56e7	1.44e8	2.10e7	4.44e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:37	5.49e7	1.22e8	1.72e7	3.74e7	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	38:10	3.01e8	2.84e8	9.07e7	8.80e7	-----	-----	1.06	
1,2,3,4,7,8,9-HpCDF	39:38	2.58e8	2.43e8	7.84e7	7.38e7	-----	-----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:09	8.85e7	8.33e7	2.83e7	2.65e7	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	39:10	1.97e8	1.88e8	6.09e7	5.80e7	-----	-----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:60	3.96e8	4.38e8	1.02e8	1.12e8	-----	-----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:48	1.53e8	1.72e8	4.01e7	4.49e7	-----	-----	0.89	
OCDD	41:48	3.25e8	3.65e8	8.54e7	9.65e7	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	CS5	Injected By	SMT
Lab ID	CS5-7604-080	Instrument ID	10MSHR09 (P)
Filename	P110413A_04	GC Column ID	USA260032H
Analyzed	04/13/2011 05:07	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:07	2.68e8	3.39e8	4.85e7	6.17e7	-----	-----	0.79	
2,3,7,8-TCDF	26:09	4.75e8	6.34e8	8.37e7	1.08e8	-----	-----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:21	1.64e8	2.06e8	3.02e7	3.76e7	-----	-----	0.79	
2,3,7,8-TCDD-13C	27:04	1.69e8	2.15e8	3.25e7	4.14e7	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	27:06	8.62e8		1.65e8		-----	-----		
2,3,7,8-TCDD	27:06	3.53e8	4.52e8	6.69e7	8.56e7	-----	-----	0.78	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:06	3.17e8	2.03e8	8.13e7	5.18e7	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	32:09	3.18e8	2.01e8	8.83e7	5.67e7	-----	-----	1.59	
1,2,3,7,8-PeCDF	31:07	2.95e9	1.90e9	7.49e8	4.95e8	-----	-----	1.55	
2,3,4,7,8-PeCDF	32:10	3.11e9	1.99e9	8.59e8	5.57e8	-----	-----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:29	2.03e8	1.28e8	5.77e7	3.60e7	-----	-----	1.59	
1,2,3,7,8-PeCDD	32:30	1.28e9	2.04e9	3.50e8	5.74e8	-----	-----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:12	1.38e8	2.65e8	4.18e7	8.17e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	35:20	1.54e8	2.90e8	4.69e7	8.87e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	35:54	1.49e8	2.86e8	4.87e7	9.29e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	36:44	1.38e8	2.67e8	4.28e7	8.08e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	35:13	2.52e9	2.02e9	7.61e8	6.25e8	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	35:21	2.72e9	2.17e9	8.32e8	6.63e8	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	35:55	2.65e9	2.12e9	8.85e8	7.08e8	-----	-----	1.25	
1,2,3,7,8,9-HxCDF	36:45	2.32e9	1.86e9	7.09e8	5.62e8	-----	-----	1.25	

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Client Name	Onsite Environmental, Inc.		
Client ID	CS5	Injected By	SMT
Lab ID	CS5-7604-080	Instrument ID	10MSHR09 (P)
Filename	P110413A_04	GC Column ID	USA260032H
Analyzed	04/13/2011 05:07	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:04	1.73e8	1.37e8	5.85e7	4.55e7	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	36:10	1.93e8	1.54e8	5.70e7	4.51e7	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	36:25	1.92e8	1.54e8	5.64e7	4.47e7	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	36:05	1.78e9	1.41e9	6.08e8	4.75e8	-----	-----	1.27	
1,2,3,6,7,8-HxCDD	36:11	1.85e9	1.47e9	5.75e8	4.49e8	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	36:25	1.85e9	1.50e9	5.54e8	4.48e8	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:09	1.13e8	2.50e8	3.45e7	7.79e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:37	9.51e7	2.06e8	3.02e7	6.65e7	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	38:10	2.41e9	2.36e9	7.75e8	7.76e8	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	39:38	2.07e9	2.00e9	6.45e8	6.20e8	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:09	1.57e8	1.50e8	5.03e7	4.69e7	-----	-----	1.04	
1,2,3,4,6,7,8-HpCDD	39:10	1.61e9	1.55e9	4.92e8	4.78e8	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	41:60	3.42e9	3.73e9	9.59e8	1.05e9	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:48	2.71e8	3.05e8	7.40e7	8.18e7	-----	-----	0.89	
OCDD	41:49	2.78e9	3.12e9	7.34e8	8.22e8	-----	-----	0.89	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR09 (P)
Filename	P110514B_07	GC Column ID	USA260032H
Analyzed	05/15/2011 10:27	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:03	4.47e7	5.59e7	7.10e6	9.07e6	-----	-----	0.80	
2,3,7,8-TCDF	26:05	3.90e6	5.35e6	6.35e5	8.61e5	-----	-----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:18	2.71e7	3.39e7	4.82e6	5.99e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	27:02	2.71e7	3.41e7	4.64e6	5.81e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	27:03	6.92e6		1.21e6		-----	-----		
2,3,7,8-TCDD	27:03	2.99e6	3.70e6	4.97e5	6.37e5	-----	-----	0.81	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:04	4.72e7	2.97e7	1.14e7	6.97e6	-----	-----	1.59	
2,3,4,7,8-PeCDF-13C	32:09	4.68e7	2.96e7	1.23e7	7.79e6	-----	-----	1.58	
1,2,3,7,8-PeCDF	31:05	2.22e7	1.46e7	5.25e6	3.38e6	-----	-----	1.52	
2,3,4,7,8-PeCDF	32:09	2.27e7	1.49e7	5.89e6	3.83e6	-----	-----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:28	2.82e7	1.80e7	7.24e6	4.70e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	32:29	9.23e6	1.45e7	2.40e6	3.76e6	-----	-----	0.64	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:12	1.99e7	3.71e7	6.06e6	1.13e7	-----	-----	0.54	
1,2,3,6,7,8-HxCDF-13C	35:20	2.32e7	4.38e7	6.61e6	1.24e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	35:54	2.20e7	4.11e7	6.47e6	1.23e7	-----	-----	0.54	
1,2,3,7,8,9-HxCDF-13C	36:44	1.98e7	3.78e7	5.49e6	1.00e7	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	35:13	1.83e7	1.45e7	5.50e6	4.47e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	35:20	2.09e7	1.63e7	5.92e6	4.56e6	-----	-----	1.29	
2,3,4,6,7,8-HxCDF	35:55	1.95e7	1.55e7	5.57e6	4.68e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDF	36:45	1.71e7	1.37e7	4.69e6	3.72e6	-----	-----	1.24	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR09 (P)
Filename	P110514B_07	GC Column ID	USA260032H
Analyzed	05/15/2011 10:27	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:04	2.44e7	1.96e7	7.60e6	6.10e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	36:10	2.71e7	2.15e7	8.16e6	6.51e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD-13C	36:25	2.74e7	2.18e7	7.53e6	6.18e6	-----	-----	1.26	
1,2,3,4,7,8-HxCDD	36:05	1.26e7	9.33e6	3.88e6	2.99e6	-----	-----	1.35	
1,2,3,6,7,8-HxCDD	36:11	1.30e7	1.10e7	4.04e6	3.16e6	-----	-----	1.18	
1,2,3,7,8,9-HxCDD	36:26	1.32e7	1.08e7	3.83e6	2.96e6	-----	-----	1.22	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:10	1.59e7	3.46e7	4.99e6	1.05e7	-----	-----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	39:38	1.19e7	2.58e7	3.49e6	7.40e6	-----	-----	0.46	
1,2,3,4,6,7,8-HpCDF	38:11	1.72e7	1.61e7	5.34e6	4.94e6	-----	-----	1.07	
1,2,3,4,7,8,9-HpCDF	39:39	1.30e7	1.26e7	3.77e6	3.81e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:10	1.95e7	1.86e7	6.21e6	5.69e6	-----	-----	1.05	
1,2,3,4,6,7,8-HpCDD	39:11	1.05e7	1.01e7	3.06e6	2.86e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	42:00	1.73e7	1.87e7	4.45e6	4.86e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:49	2.81e7	3.16e7	7.09e6	8.27e6	-----	-----	0.89	
OCDD	41:50	1.47e7	1.64e7	3.91e6	4.32e6	-----	-----	0.90	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR05 (F)
Filename	F110515B_01	GC Column ID	USA209122H
Analyzed	05/15/2011 14:22	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:32	6.09e7	7.84e7	7.87e6	1.02e7	-----	-----	0.78	
2,3,7,8-TCDF	23:34	5.33e6	6.80e6	7.50e5	8.94e5	-----	-----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:46	4.25e7	5.34e7	5.60e6	7.14e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	24:47	4.07e7	5.22e7	5.24e6	6.59e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	24:48	1.02e7		1.26e6		-----	-----		
2,3,7,8-TCDD	24:50	4.22e6	5.39e6	5.56e5	6.62e5	-----	-----	0.78	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:48	6.26e7	4.02e7	1.22e7	7.61e6	-----	-----	1.56	
2,3,4,7,8-PeCDF-13C	32:12	6.28e7	4.01e7	1.32e7	8.33e6	-----	-----	1.57	
1,2,3,7,8-PeCDF	30:49	2.95e7	1.88e7	5.50e6	3.45e6	-----	-----	1.57	
2,3,4,7,8-PeCDF	32:14	2.99e7	1.94e7	6.52e6	4.32e6	-----	-----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:38	4.24e7	2.75e7	9.01e6	6.07e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	32:39	1.27e7	2.06e7	2.76e6	4.55e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:01	2.82e7	5.43e7	7.38e6	1.43e7	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:09	3.27e7	6.24e7	8.53e6	1.62e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	36:51	3.19e7	6.10e7	7.96e6	1.54e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:50	2.92e7	5.57e7	7.62e6	1.45e7	-----	-----	0.52	
1,2,3,4,7,8-HxCDF	36:01	2.58e7	2.07e7	7.24e6	5.82e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDF	36:10	2.86e7	2.29e7	7.33e6	5.75e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	36:52	2.82e7	2.23e7	7.57e6	5.88e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDF	37:50	2.39e7	1.95e7	6.46e6	5.17e6	-----	-----	1.23	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR05 (F)
Filename	F110515B_01	GC Column ID	USA209122H
Analyzed	05/15/2011 14:22	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:02	3.79e7	3.02e7	1.07e7	8.27e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	37:09	4.45e7	3.60e7	1.19e7	9.53e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:27	4.30e7	3.45e7	1.09e7	8.98e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	37:03	1.83e7	1.50e7	5.13e6	4.24e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	37:10	2.08e7	1.65e7	5.52e6	4.37e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	37:28	2.00e7	1.62e7	5.26e6	4.23e6	-----	-----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:28	2.56e7	5.78e7	7.49e6	1.62e7	-----	-----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:06	2.12e7	4.92e7	5.76e6	1.34e7	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	39:29	2.76e7	2.69e7	8.17e6	8.32e6	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	41:07	2.35e7	2.29e7	6.28e6	6.20e6	-----	-----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:36	3.69e7	3.59e7	1.05e7	9.92e6	-----	-----	1.03	
1,2,3,4,6,7,8-HpCDD	40:37	2.00e7	1.93e7	5.95e6	5.52e6	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:49	3.32e7	3.76e7	7.93e6	8.77e6	-----	-----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:37	6.12e7	6.72e7	1.46e7	1.63e7	-----	-----	0.91	
OCDD	43:38	3.01e7	3.35e7	7.37e6	8.17e6	-----	-----	0.90	

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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR09 (P)
Filename	P110515A_14	GC Column ID	USA260032H
Analyzed	05/15/2011 23:02	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:02	4.80e7	6.14e7	7.13e6	9.19e6	-----	-----	0.78	
2,3,7,8-TCDF	26:03	4.05e6	5.70e6	5.51e5	8.18e5	-----	-----	0.71	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:18	2.98e7	3.74e7	4.78e6	6.07e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	27:01	2.99e7	3.84e7	4.88e6	6.32e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	27:03	7.52e6		1.27e6		-----	-----		
2,3,7,8-TCDD	27:03	3.26e6	4.44e6	5.26e5	7.07e5	-----	-----	0.73	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:04	5.48e7	3.43e7	1.21e7	7.64e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	32:09	5.39e7	3.41e7	1.33e7	8.33e6	-----	-----	1.58	
1,2,3,7,8-PeCDF	31:05	2.57e7	1.67e7	5.97e6	3.87e6	-----	-----	1.53	
2,3,4,7,8-PeCDF	32:09	2.61e7	1.69e7	6.43e6	4.16e6	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:28	3.38e7	2.15e7	8.42e6	5.22e6	-----	-----	1.57	
1,2,3,7,8-PeCDD	32:29	1.08e7	1.75e7	2.83e6	4.29e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:12	2.20e7	4.11e7	6.46e6	1.24e7	-----	-----	0.54	
1,2,3,6,7,8-HxCDF-13C	35:20	2.59e7	5.00e7	6.94e6	1.30e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	35:54	2.49e7	4.82e7	7.34e6	1.38e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	36:44	2.17e7	4.31e7	5.88e6	1.13e7	-----	-----	0.50	
1,2,3,4,7,8-HxCDF	35:13	2.00e7	1.60e7	5.84e6	4.85e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	35:20	2.31e7	1.85e7	6.23e6	5.13e6	-----	-----	1.25	
2,3,4,6,7,8-HxCDF	35:55	2.25e7	1.80e7	6.65e6	5.39e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDF	36:45	1.87e7	1.52e7	5.08e6	4.09e6	-----	-----	1.23	

REPORT OF LABORATORY ANALYSIS

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR09 (P)
Filename	P110515A_14	GC Column ID	USA260032H
Analyzed	05/15/2011 23:02	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:04	2.63e7	2.11e7	8.89e6	7.14e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD-13C	36:10	3.21e7	2.56e7	8.61e6	6.84e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD-13C	36:25	3.05e7	2.50e7	8.63e6	6.88e6	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	36:05	1.38e7	1.11e7	4.48e6	3.46e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDD	36:11	1.55e7	1.27e7	4.17e6	3.46e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	36:26	1.51e7	1.22e7	4.08e6	3.27e6	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:10	1.71e7	3.77e7	5.20e6	1.14e7	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:38	1.35e7	2.99e7	3.94e6	8.58e6	-----	-----	0.45	
1,2,3,4,6,7,8-HpCDF	38:11	1.82e7	1.77e7	5.49e6	5.30e6	-----	-----	1.03	
1,2,3,4,7,8,9-HpCDF	39:39	1.43e7	1.40e7	4.29e6	4.08e6	-----	-----	1.02	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:10	2.18e7	2.05e7	6.17e6	5.70e6	-----	-----	1.06	
1,2,3,4,6,7,8-HpCDD	39:11	1.20e7	1.12e7	3.28e6	3.06e6	-----	-----	1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	42:01	1.95e7	2.14e7	4.88e6	5.31e6	-----	-----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:49	3.18e7	3.56e7	8.14e6	9.06e6	-----	-----	0.89	
OCDD	41:50	1.67e7	1.85e7	4.22e6	4.72e6	-----	-----	0.90	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR05 (F)
Filename	F110515B_15	GC Column ID	USA209122H
Analyzed	05/16/2011 01:37	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:30	4.23e7	5.39e7	5.27e6	6.67e6	-----	-----	0.78	
2,3,7,8-TCDF	23:32	3.68e6	4.72e6	4.86e5	6.05e5	-----	-----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:45	2.84e7	3.63e7	3.69e6	4.56e6	-----	-----	0.78	
2,3,7,8-TCDD-13C	24:45	2.71e7	3.50e7	3.38e6	4.32e6	-----	-----	0.78	
2,3,7,8-TCDD-37Cl4	24:47	6.80e6		8.15e5		-----	-----		
2,3,7,8-TCDD	24:47	2.89e6	3.74e6	3.06e5	4.23e5	-----	-----	0.77	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:46	4.30e7	2.72e7	7.36e6	4.62e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	32:11	4.20e7	2.69e7	8.20e6	5.35e6	-----	-----	1.56	
1,2,3,7,8-PeCDF	30:48	2.04e7	1.29e7	3.58e6	2.21e6	-----	-----	1.58	
2,3,4,7,8-PeCDF	32:12	2.03e7	1.29e7	3.97e6	2.50e6	-----	-----	1.57	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:37	2.70e7	1.75e7	5.48e6	3.48e6	-----	-----	1.54	
1,2,3,7,8-PeCDD	32:38	8.43e6	1.32e7	1.68e6	2.67e6	-----	-----	0.64	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:60	1.72e7	3.27e7	4.16e6	7.75e6	-----	-----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:08	2.06e7	3.96e7	4.54e6	8.49e6	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	36:51	1.95e7	3.71e7	4.83e6	9.09e6	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	37:49	1.61e7	3.14e7	3.70e6	6.96e6	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	36:01	1.61e7	1.29e7	3.74e6	3.01e6	-----	-----	1.25	
1,2,3,6,7,8-HxCDF	36:09	1.83e7	1.45e7	4.03e6	3.09e6	-----	-----	1.26	
2,3,4,6,7,8-HxCDF	36:52	1.73e7	1.36e7	4.39e6	3.35e6	-----	-----	1.27	
1,2,3,7,8,9-HxCDF	37:50	1.38e7	1.10e7	3.11e6	2.42e6	-----	-----	1.26	

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Client ID		Injected By	BAL
Lab ID	CS3/CPM-7604-115	Instrument ID	10MSHR05 (F)
Filename	F110515B_15	GC Column ID	USA209122H
Analyzed	05/16/2011 01:37	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:01	2.25e7	1.67e7	5.79e6	4.62e6	-----	-----	1.35	
1,2,3,6,7,8-HxCDD-13C	37:09	2.54e7	2.11e7	6.00e6	4.94e6	-----	-----	1.20	
1,2,3,7,8,9-HxCDD-13C	37:27	2.44e7	2.00e7	5.32e6	4.42e6	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	37:02	1.09e7	8.85e6	2.79e6	2.27e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDD	37:09	1.19e7	9.57e6	2.88e6	2.30e6	-----	-----	1.25	
1,2,3,7,8,9-HxCDD	37:28	1.19e7	9.44e6	2.70e6	2.16e6	-----	-----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:27	1.44e7	3.08e7	3.46e6	7.20e6	-----	-----	0.47	
1,2,3,4,7,8,9-HpCDF-13C	41:06	1.13e7	2.58e7	2.74e6	6.22e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	39:29	1.43e7	1.52e7	3.53e6	3.82e6	-----	-----	0.94	
1,2,3,4,7,8,9-HpCDF	41:07	1.21e7	1.14e7	2.97e6	2.80e6	-----	-----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:35	1.69e7	1.53e7	3.89e6	3.52e6	-----	-----	1.11	
1,2,3,4,6,7,8-HpCDD	40:36	9.53e6	8.99e6	2.32e6	2.18e6	-----	-----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:49	1.84e7	1.94e7	3.60e6	3.94e6	-----	-----	0.95	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:37	3.23e7	3.55e7	6.41e6	7.09e6	-----	-----	0.91	
OCDD	43:38	1.58e7	1.82e7	3.29e6	3.76e6	-----	-----	0.87	

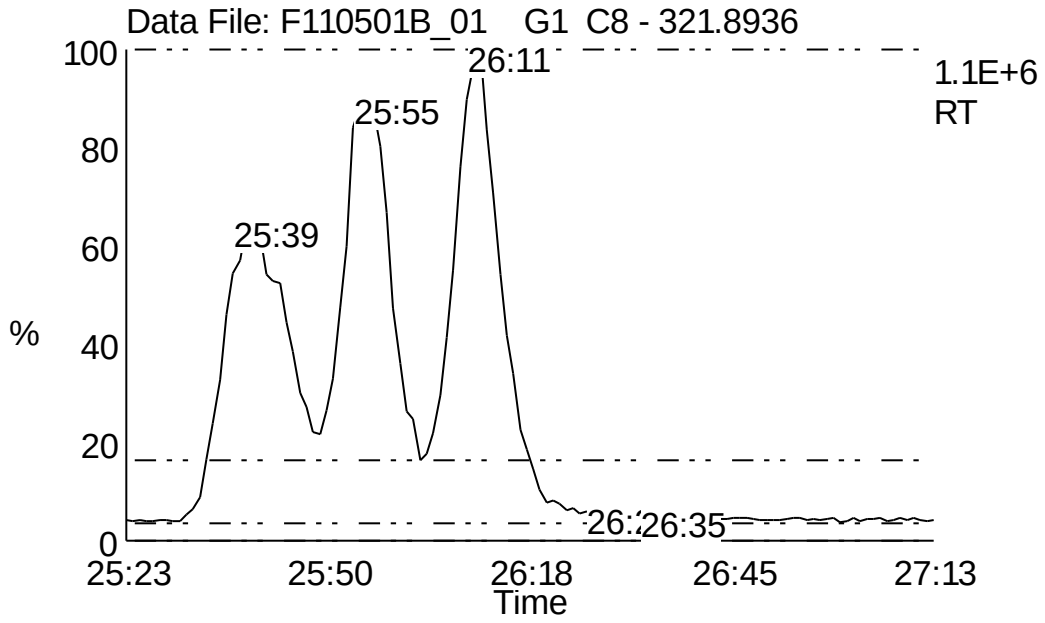
REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-115	Injected By	BAL	
Raw Data File	F110501B_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	5/1/2011	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	14:54	GC Column S/N	USA209122H	
Resolution	**13.3%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	19:31	27:58
PeCDF	341.8567	27:49	34:12
HxCDF	373.8207	0:00	38:22
HpCDF	407.7818	39:57	41:35
OCDF	441.7428	44:20	0:00
TCDD	321.8936	21:21	27:43
PeCDD	357.8517	0:00	33:51
HxCDD	391.8127	35:48	37:59
HpCDD	425.7737	40:15	41:04
OCDD	459.7347	44:07	0:00
1234-TCDD-13C(RS)	331.9367	25:08	0:00
123789-HxCDD-13C(RS)	401.8559	37:58	0:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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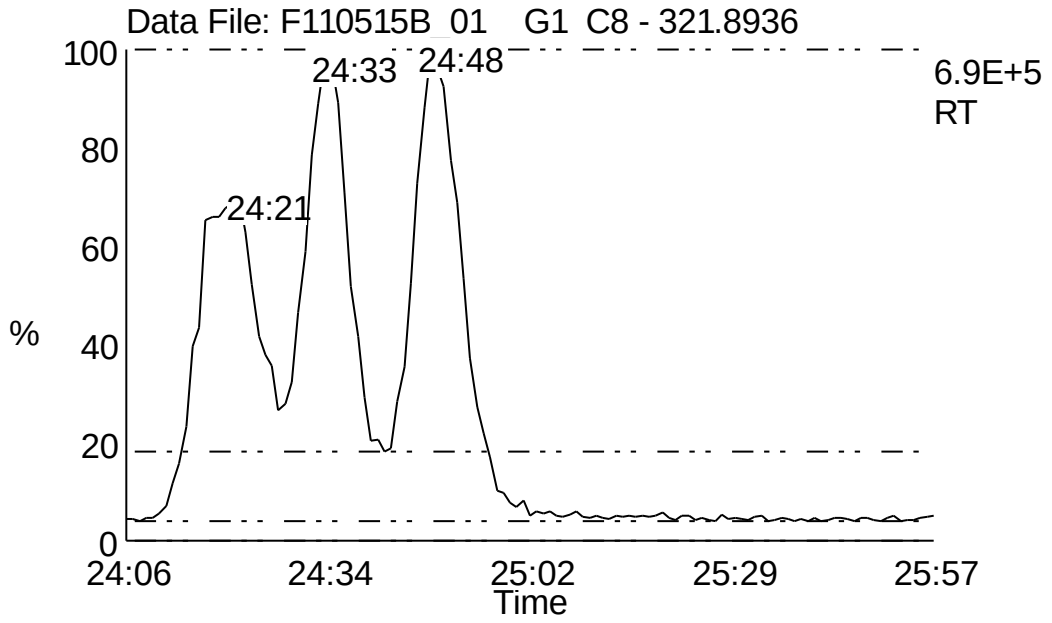
Fax: 612- 607-6444

Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-115	Injected By	BAL	
Raw Data File	F110515B_01	Instrument ID	10MSHR05 (F)	
Date Analyzed	5/15/2011	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	14:22	GC Column S/N	USA209122H	
Resolution	**14.8%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:33	26:45
PeCDF	341.8567	26:37	33:30
HxCDF	373.8207	34:28	37:50
HpCDF	407.7818	39:29	41:07
OCDF	441.7428	43:49	0:00
TCDD	321.8936	20:16	26:25
PeCDD	357.8517	29:21	33:09
HxCDD	391.8127	35:12	37:27
HpCDD	425.7737	39:48	40:36
OCDD	459.7347	43:37	0:00
1234-TCDD-13C(RS)	331.9367	23:45	0:00
123789-HxCDD-13C(RS)	401.8559	37:27	0:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Minneapolis, MN 55414

Tel: 612-607-1700
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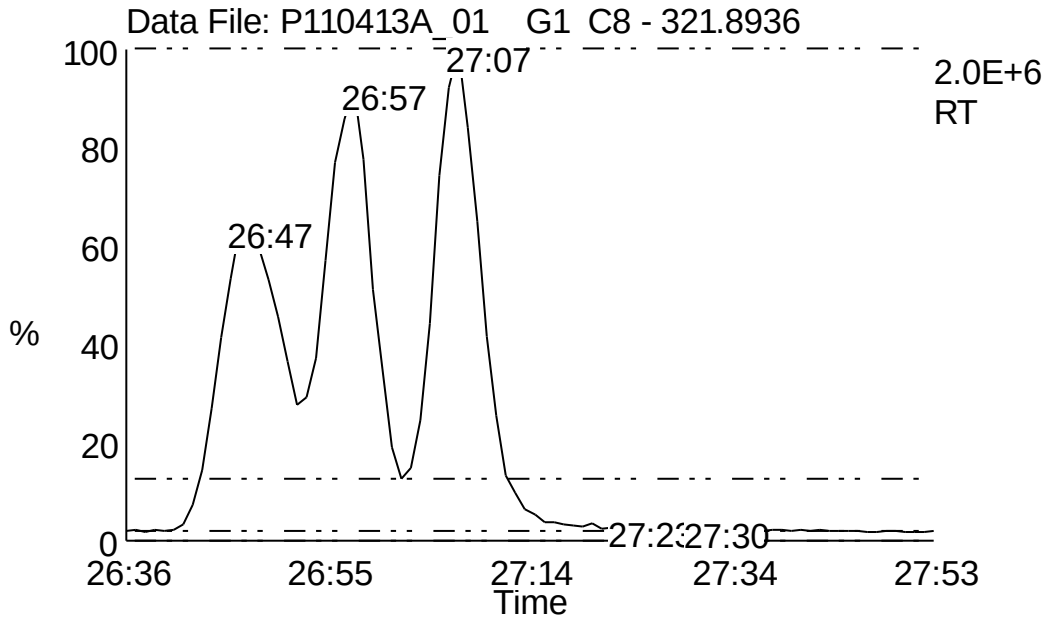
Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-115	Injected By	SMT	
Raw Data File	P110413A_01	Instrument ID	10MSHR09 (P)	
Date Analyzed	4/13/2011	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	02:48	GC Column S/N	USA260032H	
Resolution	**10.9%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	20:34	28:20
PeCDF	341.8567	28:17	33:12
HxCDF	373.8207	33:58	36:46
HpCDF	407.7818	38:11	39:38
OCDF	441.7428	41:59	41:59
TCDD	321.8936	22:49	28:10
PeCDD	357.8517	30:06	32:55
HxCDD	391.8127	34:33	36:27
HpCDD	425.7737	38:27	39:10
OCDD	459.7347	41:49	41:49
1234-TCDD-13C(RS)	331.9367	26:23	26:23
123789-HxCDD-13C(RS)	401.8559	36:26	36:26

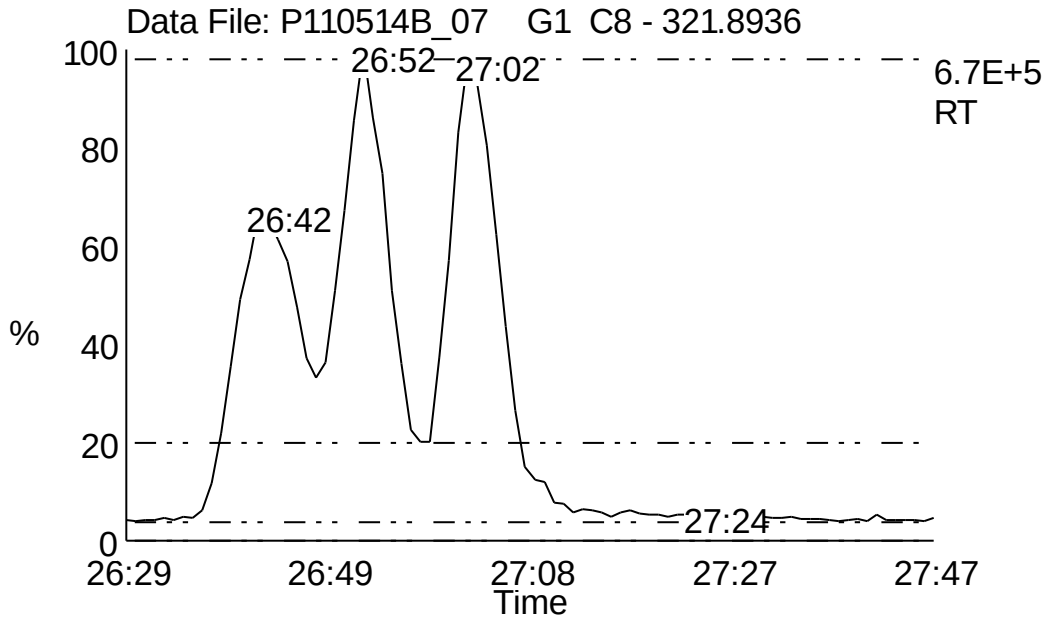
REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Column Performance Mix (CPM) / Window Defining Mix (WDM)

Lab Sample ID	CS3/CPM-7604-115	Injected By	BAL	
Raw Data File	P110514B_07	Instrument ID	10MSHR09 (P)	
Date Analyzed	5/15/2011	GC Column Type	DB-5MS	0.25 uM
Time Analyzed	10:27	GC Column S/N	USA260032H	
Resolution	**17.1%**			



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	20:27	28:14
PeCDF	341.8567	28:13	33:10
HxCDF	373.8207	33:57	36:45
HpCDF	407.7818	38:11	39:38
OCDF	441.7428	42:00	0:00
TCDD	321.8936	22:43	28:04
PeCDD	357.8517	30:03	32:54
HxCDD	391.8127	34:32	36:26
HpCDD	425.7737	38:27	39:10
OCDD	459.7347	41:50	0:00
1234-TCDD-13C(RS)	331.9367	26:17	0:00
123789-HxCDD-13C(RS)	401.8559	36:25	0:00

REPORT OF LABORATORY ANALYSIS

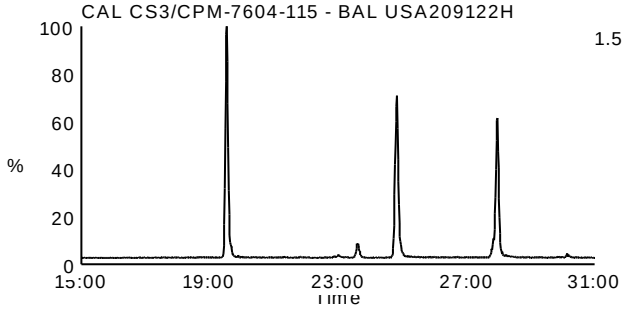
Homologue Group: Tetras

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

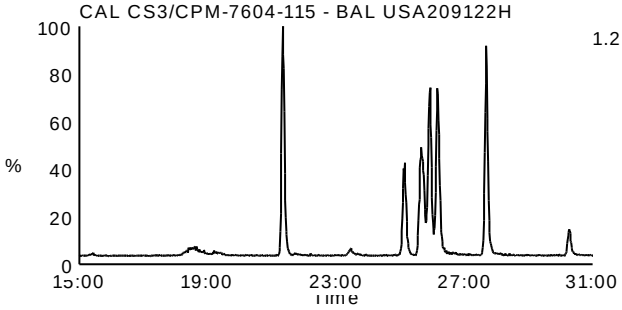
Date Acquired: 5/1/2011 Client Sample ID: CPM/WDM

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

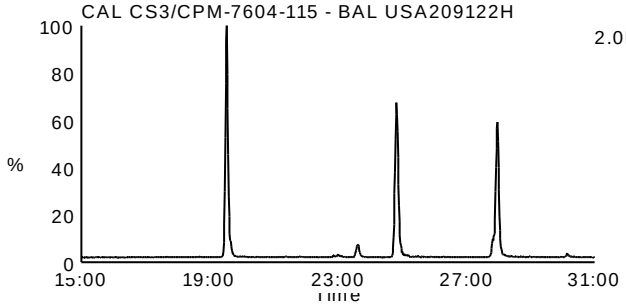
Data File: F110501B 01 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - BAL USA209122H



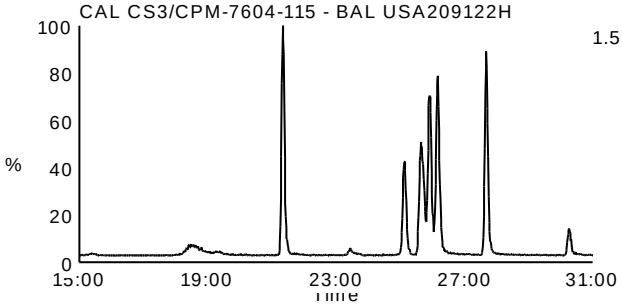
Data File: F110501B 01 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - BAL USA209122H



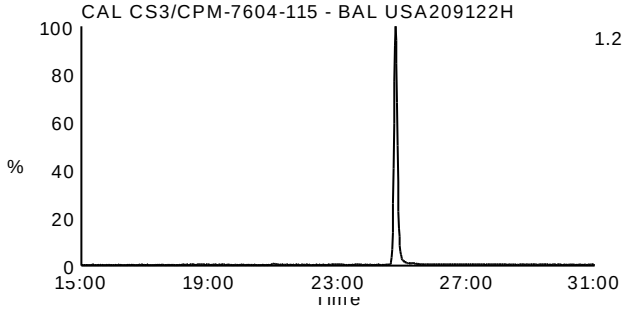
Data File: F110501B_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - BAL USA209122H



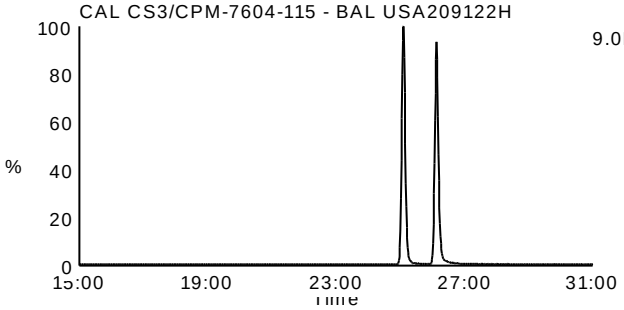
Data File: F110501B_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - BAL USA209122H



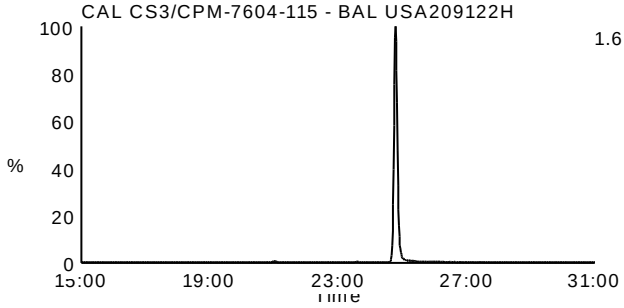
Data File: F110501B 01 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - BAL USA209122H



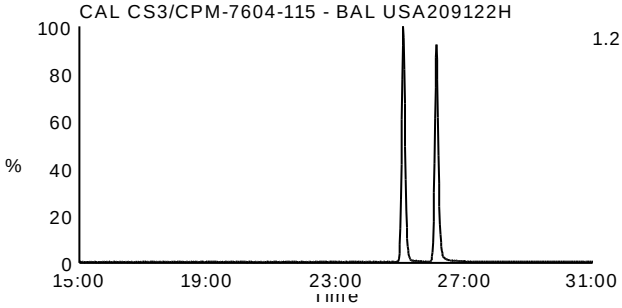
Data File: F110501B 01 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - BAL USA209122H



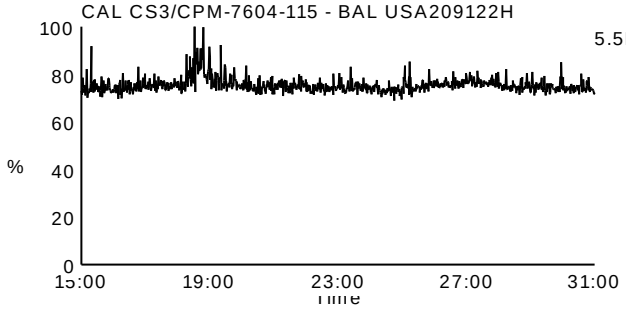
Data File: F110501B_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - BAL USA209122H



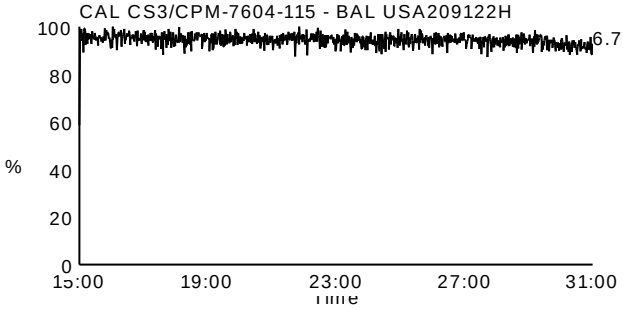
Data File: F110501B_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - BAL USA209122H

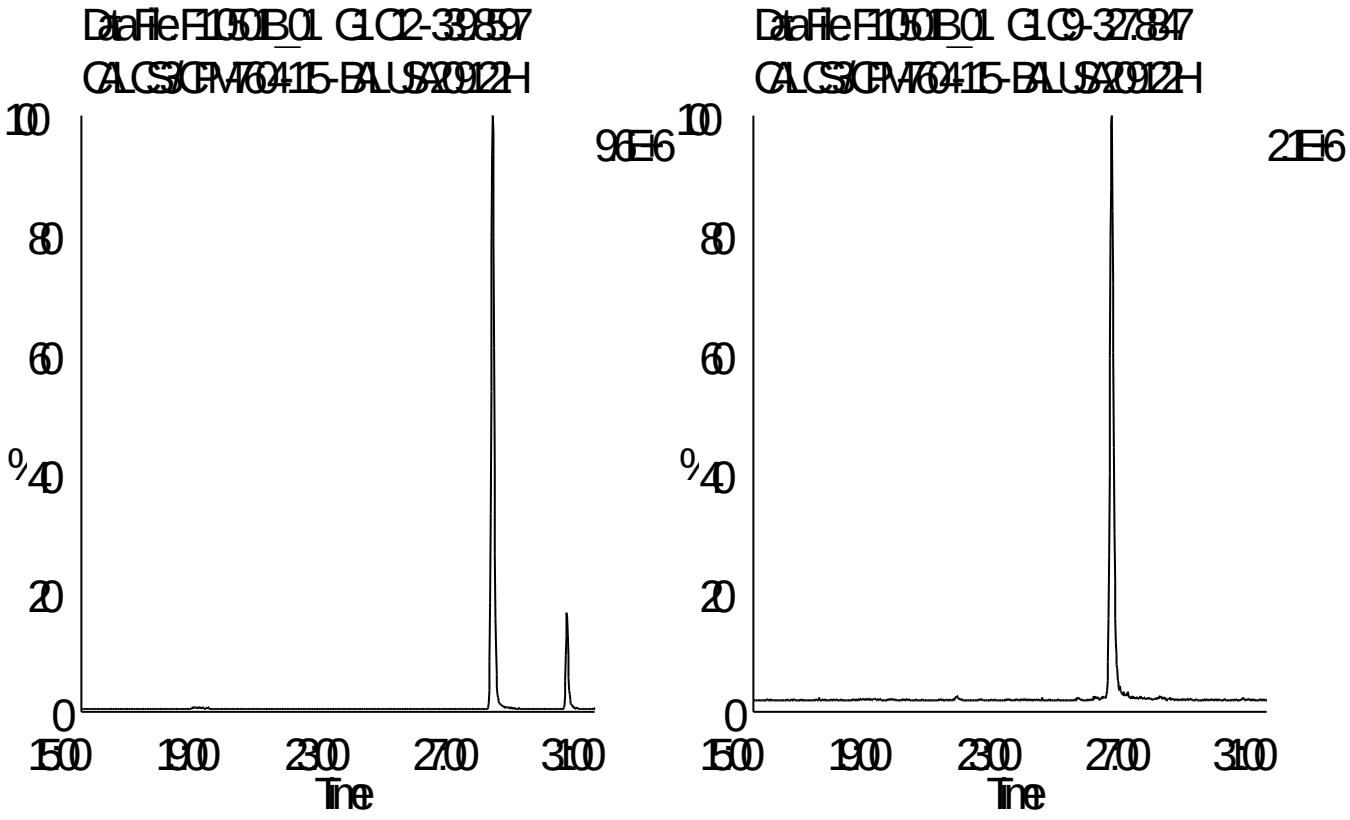


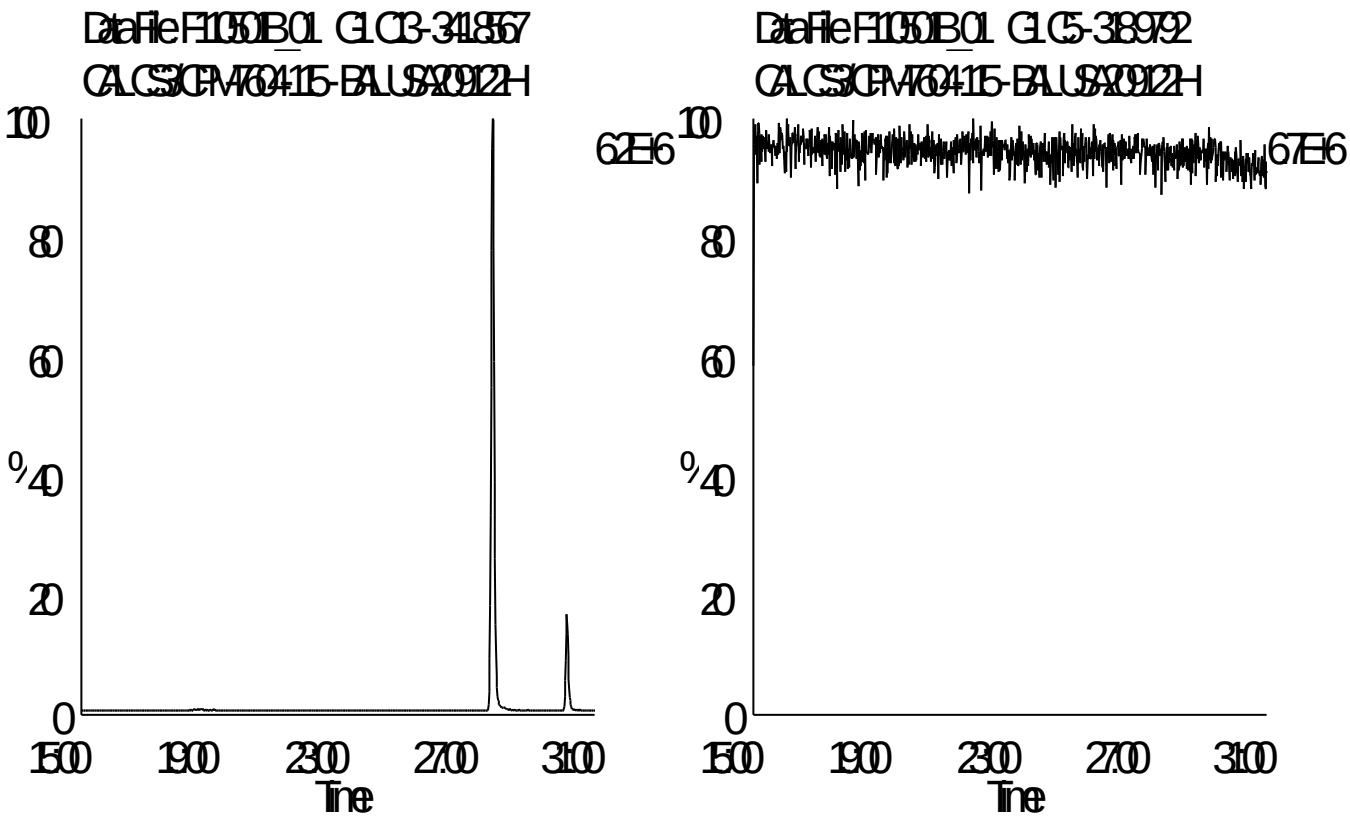
Data File: F110501B_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - BAL USA209122H



Homologue Group: Penta & Cleanup

Data File Name: F110501B_01
Lab Sample ID: CS3/CPM-7604-115
Date Acquired: 5/1/2011
Client Sample ID: CPM/WDM
Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H
Instrument: 10MSHR05 (F)





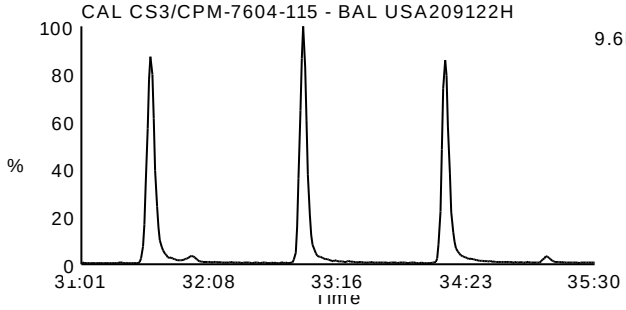
Homologue Group: Pentas

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

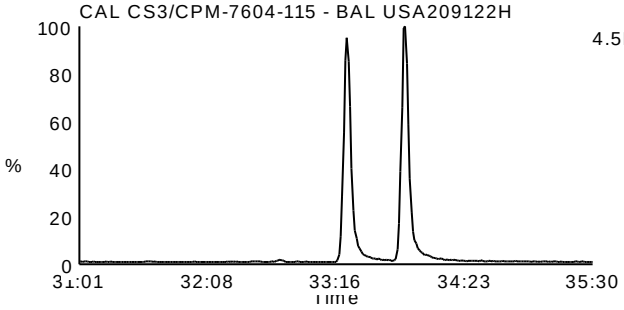
Date Acquired: 5/1/2011 Client Sample ID: CPM/WDM

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

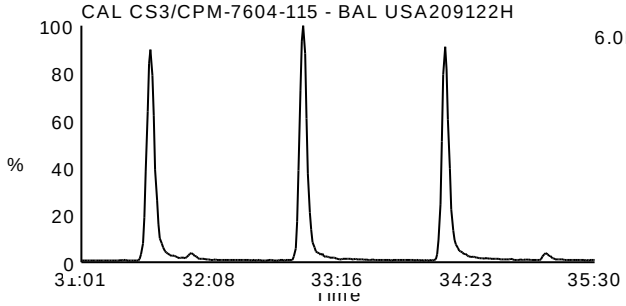
Data File: F110501B 01 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL USA209122H



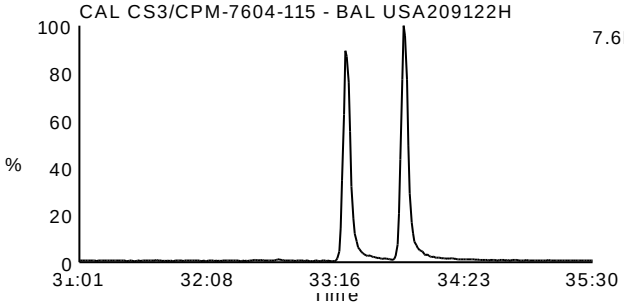
Data File: F110501B 01 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL USA209122H



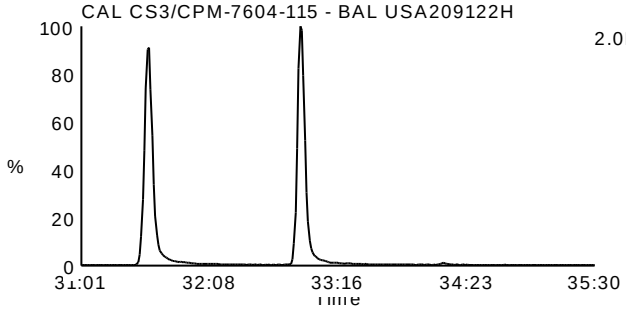
Data File: F110501B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL USA209122H



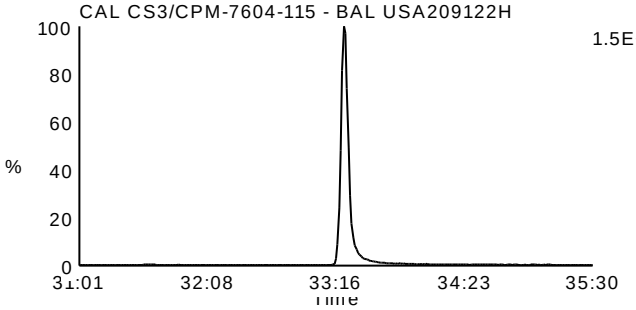
Data File: F110501B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL USA209122H



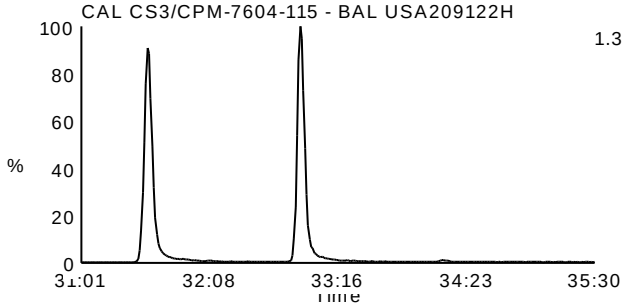
Data File: F110501B 01 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL USA209122H



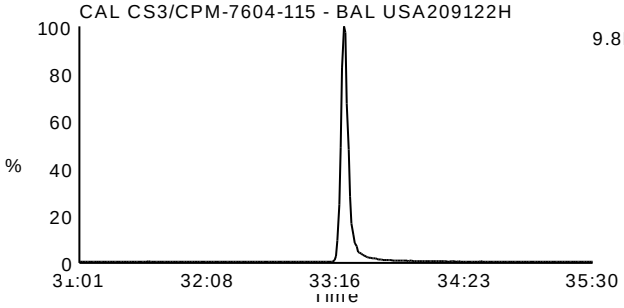
Data File: F110501B 01 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL USA209122H



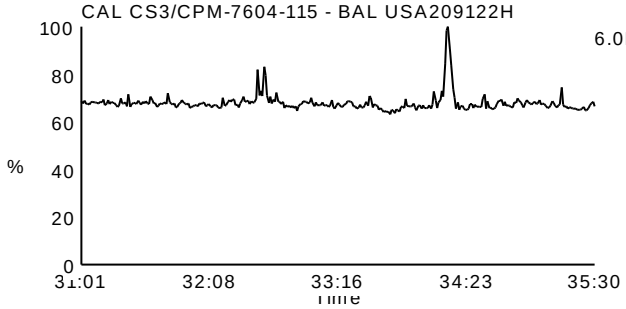
Data File: F110501B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-115 - BAL USA209122H



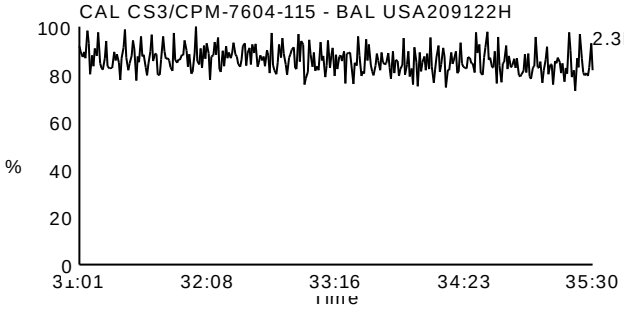
Data File: F110501B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-115 - BAL USA209122H



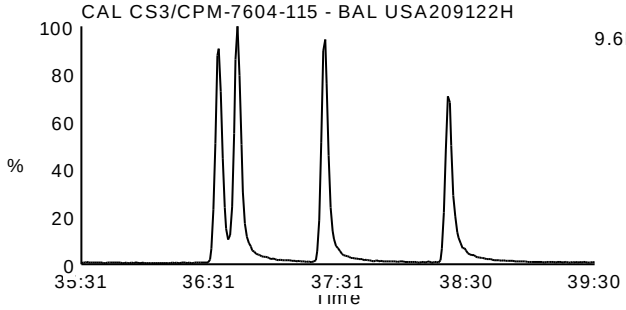
Homologue Group: Hexas

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

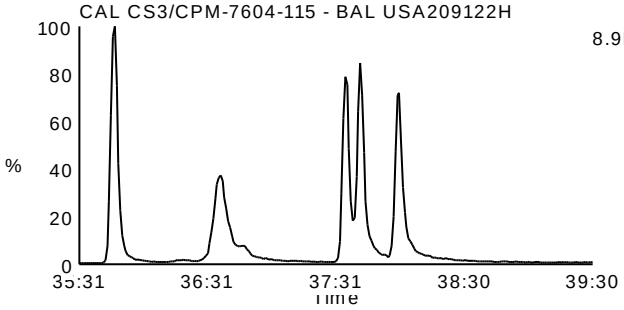
Date Acquired: 5/1/2011 Client Sample ID: CPM/WDM

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

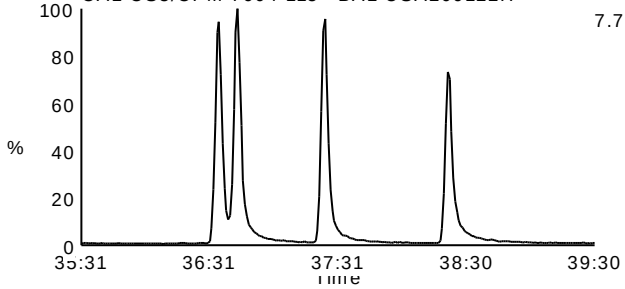
Data File: F110501B 01 G3 C1 - 373.8207
CAL CS3/CPM-7604-115 - BAL USA209122H



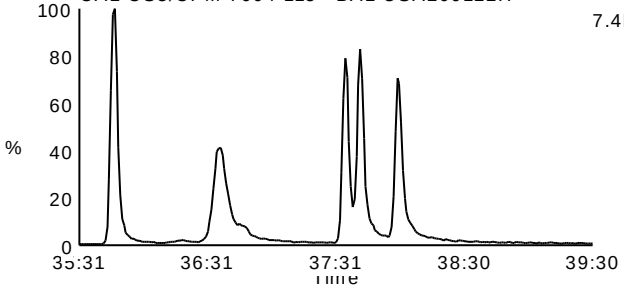
Data File: F110501B 01 G3 C7 - 389.8156
CAL CS3/CPM-7604-115 - BAL USA209122H



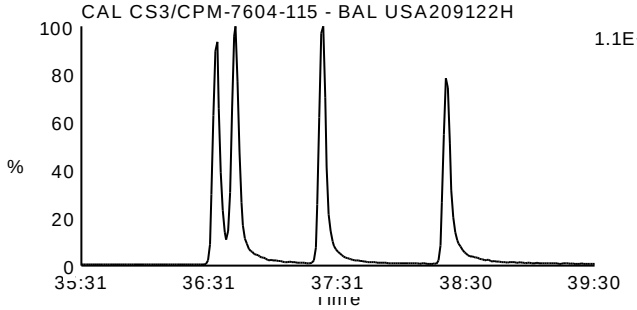
Data File: F110501B_01 G3 C2 - 375.8178
CAL CS3/CPM-7604-115 - BAL USA209122H



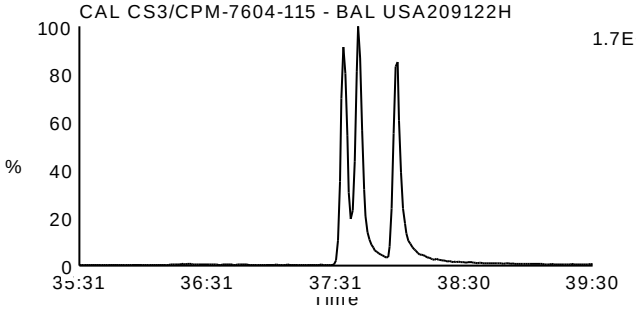
Data File: F110501B_01 G3 C8 - 391.8127
CAL CS3/CPM-7604-115 - BAL USA209122H



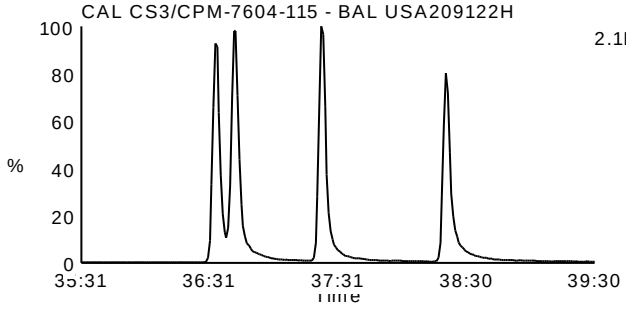
Data File: F110501B 01 G3 C5 - 383.8639
CAL CS3/CPM-7604-115 - BAL USA209122H



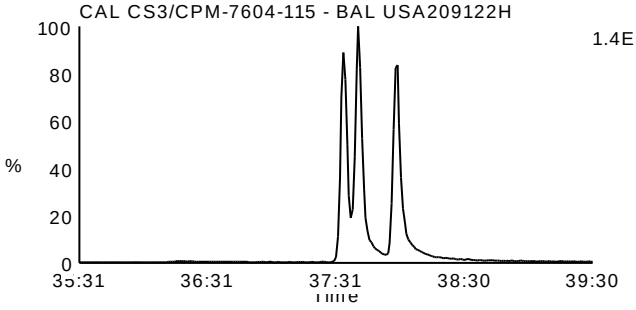
Data File: F110501B 01 G3 C9 - 401.8559
CAL CS3/CPM-7604-115 - BAL USA209122H



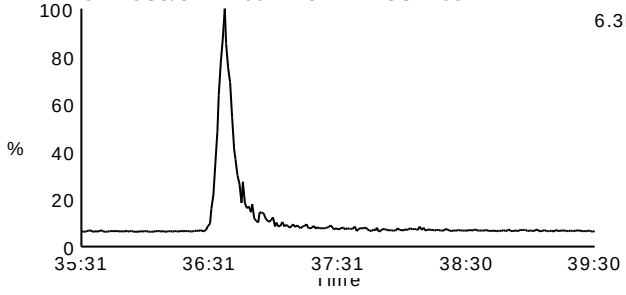
Data File: F110501B_01 G3 C6 - 385.861
CAL CS3/CPM-7604-115 - BAL USA209122H



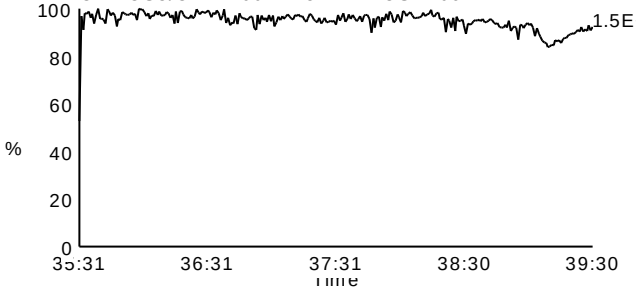
Data File: F110501B_01 G3 C10 - 403.8529
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G3 C11 - 445.7555
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G3 C3 - 380.976
CAL CS3/CPM-7604-115 - BAL USA209122H



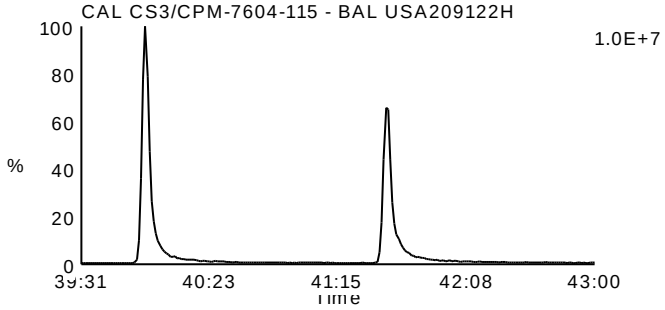
Homologue Group: Heptas

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

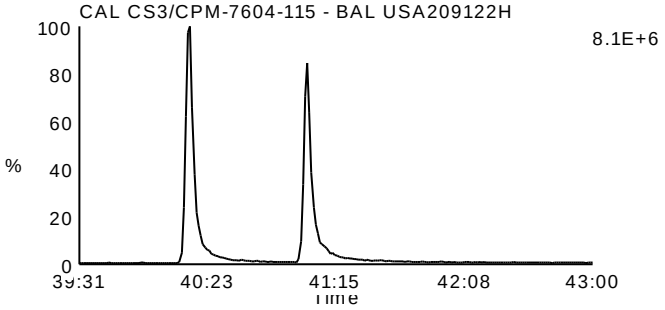
Date Acquired: 5/1/2011 Client Sample ID: CPM/WDM

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

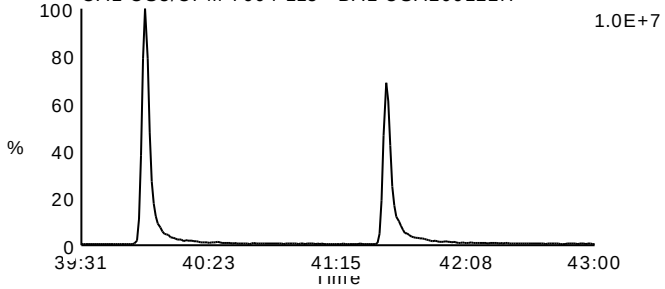
Data File: F110501B 01 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - BAL USA209122H



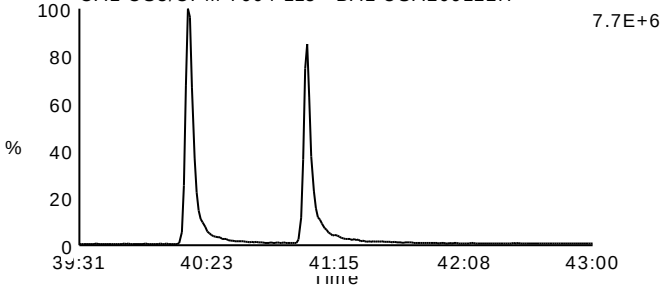
Data File: F110501B 01 G4 C8 - 423.7767
CAL CS3/CPM-7604-115 - BAL USA209122H



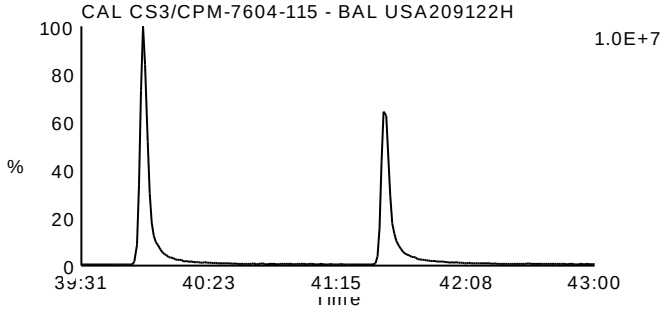
Data File: F110501B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - BAL USA209122H



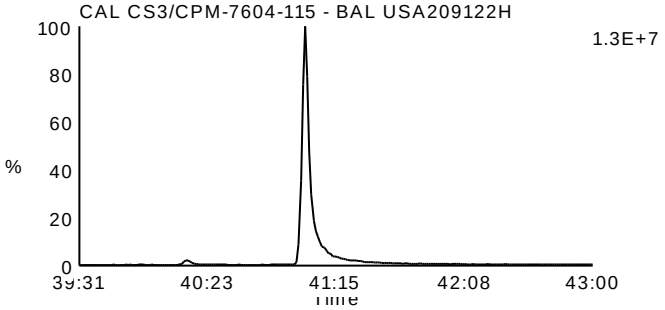
Data File: F110501B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - BAL USA209122H



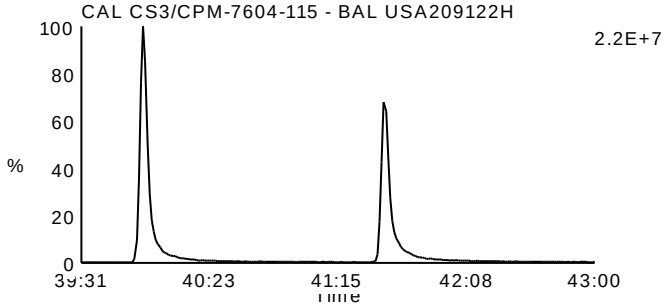
Data File: F110501B 01 G4 C6 - 417.825
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B 01 G4 C11 - 435.8169
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-115 - BAL USA209122H



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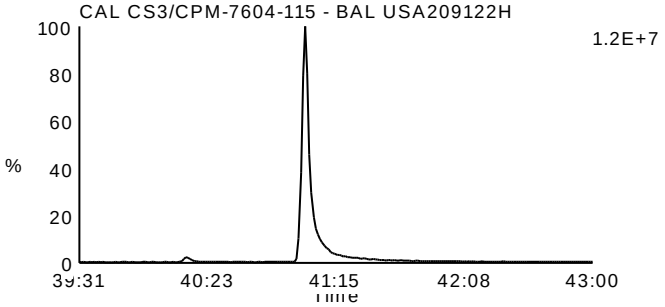
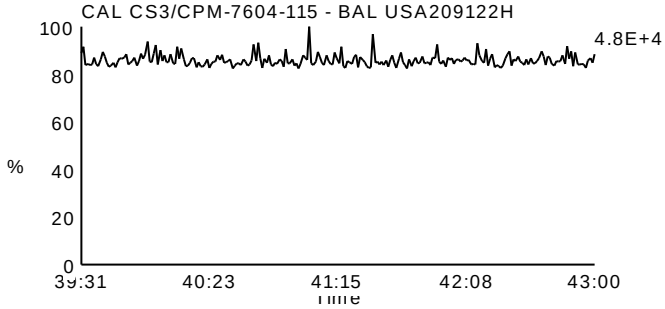
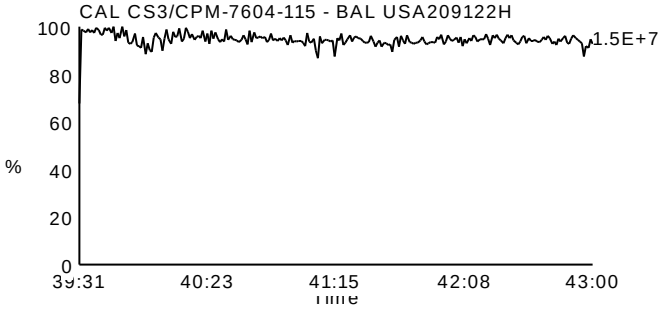
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - BAL USA209122H



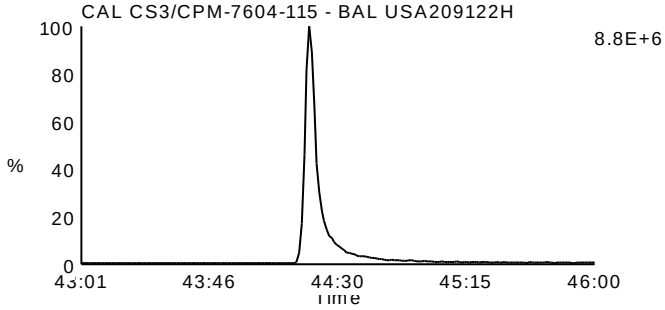
Homologue Group: Octas

Data File Name: F110501B_01 Lab Sample ID: CS3/CPM-7604-115

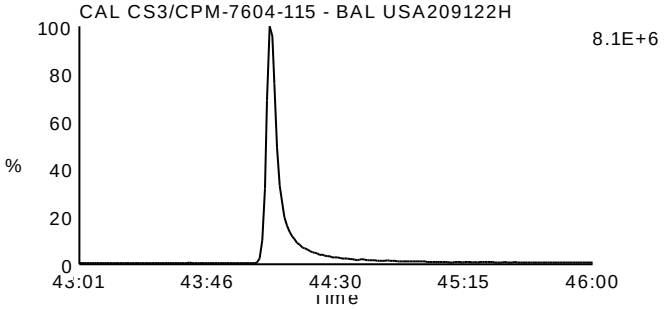
Date Acquired: 5/1/2011 Client Sample ID: CPM/WDM

Sample Description: CAL CS3/CPM-7604-115 - BAL USA209122H Instrument: 10MSHR05 (F)

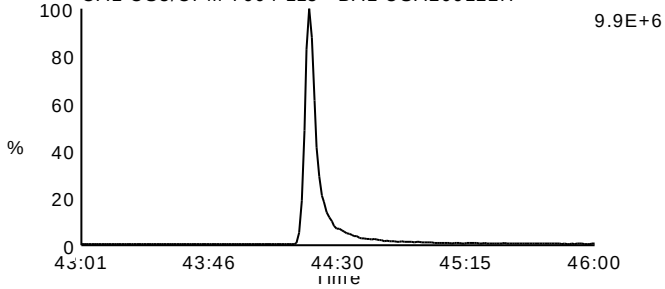
Data File: F110501B 01 G5 C4 - 441.7428
CAL CS3/CPM-7604-115 - BAL USA209122H



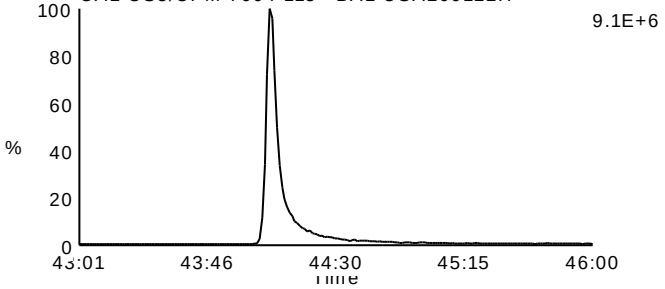
Data File: F110501B 01 G5 C8 - 457.7377
CAL CS3/CPM-7604-115 - BAL USA209122H



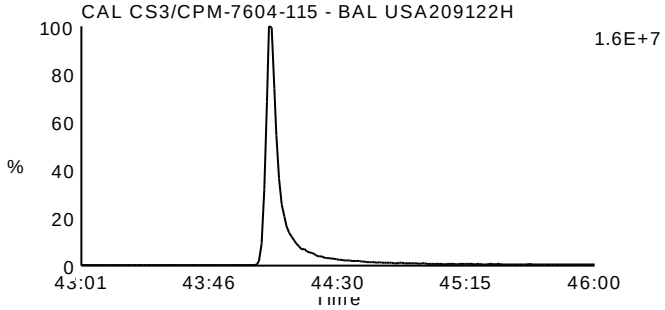
Data File: F110501B_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-115 - BAL USA209122H



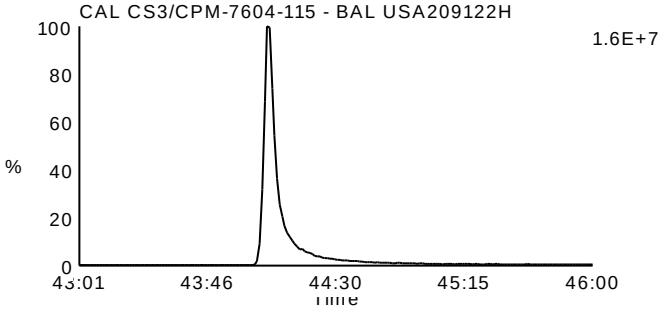
Data File: F110501B_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-115 - BAL USA209122H



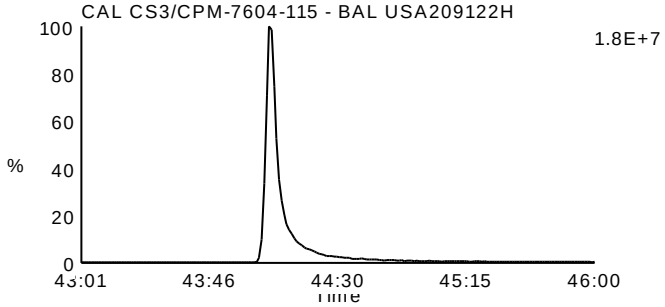
Data File: F110501B 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - BAL USA209122H



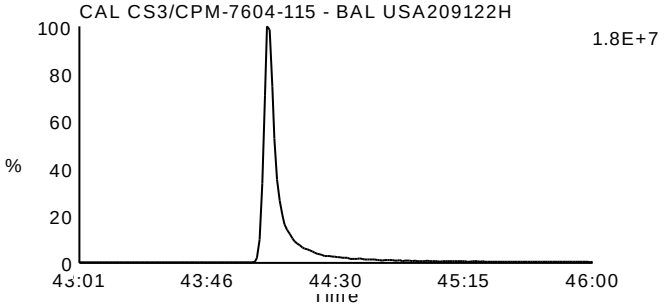
Data File: F110501B 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - BAL USA209122H



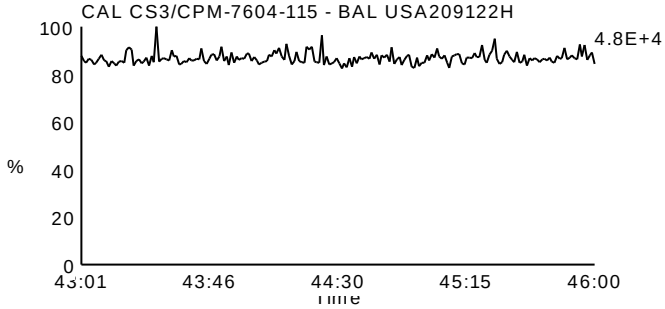
Data File: F110501B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - BAL USA209122H



Data File: F110501B_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-115 - BAL USA209122H



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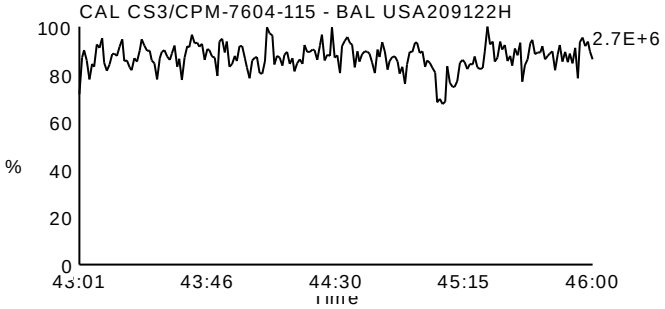
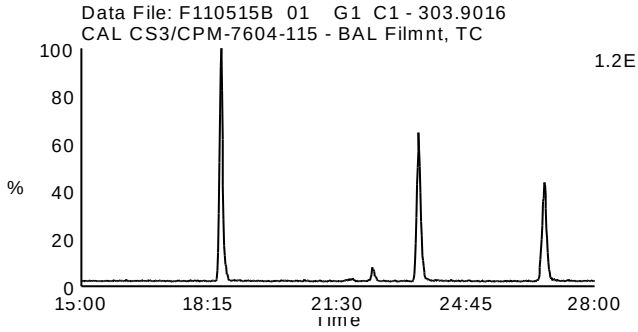
CAL CS3/CPM-7604-115 - BAL USA209122H

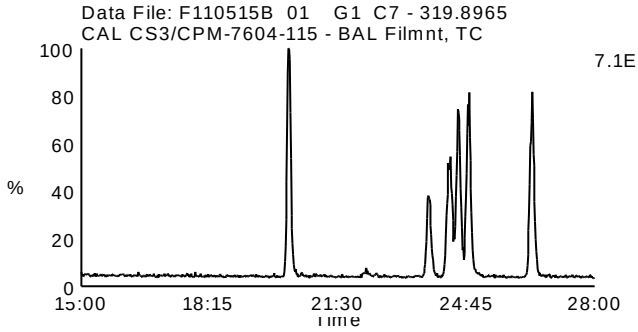


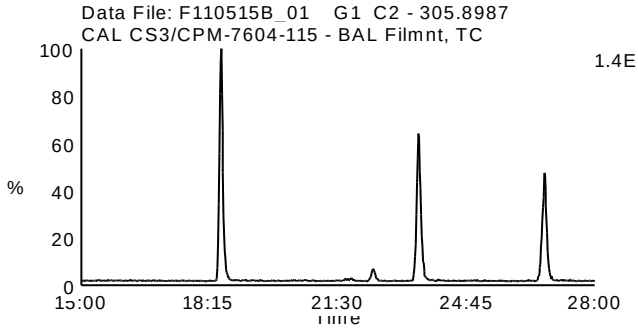
Homologue Group: Tetras

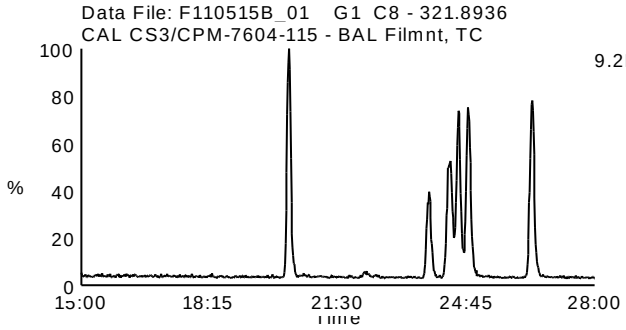
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

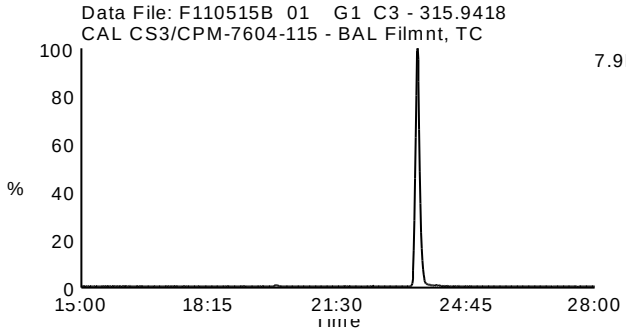
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

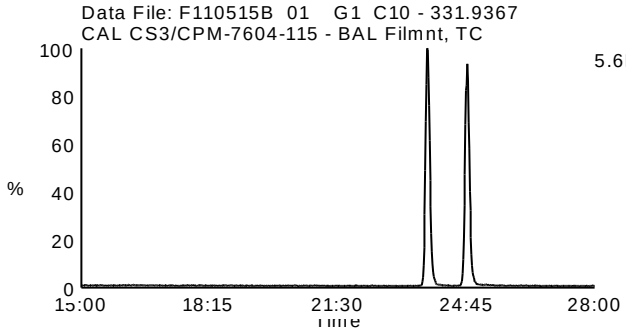


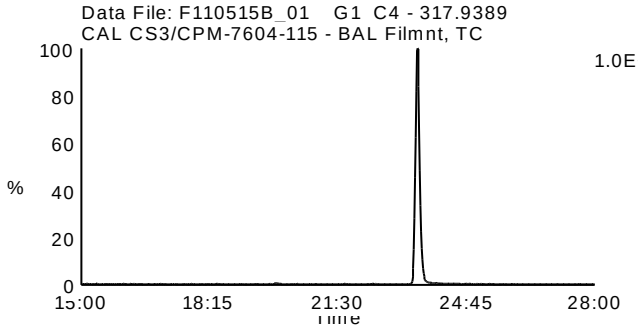


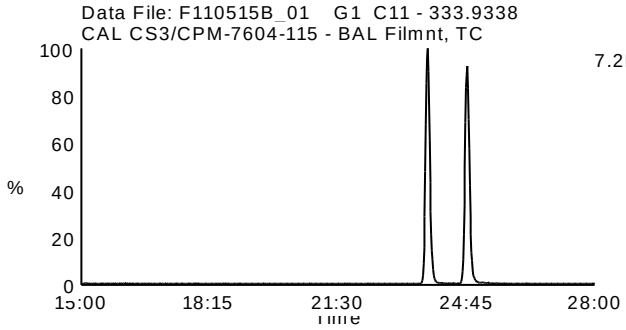


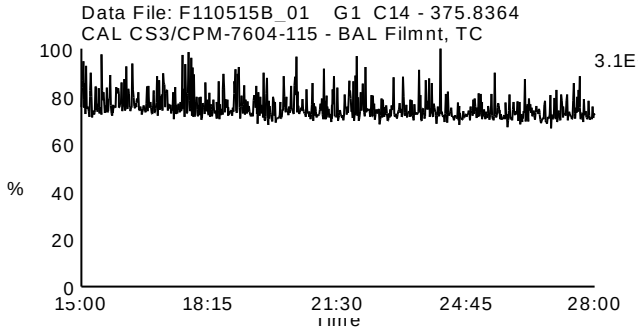


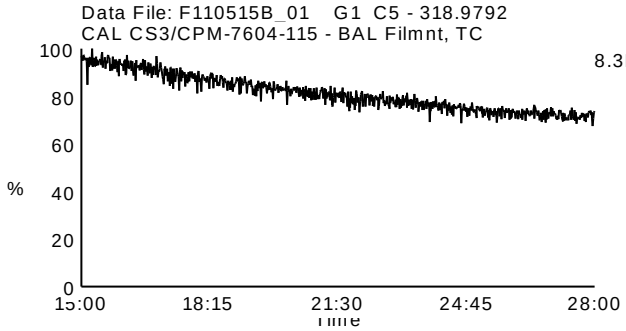








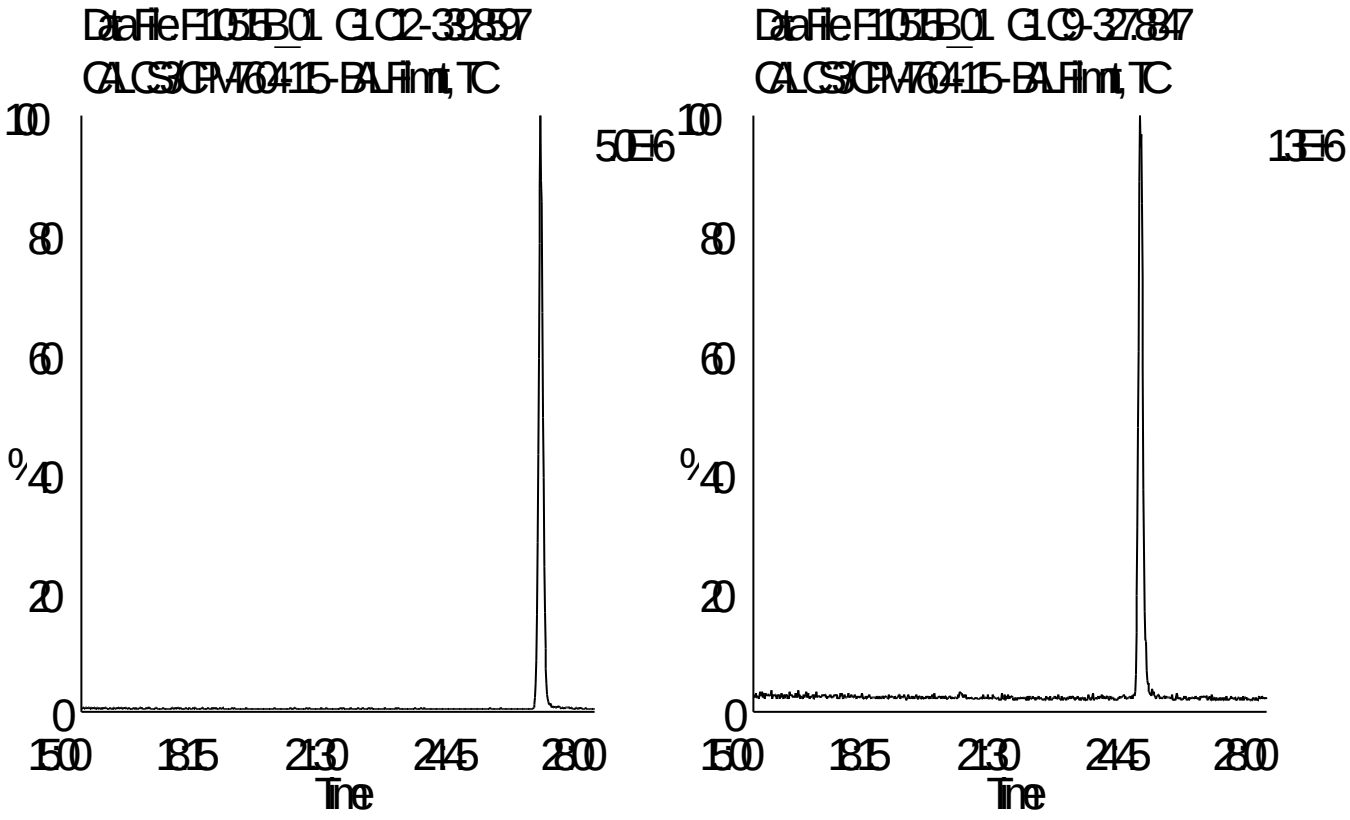




Homologue Group: Penta & Cleanup

Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

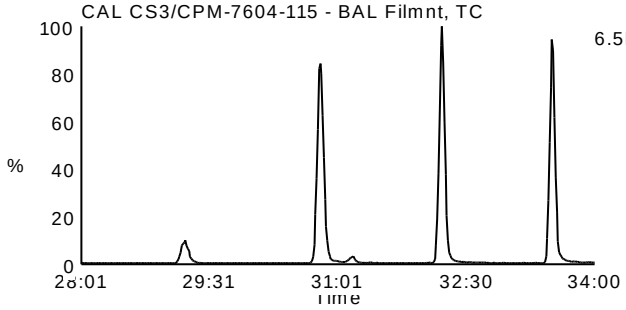


Homologue Group: Pentas

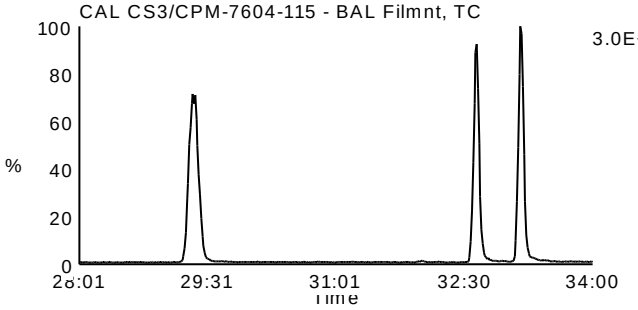
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

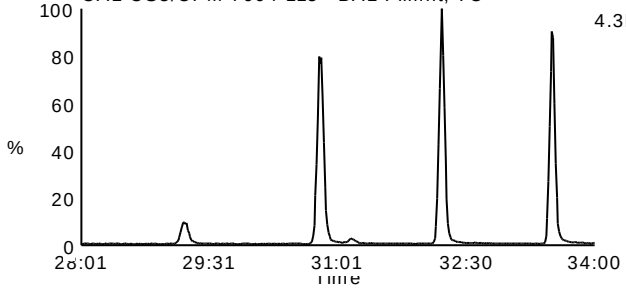
Data File: F110515B 01 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



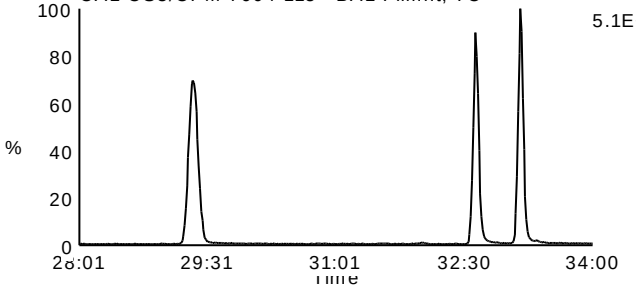
Data File: F110515B 01 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



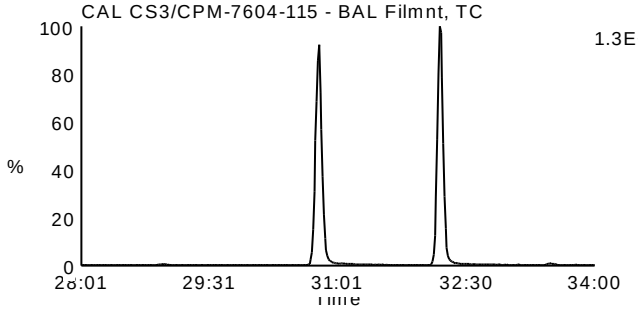
Data File: F110515B_01 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



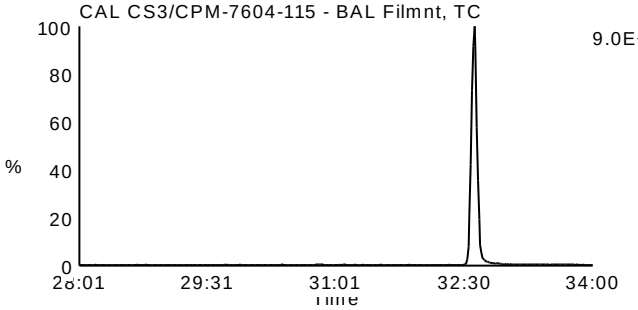
Data File: F110515B_01 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



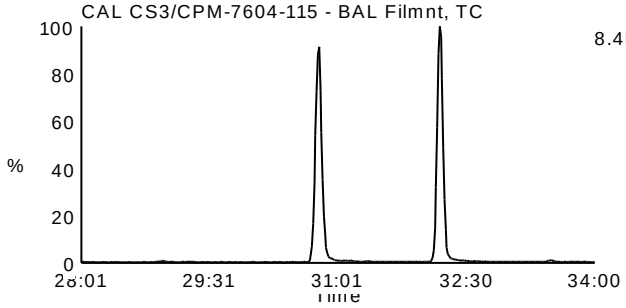
Data File: F110515B 01 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



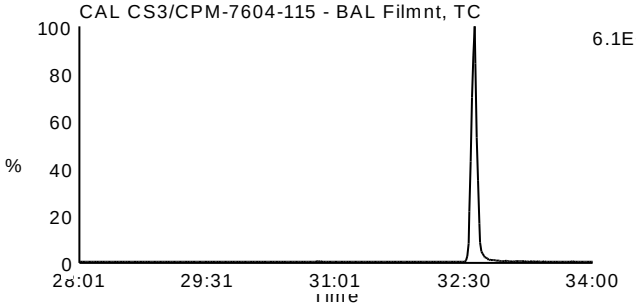
Data File: F110515B 01 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



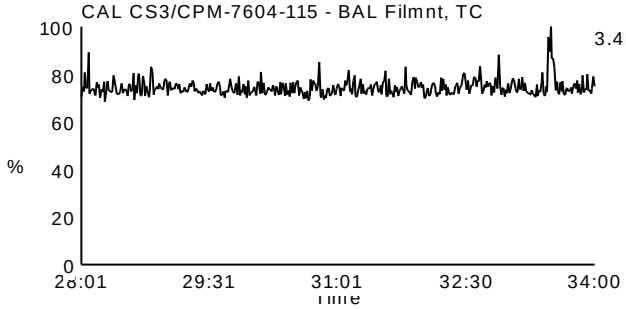
Data File: F110515B_01 G2 C5 - 353.8969
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



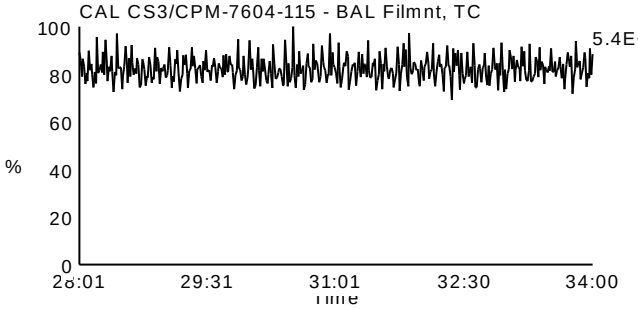
Data File: F110515B_01 G2 C11 - 369.8918
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G2 C12 - 409.7974
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



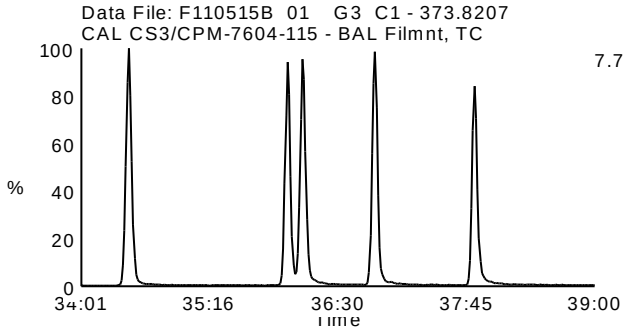
Data File: F110515B_01 G2 C6 - 354.9792
CAL CS3/CPM-7604-115 - BAL Filmnt, TC

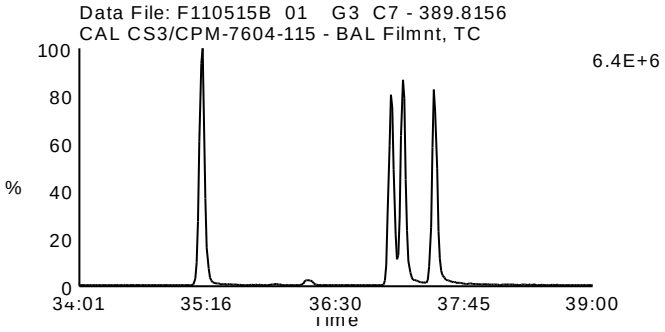


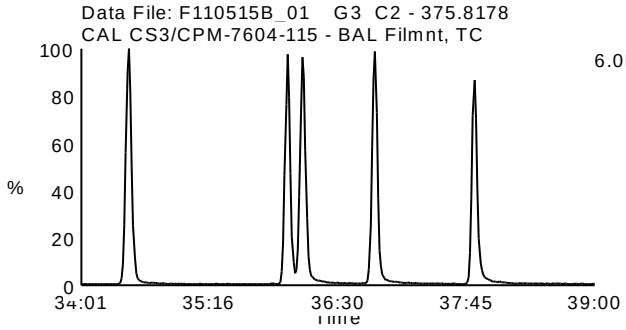
Homologue Group: Hexas

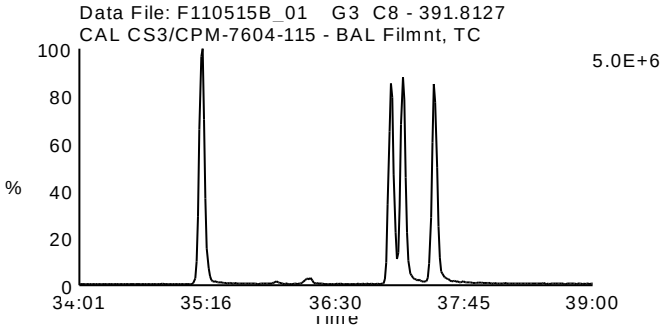
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

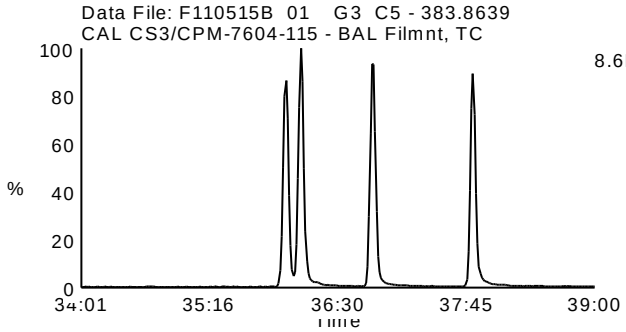
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

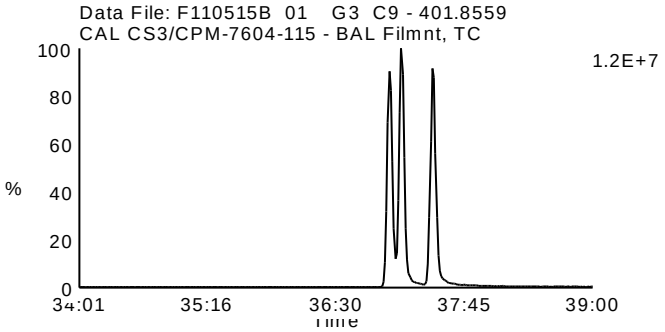


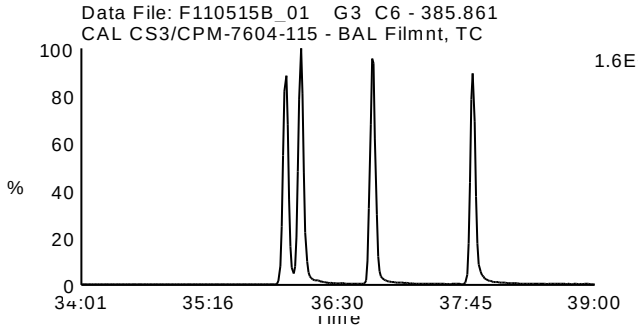


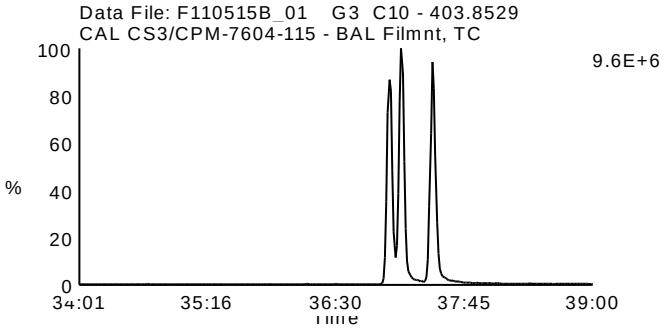


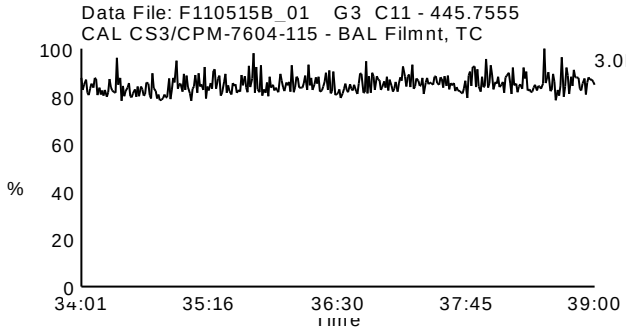


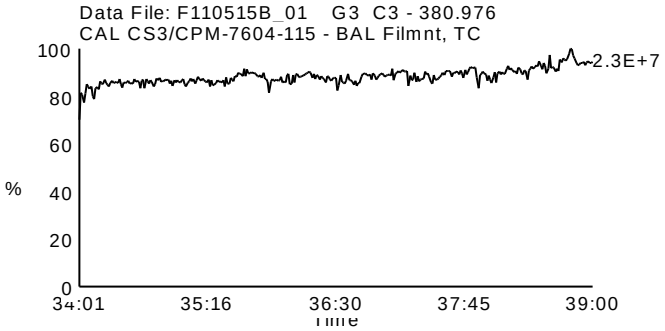










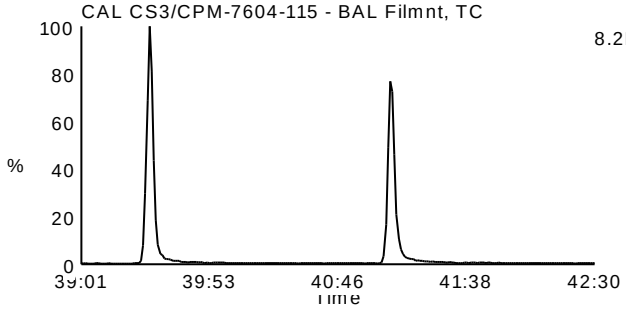


Homologue Group: Heptas

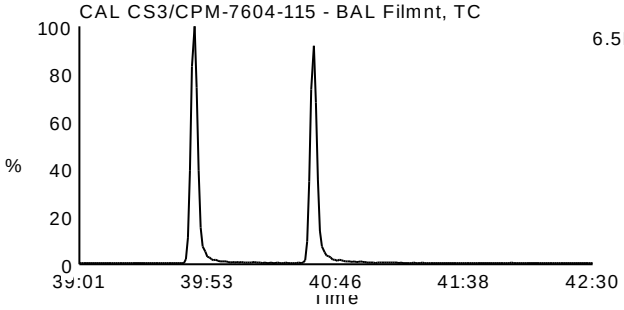
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

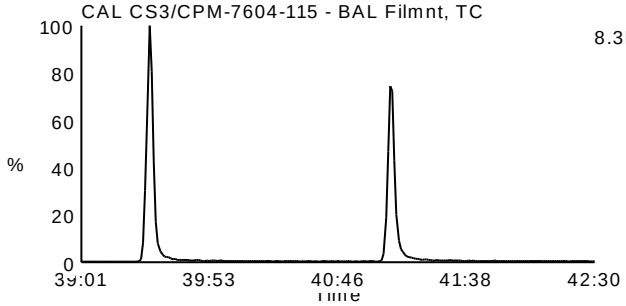
Data File: F110515B 01 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



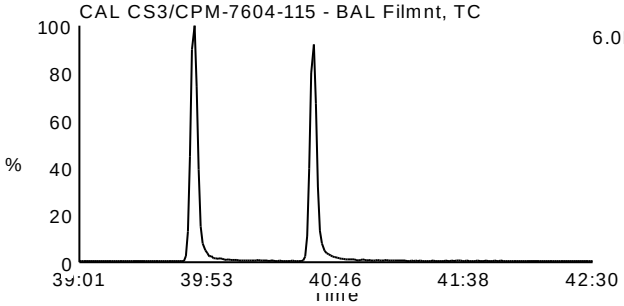
Data File: F110515B 01 G4 C8 - 423.7767
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



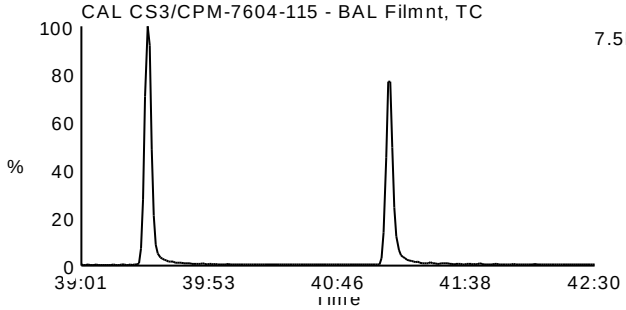
Data File: F110515B_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



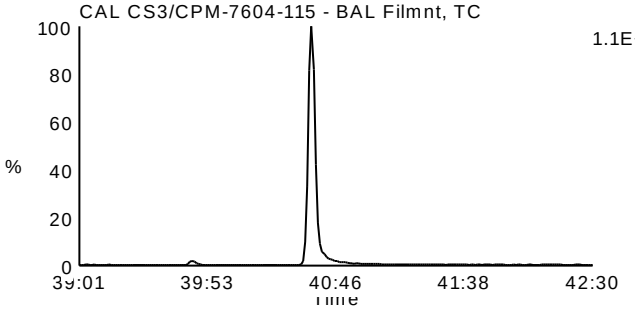
Data File: F110515B_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



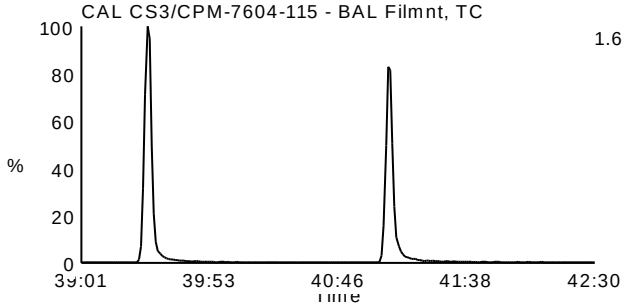
Data File: F110515B 01 G4 C6 - 417.825
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



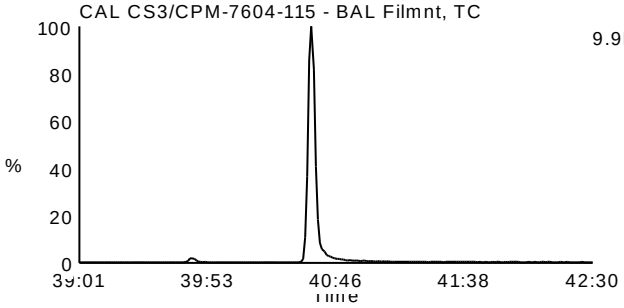
Data File: F110515B 01 G4 C11 - 435.8169
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



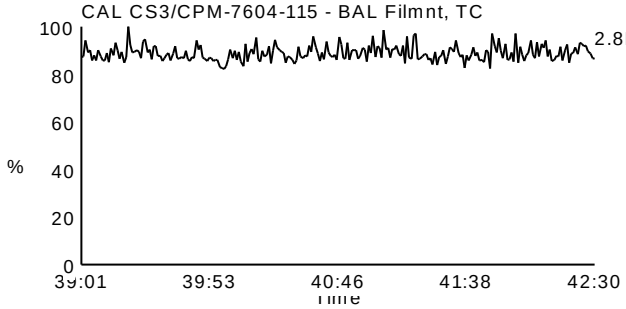
Data File: F110515B_01 G4 C7 - 419.822
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



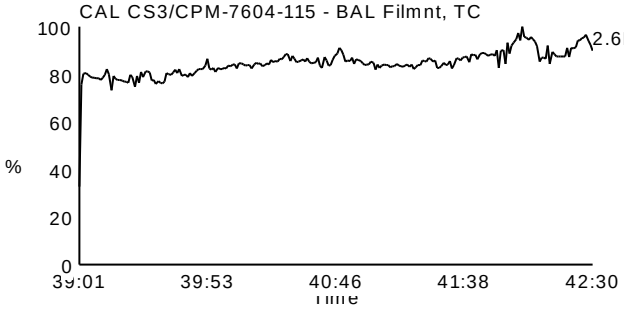
Data File: F110515B_01 G4 C12 - 437.814
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



Data File: F110515B_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-115 - BAL Filmnt, TC



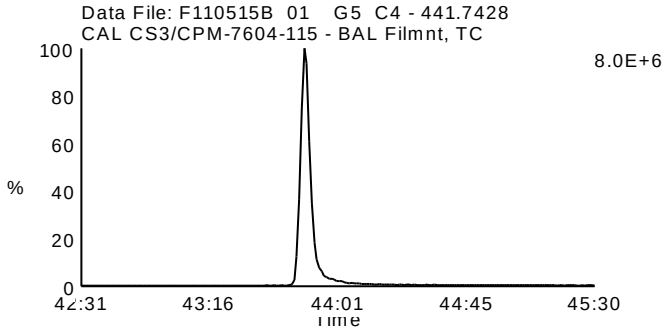
Data File: F110515B_01 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - BAL Filmnt, TC

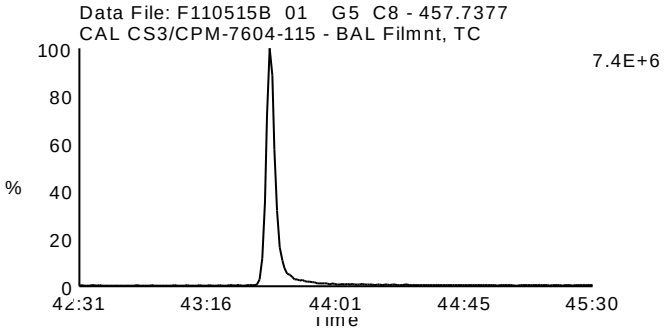


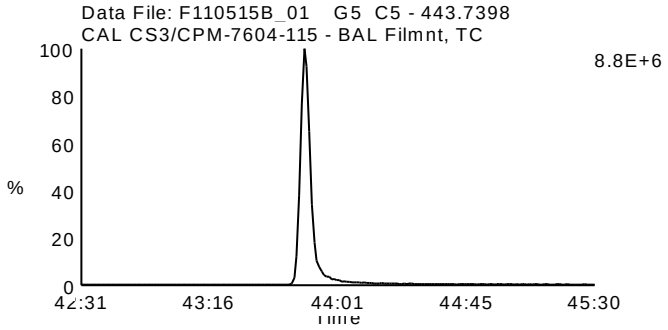
Homologue Group: Octas

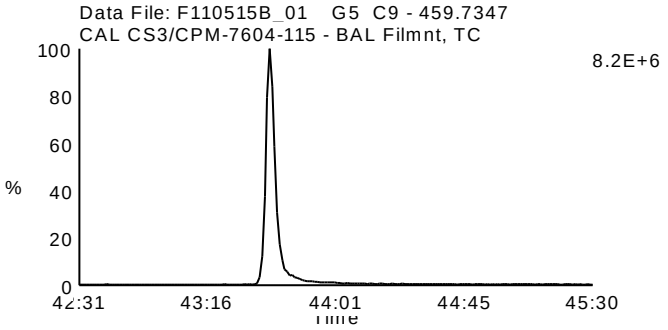
Data File Name: F110515B_01
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL Filmnt, TC

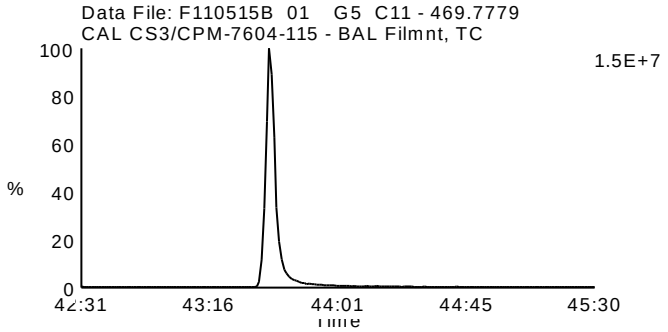
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR05 (F)

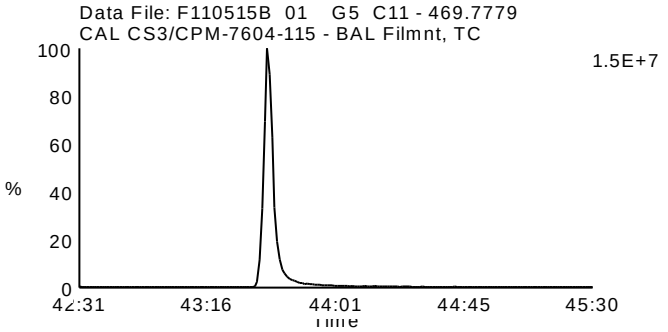


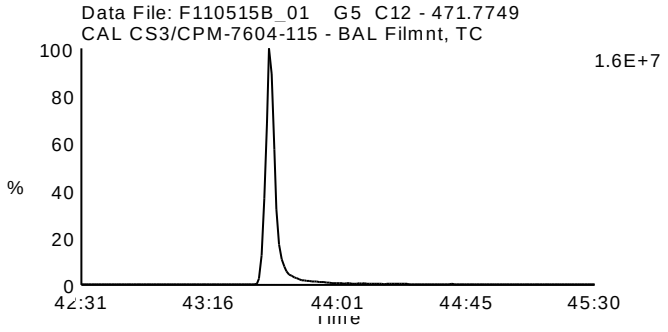


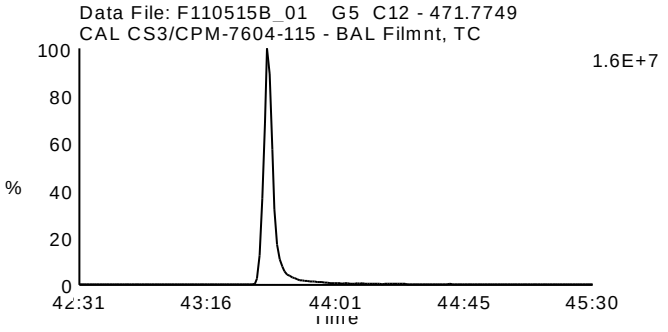


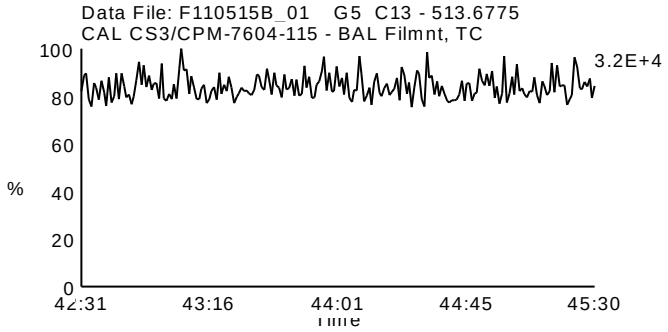


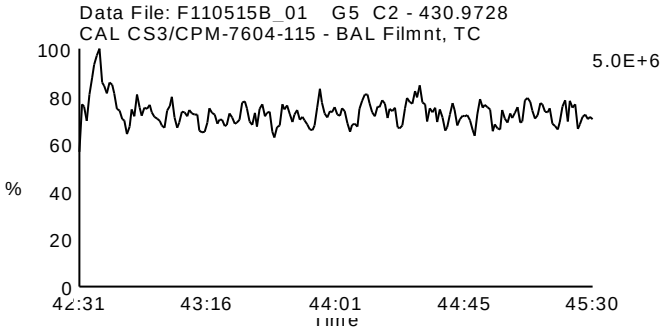










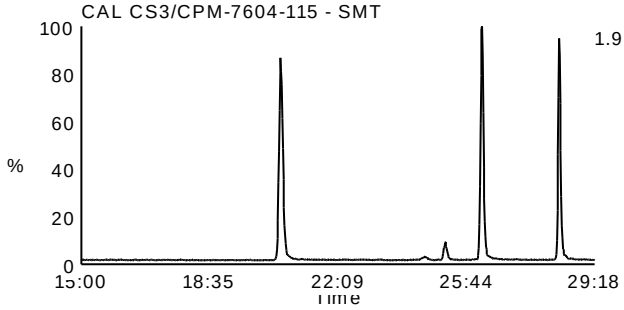


Homologue Group: Tetras

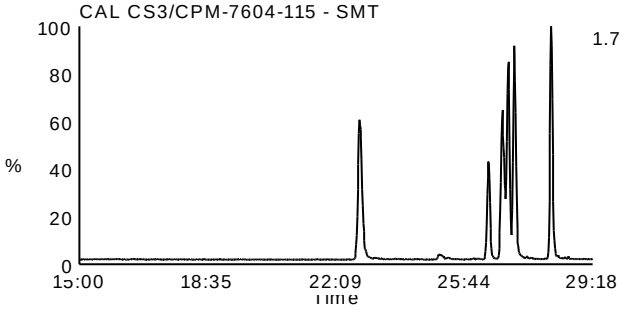
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

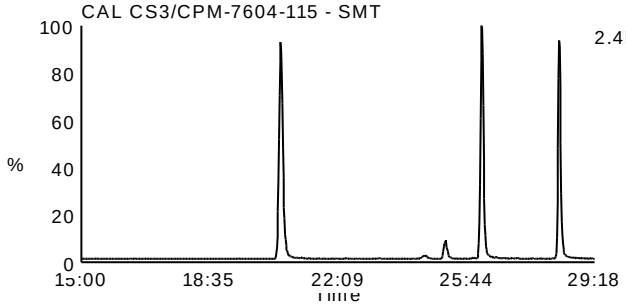
Data File: P110413A 01 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - SMT



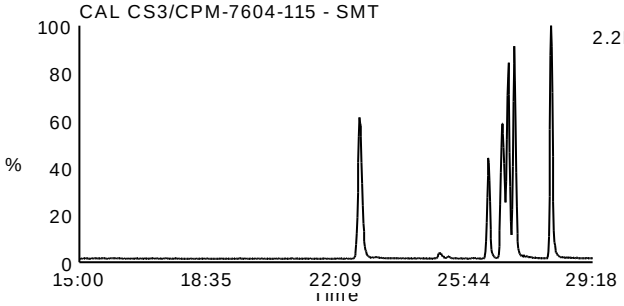
Data File: P110413A 01 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - SMT



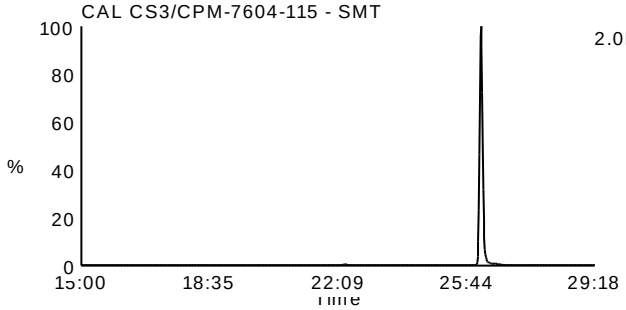
Data File: P110413A_01 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - SMT



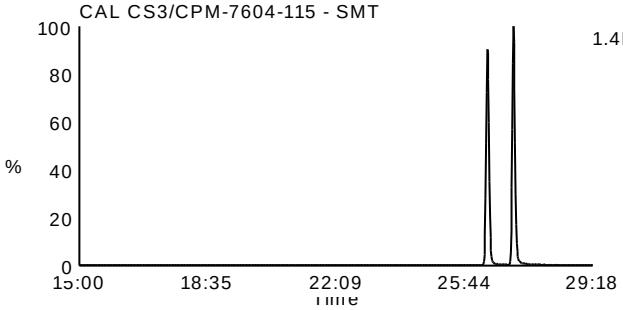
Data File: P110413A_01 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - SMT



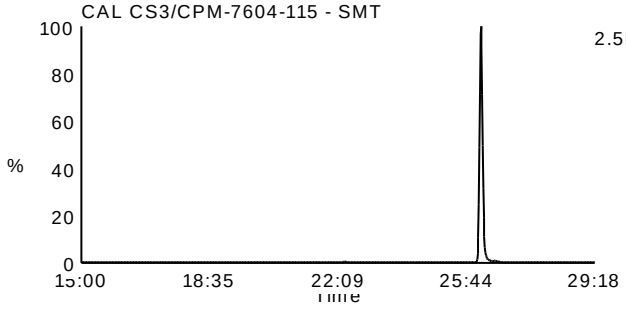
Data File: P110413A 01 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - SMT



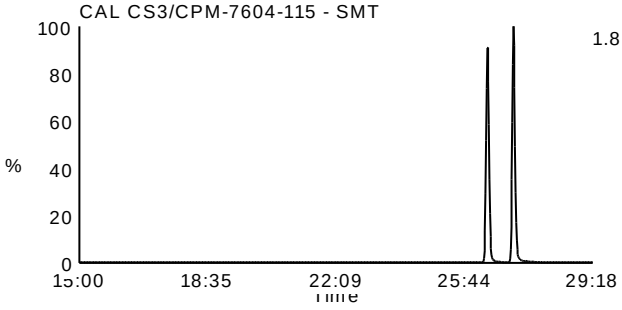
Data File: P110413A 01 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - SMT



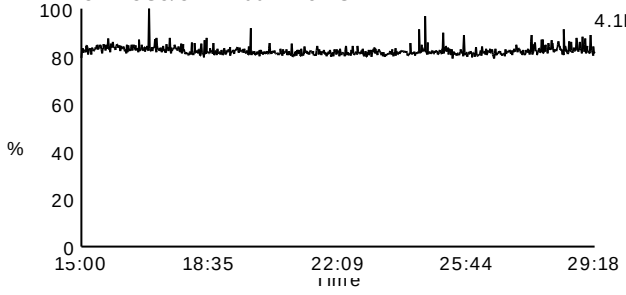
Data File: P110413A_01 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - SMT



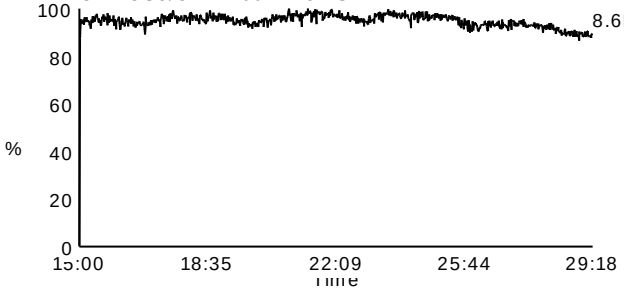
Data File: P110413A_01 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - SMT



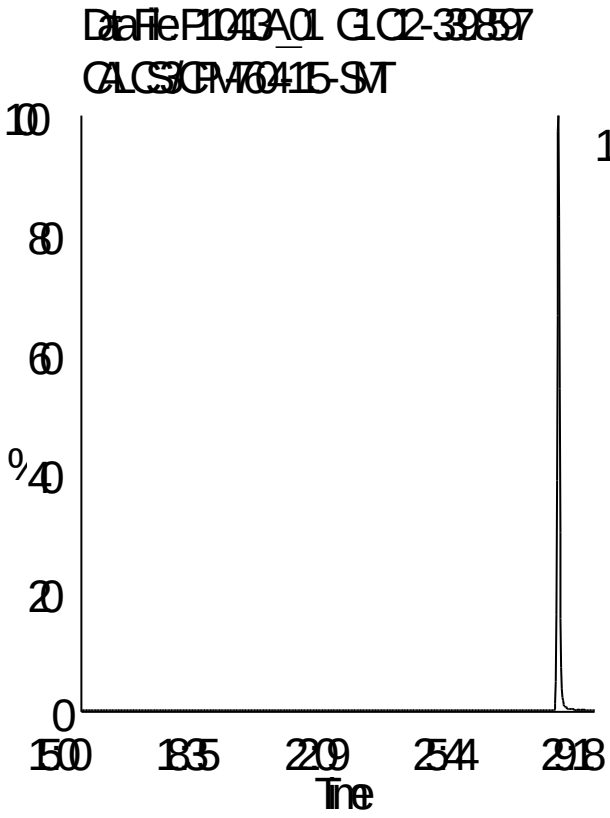
Data File: P110413A_01 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - SMT

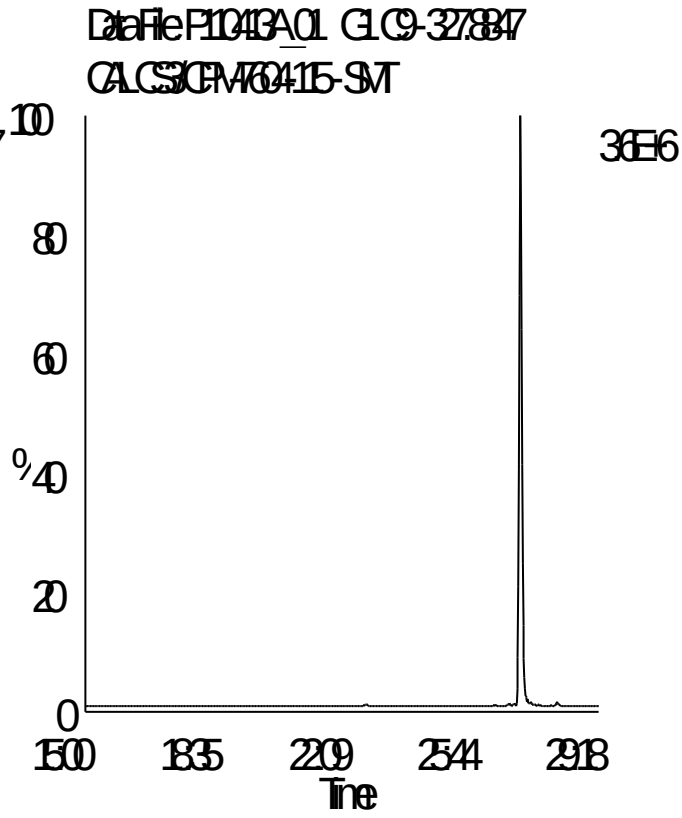


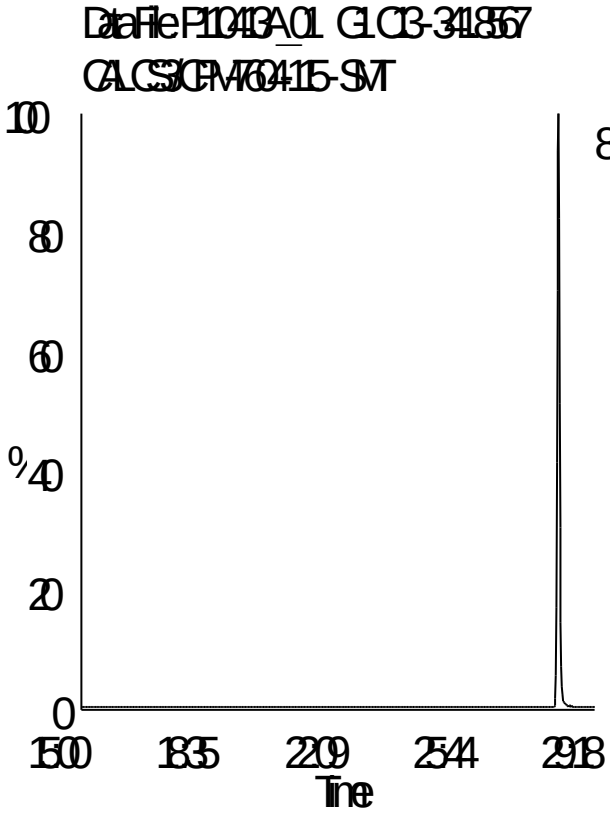
Homologue Group: Penta & Cleanup

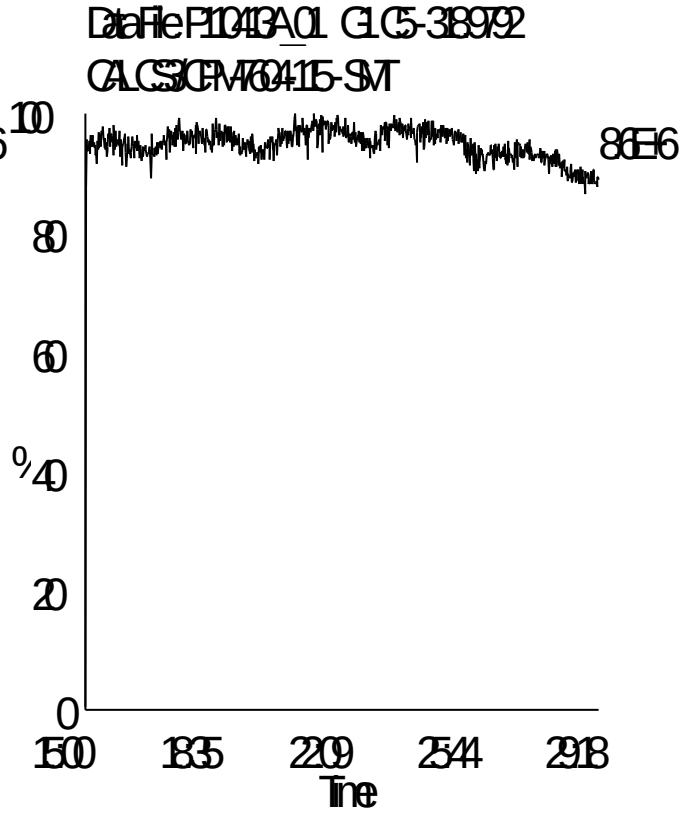
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)





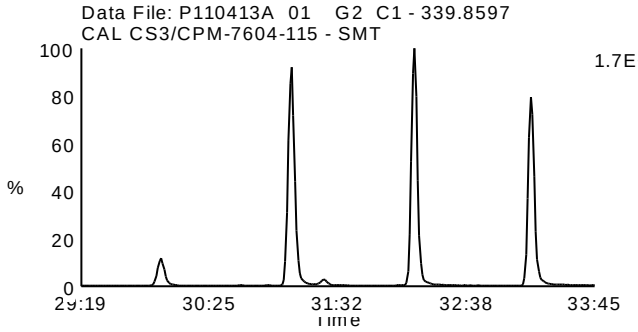


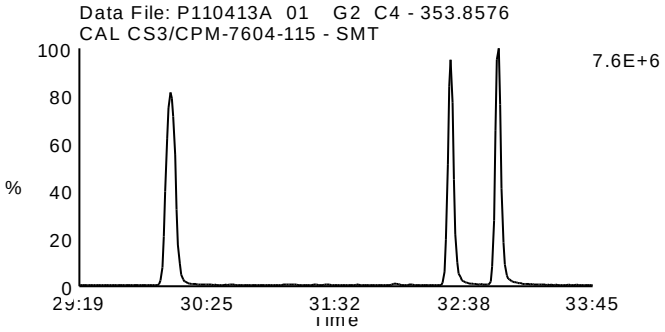


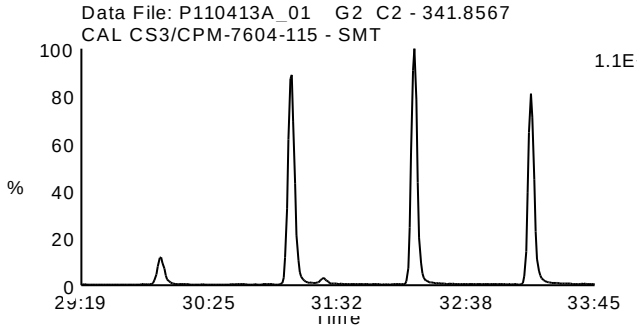
Homologue Group: Pentas

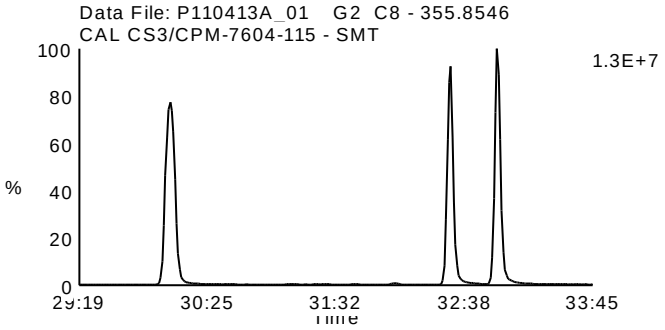
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

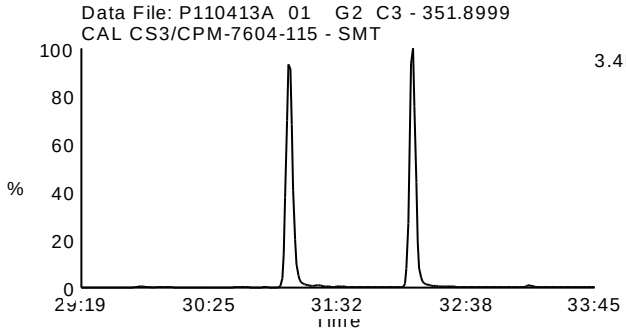
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

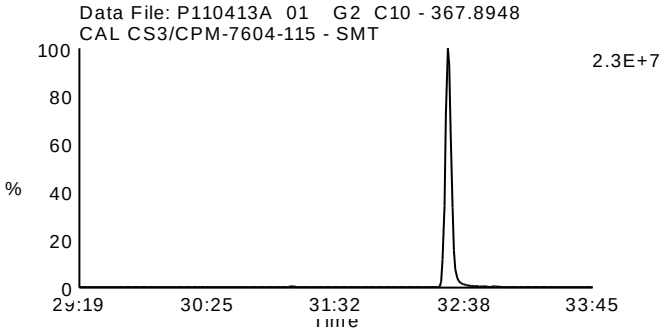


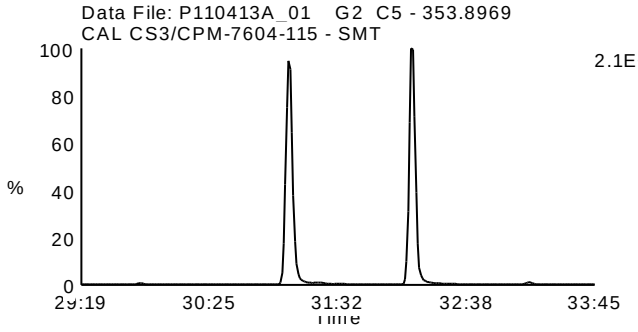


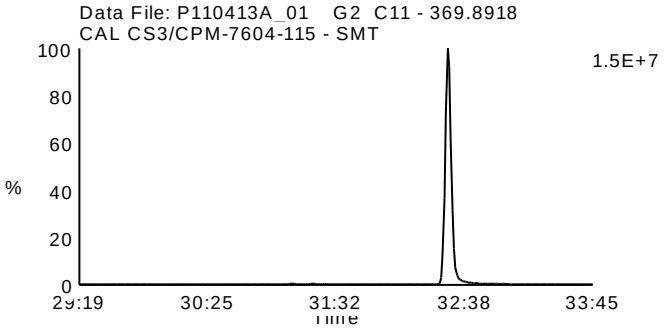


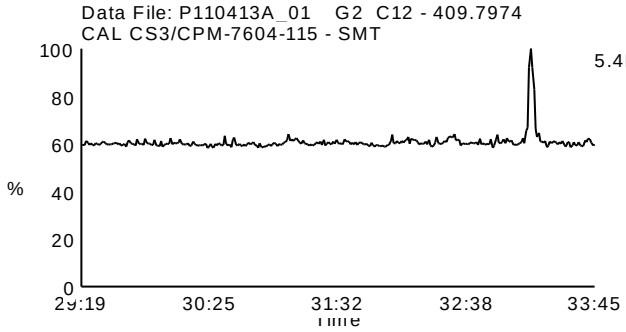


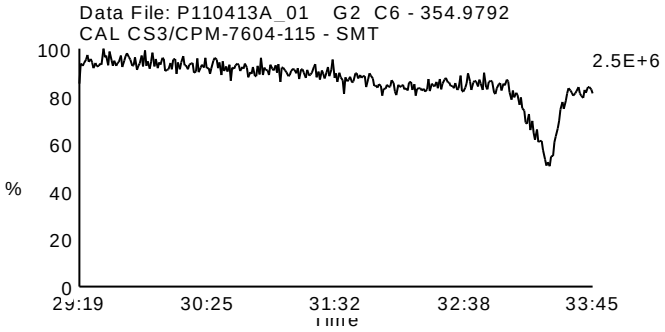








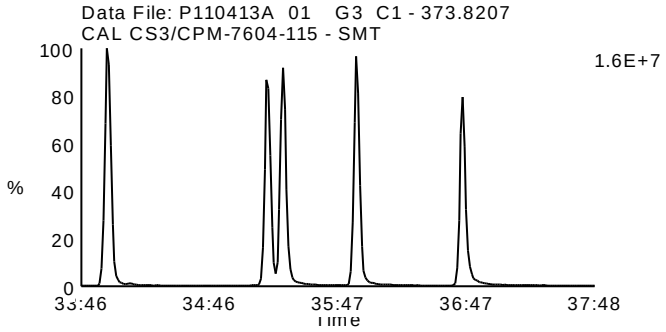


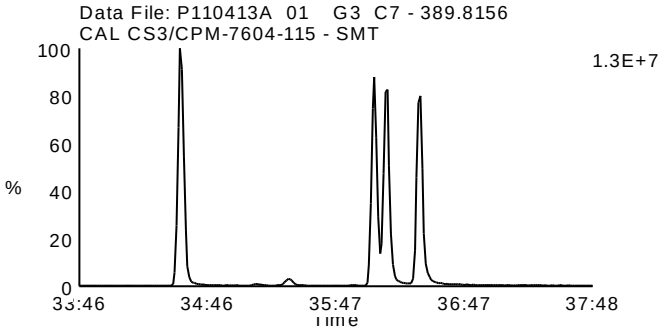


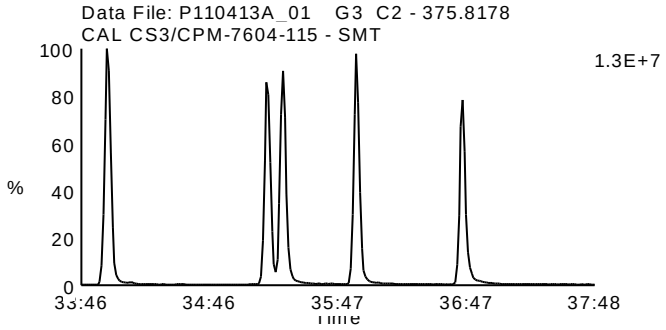
Homologue Group: Hexas

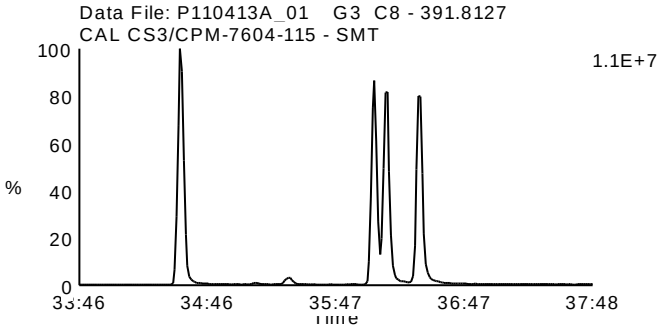
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

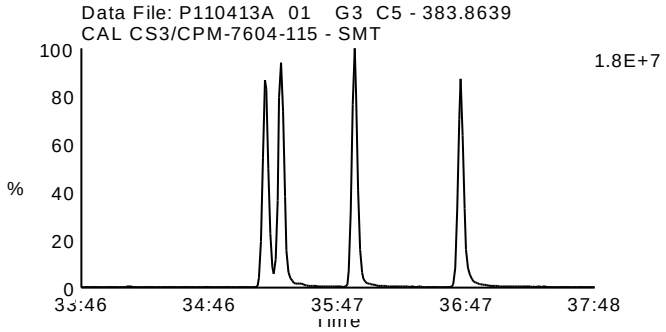
Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

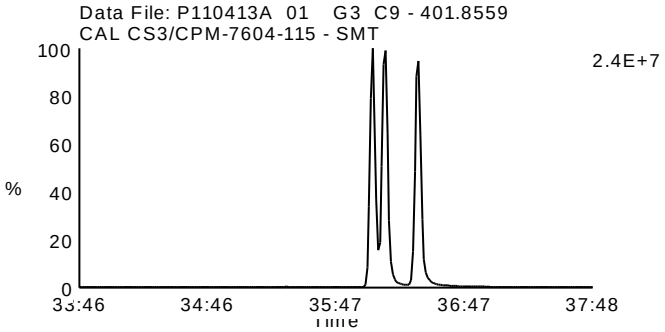


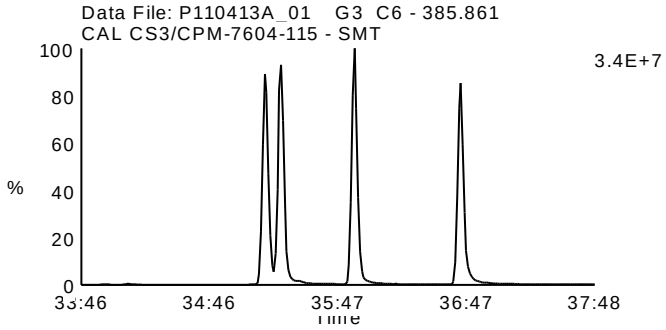


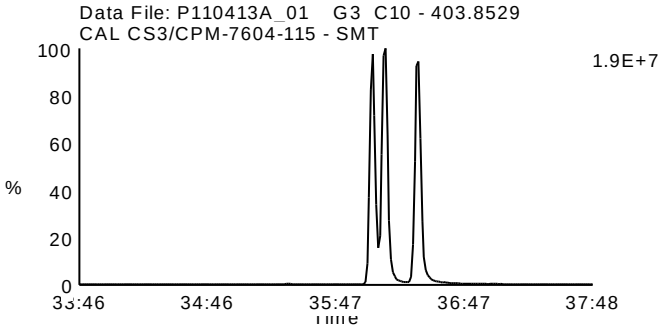


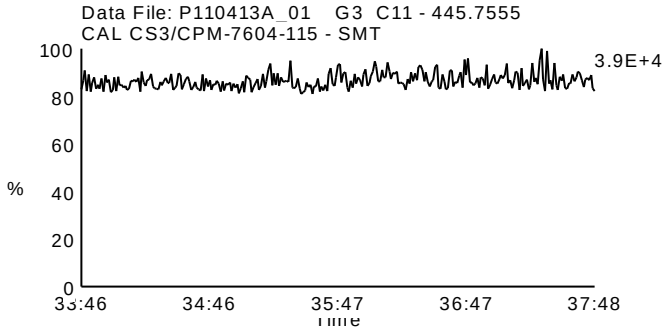


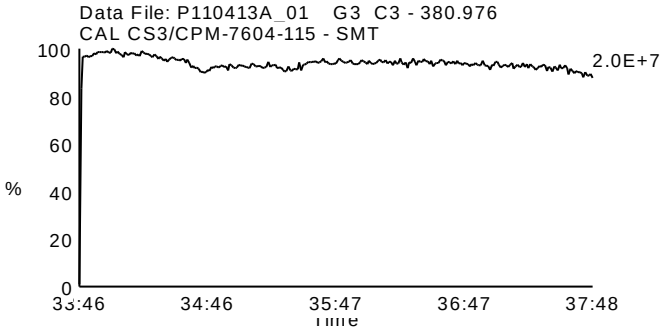










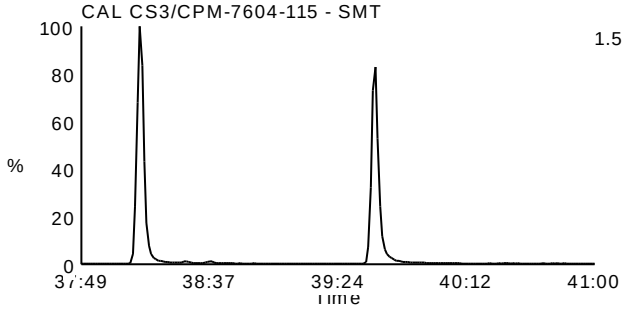


Homologue Group: Heptas

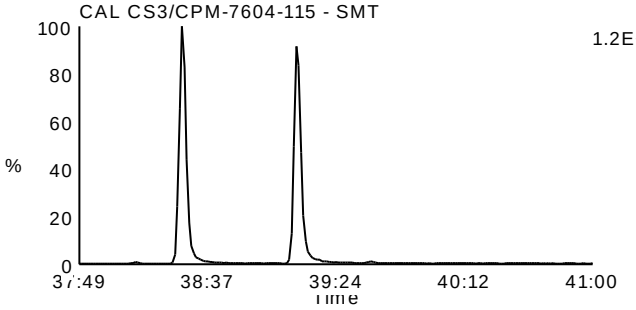
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

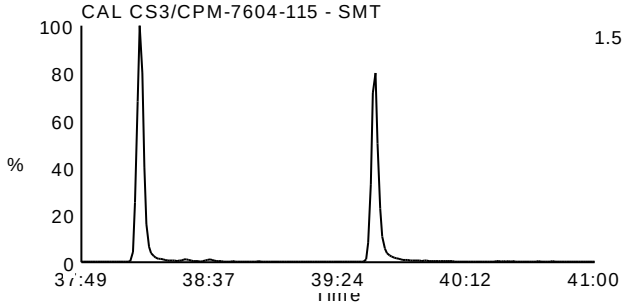
Data File: P110413A 01 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - SMT



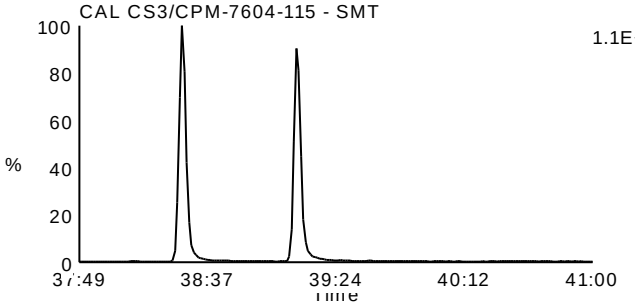
Data File: P110413A 01 G4 C8 - 423.7767
CAL CS3/CPM-7604-115 - SMT



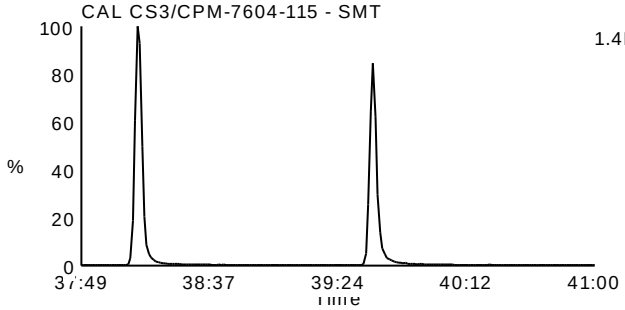
Data File: P110413A_01 G4 C4 - 409.7788
CAL CS3/CPM-7604-115 - SMT



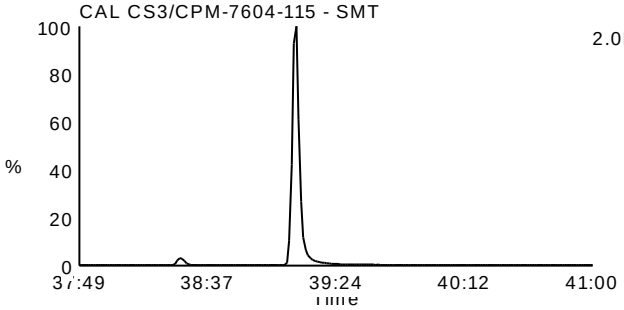
Data File: P110413A_01 G4 C9 - 425.7737
CAL CS3/CPM-7604-115 - SMT



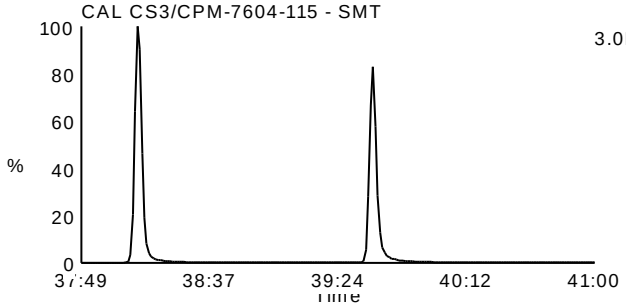
Data File: P110413A 01 G4 C6 - 417.825
CAL CS3/CPM-7604-115 - SMT



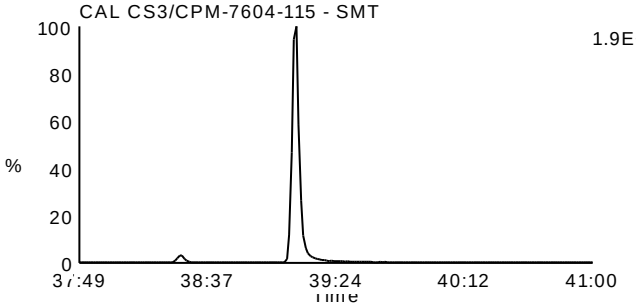
Data File: P110413A 01 G4 C11 - 435.8169
CAL CS3/CPM-7604-115 - SMT



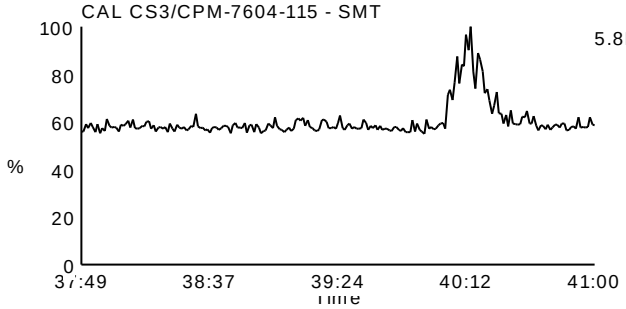
Data File: P110413A_01 G4 C7 - 419.822
CAL CS3/CPM-7604-115 - SMT



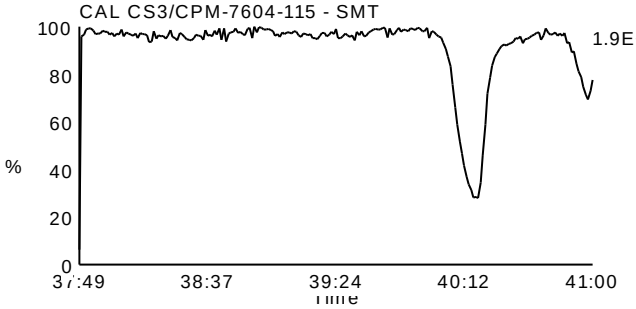
Data File: P110413A_01 G4 C12 - 437.814
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G4 C13 - 479.7165
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G4 C1 - 380.976
CAL CS3/CPM-7604-115 - SMT

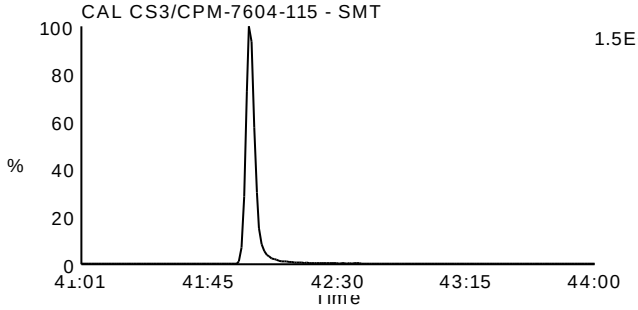


Homologue Group: Octas

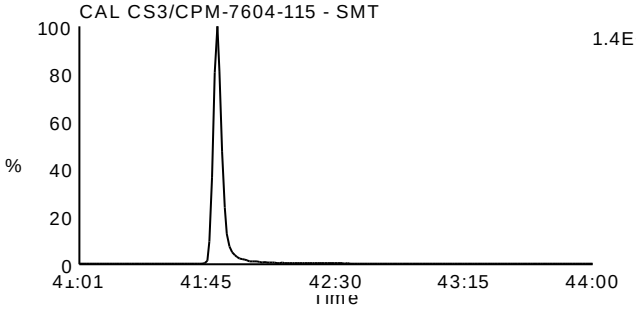
Data File Name: P110413A_01
Date Acquired: 4/13/2011
Sample Description: CAL CS3/CPM-7604-115 - SMT

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

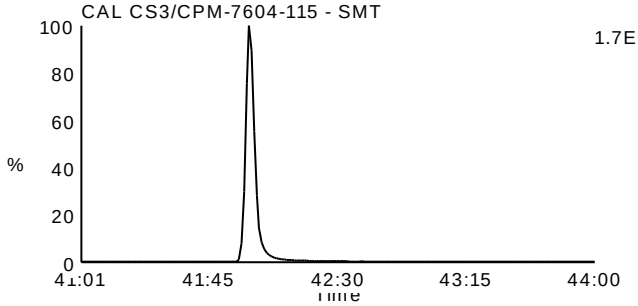
Data File: P110413A 01 G5 C4 - 441.7428
CAL CS3/CPM-7604-115 - SMT



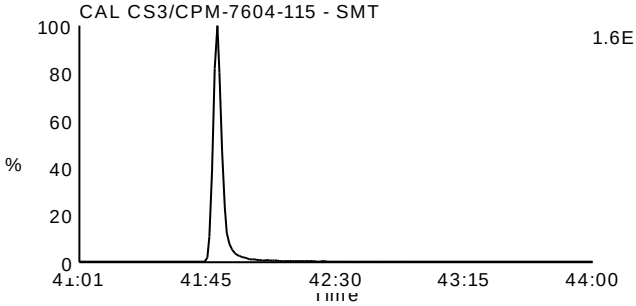
Data File: P110413A 01 G5 C8 - 457.7377
CAL CS3/CPM-7604-115 - SMT



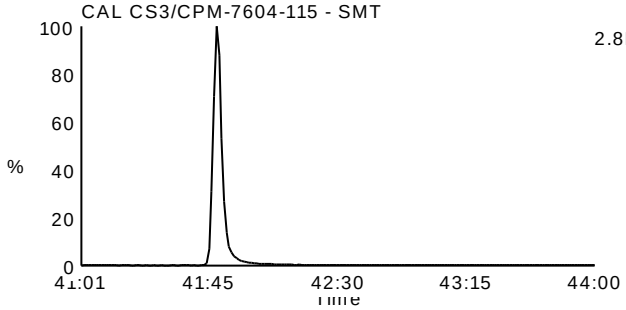
Data File: P110413A_01 G5 C5 - 443.7398
CAL CS3/CPM-7604-115 - SMT



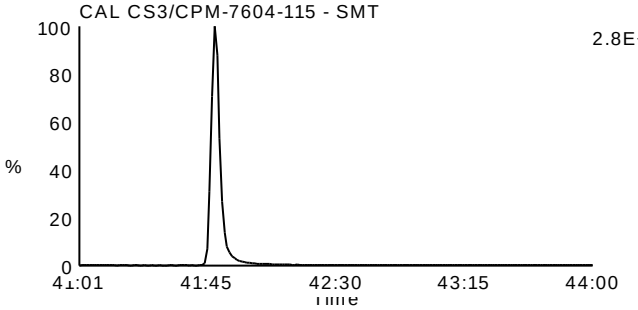
Data File: P110413A_01 G5 C9 - 459.7347
CAL CS3/CPM-7604-115 - SMT



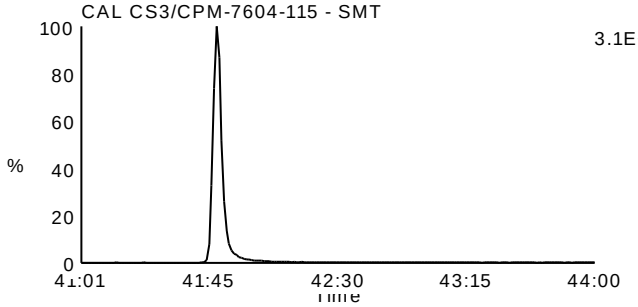
Data File: P110413A 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - SMT



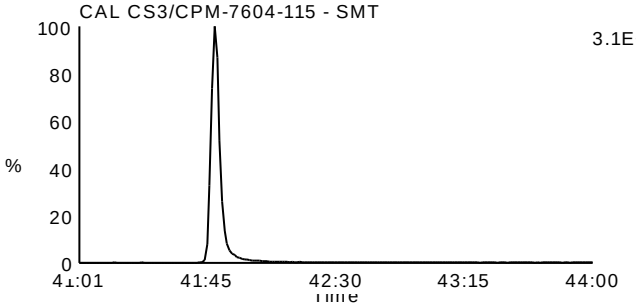
Data File: P110413A 01 G5 C11 - 469.7779
CAL CS3/CPM-7604-115 - SMT



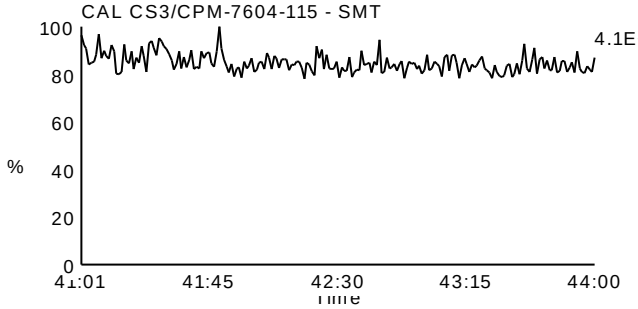
Data File: P110413A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - SMT



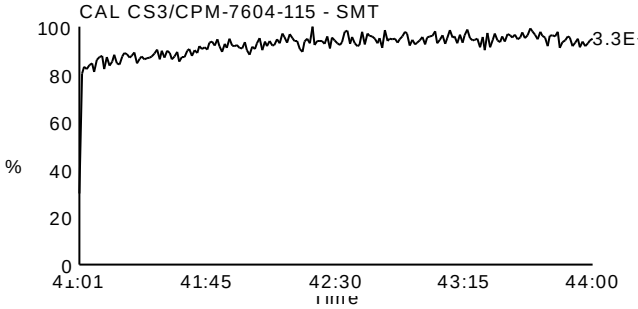
Data File: P110413A_01 G5 C12 - 471.7749
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G5 C13 - 513.6775
CAL CS3/CPM-7604-115 - SMT



Data File: P110413A_01 G5 C2 - 430.9728
CAL CS3/CPM-7604-115 - SMT

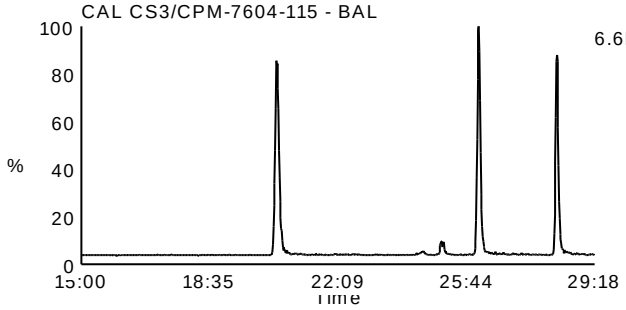


Homologue Group: Tetras

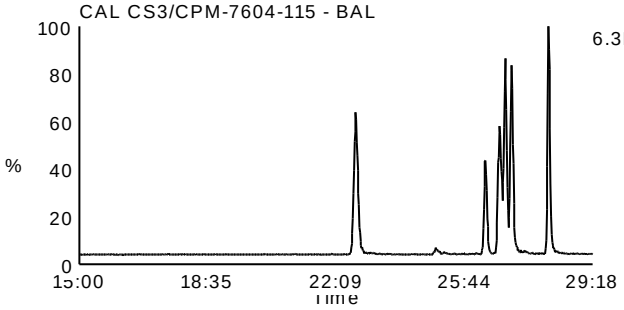
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

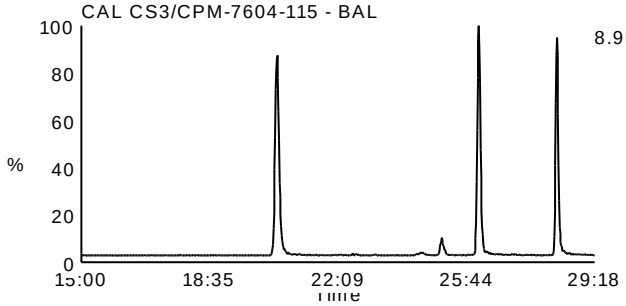
Data File: P110514B 07 G1 C1 - 303.9016
CAL CS3/CPM-7604-115 - BAL



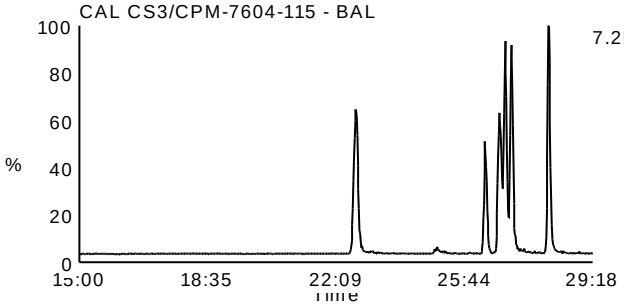
Data File: P110514B 07 G1 C7 - 319.8965
CAL CS3/CPM-7604-115 - BAL



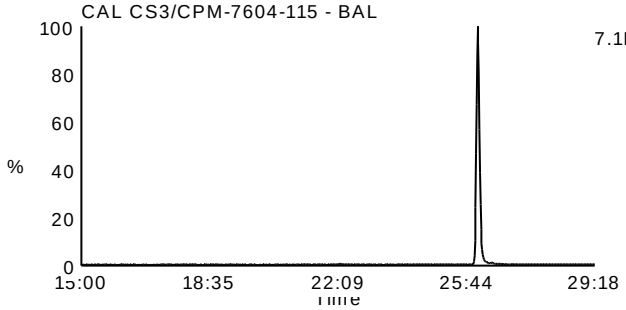
Data File: P110514B_07 G1 C2 - 305.8987
CAL CS3/CPM-7604-115 - BAL



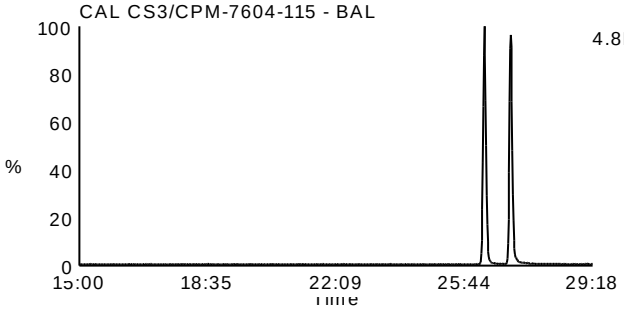
Data File: P110514B_07 G1 C8 - 321.8936
CAL CS3/CPM-7604-115 - BAL



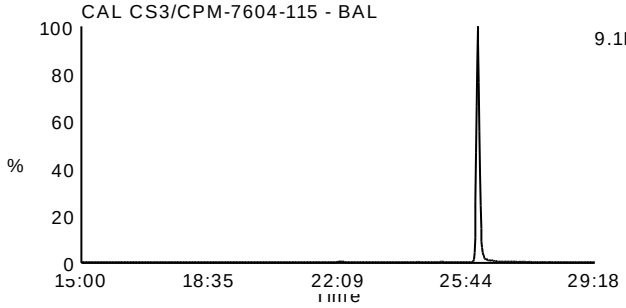
Data File: P110514B 07 G1 C3 - 315.9418
CAL CS3/CPM-7604-115 - BAL



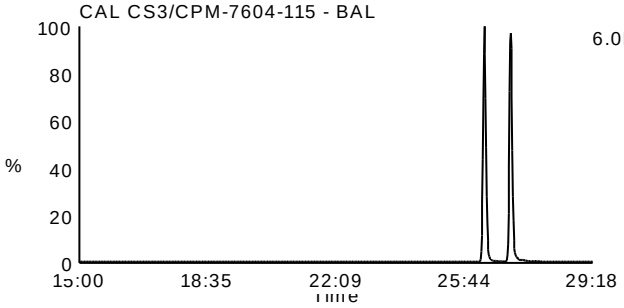
Data File: P110514B 07 G1 C10 - 331.9367
CAL CS3/CPM-7604-115 - BAL



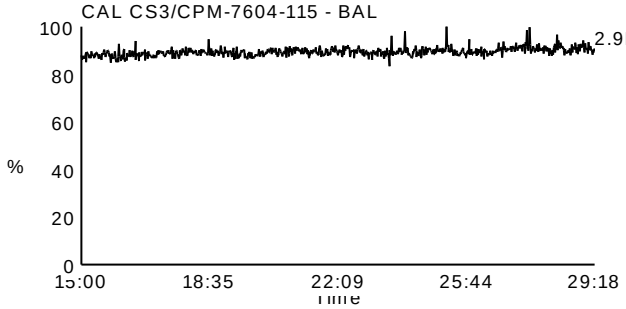
Data File: P110514B_07 G1 C4 - 317.9389
CAL CS3/CPM-7604-115 - BAL



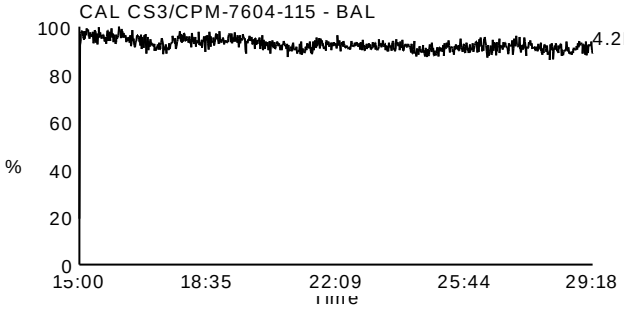
Data File: P110514B_07 G1 C11 - 333.9338
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B_07 G1 C14 - 375.8364
CAL CS3/CPM-7604-115 - BAL



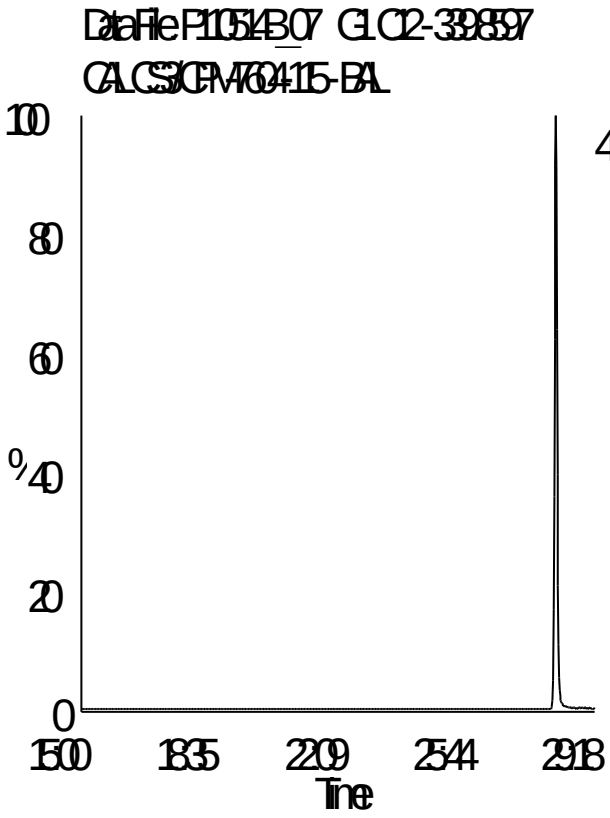
Data File: P110514B_07 G1 C5 - 318.9792
CAL CS3/CPM-7604-115 - BAL

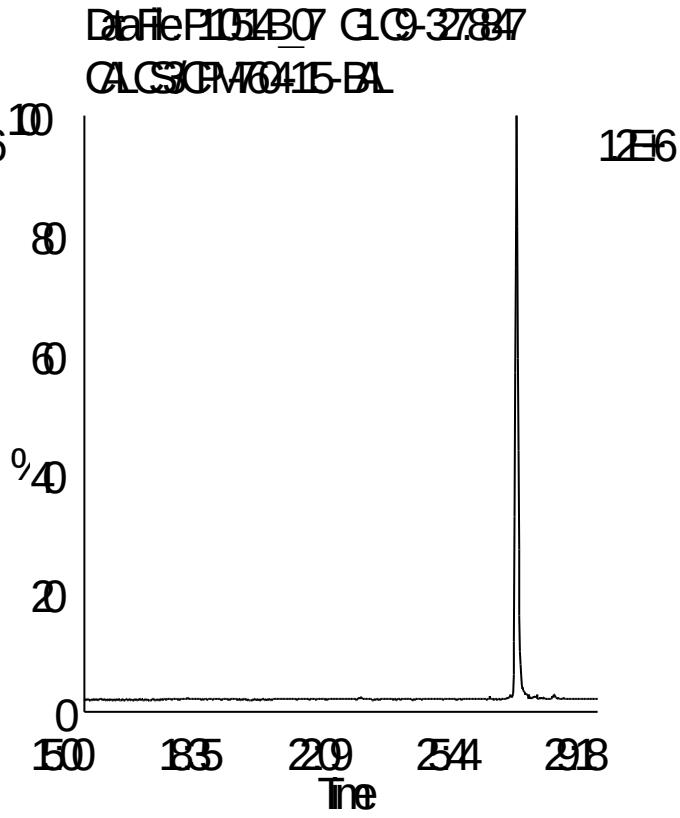


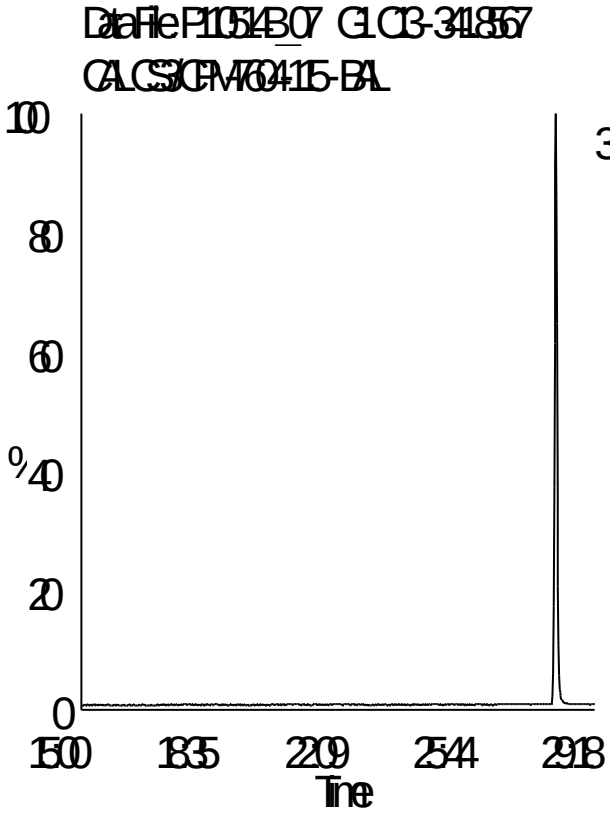
Homologue Group: Penta & Cleanup

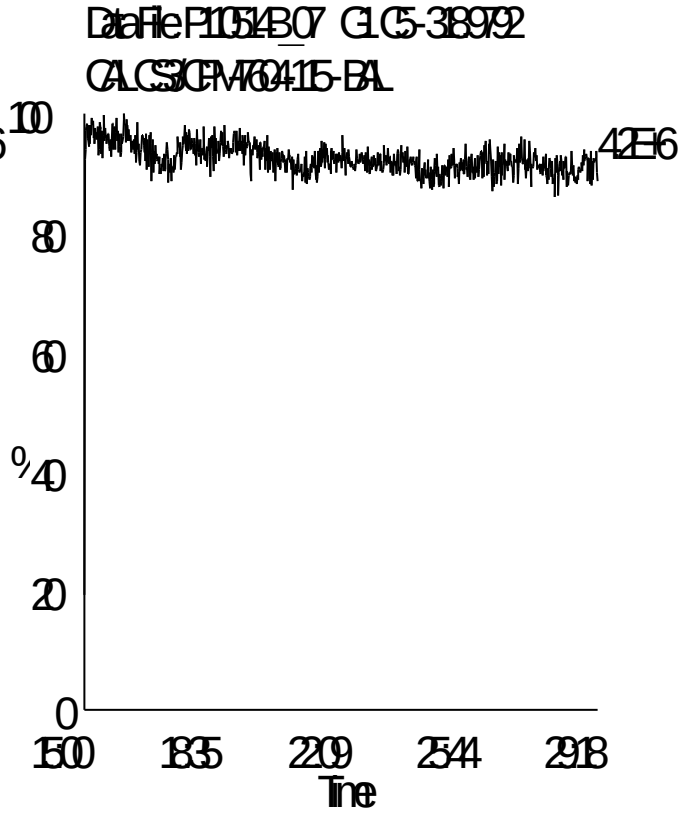
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)







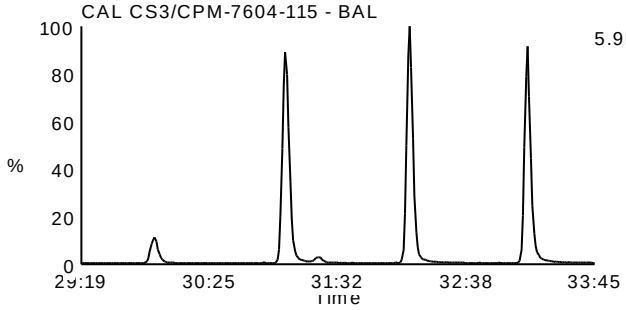


Homologue Group: Pentas

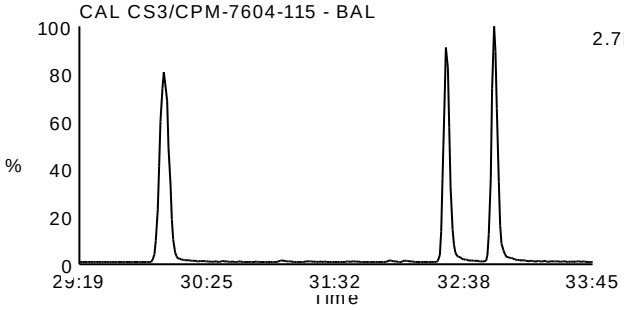
Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

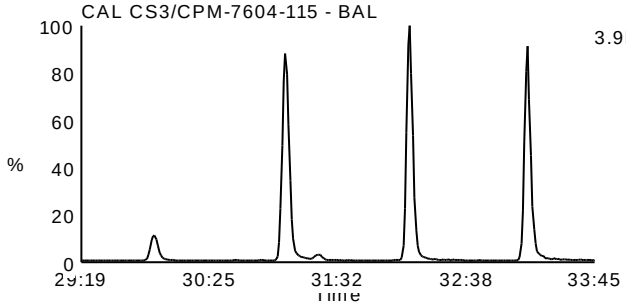
Data File: P110514B 07 G2 C1 - 339.8597
CAL CS3/CPM-7604-115 - BAL



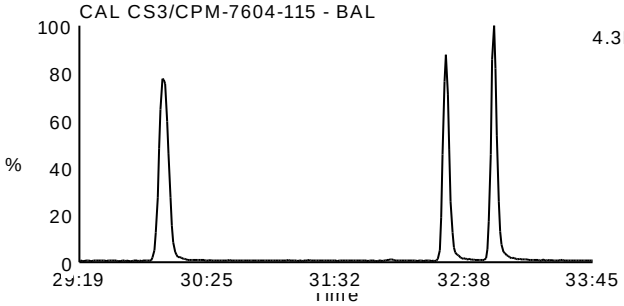
Data File: P110514B 07 G2 C4 - 353.8576
CAL CS3/CPM-7604-115 - BAL



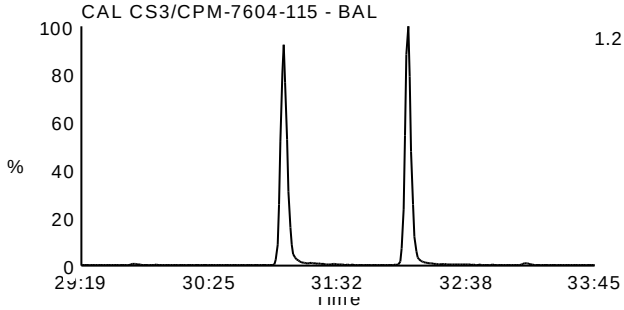
Data File: P110514B_07 G2 C2 - 341.8567
CAL CS3/CPM-7604-115 - BAL



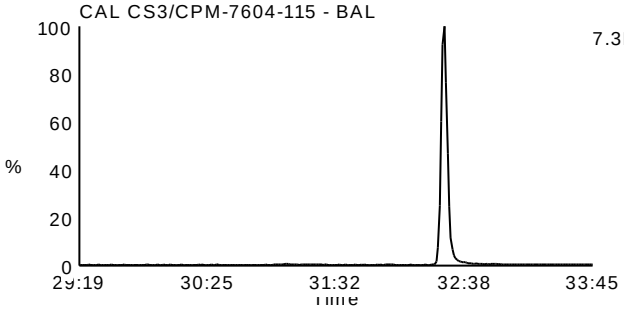
Data File: P110514B_07 G2 C8 - 355.8546
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B 07 G2 C3 - 351.8999
CAL CS3/CPM-7604-115 - BAL



Data File: P110514B 07 G2 C10 - 367.8948
CAL CS3/CPM-7604-115 - BAL



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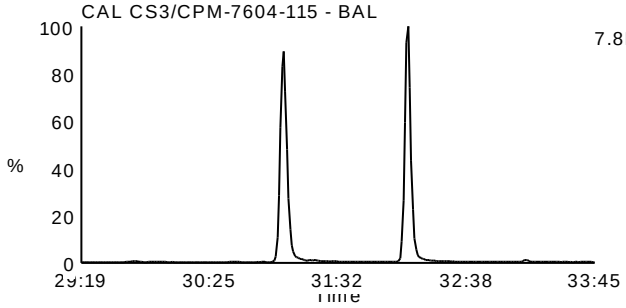
CAL CS3/CPM-7604-115 - BAL



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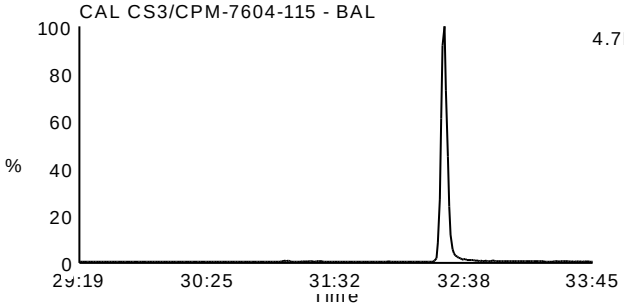
CAL CS3/CPM-7604-115 - BAL



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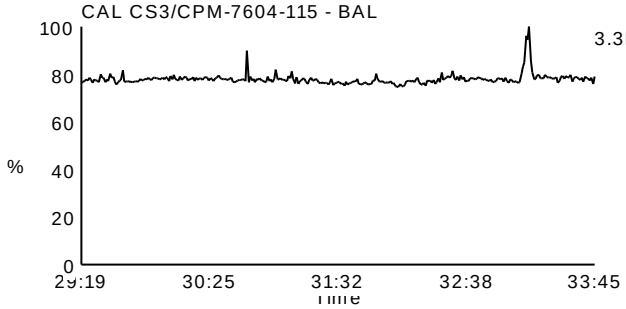

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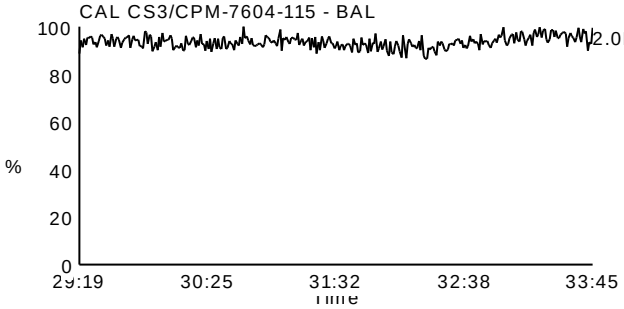
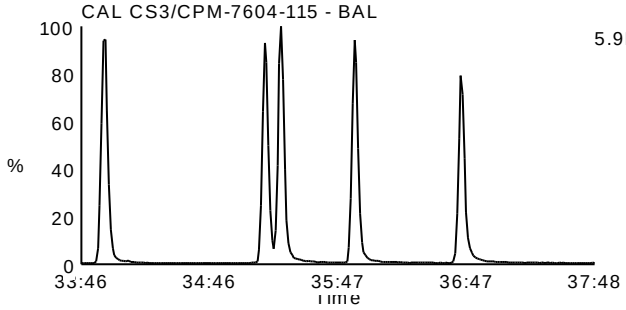


Homologue Group: Hexas

Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

Data File: P110514B 07 G3 C1 - 373.8207
CAL CS3/CPM-7604-115 - BAL



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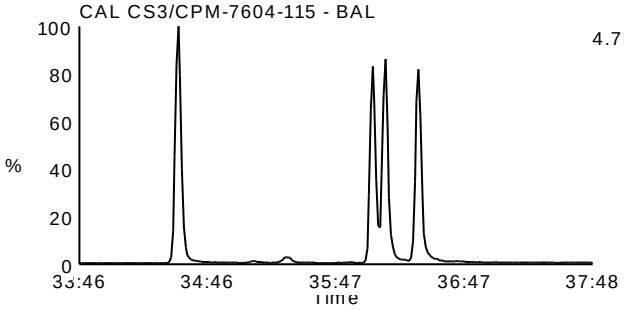
CAL CS3/CPM-7604-115 - BAL



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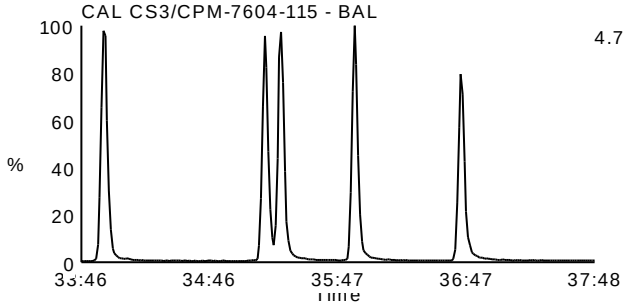
CAL CS3/CPM-7604-115 - BAL



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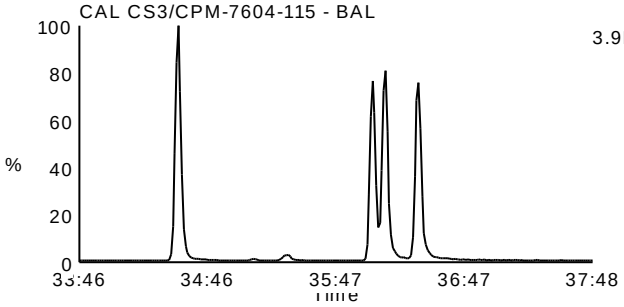

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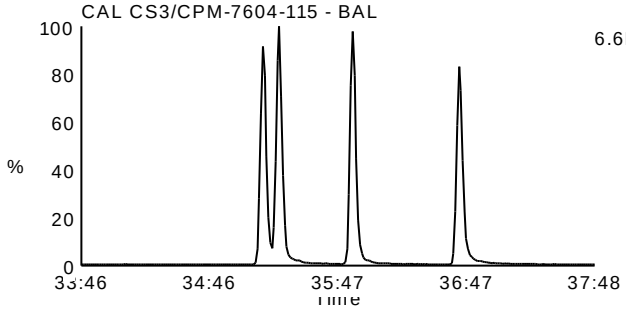
CAL CS3/CPM-7604-115 - BAL



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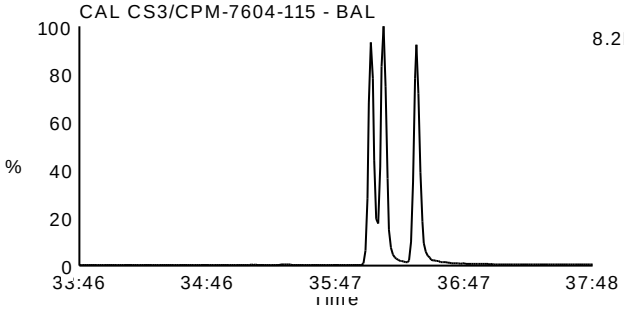
CAL CS3/CPM-7604-115 - BAL



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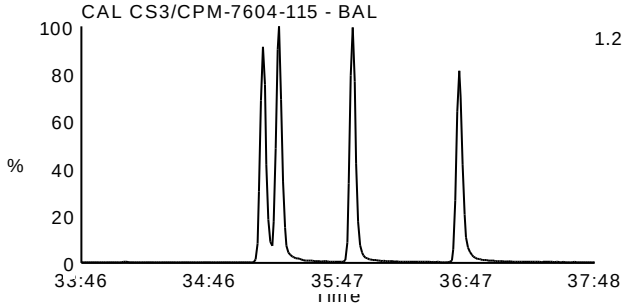
CAL CS3/CPM-7604-115 - BAL



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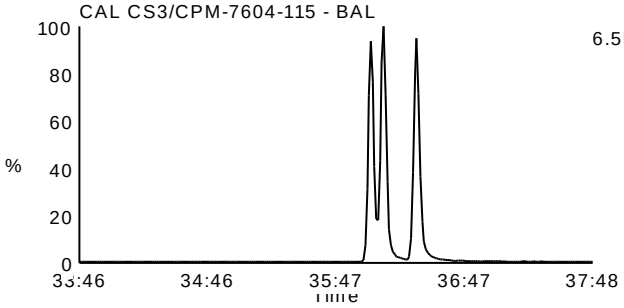

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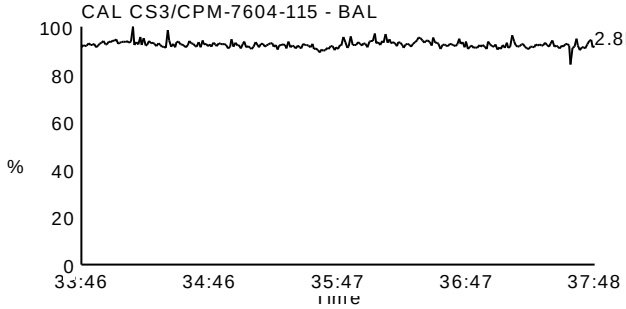

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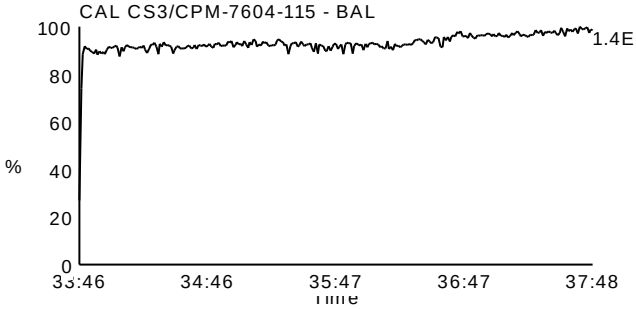
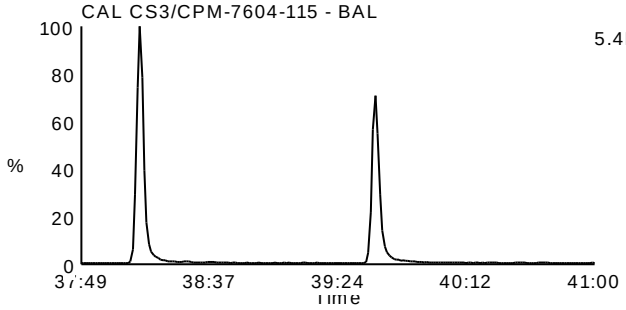


Homologue Group: Heptas

Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

Data File: P110514B 07 G4 C3 - 407.7818
CAL CS3/CPM-7604-115 - BAL



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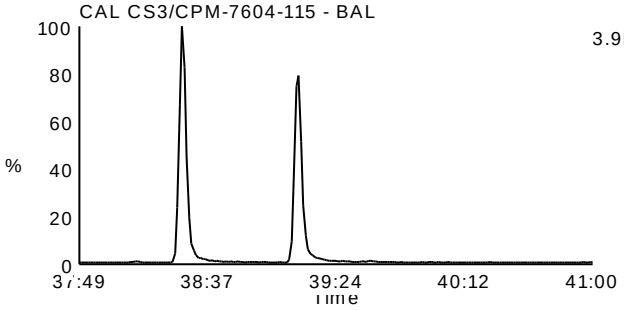

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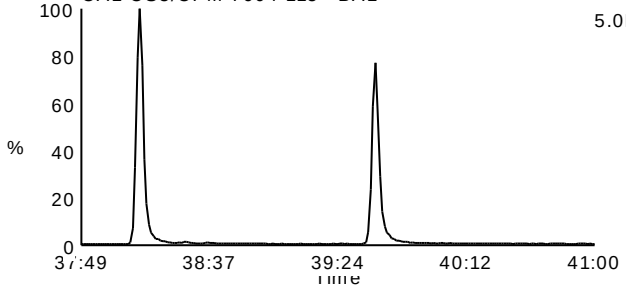

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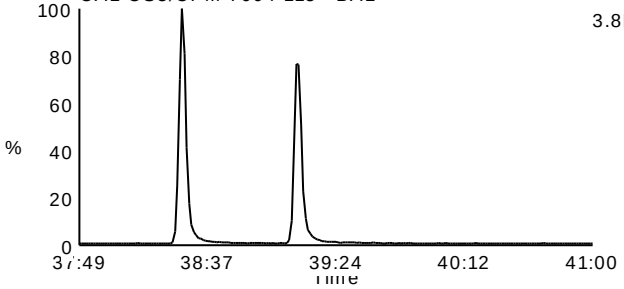

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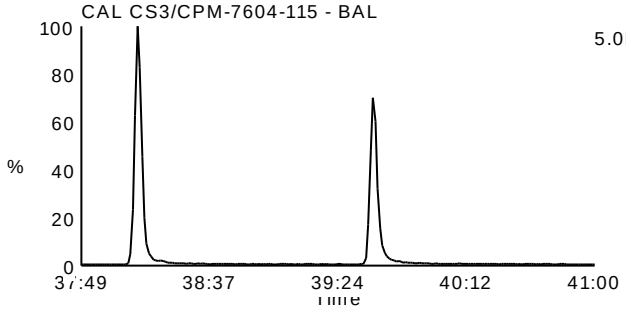
CAL CS3/CPM-7604-115 - BAL



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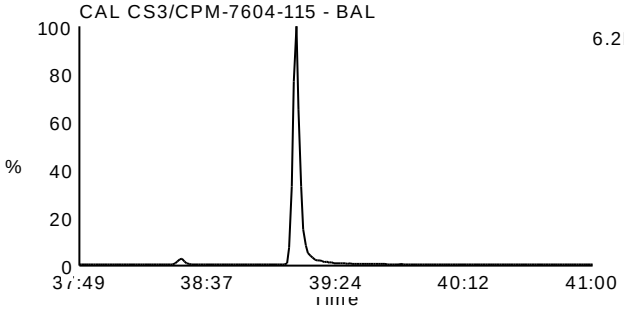
CAL CS3/CPM-7604-115 - BAL



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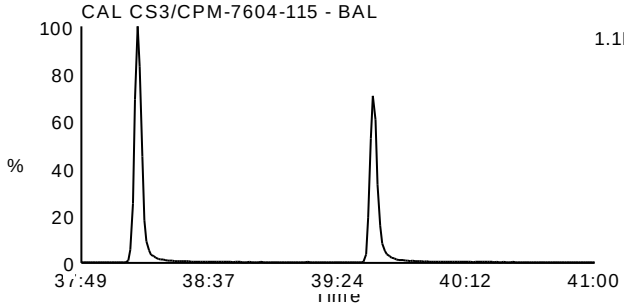

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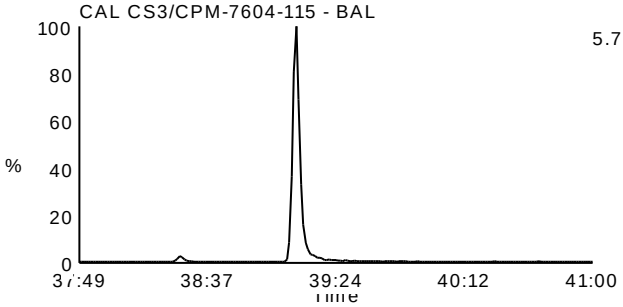

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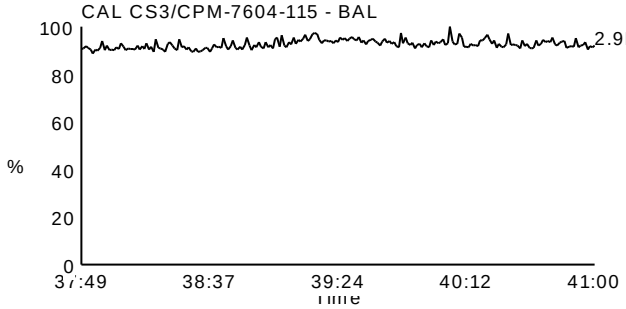

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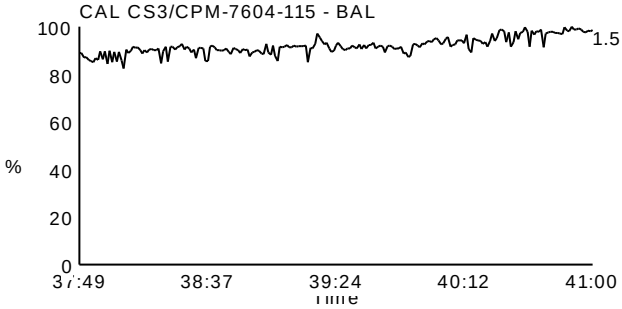
CAL CS3/CPM-7604-115 - BAL

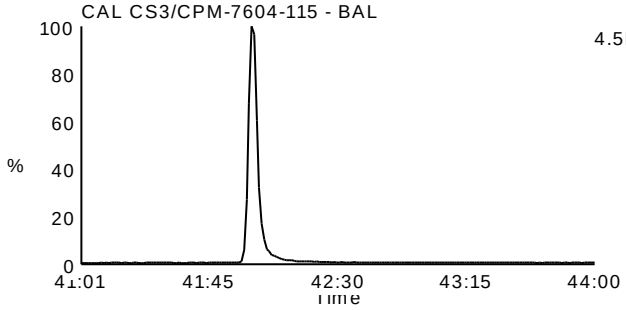


Homologue Group: Octas

Data File Name: P110514B_07
Date Acquired: 5/15/2011
Sample Description: CAL CS3/CPM-7604-115 - BAL

Lab Sample ID: CS3/CPM-7604-115
Client Sample ID: CPM/WDM
Instrument: 10MSHR09 (P)

Data File: P110514B 07 G5 C4 - 441.7428
CAL CS3/CPM-7604-115 - BAL



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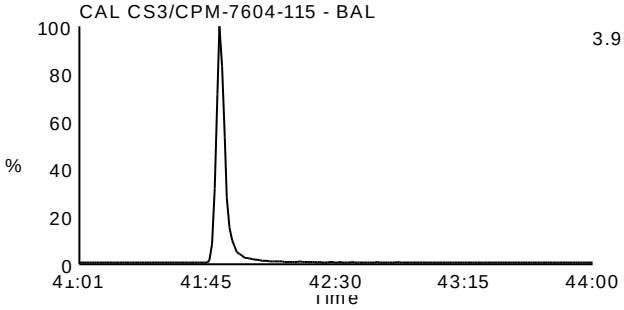

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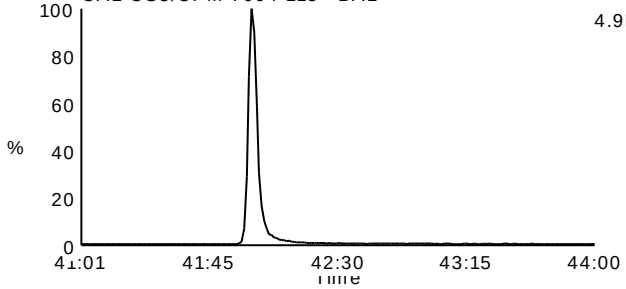
CAL CS3/CPM-7604-115 - BAL



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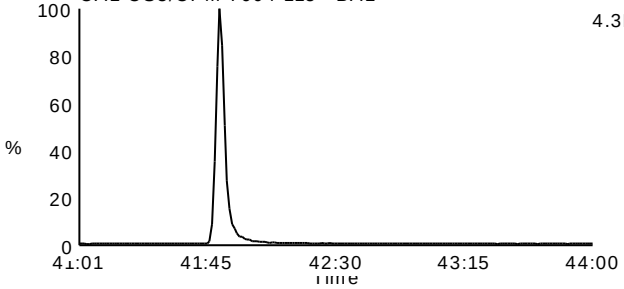
CAL CS3/CPM-7604-115 - BAL



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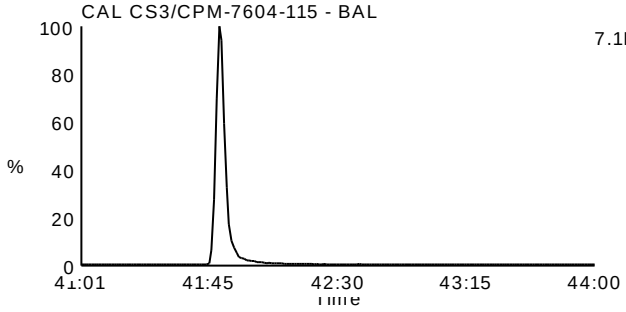

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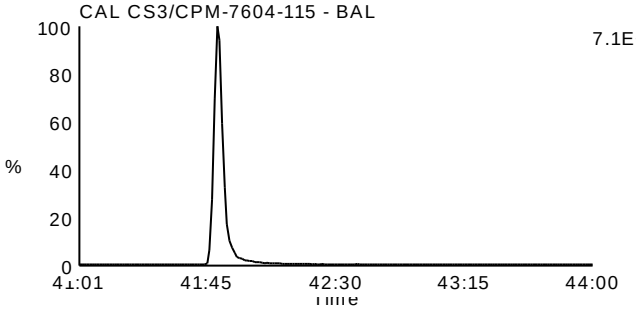
CAL CS3/CPM-7604-115 - BAL



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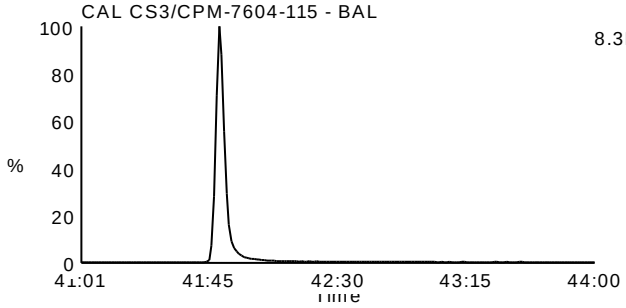

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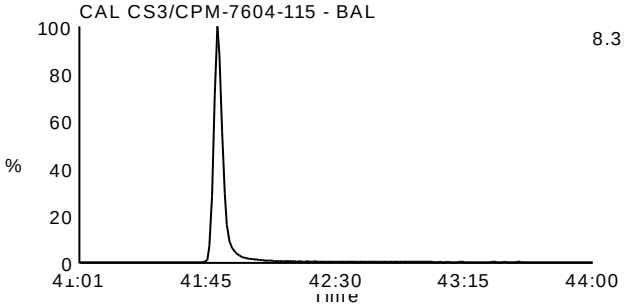

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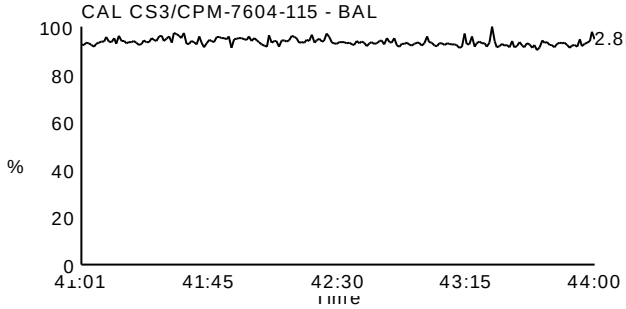

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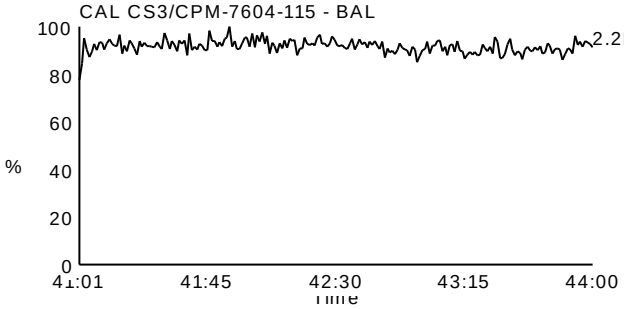

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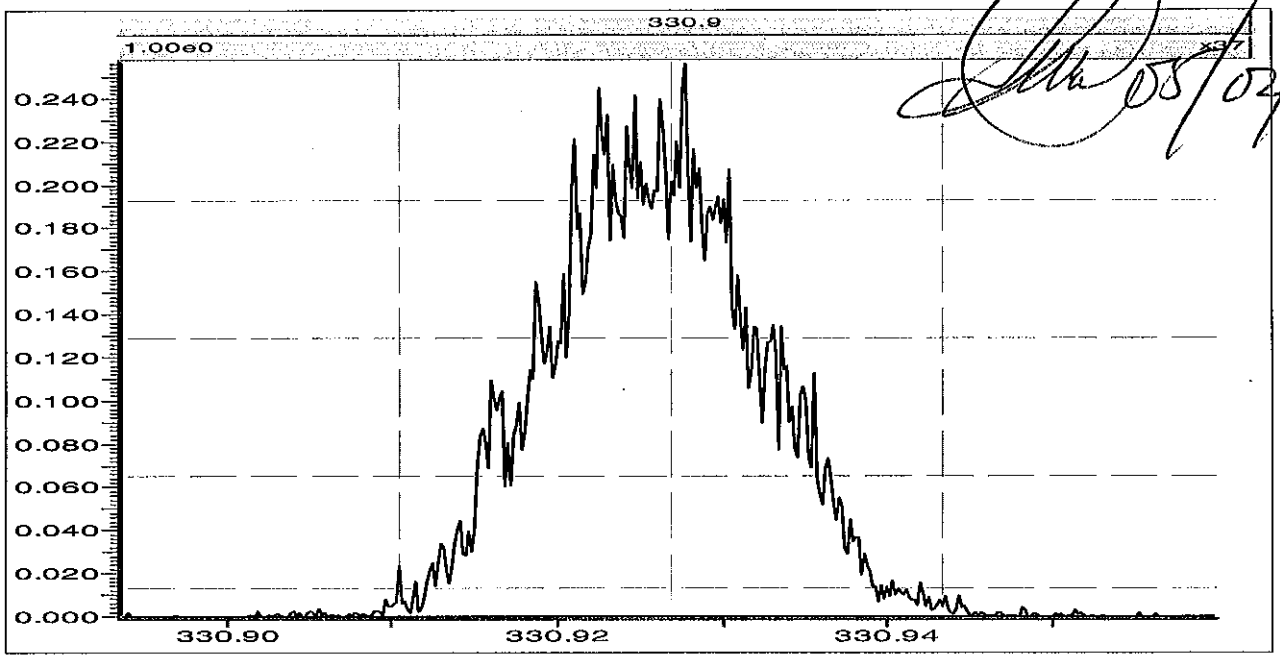
Printed: Sunday, May 01, 2011 14:34:55 Central Standard Time

BAL 5/1/11

05/04/11



Source (EI+)

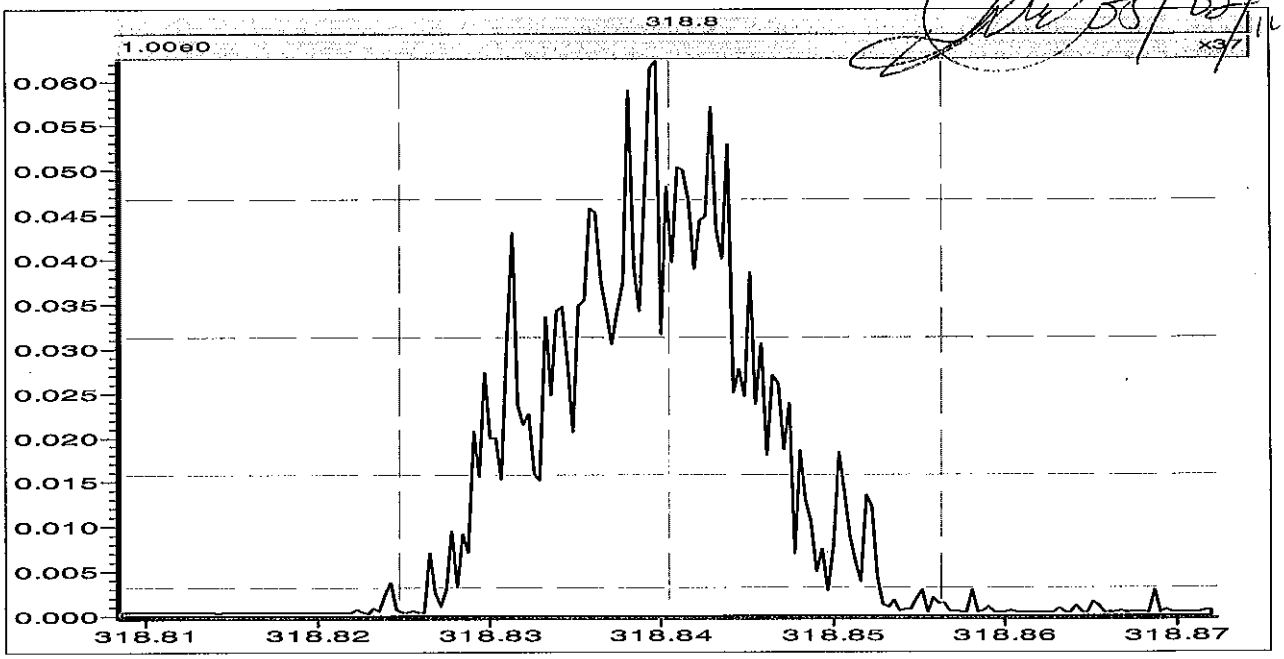
Ion Repeller (V)	-7.54
Focus 1	636
Beam Centre	26.8
Focus 2	3938
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-66.1
Z Deflect 1	-4.7
Z Deflect 2	12.2
Z Focus 2	2322
Z Focus 3	0
Z Deflect 3	-3.1
Y Focus	3524
Rotate 2	-8.8
Curve 2	24.1
Curve 3	7.7
Rotate 3	-18.6
Rotate 4	-3.0
V Acc (V)	7989.64
Magnet Mass	330.9
Source Slit	24.50
Collector Slit	17.04
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-1.40
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\M488MW1_10K.ipr

Printed: Monday, May 02, 2011 06:49:31 Central Standard Time



Source (EI+)

Ion Repeller (V)	-7.54
Focus 1	636
Beam Centre	26.8
Focus 2	3938
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-66.1
Z Deflect 1	-4.7
Z Deflect 2	12.2
Z Focus 2	2322
Z Focus 3	0
Z Deflect 3	-3.1
Y Focus	3574
Rotate 2	-8.8
Curve 2	24.1
Curve 3	7.7
Rotate 3	-18.6
Rotate 4	-3.0
V Acc (V)	7989.64
Magnet Mass	330.9
Source Slit	24.50
Collector Slit	17.04
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-1.40
Z4 Restrictor	Off
Vacc Limit	8000

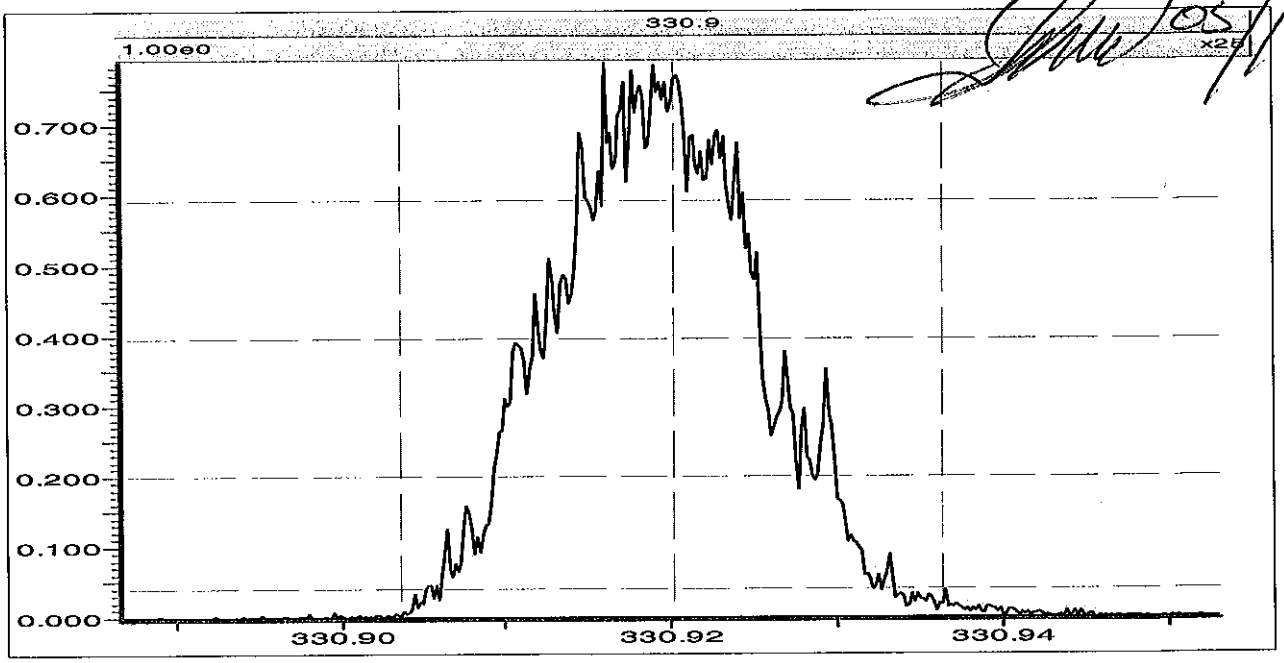
Analyser
No information

Engineer
No information

File: C:\MassLynx\Default.pro\Acqudb\M488MW1_10K.ipr

Printed: Sunday, May 15, 2011 14:13:15 Central Daylight Time

BAC 5/15/11



Source (EI+)

Ion Repeller (V)	-5.11
Focus 1	475
Beam Centre	25.7
Focus 2	4045
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-67.2
Z Deflect 1	33.6
Z Deflect 2	23.8
Z Focus 2	2346
Z Focus 3	0
Z Deflect 3	-6.3
Y Focus	3609
Rotate 2	-7.5
Curve 2	26.1
Curve 3	3.8
Rotate 3	-18.1
Rotate 4	-2.9
V Acc (V)	7992.69
Magnet Mass	330.9
Source Slit	24.94
Collector Slit	17.92
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-1.40
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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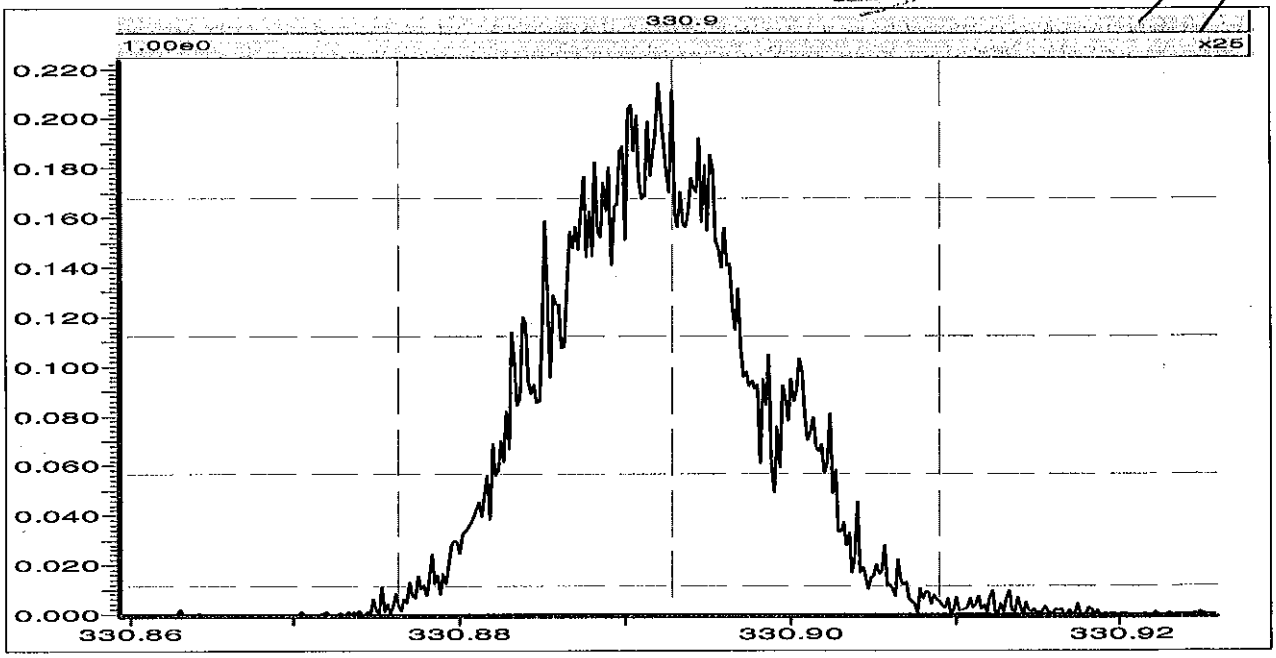
Printed: Monday, May 16, 2011 06:48:47 Central Daylight Time

05/16/11



ACE 5/16/11

Source (EI+)

Ion Repeller (V)	-5.11
Focus 1	475
Beam Centre	25.7
Focus 2	4045
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-67.2
Z Deflect 1	33.6
Z Deflect 2	23.8
Z Focus 2	2346
Z Focus 3	0
Z Deflect 3	-6.3
Y Focus	3609
Rotate 2	-7.5
Curve 2	26.1
Curve 3	3.8
Rotate 3	-18.1
Rotate 4	-2.9
V Acc (V)	7993.35
Magnet Mass	330.9
Source Slit	24.94
Collector Slit	17.92
MIKES Slit	100.00
Alpha	70.00
Detector Voltage	350
Ion Energy	-1.40
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
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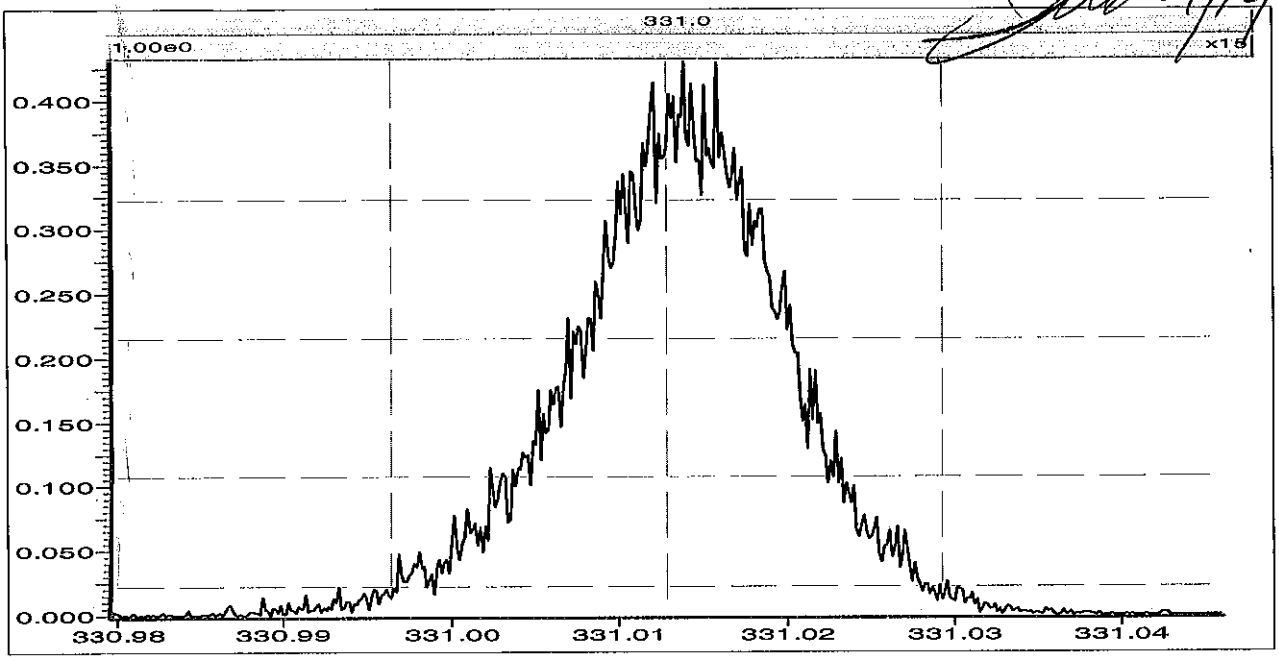

Source (EI+)

Ion Repeller (V)	-6.09
Focus 1	633
Beam Centre	-4.3
Focus 2	4491
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-37.1
Z Deflect 1	-79.9
Z Deflect 2	-23.3
Z Focus 2	2288
Z Focus 3	0
Z Deflect 3	22.5
Y Focus	3747
Rotate 2	9.9
Curve 2	-0.4
Curve 3	5.9
Rotate 3	-50.5
Rotate 4	-9.2
V Acc (V)	7986.47
Magnet Mass	331.0
Source Slit	25.02
Collector Slit	25.90
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	372
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

File: C:\MassLynx\DEFAULT.PRO\ACQUDB\P10MSHR09.ipr

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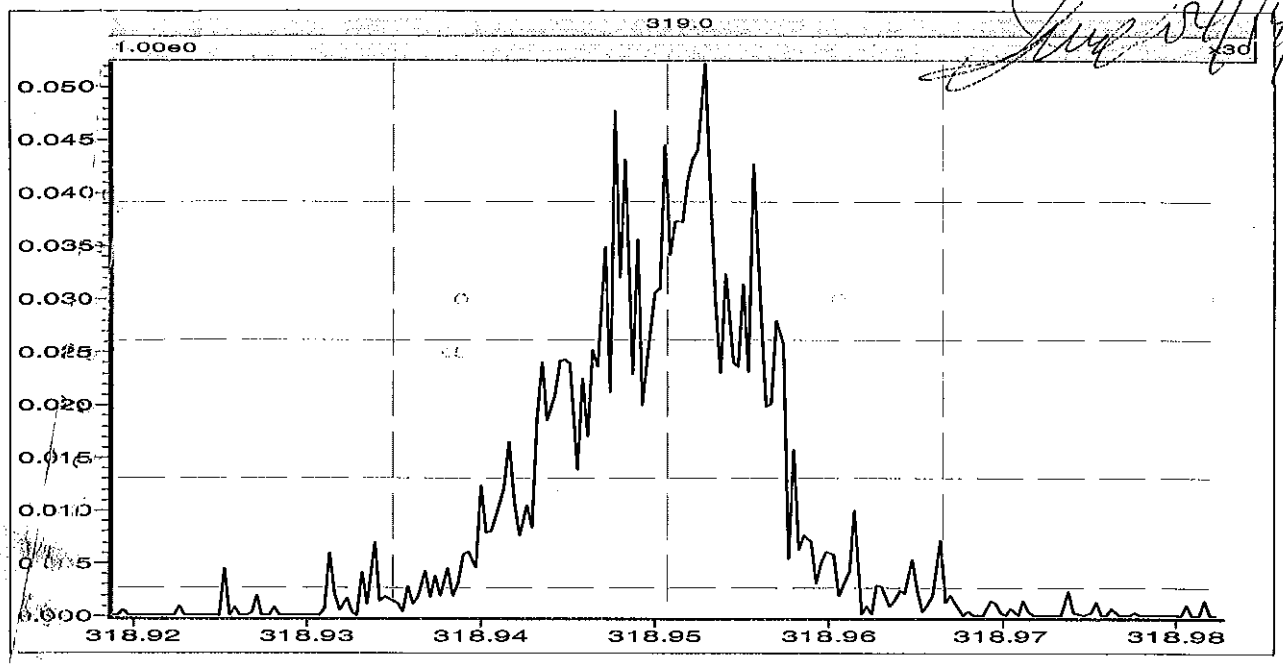

Source (EI+)

Ion Repeller (V)	-6.09
Focus 1	633
Beam Centre	-4.3
Focus 2	4491
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	-37.1
Z Deflect 1	-79.9
Z Deflect 2	-23.3
Z Focus 2	2288
Z Focus 3	0
Z Deflect 3	22.5
Y Focus	3747
Rotate 2	9.9
Curve 2	-0.4
Curve 3	5.9
Rotate 3	-50.5
Rotate 4	-9.2
V Acc (V)	7986.16
Magnet Mass	331.0
Source Slit	25.02
Collector Slit	25.90
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	372
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

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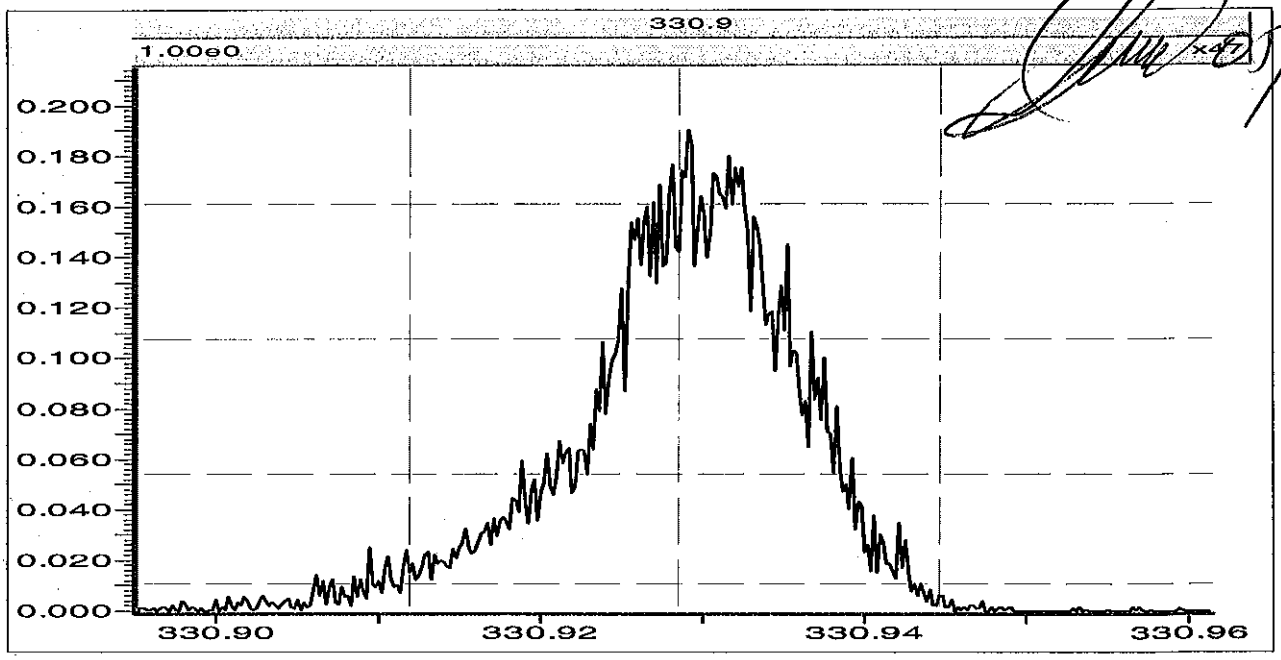


Source (EI+)

Ion Repeller (V)	-7.15
Focus 1	841
Beam Centre	-5.1
Focus 2	4573
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	23.3
Z Deflect 1	-74.7
Z Deflect 2	-6.8
Z Focus 2	2204
Z Focus 3	0
Z Deflect 3	21.9
Y Focus	3857
Rotate 2	11.3
Curve 2	-3.5
Curve 3	3.5
Rotate 3	-50.7
Rotate 4	-7.9
V Acc (V)	7990.10
Magnet Mass	330.9
Source Slit	27.02
Collector Slit	26.20
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	372
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

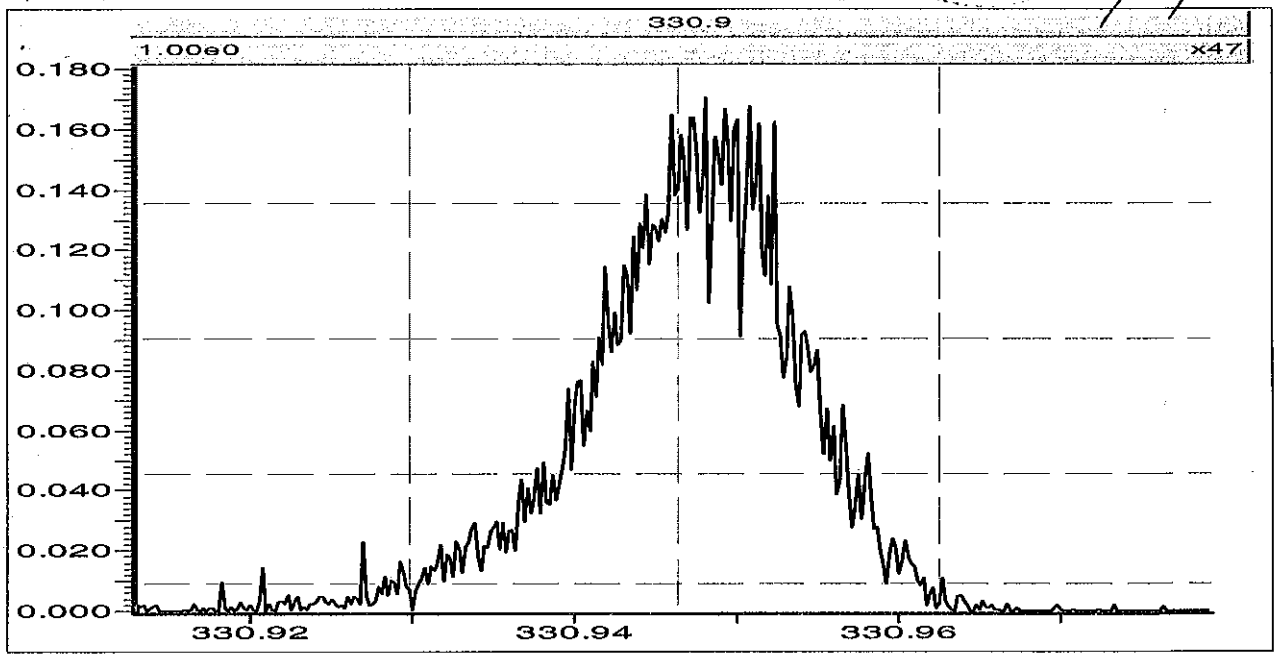
Analyser
No information

Engineer
No information

File: C:\MassLynx\DEFAULT.PRO\ACQUDB\P10MSHR09.ipr

Printed: Monday, May 16, 2011 06:49:24 Central Daylight Time

05/16/11



ACE 5/16/11

Source (EI+)

Ion Repeller (V)	-7.15
Focus 1	841
Beam Centre	-5.1
Focus 2	4573
Temperature (C)	280
Elec Energy (eV)	35.0
Trap Current (uA)	500.0
Y Deflect 1	23.3
Z Deflect 1	-74.7
Z Deflect 2	-6.8
Z Focus 2	2204
Z Focus 3	0
Z Deflect 3	21.9
Y Focus	3857
Rotate 2	11.3
Curve 2	-3.5
Curve 3	3.5
Rotate 3	-50.7
Rotate 4	-7.9
V Acc (V)	7989.66
Magnet Mass	330.9
Source Slit	27.02
Collector Slit	26.20
MIKES Slit	100.00
Alpha	50.00
Detector Voltage	372
Ion Energy	-4.00
Z4 Restrictor	Off
Vacc Limit	8000

Analyser
No information

Engineer
No information

Appendix F

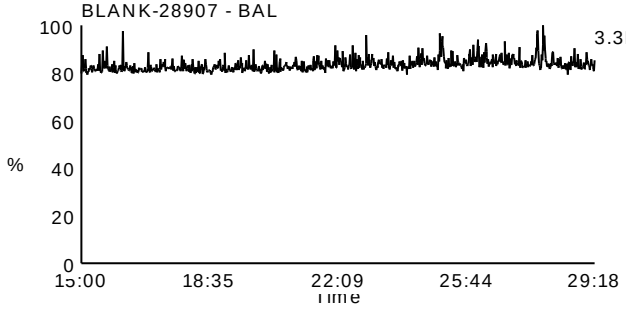
QC Raw Data

Homologue Group: Tetras

Data File Name: P110515A_08
Date Acquired: 5/15/2011
Sample Description: BLANK-28907 - BAL

Lab Sample ID: BLANK-28907
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P110515A_08 G1 C1 - 303.9016
BLANK-28907 - BAL



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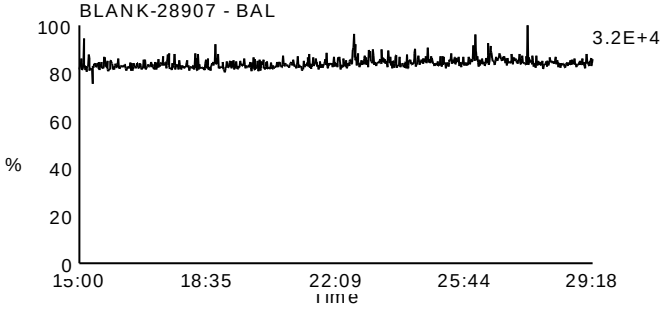
BLANK-28907 - BAL



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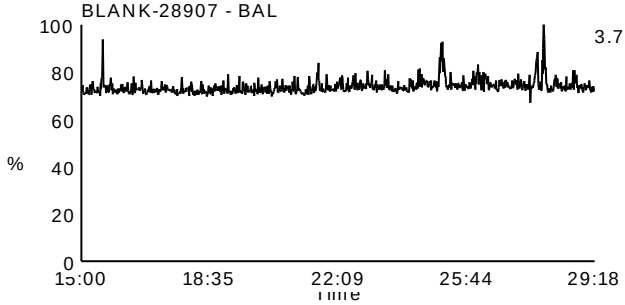
BLANK-28907 - BAL



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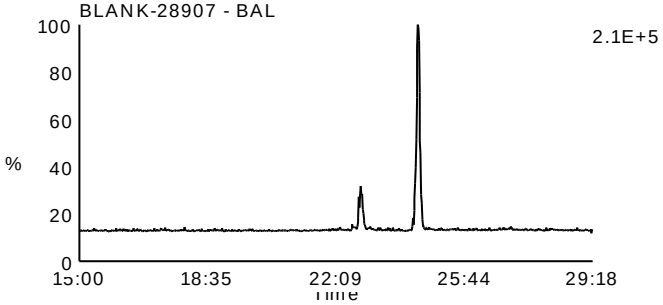
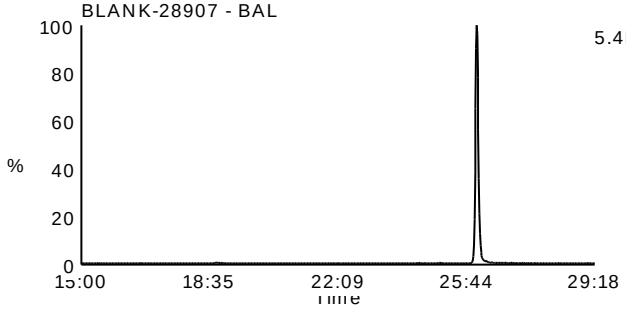
BLANK-28907 - BAL



Data File: P110515A_08 G1 C3 - 315.9418
BLANK-28907 - BAL



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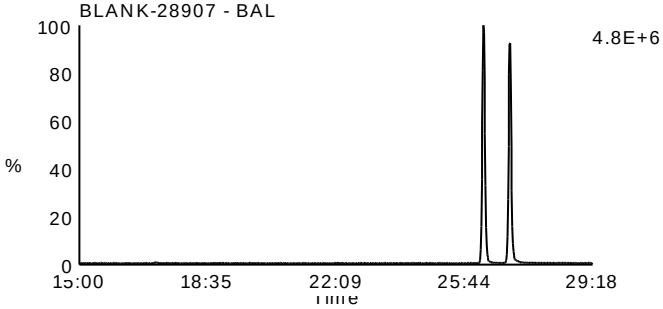
BLANK-28907 - BAL



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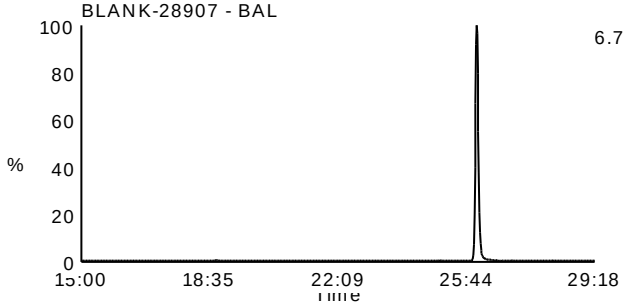
BLANK-28907 - BAL



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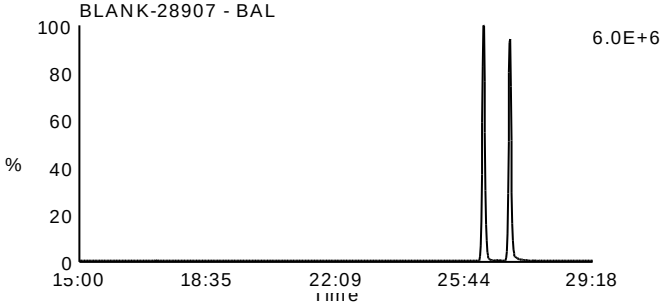
BLANK-28907 - BAL



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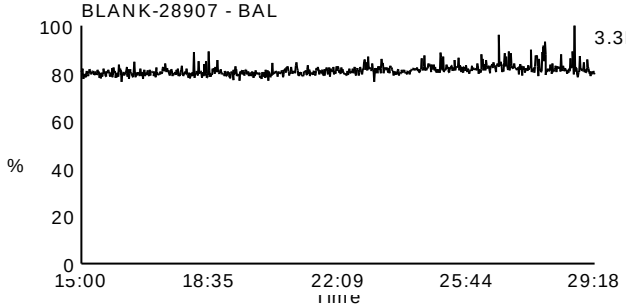
BLANK-28907 - BAL



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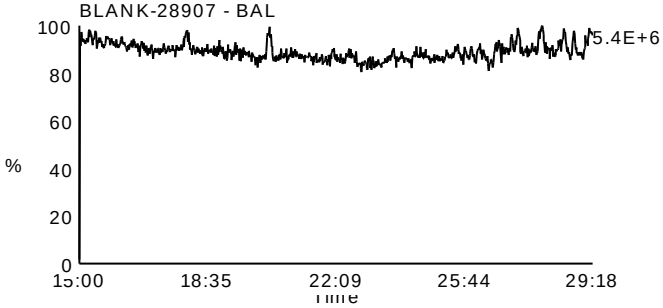
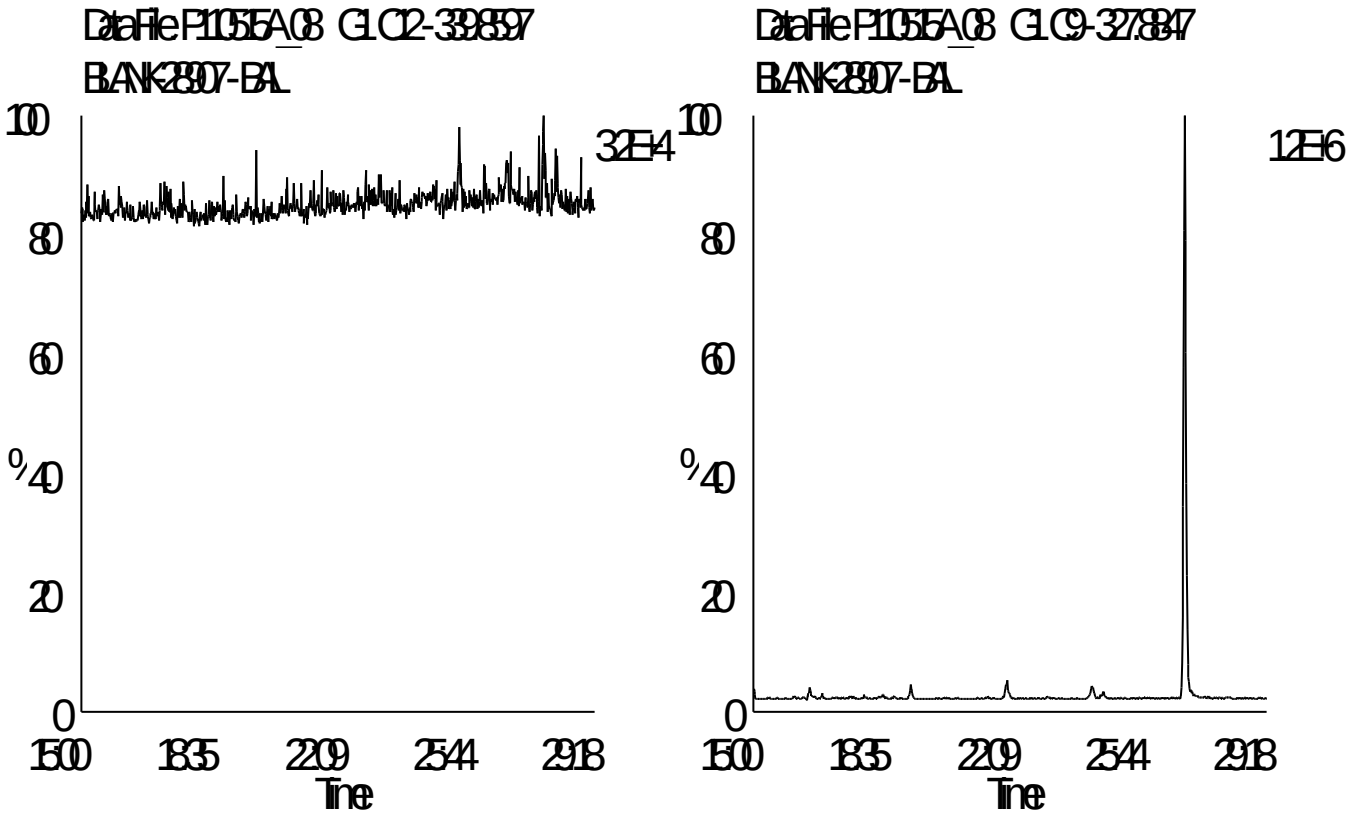
BLANK-28907 - BAL

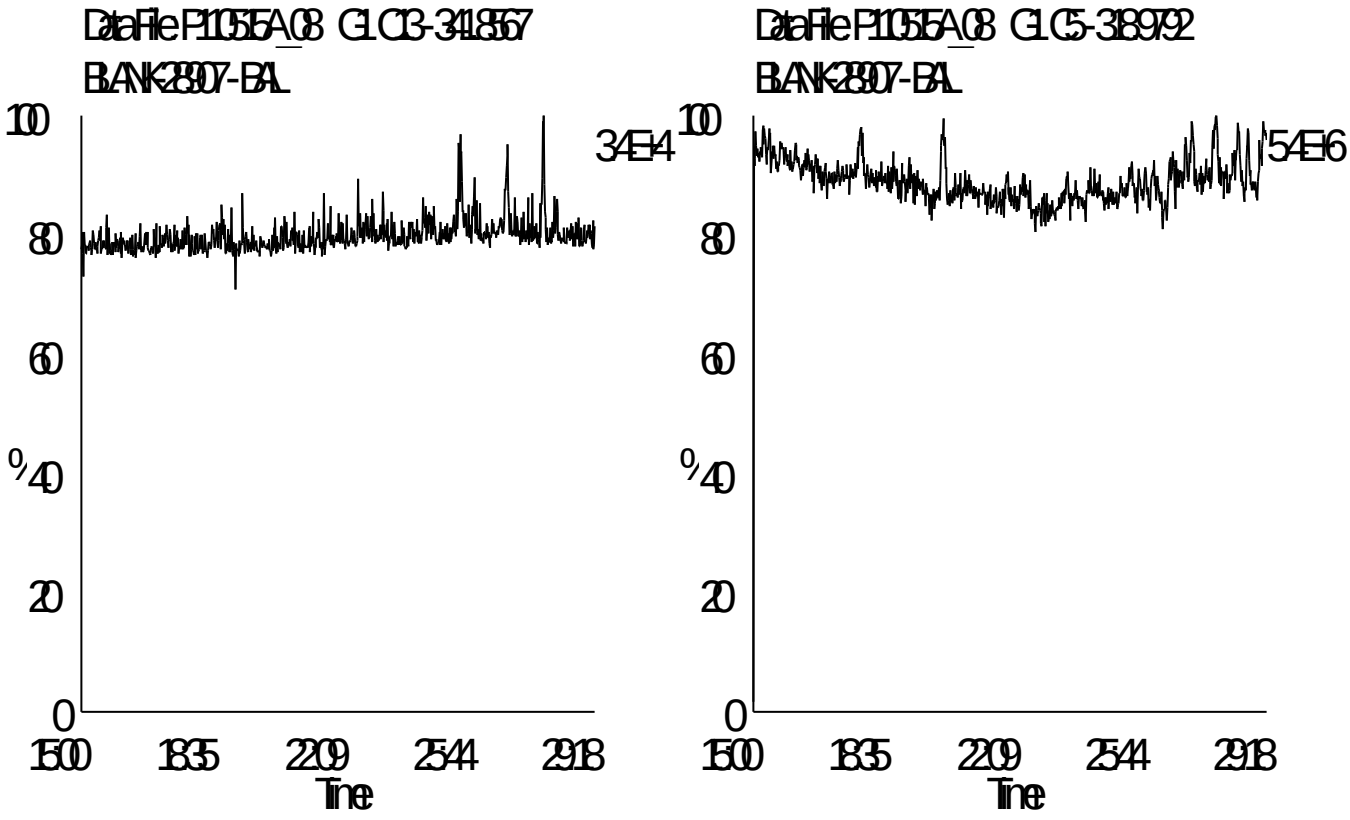


Homologue Group: Penta & Cleanup

Data File Name: P110515A_08
Date Acquired: 5/15/2011
Sample Description: BLANK-28907 - BAL

Lab Sample ID: BLANK-28907
Client Sample ID:
Instrument: 10MSHR09 (P)





Homologue Group: Pentas

Data File Name: P110515A_08
Date Acquired: 5/15/2011
Sample Description: BLANK-28907 - BAL

Lab Sample ID: BLANK-28907
Client Sample ID:
Instrument: 10MSHR09 (P)

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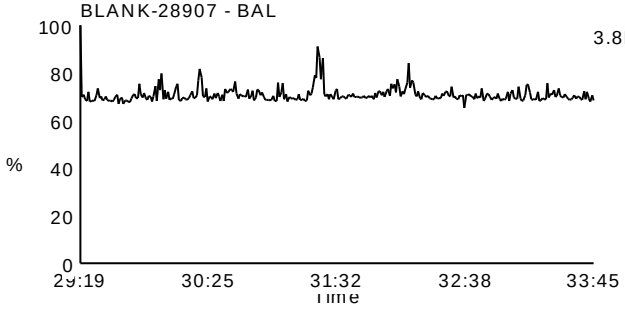
BLANK-28907 - BAL



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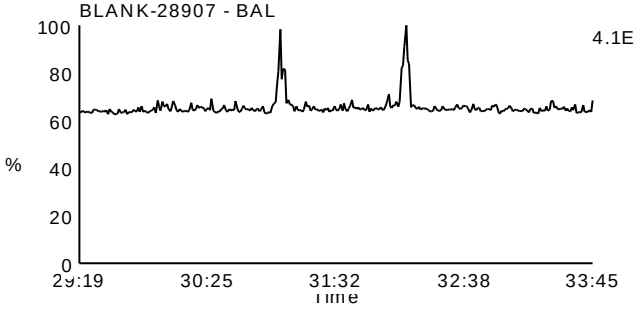
BLANK-28907 - BAL



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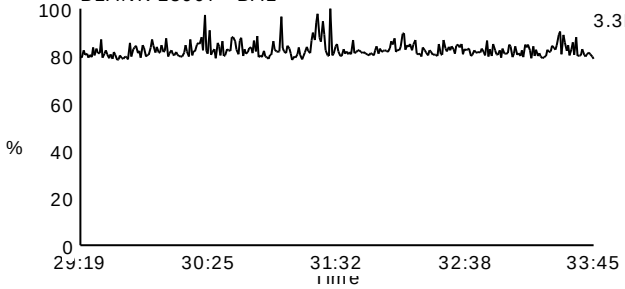
BLANK-28907 - BAL



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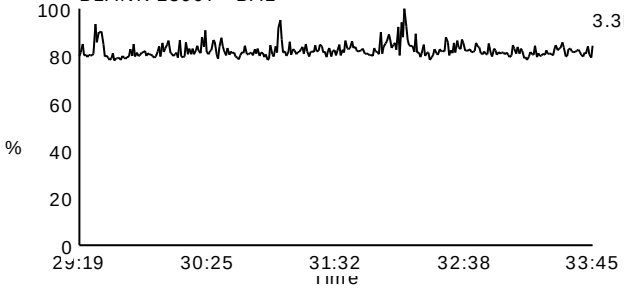
BLANK-28907 - BAL



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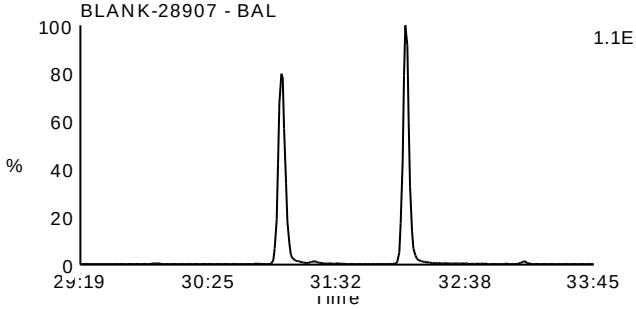
BLANK-28907 - BAL



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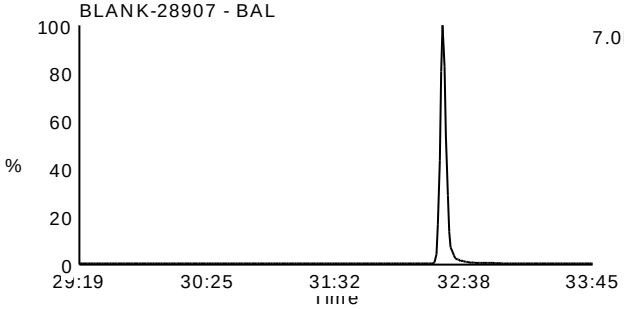
BLANK-28907 - BAL



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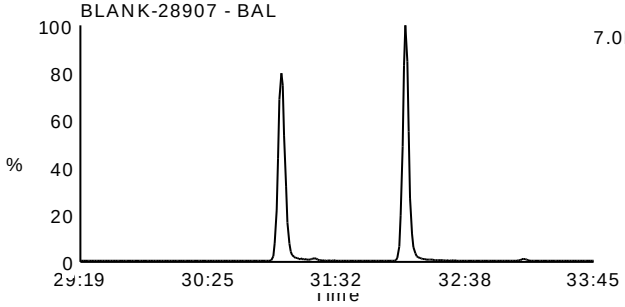
BLANK-28907 - BAL



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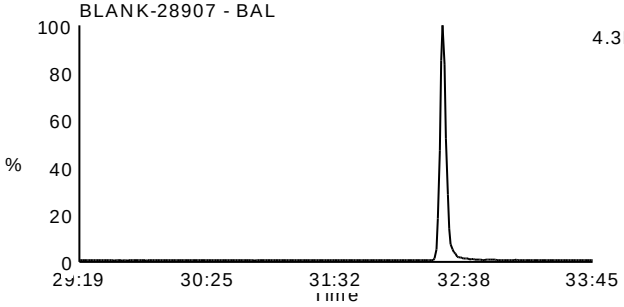

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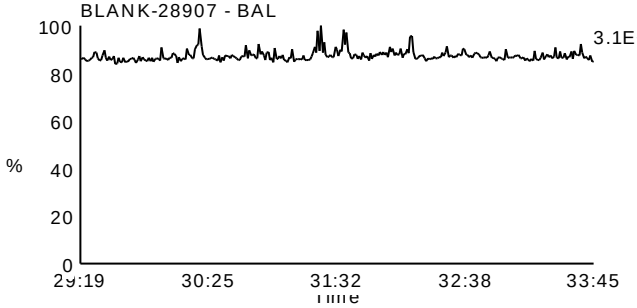
BLANK-28907 - BAL



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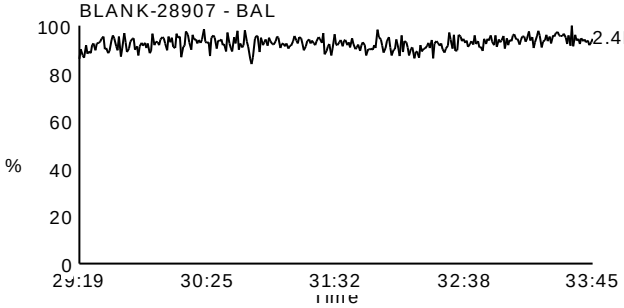

Homologue Group: Hexas

Data File Name: P110515A_08
Date Acquired: 5/15/2011
Sample Description: BLANK-28907 - BAL

Lab Sample ID: BLANK-28907
Client Sample ID:
Instrument: 10MSHR09 (P)

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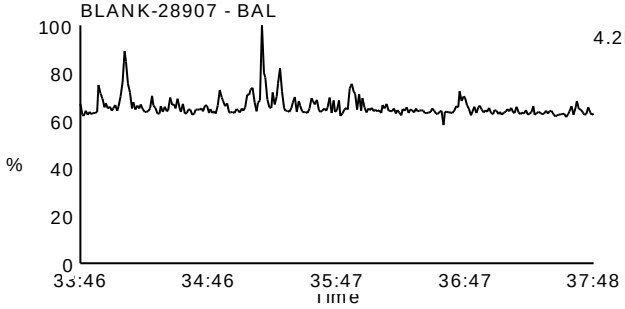
BLANK-28907 - BAL



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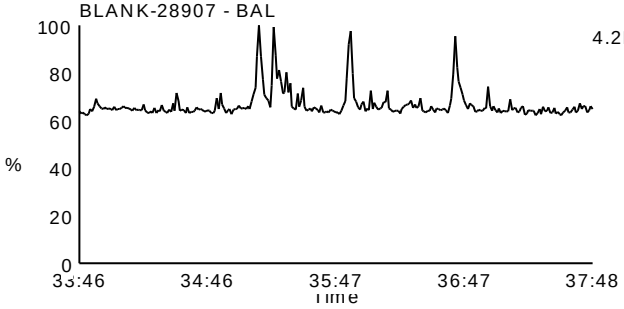

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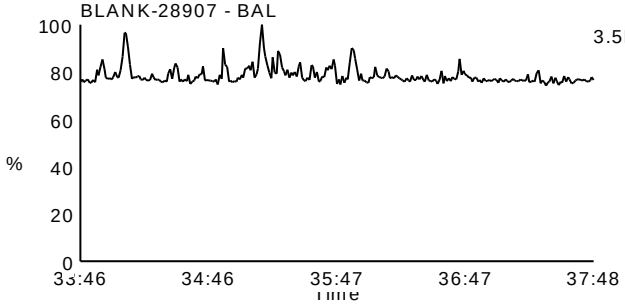
BLANK-28907 - BAL



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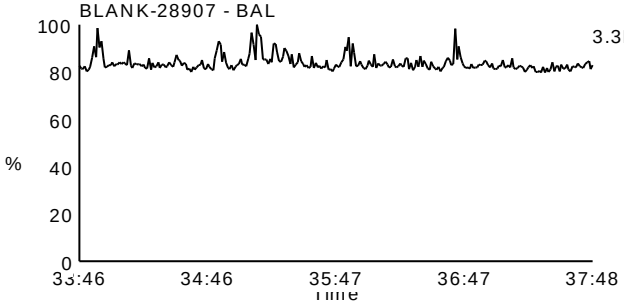

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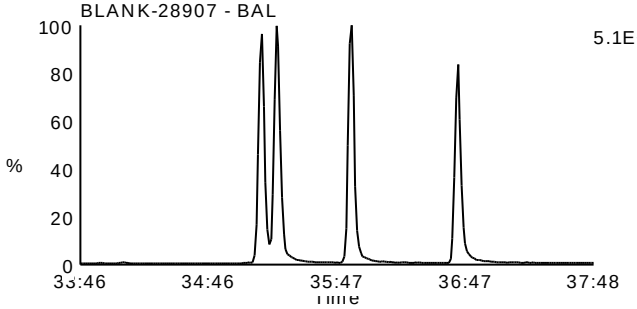

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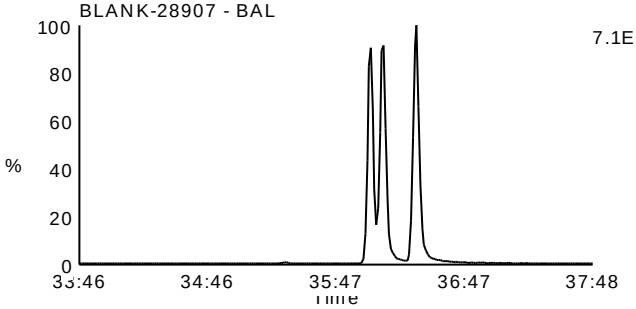

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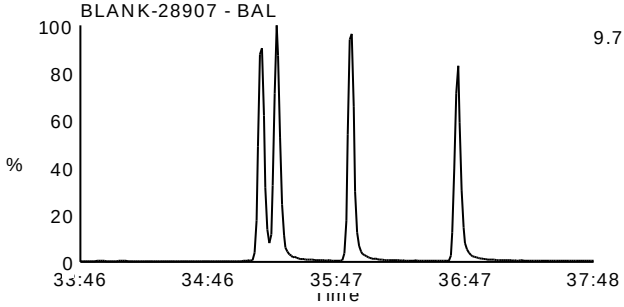

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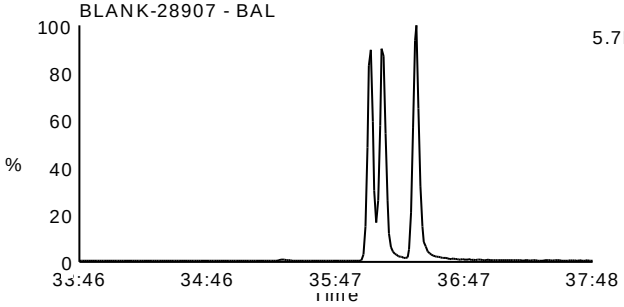

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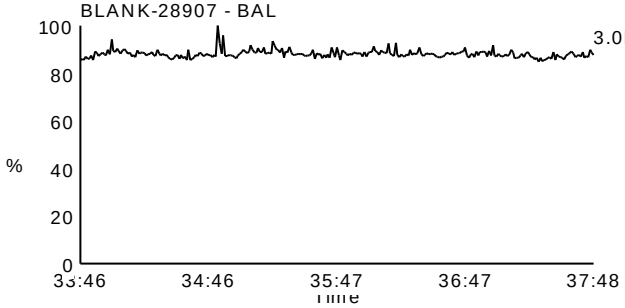
BLANK-28907 - BAL



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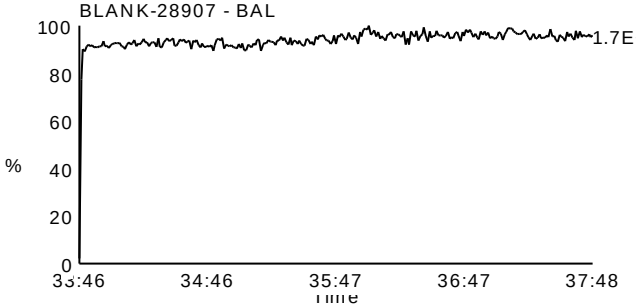
BLANK-28907 - BAL

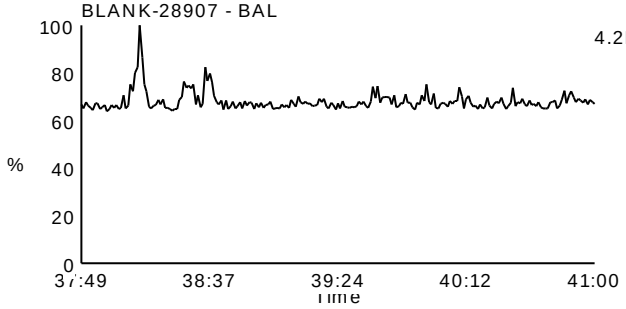


Homologue Group: Heptas

Data File Name: P110515A_08
Date Acquired: 5/15/2011
Sample Description: BLANK-28907 - BAL

Lab Sample ID: BLANK-28907
Client Sample ID:
Instrument: 10MSHR09 (P)

Data File: P110515A_08 G4 C3 - 407.7818
BLANK-28907 - BAL



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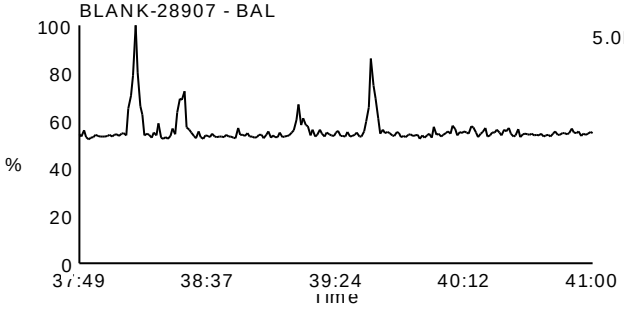

Data File: P110515A_08 G4 C4 - 409.7788
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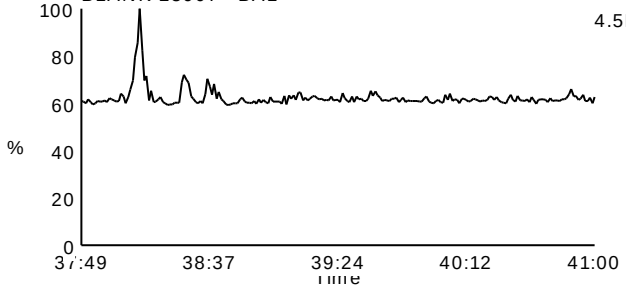

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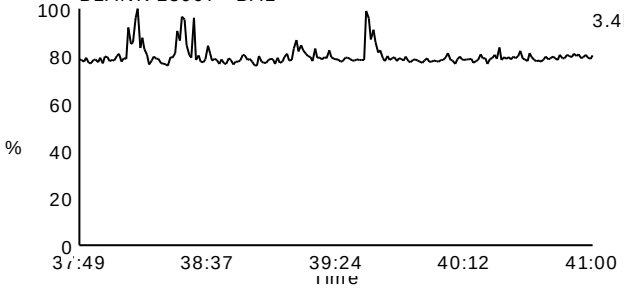
BLANK-28907 - BAL



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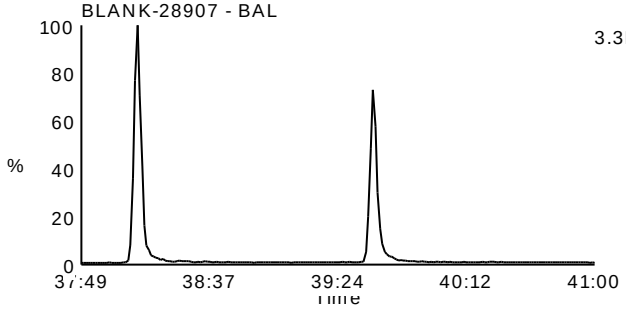
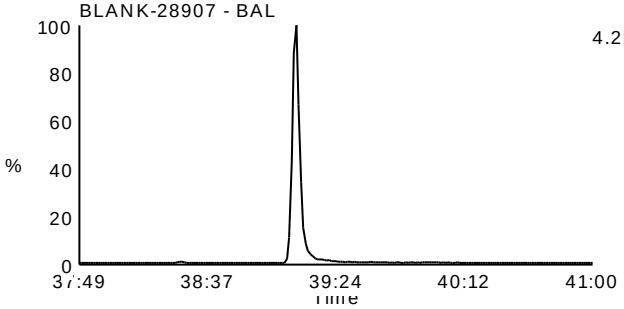
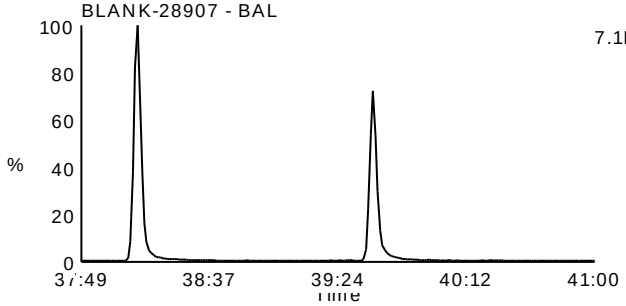
BLANK-28907 - BAL



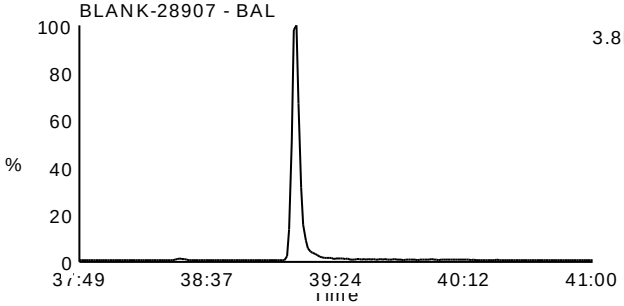
Data File: P110515A_08 G4 C11 - 435.8169
BLANK-28907 - BAL



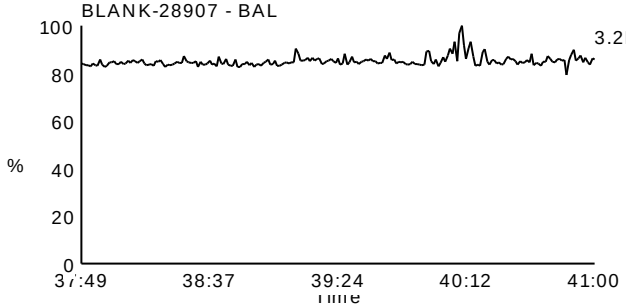
Data File: P110515A_08 G4 C7 - 419.822
BLANK-28907 - BAL



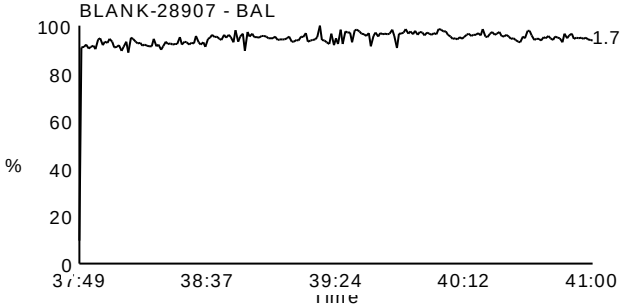
Data File: P110515A_08 G4 C12 - 437.814
BLANK-28907 - BAL



Data File: P110515A_08 G4 C13 - 479.7165
BLANK-28907 - BAL



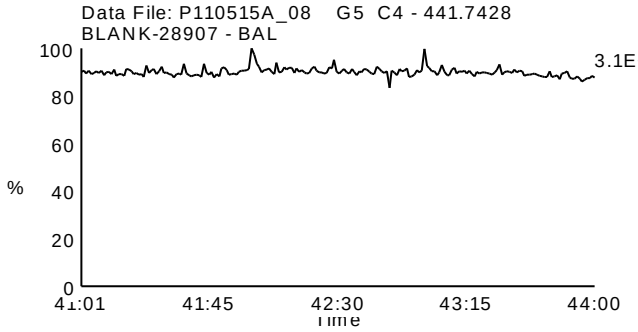
Data File: P110515A_08 G4 C1 - 380.976
BLANK-28907 - BAL

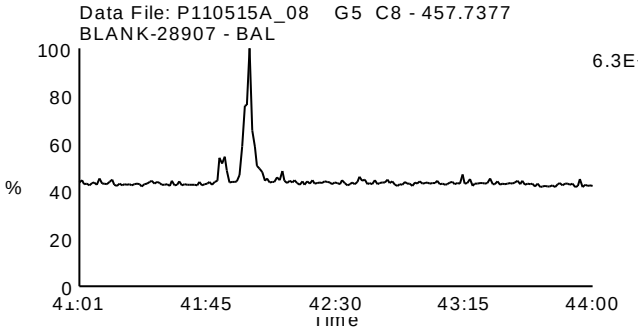


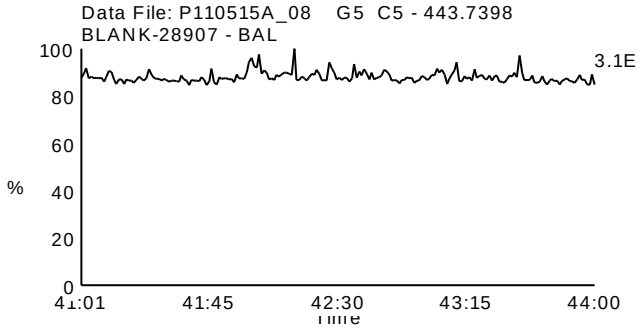
Homologue Group: Octas

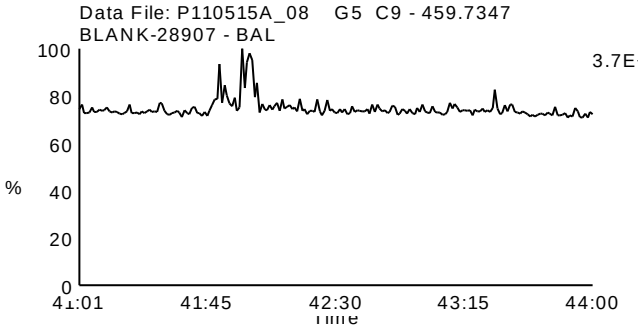
Data File Name: P110515A_08
Date Acquired: 5/15/2011
Sample Description: BLANK-28907 - BAL

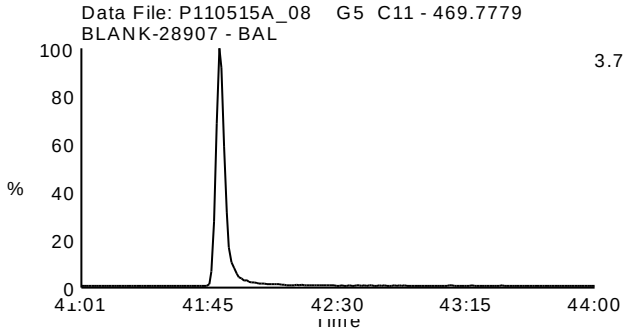
Lab Sample ID: BLANK-28907
Client Sample ID:
Instrument: 10MSHR09 (P)

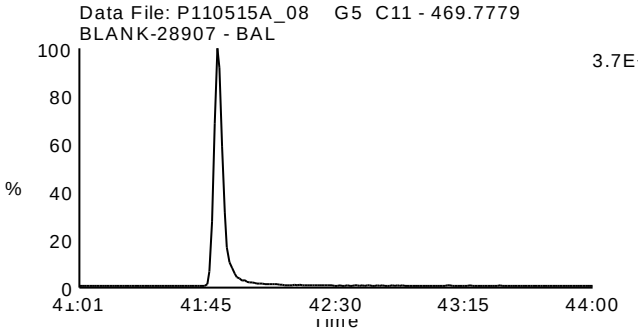


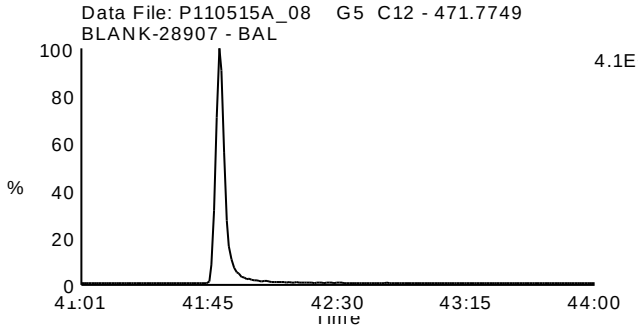


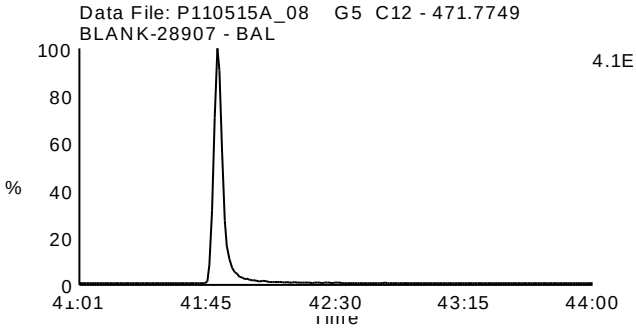


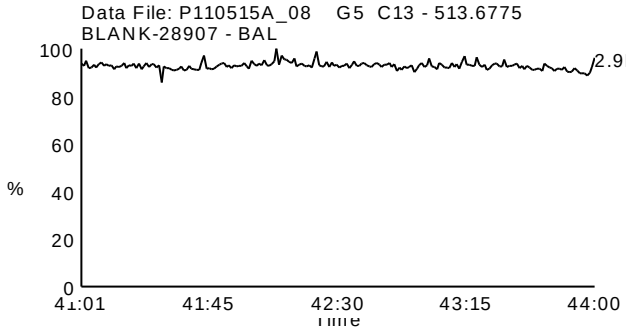


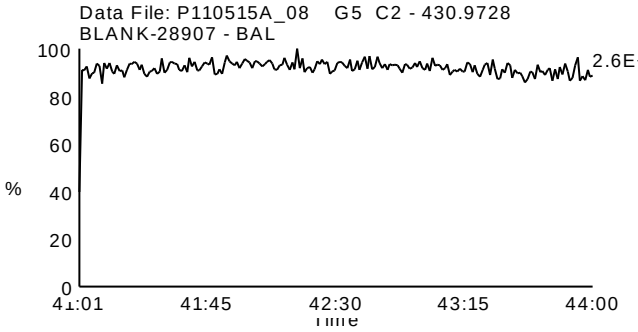










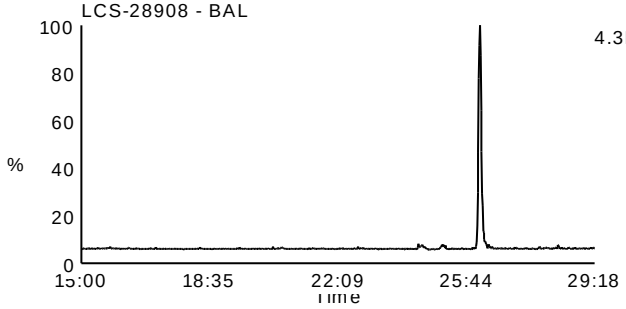


Homologue Group: Tetras

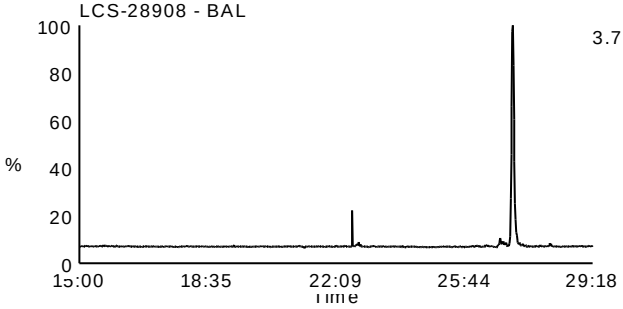
Data File Name: P110515A_01
Date Acquired: 5/15/2011
Sample Description: LCS-28908 - BAL

Lab Sample ID: LCS-28908
Client Sample ID:
Instrument: 10MSHR09 (P)

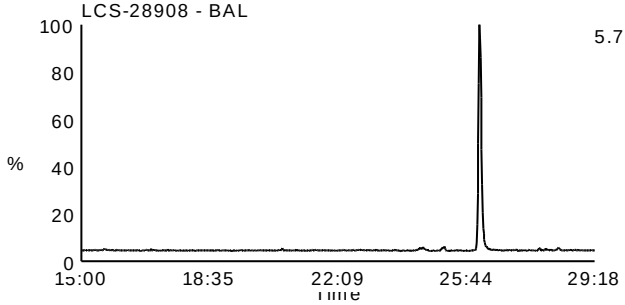
Data File: P110515A_01 G1 C1 - 303.9016
LCS-28908 - BAL



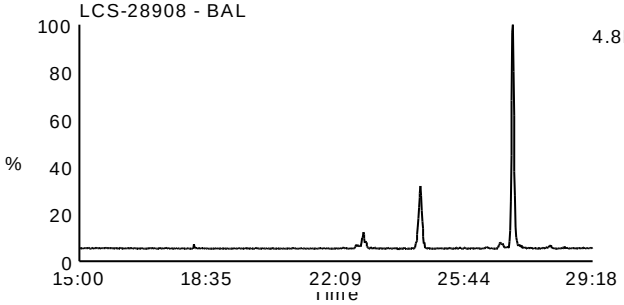
Data File: P110515A_01 G1 C7 - 319.8965
LCS-28908 - BAL



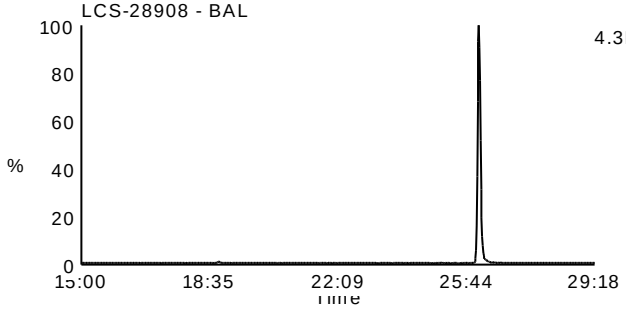
Data File: P110515A_01 G1 C2 - 305.8987
LCS-28908 - BAL



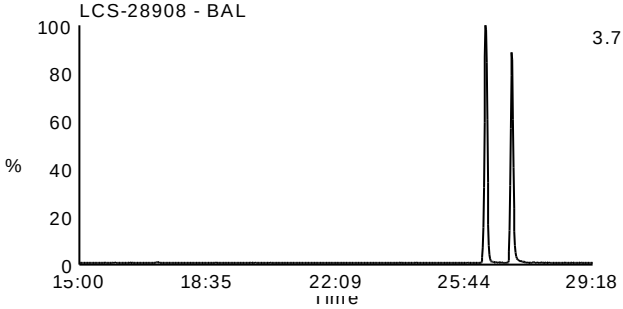
Data File: P110515A_01 G1 C8 - 321.8936
LCS-28908 - BAL



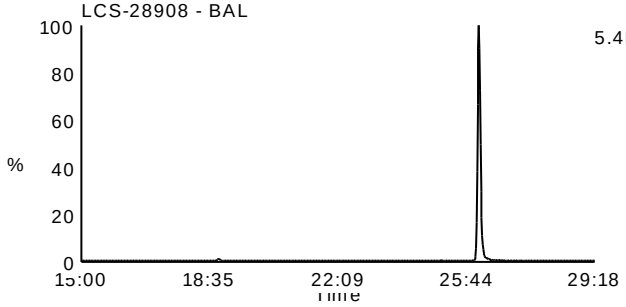
Data File: P110515A_01 G1 C3 - 315.9418
LCS-28908 - BAL



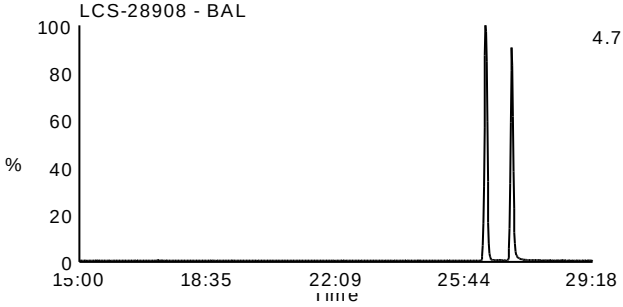
Data File: P110515A_01 G1 C10 - 331.9367
LCS-28908 - BAL



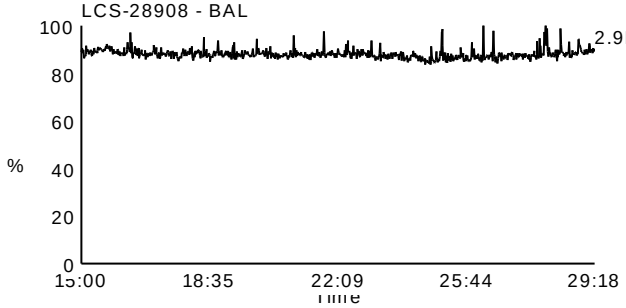
Data File: P110515A_01 G1 C4 - 317.9389
LCS-28908 - BAL



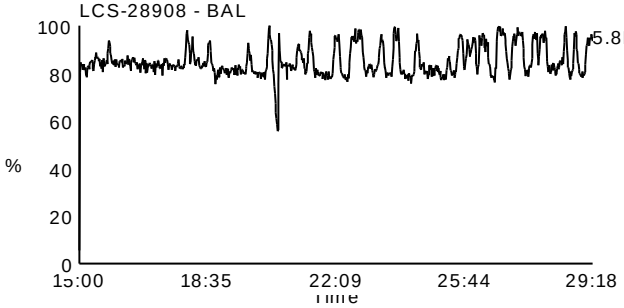
Data File: P110515A_01 G1 C11 - 333.9338
LCS-28908 - BAL



Data File: P110515A_01 G1 C14 - 375.8364
LCS-28908 - BAL



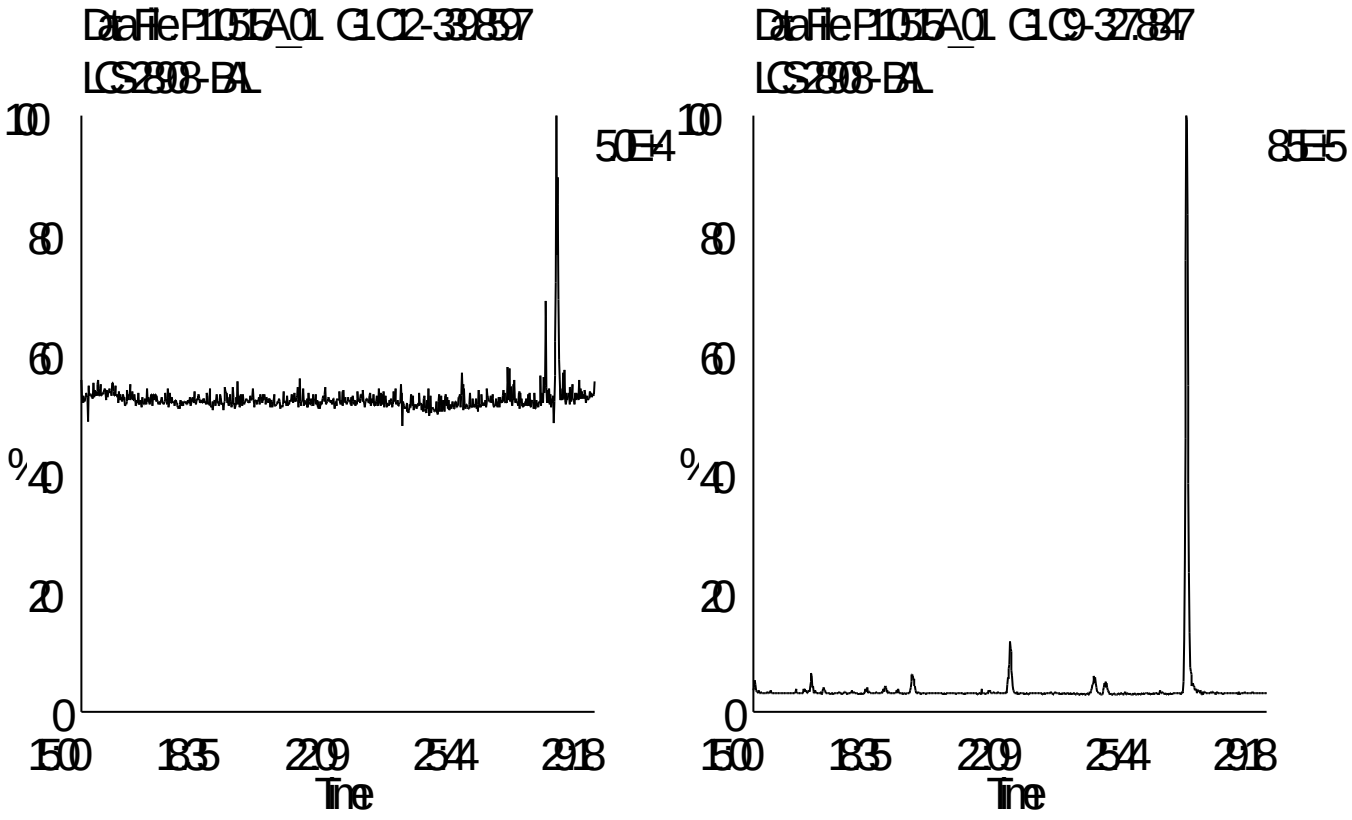
Data File: P110515A_01 G1 C5 - 318.9792
LCS-28908 - BAL

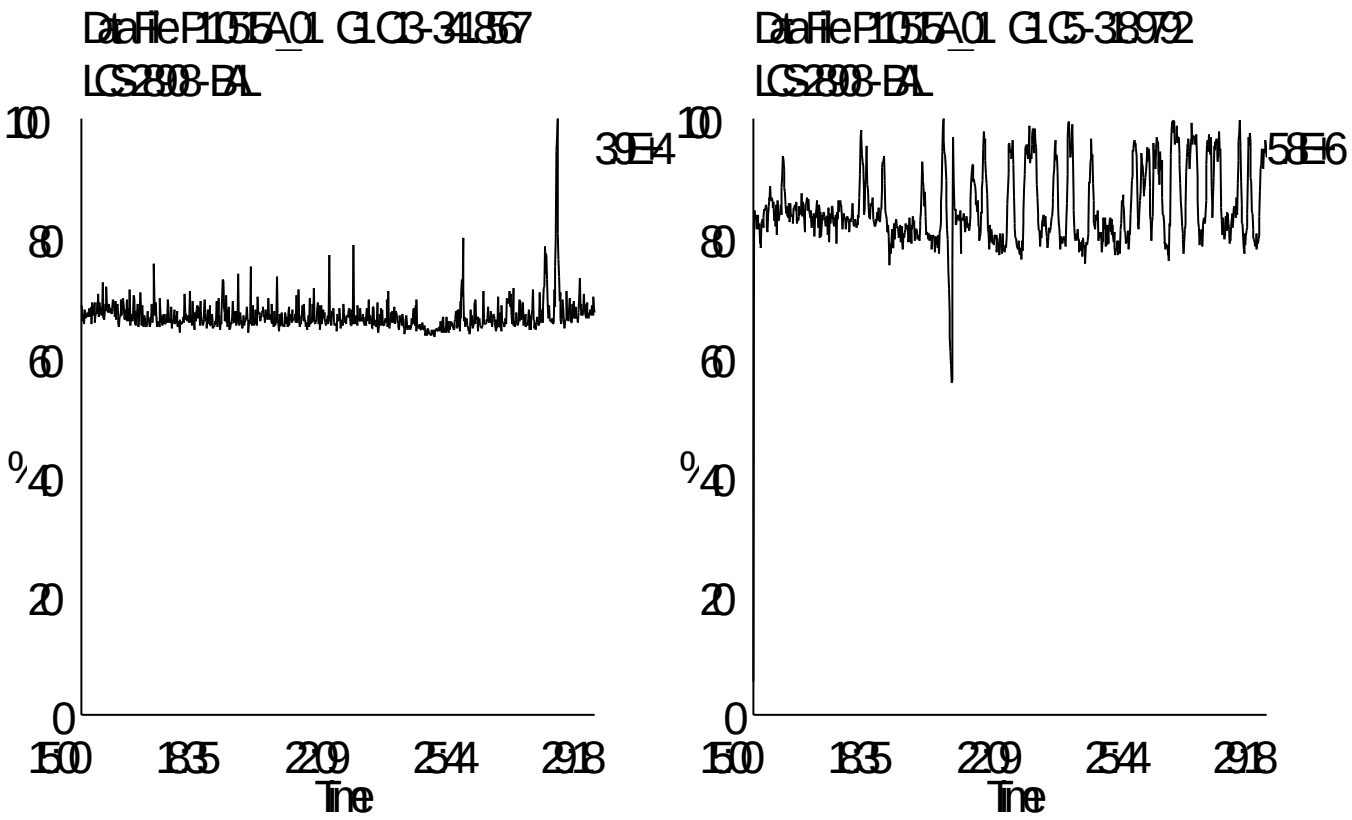


Homologue Group: Penta & Cleanup

Data File Name: P110515A_01
Date Acquired: 5/15/2011
Sample Description: LCS-28908 - BAL

Lab Sample ID: LCS-28908
Client Sample ID:
Instrument: 10MSHR09 (P)



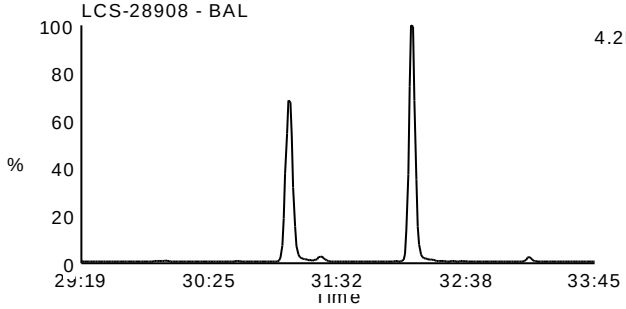


Homologue Group: Pentas

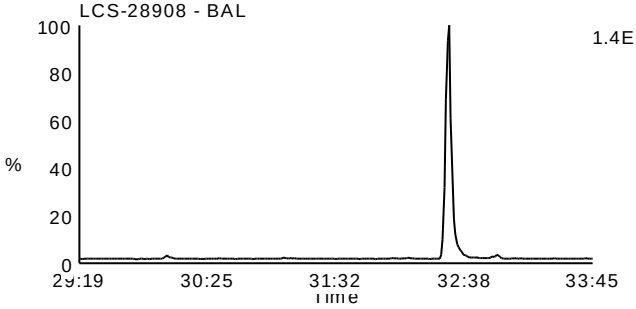
Data File Name: P110515A_01
Date Acquired: 5/15/2011
Sample Description: LCS-28908 - BAL

Lab Sample ID: LCS-28908
Client Sample ID:
Instrument: 10MSHR09 (P)

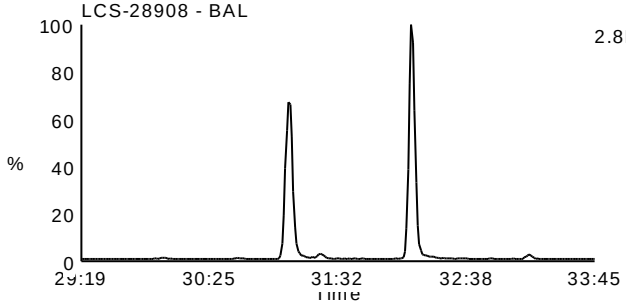
Data File: P110515A_01 G2 C1 - 339.8597
LCS-28908 - BAL



Data File: P110515A_01 G2 C4 - 353.8576
LCS-28908 - BAL



Data File: P110515A_01 G2 C2 - 341.8567
LCS-28908 - BAL



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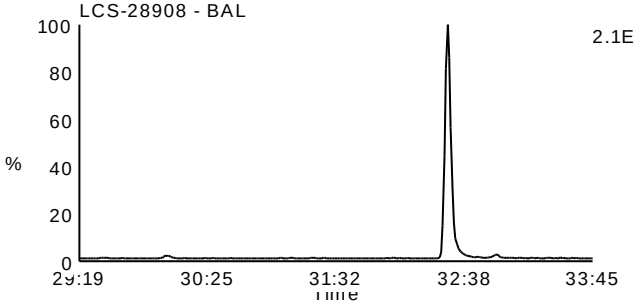
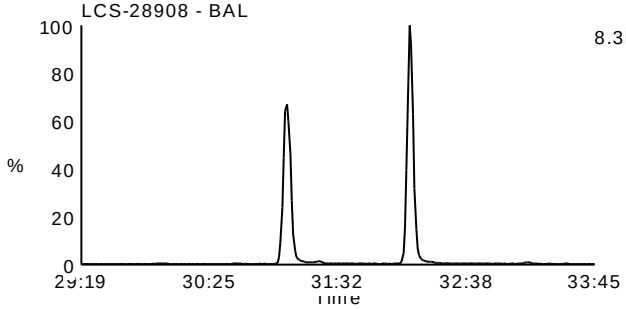
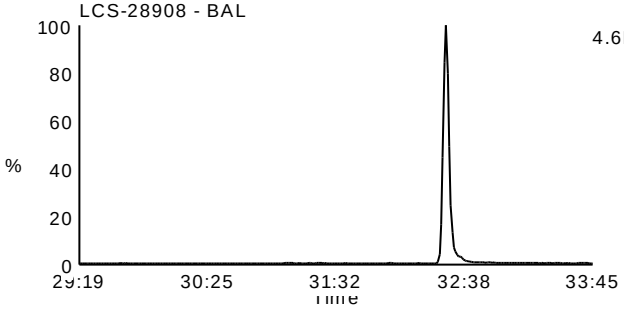
LCS-28908 - BAL



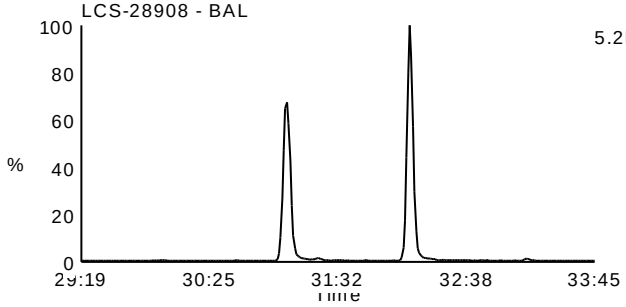
Data File: P110515A_01 G2 C3 - 351.8999
LCS-28908 - BAL



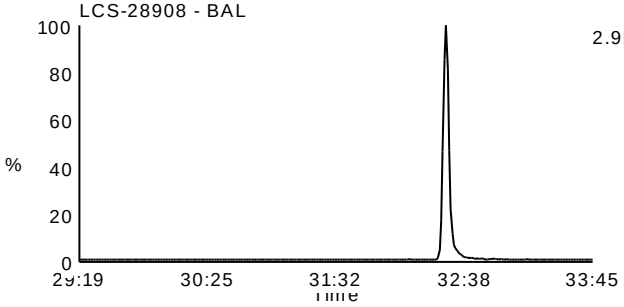
Data File: P110515A_01 G2 C10 - 367.8948
LCS-28908 - BAL



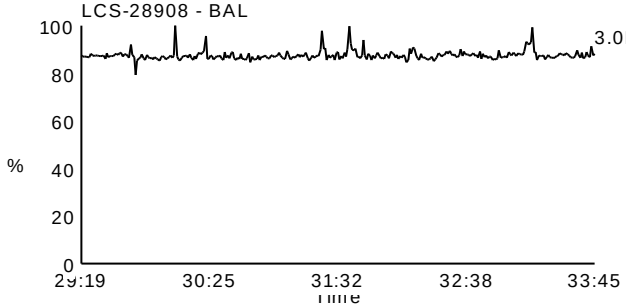
Data File: P110515A_01 G2 C5 - 353.8969
LCS-28908 - BAL



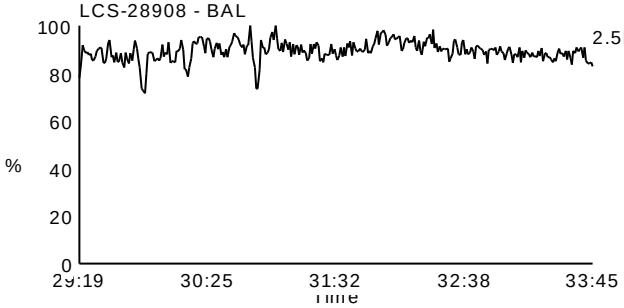
Data File: P110515A_01 G2 C11 - 369.8918
LCS-28908 - BAL



Data File: P110515A_01 G2 C12 - 409.7974
LCS-28908 - BAL



Data File: P110515A_01 G2 C6 - 354.9792
LCS-28908 - BAL

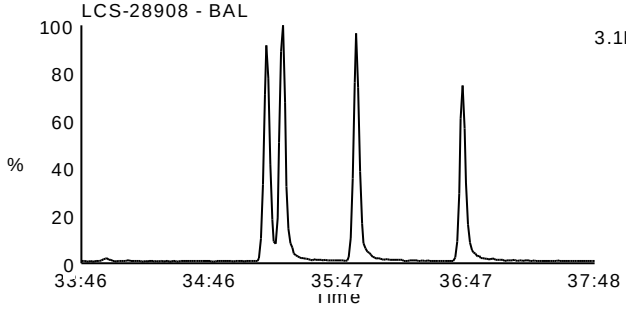


Homologue Group: Hexas

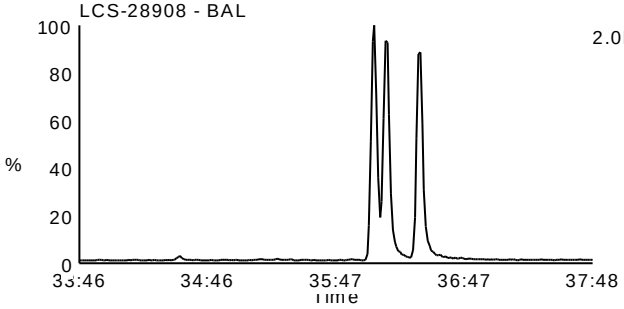
Data File Name: P110515A_01
Date Acquired: 5/15/2011
Sample Description: LCS-28908 - BAL

Lab Sample ID: LCS-28908
Client Sample ID:
Instrument: 10MSHR09 (P)

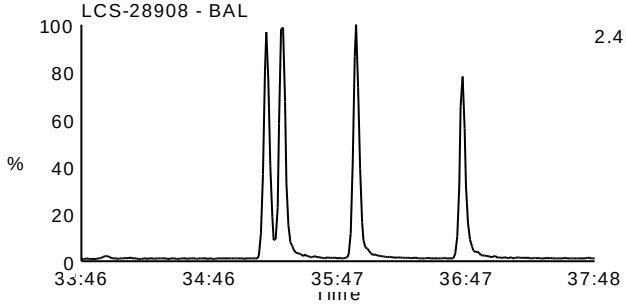
Data File: P110515A_01 G3 C1 - 373.8207
LCS-28908 - BAL



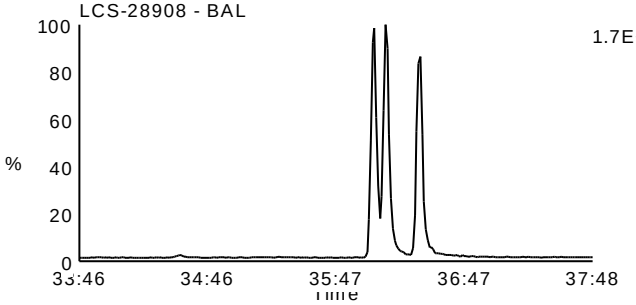
Data File: P110515A_01 G3 C7 - 389.8156
LCS-28908 - BAL



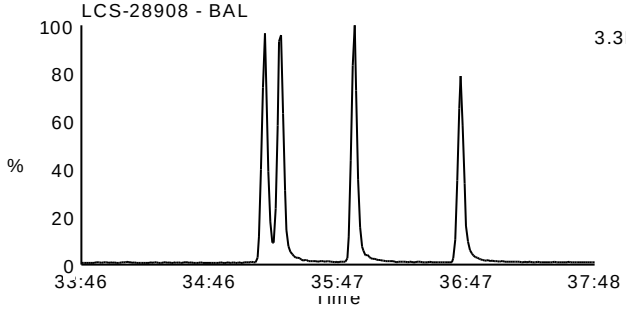
Data File: P110515A_01 G3 C2 - 375.8178
LCS-28908 - BAL



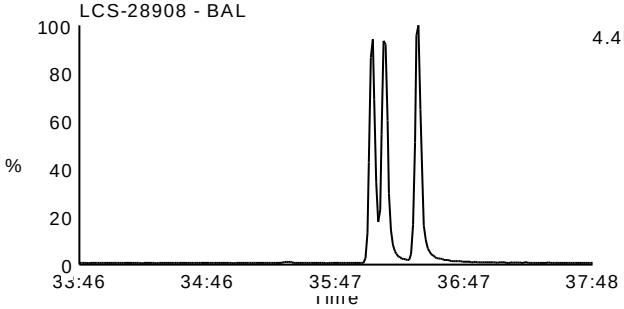
Data File: P110515A_01 G3 C8 - 391.8127
LCS-28908 - BAL



Data File: P110515A_01 G3 C5 - 383.8639
LCS-28908 - BAL



Data File: P110515A_01 G3 C9 - 401.8559
LCS-28908 - BAL



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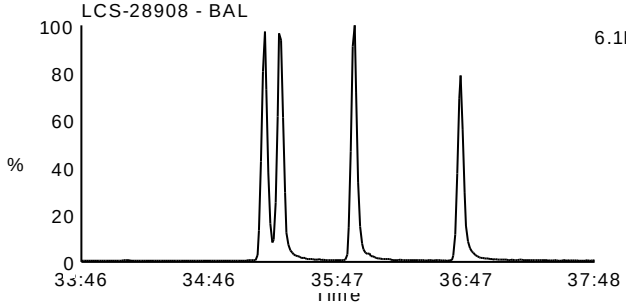
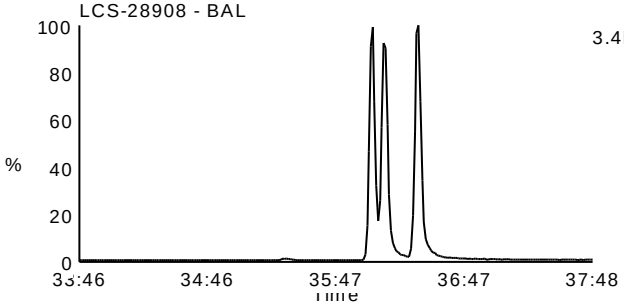
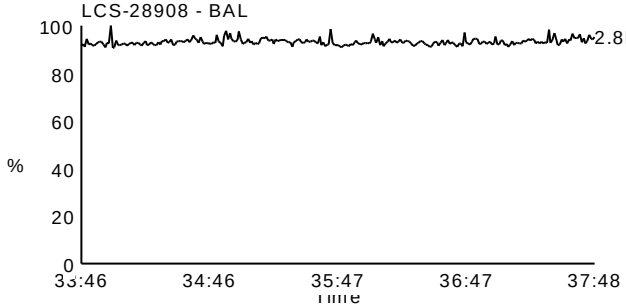
LCS-28908 - BAL



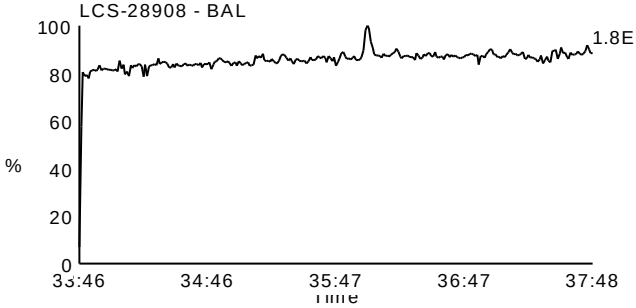
Data File: P110515A_01 G3 C10 - 403.8529
LCS-28908 - BAL



Data File: P110515A_01 G3 C11 - 445.7555
LCS-28908 - BAL



Data File: P110515A_01 G3 C3 - 380.976
LCS-28908 - BAL

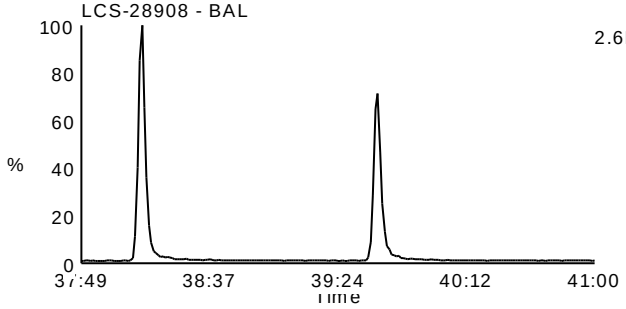


Homologue Group: Heptas

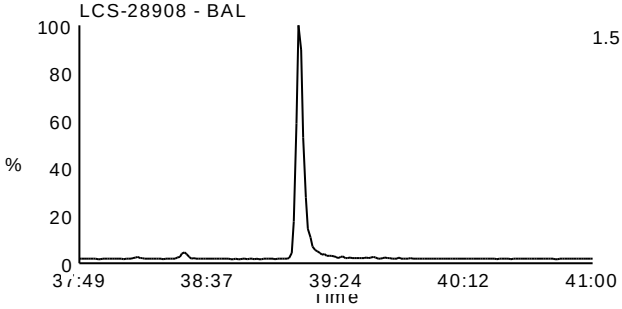
Data File Name: P110515A_01
Date Acquired: 5/15/2011
Sample Description: LCS-28908 - BAL

Lab Sample ID: LCS-28908
Client Sample ID:
Instrument: 10MSHR09 (P)

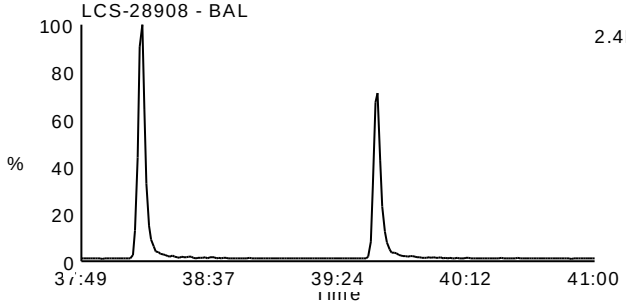
Data File: P110515A_01 G4 C3 - 407.7818
LCS-28908 - BAL



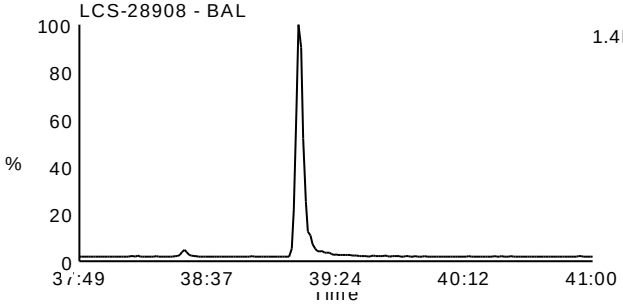
Data File: P110515A_01 G4 C8 - 423.7767
LCS-28908 - BAL



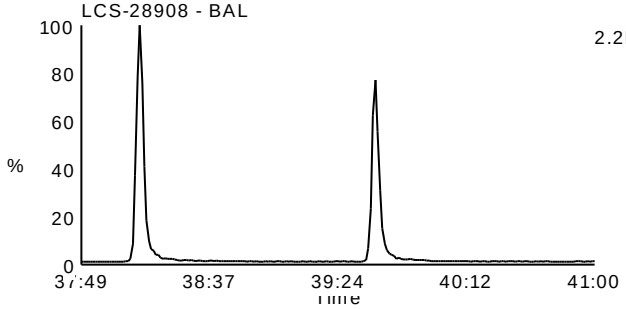
Data File: P110515A_01 G4 C4 - 409.7788
LCS-28908 - BAL



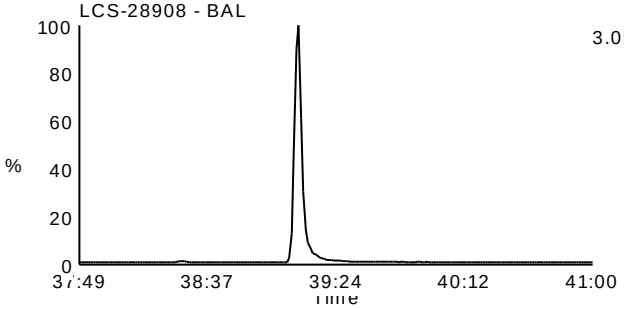
Data File: P110515A_01 G4 C9 - 425.7737
LCS-28908 - BAL



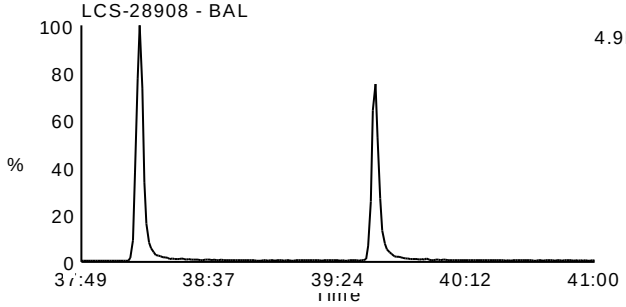
Data File: P110515A_01 G4 C6 - 417.825
LCS-28908 - BAL



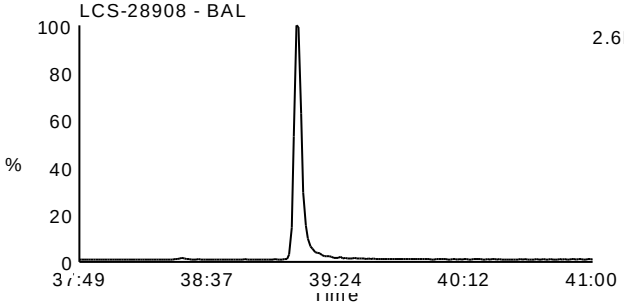
Data File: P110515A_01 G4 C11 - 435.8169
LCS-28908 - BAL



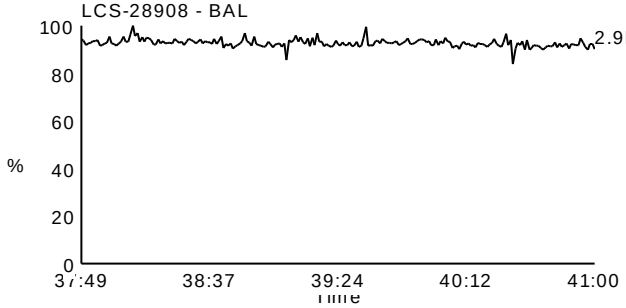
Data File: P110515A_01 G4 C7 - 419.822
LCS-28908 - BAL



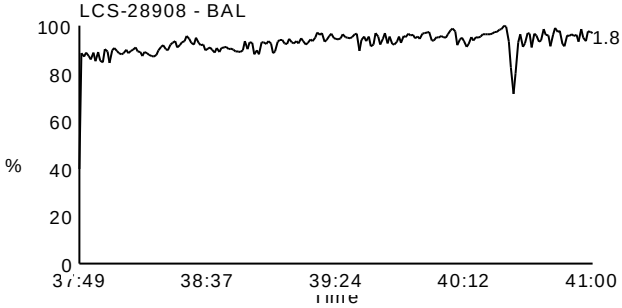
Data File: P110515A_01 G4 C12 - 437.814
LCS-28908 - BAL



Data File: P110515A_01 G4 C13 - 479.7165
LCS-28908 - BAL



Data File: P110515A_01 G4 C1 - 380.976
LCS-28908 - BAL

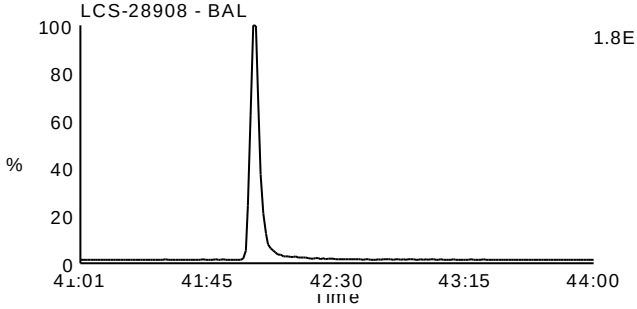


Homologue Group: Octas

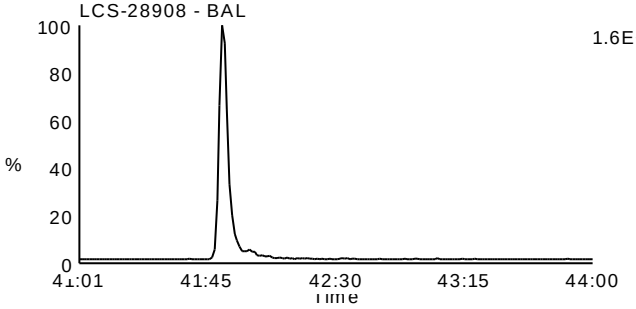
Data File Name: P110515A_01
Date Acquired: 5/15/2011
Sample Description: LCS-28908 - BAL

Lab Sample ID: LCS-28908
Client Sample ID:
Instrument: 10MSHR09 (P)

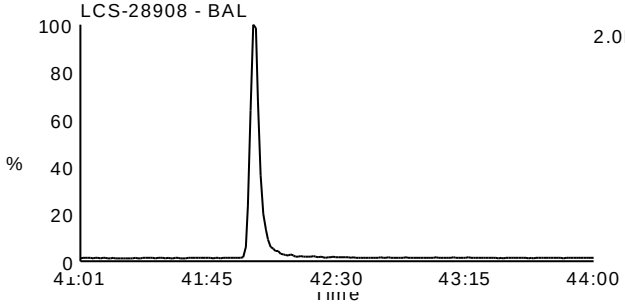
Data File: P110515A_01 G5 C4 - 441.7428
LCS-28908 - BAL
1.8E+6



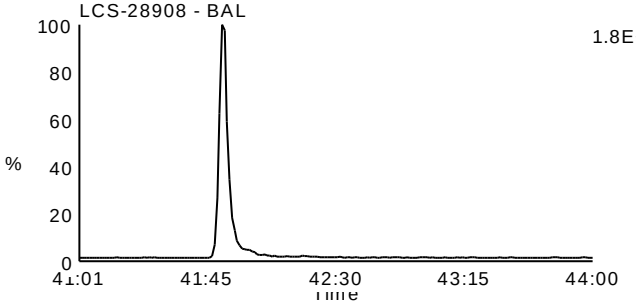
Data File: P110515A_01 G5 C8 - 457.7377
LCS-28908 - BAL
1.6E+6



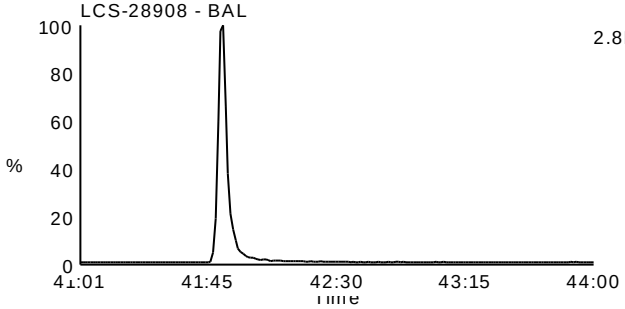
Data File: P110515A_01 G5 C5 - 443.7398
LCS-28908 - BAL
2.0E+6



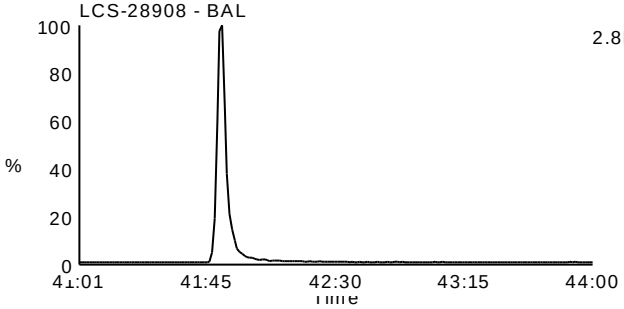
Data File: P110515A_01 G5 C9 - 459.7347
LCS-28908 - BAL
1.8E+6



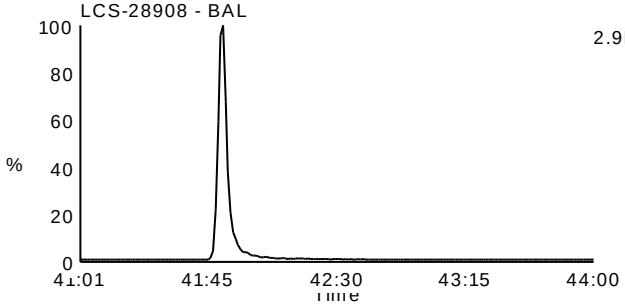
Data File: P110515A_01 G5 C11 - 469.7779
LCS-28908 - BAL
2.8E+6



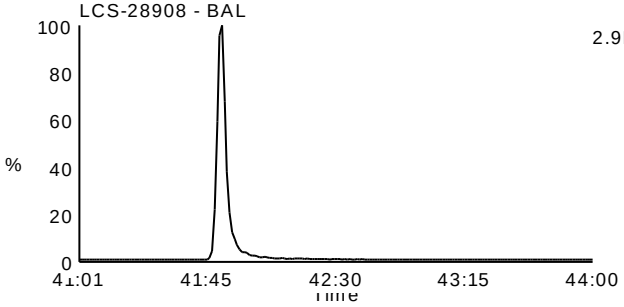
Data File: P110515A_01 G5 C11 - 469.7779
LCS-28908 - BAL
2.8E+6



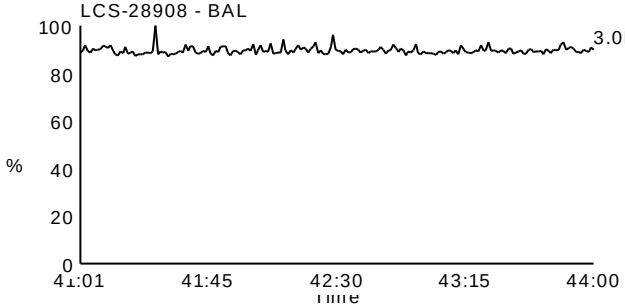
Data File: P110515A_01 G5 C12 - 471.7749
LCS-28908 - BAL
2.9E+6



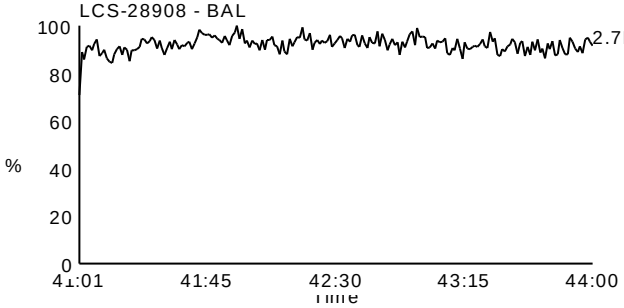
Data File: P110515A_01 G5 C12 - 471.7749
LCS-28908 - BAL
2.9E+6



Data File: P110515A_01 G5 C13 - 513.6775
LCS-28908 - BAL
3.0E+4



Data File: P110515A_01 G5 C2 - 430.9728
LCS-28908 - BAL
2.7E+6

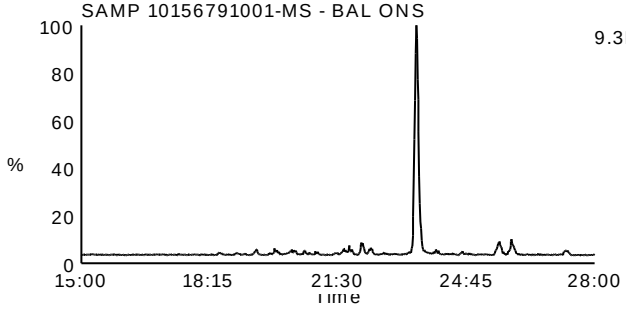


Homologue Group: Tetras

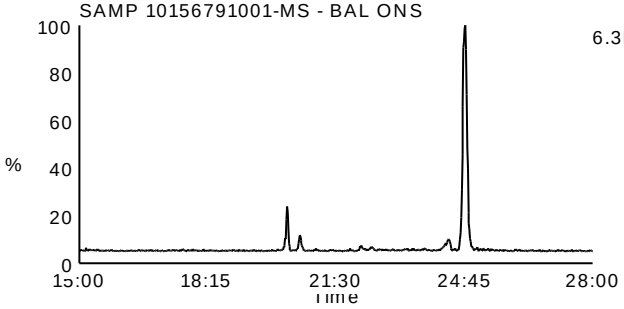
Data File Name: F110515B_12
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001-MS - BAL ONS

Lab Sample ID: 10156791001-MS
Client Sample ID: KCP4-SO-274-B-110506-MS
Instrument: 10MSHR05 (F)

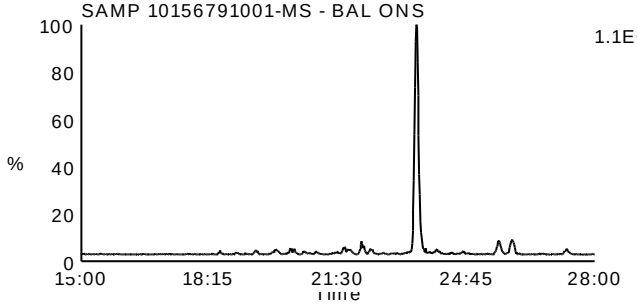
Data File: F110515B 12 G1 C1 - 303.9016
SAMP 10156791001-MS - BAL ONS
9.3E+5



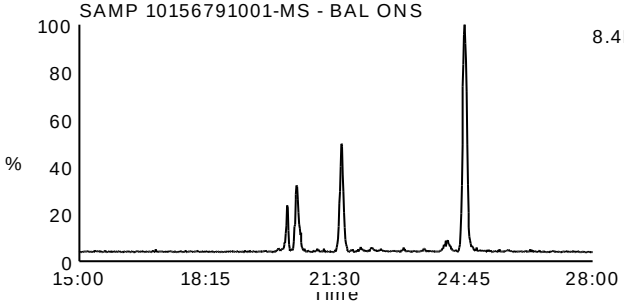
Data File: F110515B 12 G1 C7 - 319.8965
SAMP 10156791001-MS - BAL ONS
6.3E+5



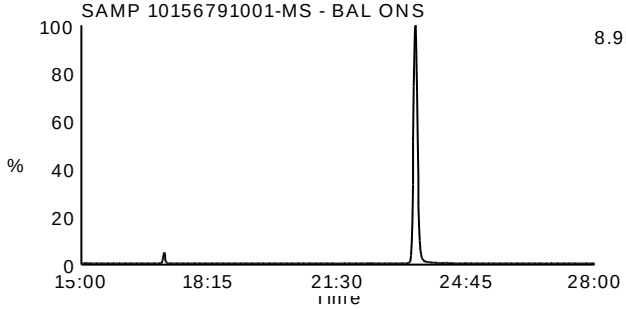
Data File: F110515B_12 G1 C2 - 305.8987
SAMP 10156791001-MS - BAL ONS
1.1E+6



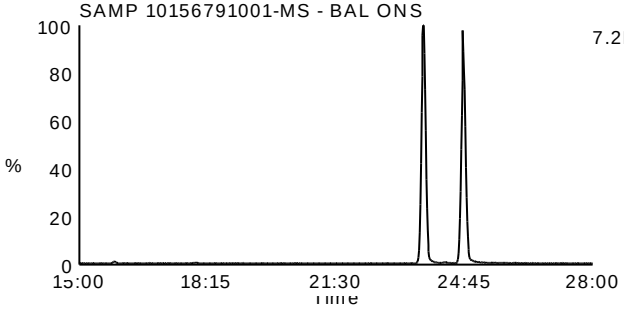
Data File: F110515B_12 G1 C8 - 321.8936
SAMP 10156791001-MS - BAL ONS
8.4E+5



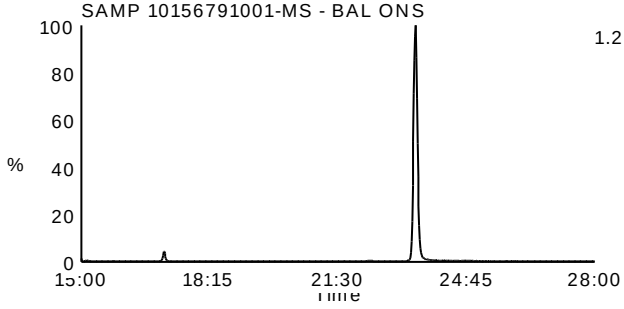
Data File: F110515B 12 G1 C3 - 315.9418
SAMP 10156791001-MS - BAL ONS
8.9E+6



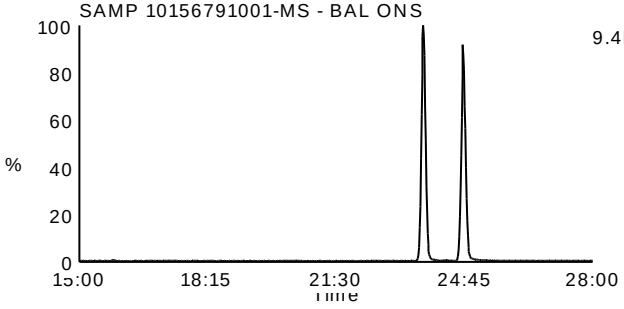
Data File: F110515B 12 G1 C10 - 331.9367
SAMP 10156791001-MS - BAL ONS
7.2E+6



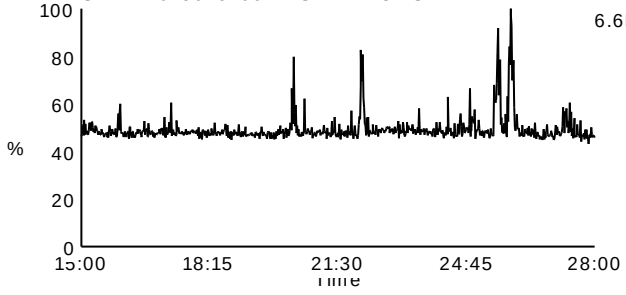
Data File: F110515B_12 G1 C4 - 317.9389
SAMP 10156791001-MS - BAL ONS
1.2E+7



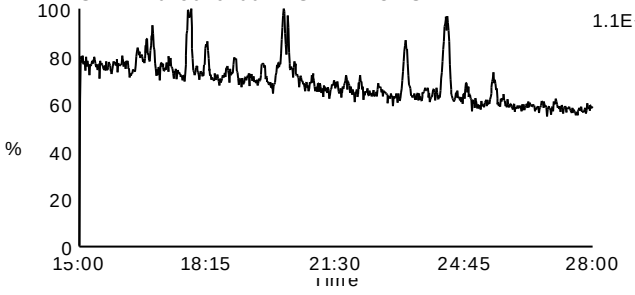
Data File: F110515B_12 G1 C11 - 333.9338
SAMP 10156791001-MS - BAL ONS
9.4E+6



Data File: F110515B_12 G1 C14 - 375.8364
SAMP 10156791001-MS - BAL ONS
6.6E+4



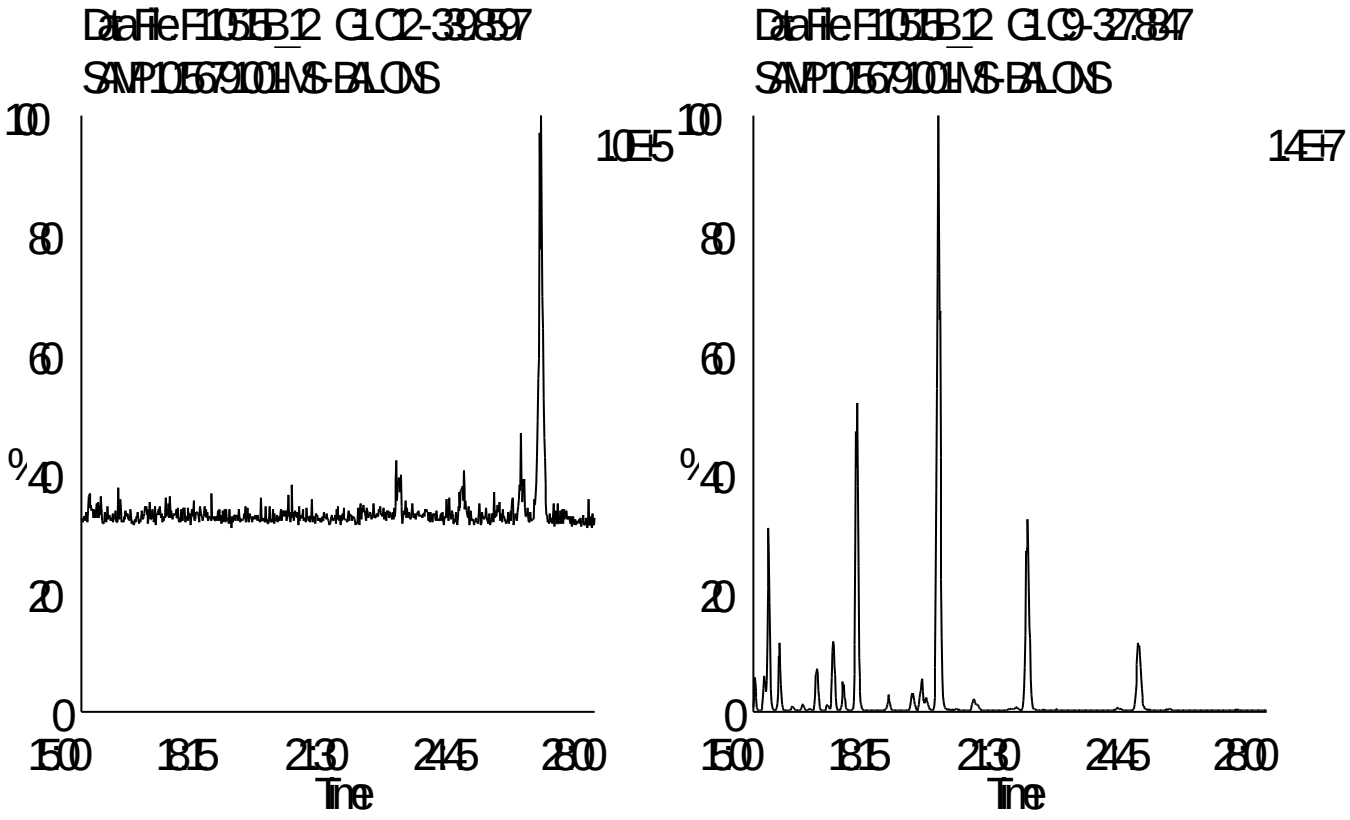
Data File: F110515B_12 G1 C5 - 318.9792
SAMP 10156791001-MS - BAL ONS
1.1E+7



Homologue Group: Penta & Cleanup

Data File Name: F110515B_12
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001-MS - BAL ONS

Lab Sample ID: 10156791001-MS
Client Sample ID: KCP4-SO-274-B-110506-MS
Instrument: 10MSHR05 (F)

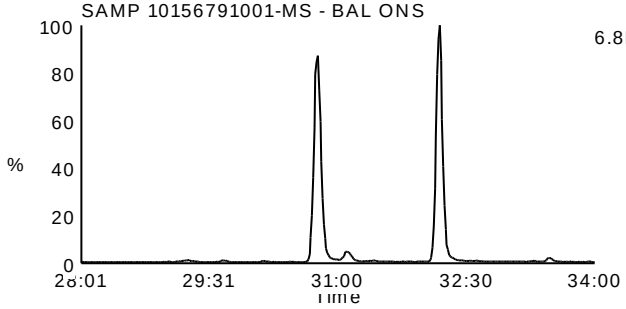


Homologue Group: Pentas

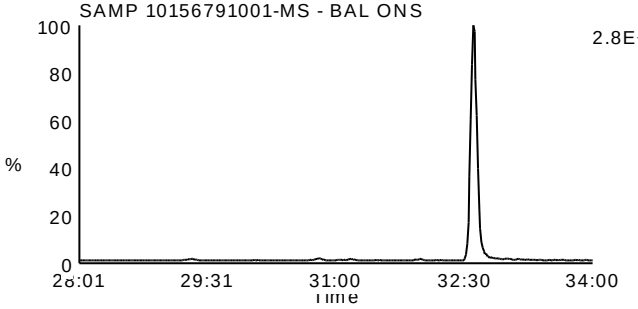
Data File Name: F110515B_12
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001-MS - BAL ONS

Lab Sample ID: 10156791001-MS
Client Sample ID: KCP4-SO-274-B-110506-MS
Instrument: 10MSHR05 (F)

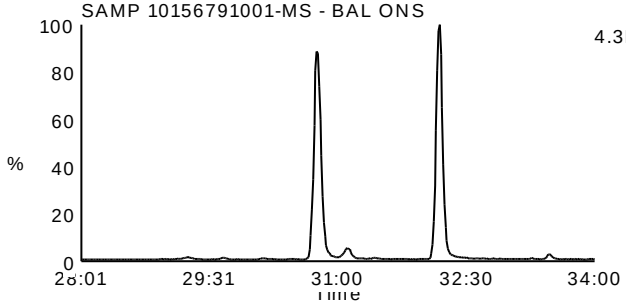
Data File: F110515B 12 G2 C1 - 339.8597
SAMP 10156791001-MS - BAL ONS
6.8E+6



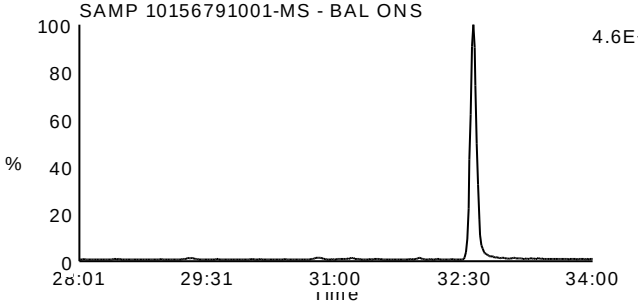
Data File: F110515B 12 G2 C4 - 353.8576
SAMP 10156791001-MS - BAL ONS
2.8E+6



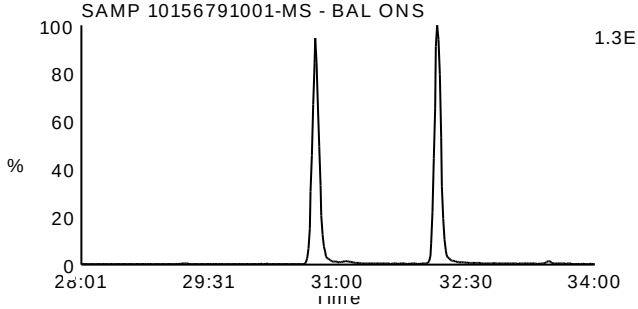
Data File: F110515B_12 G2 C2 - 341.8567
SAMP 10156791001-MS - BAL ONS
4.3E+6



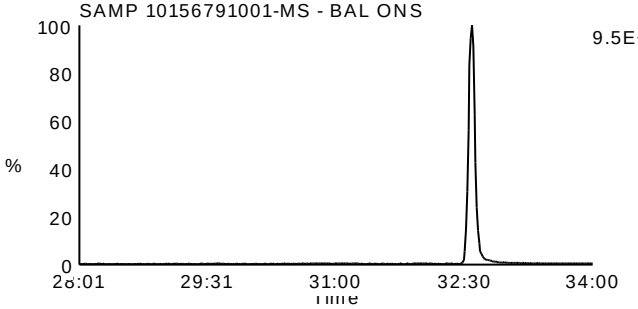
Data File: F110515B_12 G2 C8 - 355.8546
SAMP 10156791001-MS - BAL ONS
4.6E+6



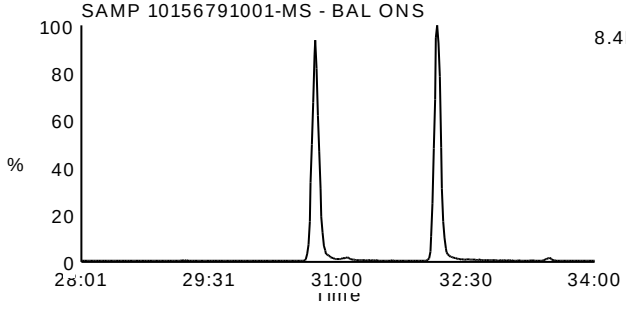
Data File: F110515B 12 G2 C3 - 351.8999
SAMP 10156791001-MS - BAL ONS
1.3E+7



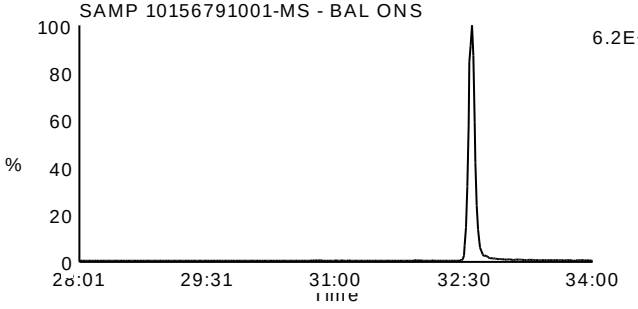
Data File: F110515B 12 G2 C10 - 367.8948
SAMP 10156791001-MS - BAL ONS
9.5E+6



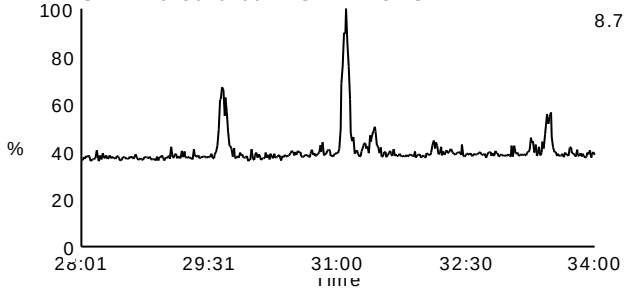
Data File: F110515B_12 G2 C5 - 353.8969
SAMP 10156791001-MS - BAL ONS
8.4E+6



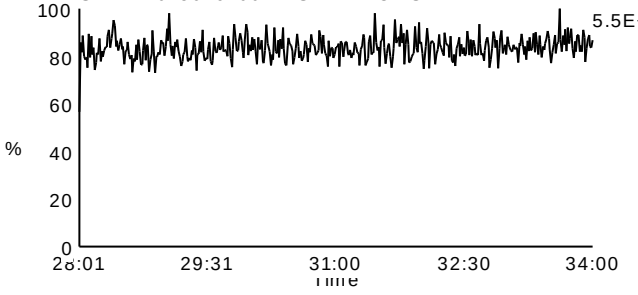
Data File: F110515B_12 G2 C11 - 369.8918
SAMP 10156791001-MS - BAL ONS
6.2E+6



Data File: F110515B_12 G2 C12 - 409.7974
SAMP 10156791001-MS - BAL ONS
8.7E+4



Data File: F110515B_12 G2 C6 - 354.9792
SAMP 10156791001-MS - BAL ONS
5.5E+6

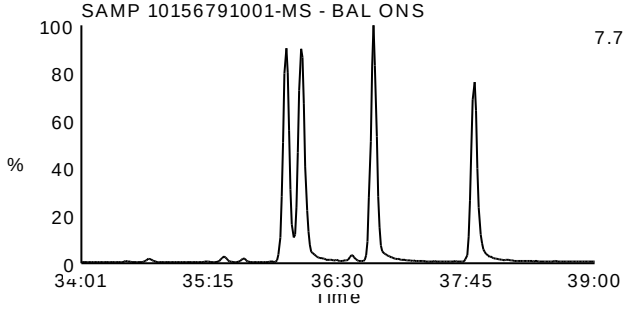


Homologue Group: Hexas

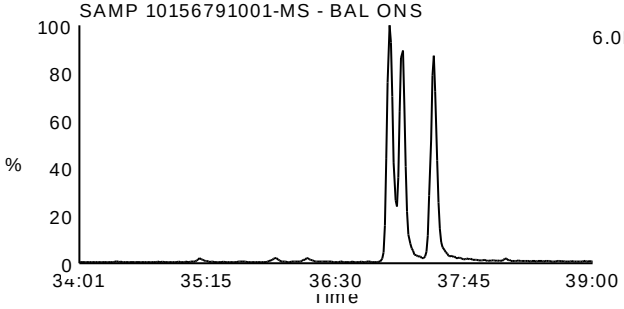
Data File Name: F110515B_12
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001-MS - BAL ONS

Lab Sample ID: 10156791001-MS
Client Sample ID: KCP4-SO-274-B-110506-MS
Instrument: 10MSHR05 (F)

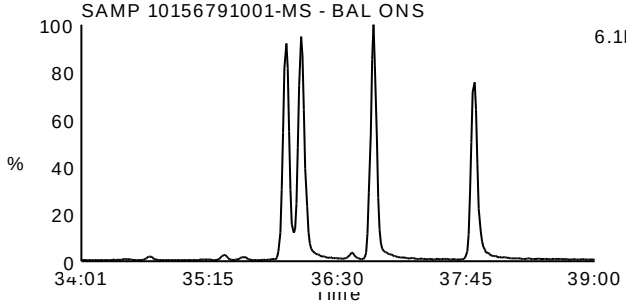
Data File: F110515B 12 G3 C1 - 373.8207
SAMP 10156791001-MS - BAL ONS
7.7E+6



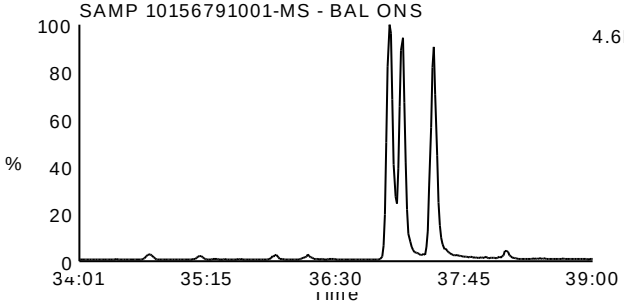
Data File: F110515B 12 G3 C7 - 389.8156
SAMP 10156791001-MS - BAL ONS
6.0E+6



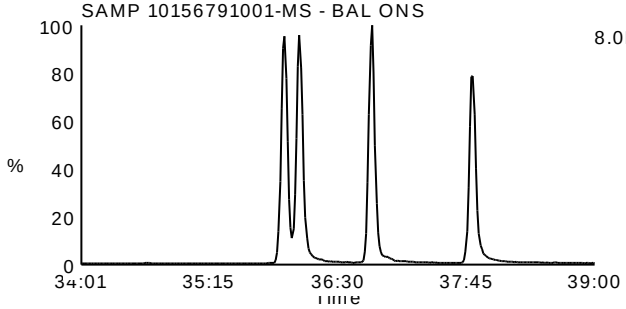
Data File: F110515B_12 G3 C2 - 375.8178
SAMP 10156791001-MS - BAL ONS
6.1E+6



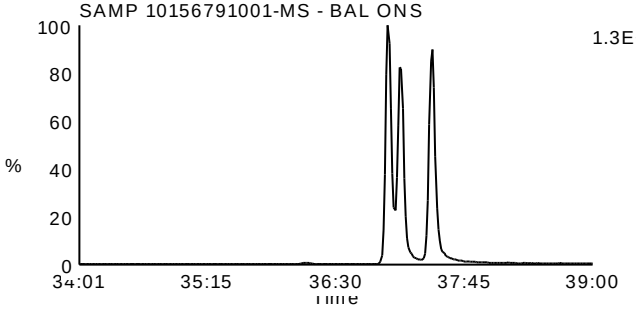
Data File: F110515B_12 G3 C8 - 391.8127
SAMP 10156791001-MS - BAL ONS
4.6E+6



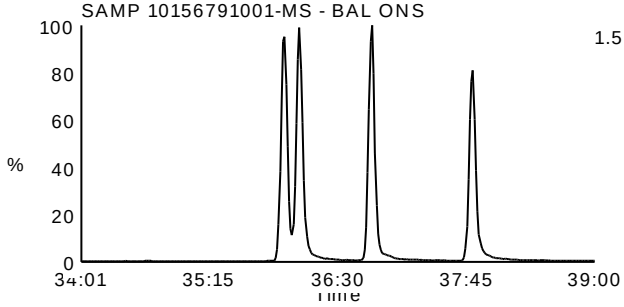
Data File: F110515B 12 G3 C5 - 383.8639
SAMP 10156791001-MS - BAL ONS
8.0E+6



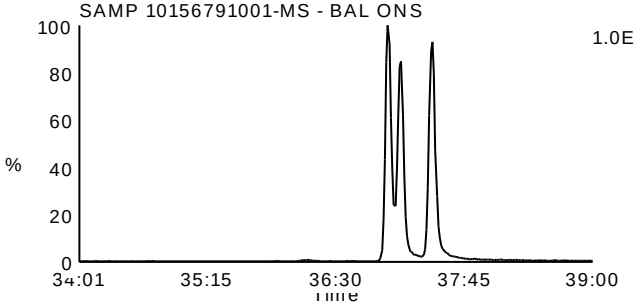
Data File: F110515B 12 G3 C9 - 401.8559
SAMP 10156791001-MS - BAL ONS
1.3E+7



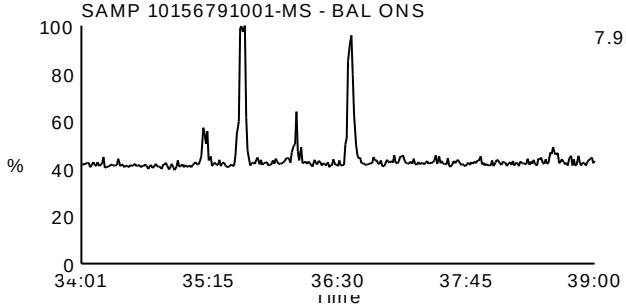
Data File: F110515B_12 G3 C6 - 385.861
SAMP 10156791001-MS - BAL ONS
1.5E+7



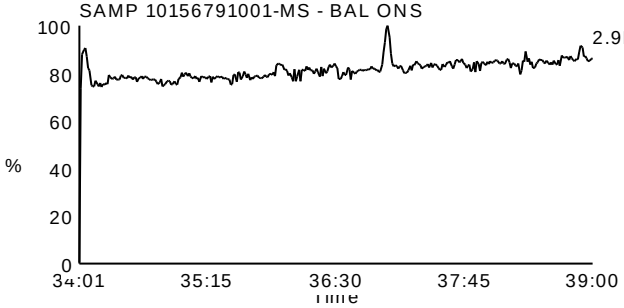
Data File: F110515B_12 G3 C10 - 403.8529
SAMP 10156791001-MS - BAL ONS
1.0E+7



Data File: F110515B_12 G3 C11 - 445.7555
SAMP 10156791001-MS - BAL ONS
7.9E+4



Data File: F110515B_12 G3 C3 - 380.976
SAMP 10156791001-MS - BAL ONS
2.9E+7

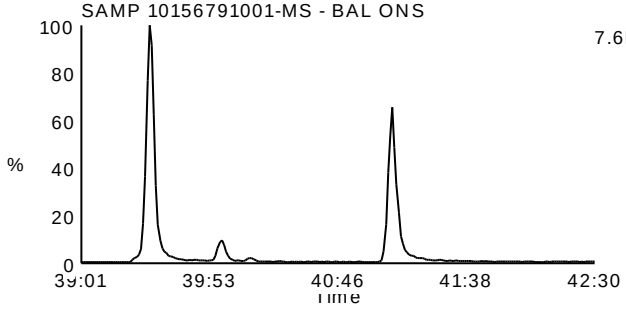


Homologue Group: Heptas

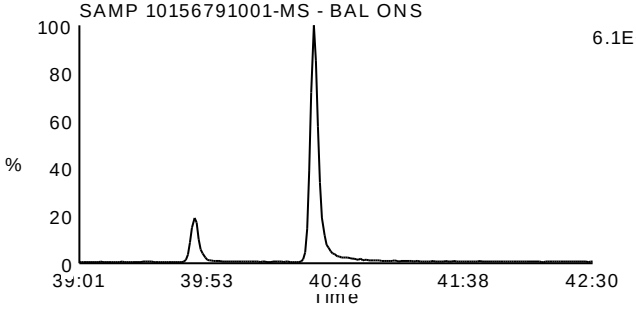
Data File Name: F110515B_12
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001-MS - BAL ONS

Lab Sample ID: 10156791001-MS
Client Sample ID: KCP4-SO-274-B-110506-MS
Instrument: 10MSHR05 (F)

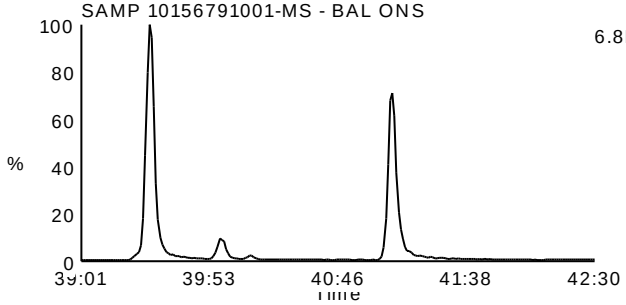
Data File: F110515B 12 G4 C3 - 407.7818
SAMP 10156791001-MS - BAL ONS
7.6E+6



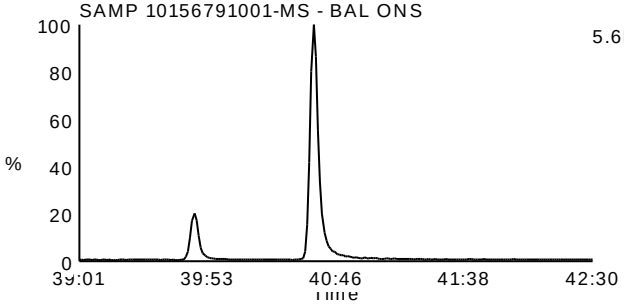
Data File: F110515B 12 G4 C8 - 423.7767
SAMP 10156791001-MS - BAL ONS
6.1E+6



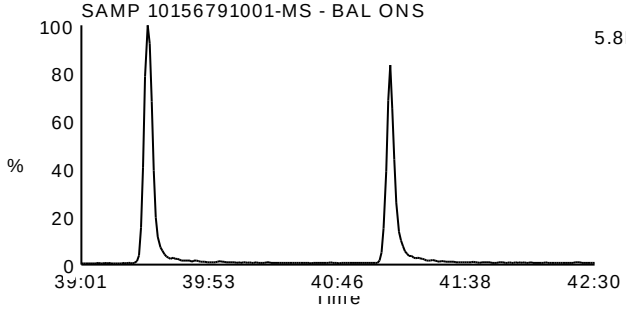
Data File: F110515B_12 G4 C4 - 409.7788
SAMP 10156791001-MS - BAL ONS
6.8E+6



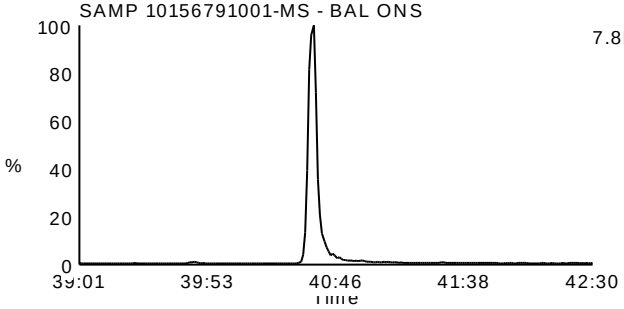
Data File: F110515B_12 G4 C9 - 425.7737
SAMP 10156791001-MS - BAL ONS
5.6E+6



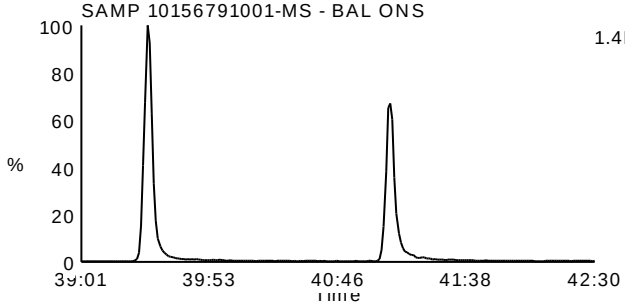
Data File: F110515B 12 G4 C6 - 417.825
SAMP 10156791001-MS - BAL ONS
5.8E+6



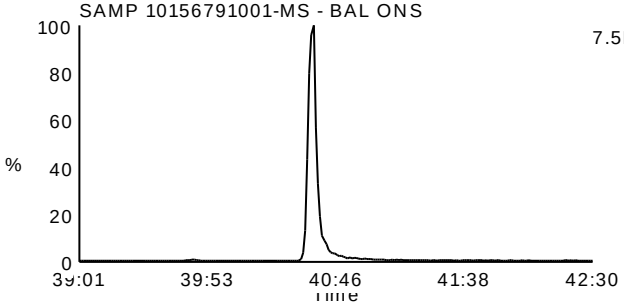
Data File: F110515B 12 G4 C11 - 435.8169
SAMP 10156791001-MS - BAL ONS
7.8E+6



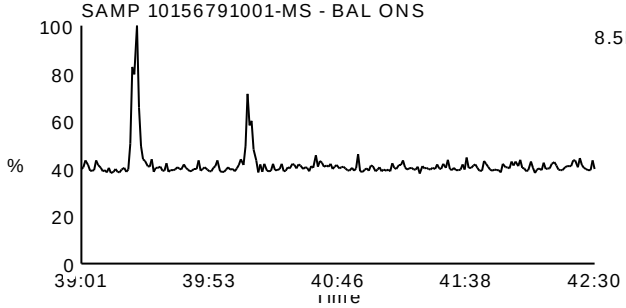
Data File: F110515B_12 G4 C7 - 419.822
SAMP 10156791001-MS - BAL ONS
1.4E+7



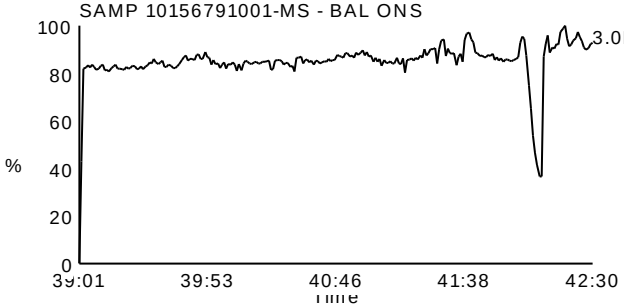
Data File: F110515B_12 G4 C12 - 437.814
SAMP 10156791001-MS - BAL ONS
7.5E+6



Data File: F110515B_12 G4 C13 - 479.7165
SAMP 10156791001-MS - BAL ONS
8.5E+4



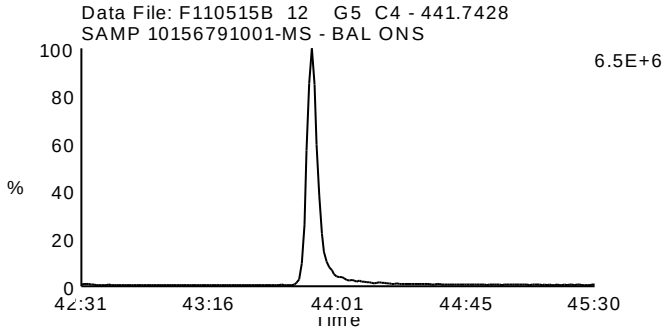
Data File: F110515B_12 G4 C1 - 380.976
SAMP 10156791001-MS - BAL ONS
3.0E+7

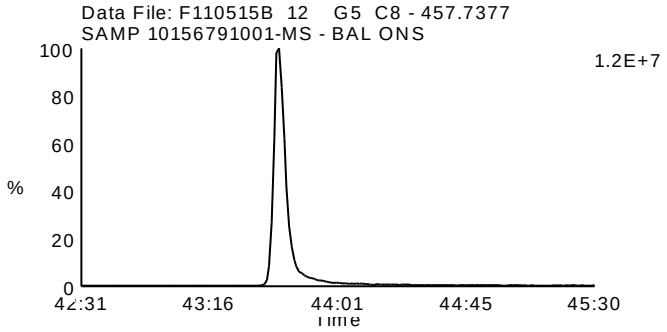


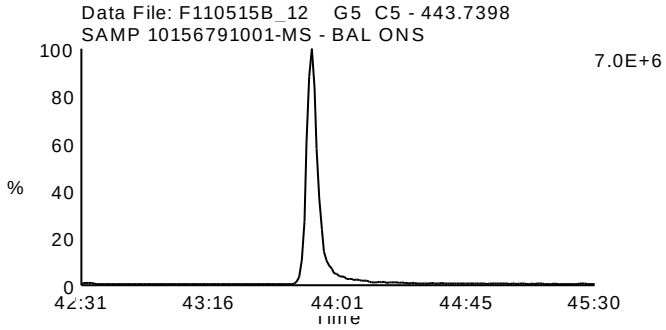
Homologue Group: Octas

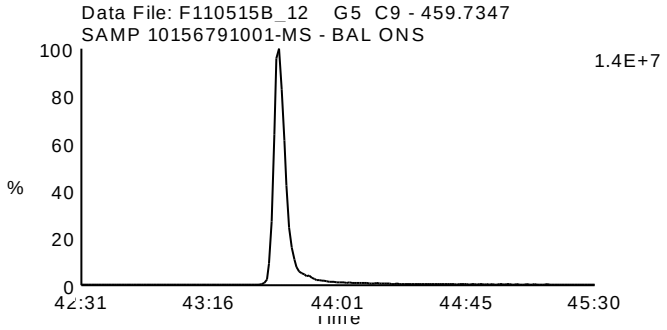
Data File Name: F110515B_12
Date Acquired: 5/15/2011
Sample Description: SAMP 10156791001-MS - BAL ONS

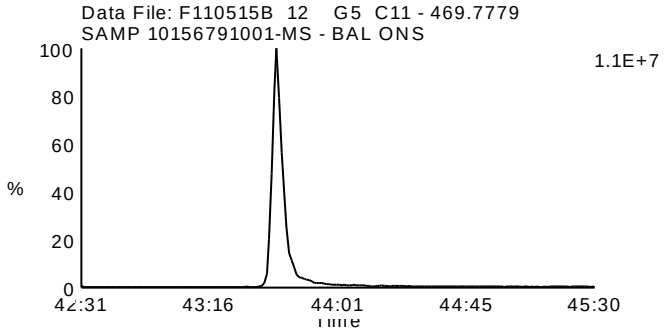
Lab Sample ID: 10156791001-MS
Client Sample ID: KCP4-SO-274-B-110506-MS
Instrument: 10MSHR05 (F)

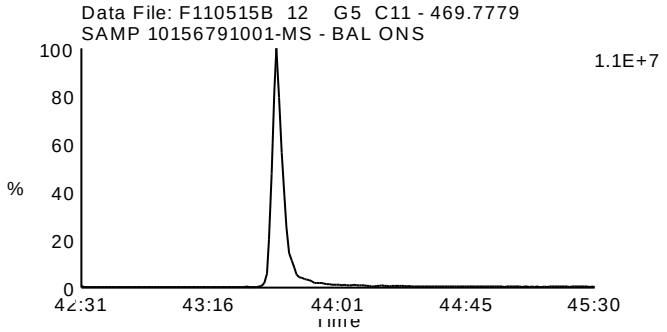


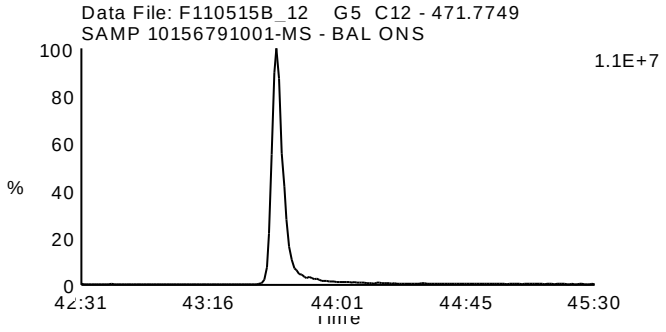


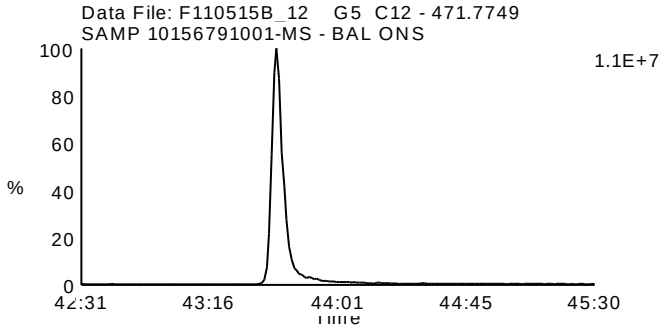


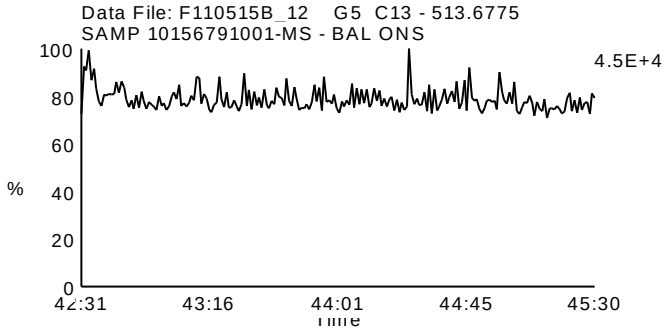


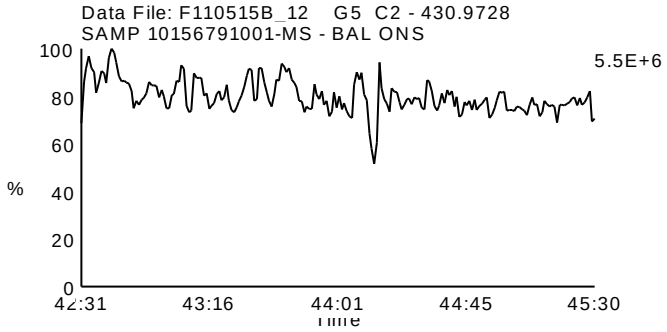










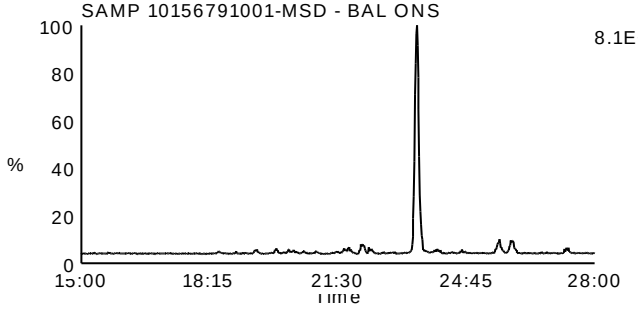


Homologue Group: Tetras

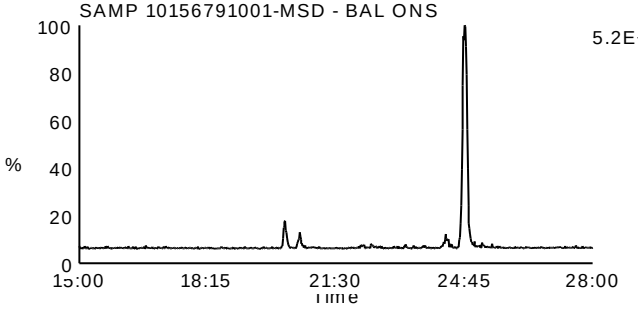
Data File Name: F110515B_13
Date Acquired: 5/16/2011
Sample Description: SAMP 10156791001-MSD - BAL ONS

Lab Sample ID: 10156791001-MSD
Client Sample ID: KCP4-SO-274-B-110506-MSD
Instrument: 10MSHR05 (F)

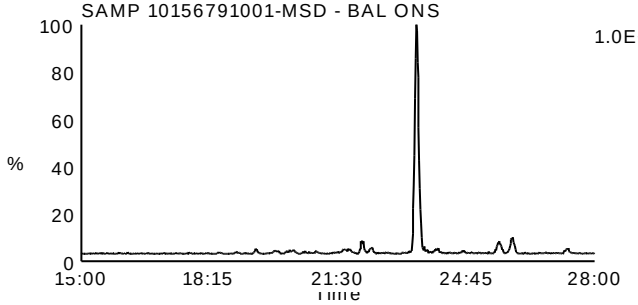
Data File: F110515B 13 G1 C1 - 303.9016
SAMP 10156791001-MSD - BAL ONS



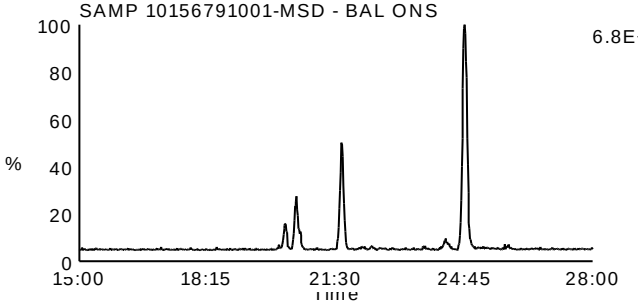
Data File: F110515B 13 G1 C7 - 319.8965
SAMP 10156791001-MSD - BAL ONS



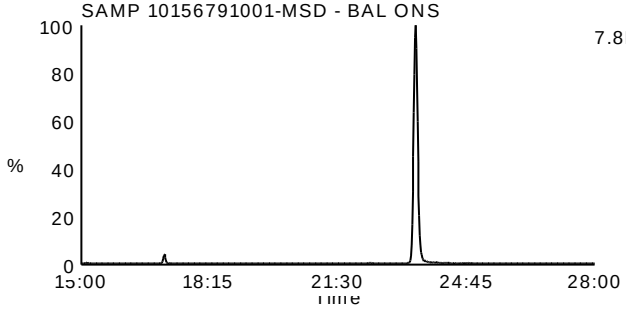
Data File: F110515B_13 G1 C2 - 305.8987
SAMP 10156791001-MSD - BAL ONS



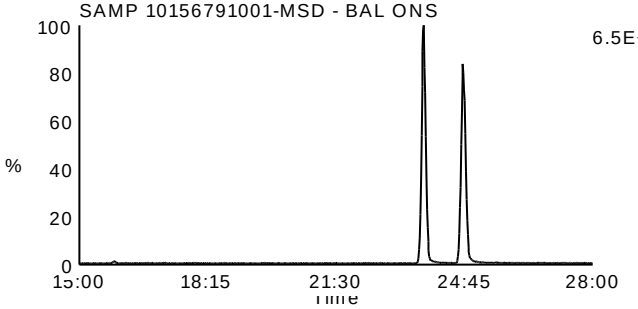
Data File: F110515B_13 G1 C8 - 321.8936
SAMP 10156791001-MSD - BAL ONS



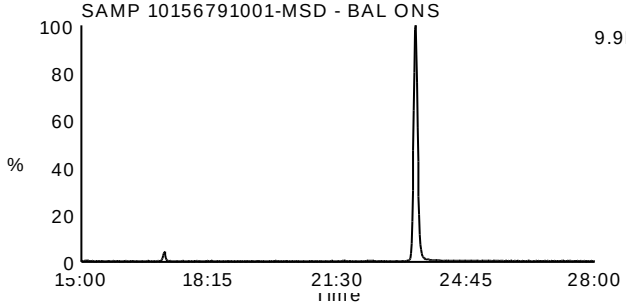
Data File: F110515B 13 G1 C3 - 315.9418
SAMP 10156791001-MSD - BAL ONS



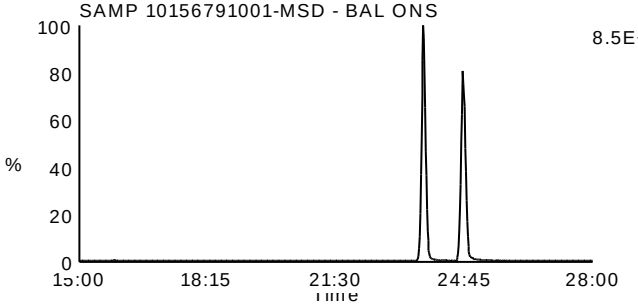
Data File: F110515B 13 G1 C10 - 331.9367
SAMP 10156791001-MSD - BAL ONS



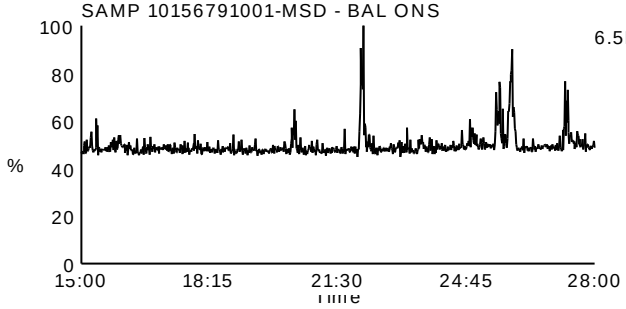
Data File: F110515B_13 G1 C4 - 317.9389
SAMP 10156791001-MSD - BAL ONS



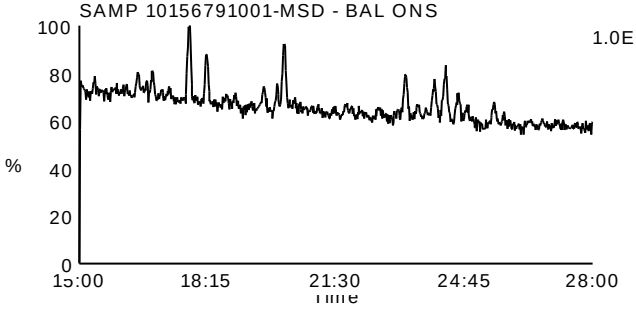
Data File: F110515B_13 G1 C11 - 333.9338
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B_13 G1 C14 - 375.8364
SAMP 10156791001-MSD - BAL ONS



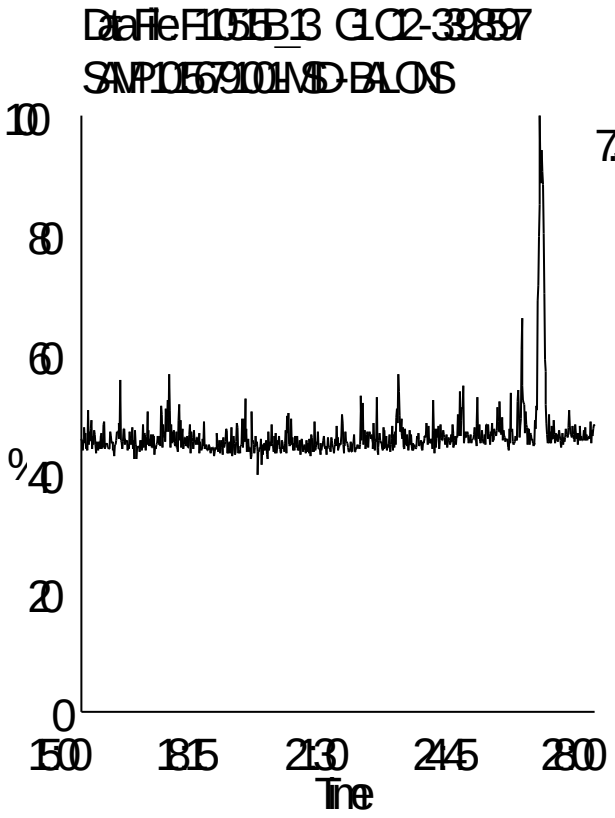
Data File: F110515B_13 G1 C5 - 318.9792
SAMP 10156791001-MSD - BAL ONS

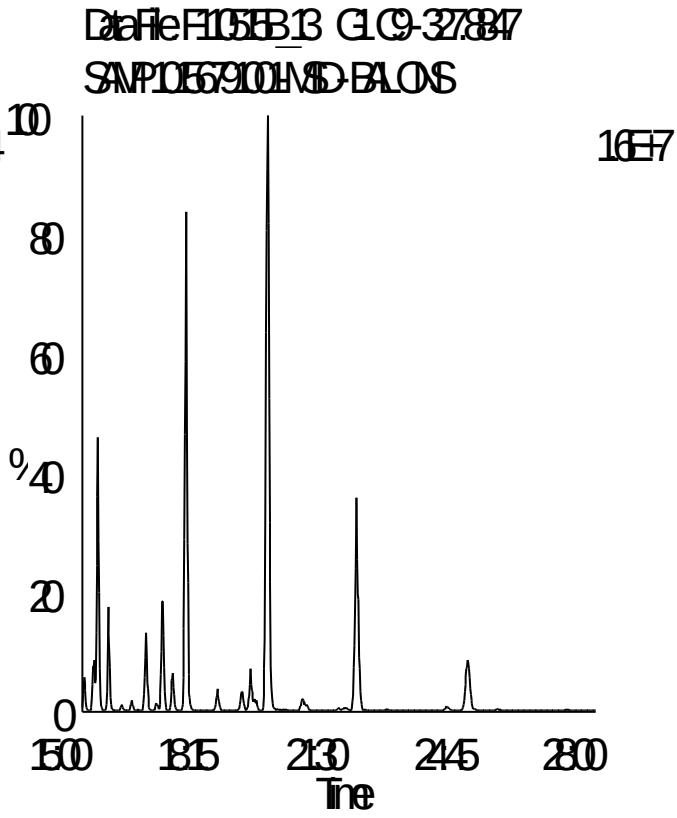


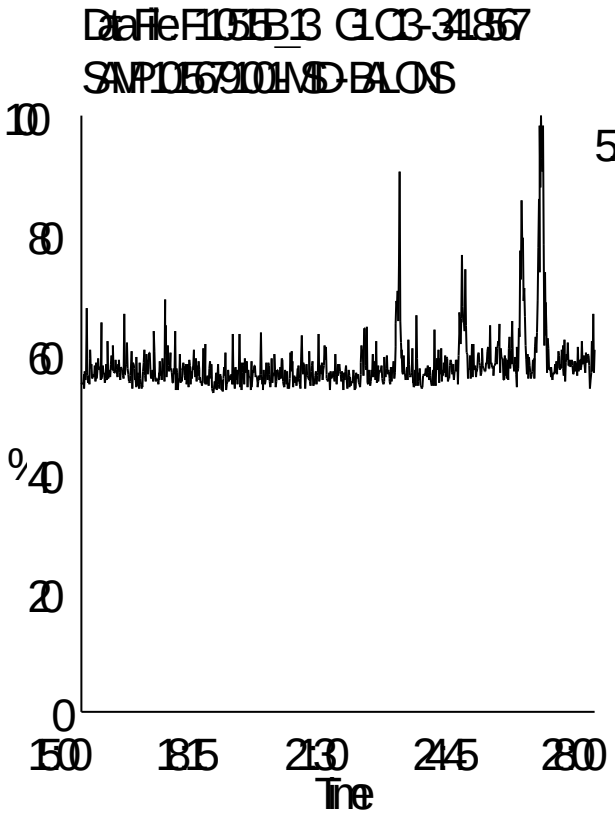
Homologue Group: Penta & Cleanup

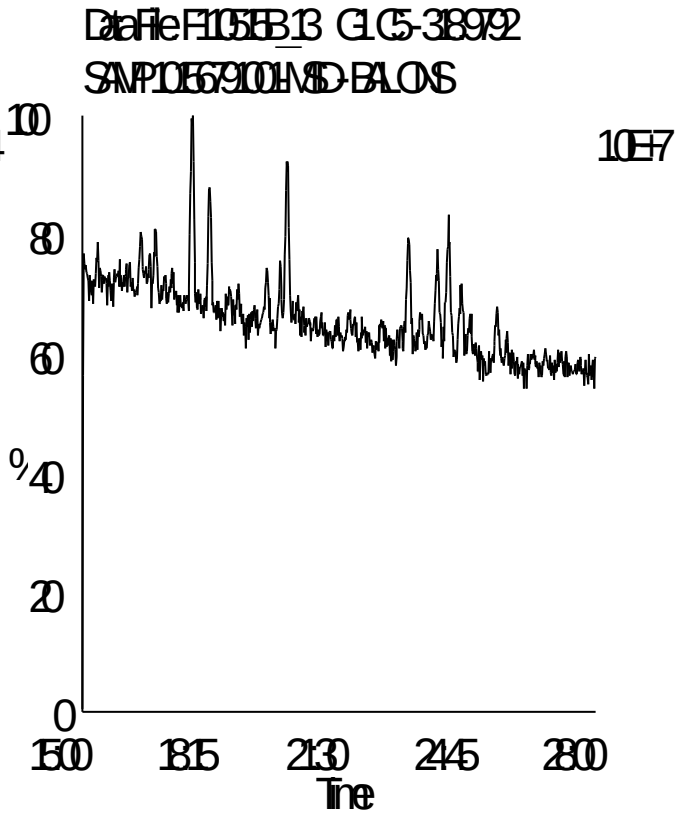
Data File Name: F110515B_13
Date Acquired: 5/16/2011
Sample Description: SAMP 10156791001-MSD - BAL ONS

Lab Sample ID: 10156791001-MSD
Client Sample ID: KCP4-SO-274-B-110506-MSD
Instrument: 10MSHR05 (F)







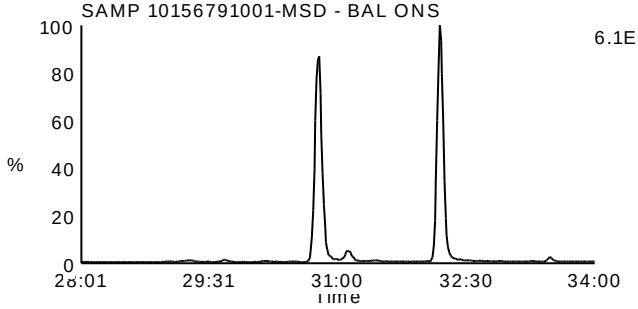


Homologue Group: Pentas

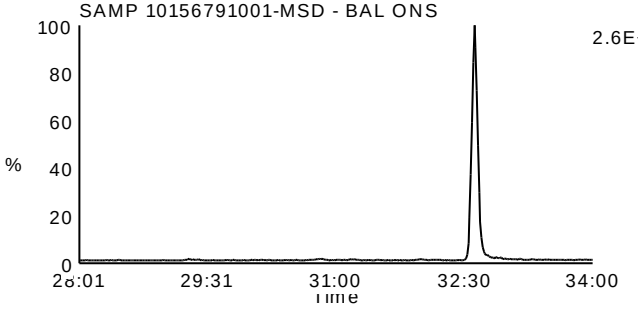
Data File Name: F110515B_13
Date Acquired: 5/16/2011
Sample Description: SAMP 10156791001-MSD - BAL ONS

Lab Sample ID: 10156791001-MSD
Client Sample ID: KCP4-SO-274-B-110506-MSD
Instrument: 10MSHR05 (F)

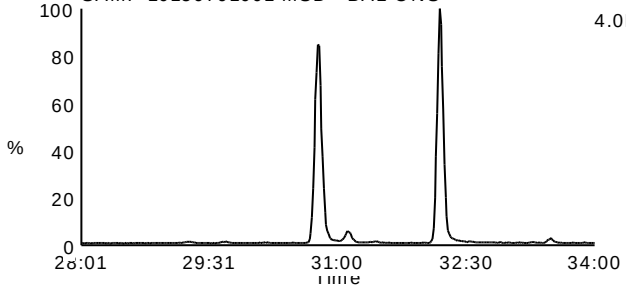
Data File: F110515B 13 G2 C1 - 339.8597
SAMP 10156791001-MSD - BAL ONS



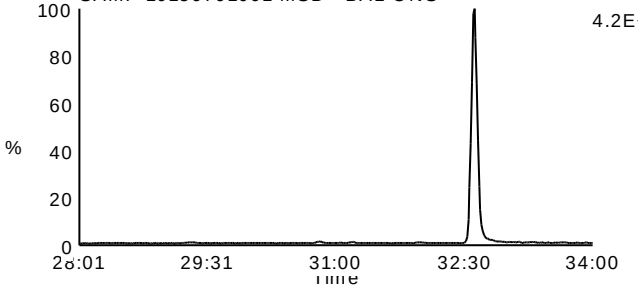
Data File: F110515B 13 G2 C4 - 353.8576
SAMP 10156791001-MSD - BAL ONS



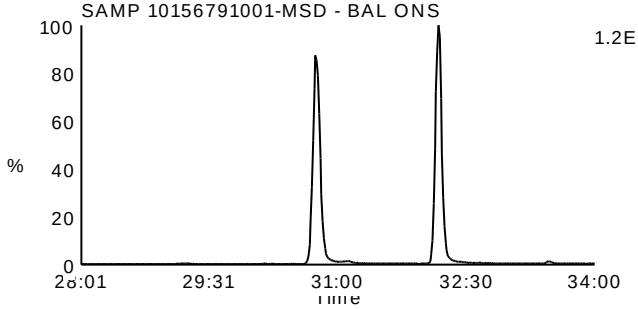
Data File: F110515B_13 G2 C2 - 341.8567
SAMP 10156791001-MSD - BAL ONS



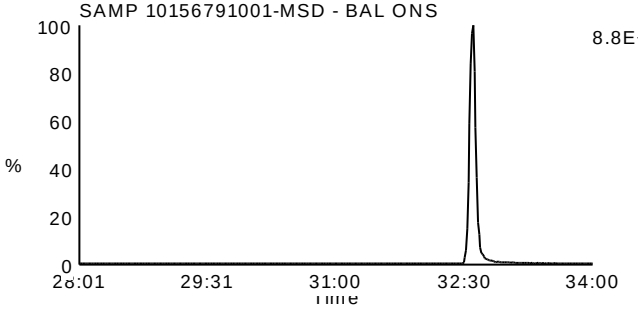
Data File: F110515B_13 G2 C8 - 355.8546
SAMP 10156791001-MSD - BAL ONS



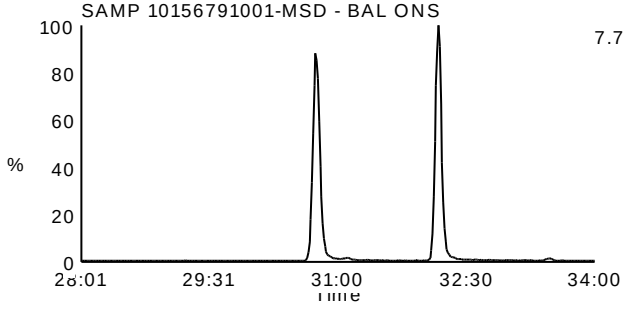
Data File: F110515B 13 G2 C3 - 351.8999
SAMP 10156791001-MSD - BAL ONS



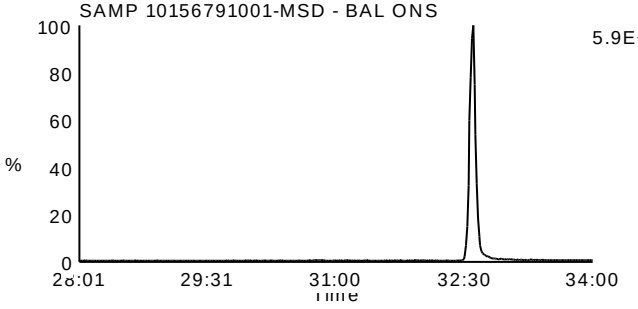
Data File: F110515B 13 G2 C10 - 367.8948
SAMP 10156791001-MSD - BAL ONS



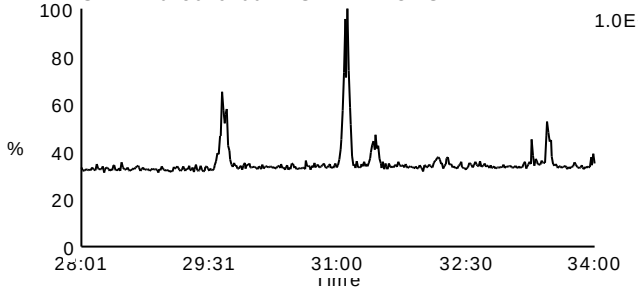
Data File: F110515B_13 G2 C5 - 353.8969
SAMP 10156791001-MSD - BAL ONS



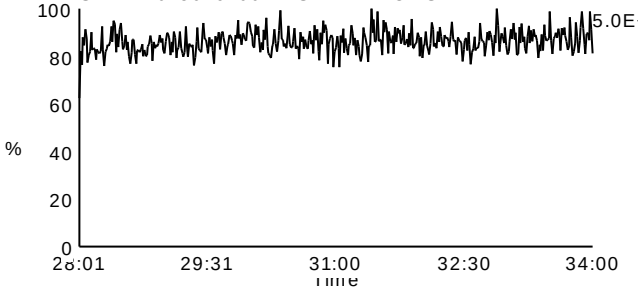
Data File: F110515B_13 G2 C11 - 369.8918
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B_13 G2 C12 - 409.7974
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B_13 G2 C6 - 354.9792
SAMP 10156791001-MSD - BAL ONS

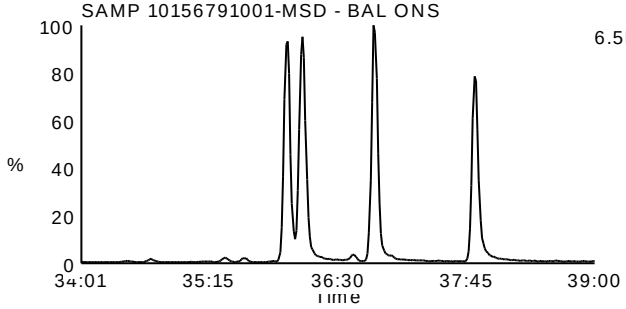


Homologue Group: Hexas

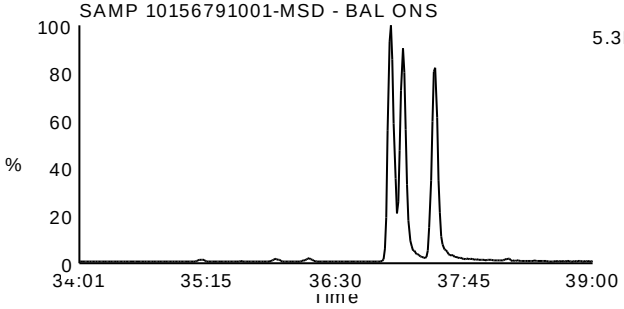
Data File Name: F110515B_13
Date Acquired: 5/16/2011
Sample Description: SAMP 10156791001-MSD - BAL ONS

Lab Sample ID: 10156791001-MSD
Client Sample ID: KCP4-SO-274-B-110506-MSD
Instrument: 10MSHR05 (F)

Data File: F110515B 13 G3 C1 - 373.8207
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B 13 G3 C7 - 389.8156
SAMP 10156791001-MSD - BAL ONS



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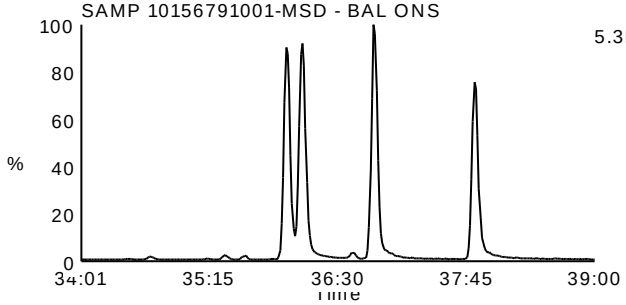
SAMP 10156791001-MSD - BAL ONS



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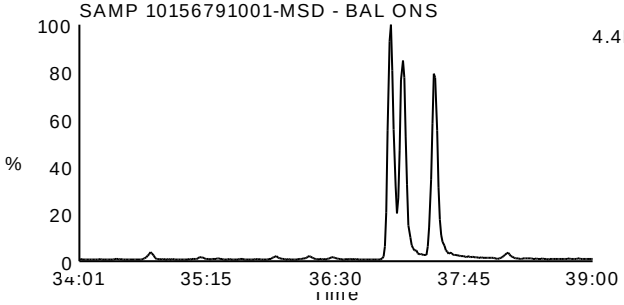
SAMP 10156791001-MSD - BAL ONS



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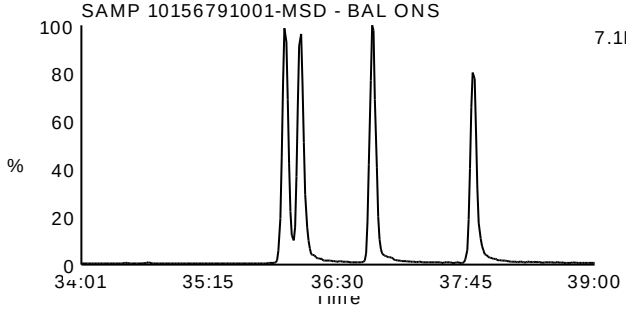
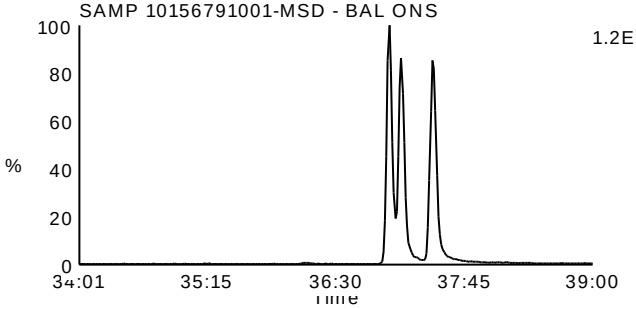
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B 13 G3 C9 - 401.8559
SAMP 10156791001-MSD - BAL ONS



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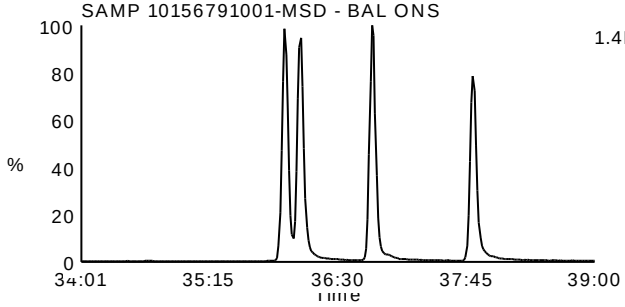
SAMP 10156791001-MSD - BAL ONS



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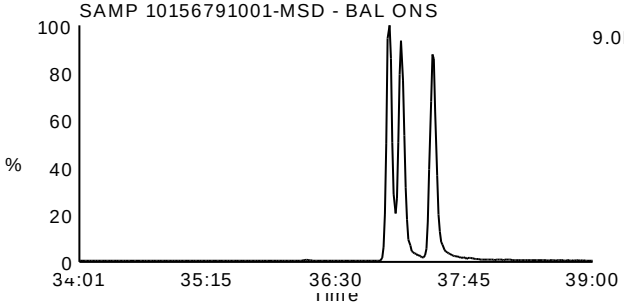
SAMP 10156791001-MSD - BAL ONS



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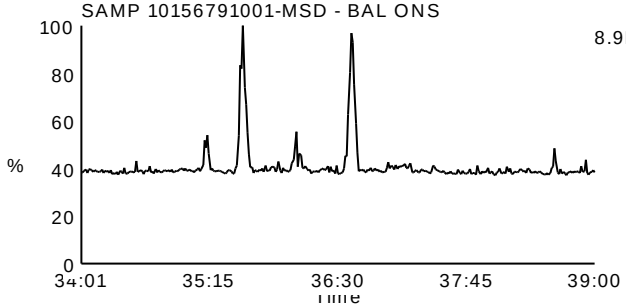
SAMP 10156791001-MSD - BAL ONS



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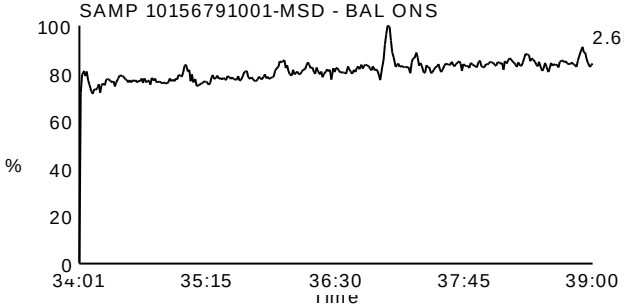
SAMP 10156791001-MSD - BAL ONS

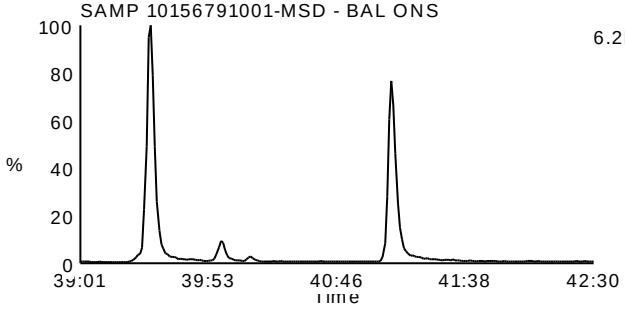


Homologue Group: Heptas

Data File Name: F110515B_13
Date Acquired: 5/16/2011
Sample Description: SAMP 10156791001-MSD - BAL ONS

Lab Sample ID: 10156791001-MSD
Client Sample ID: KCP4-SO-274-B-110506-MSD
Instrument: 10MSHR05 (F)

Data File: F110515B 13 G4 C3 - 407.7818
SAMP 10156791001-MSD - BAL ONS



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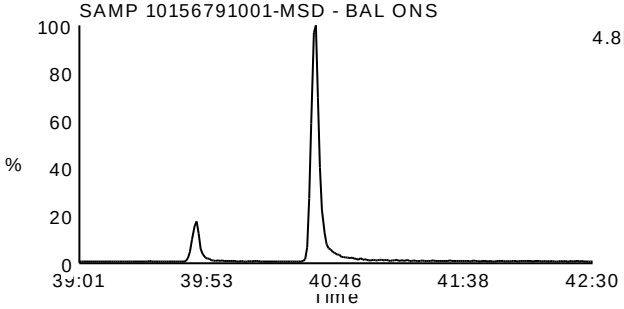
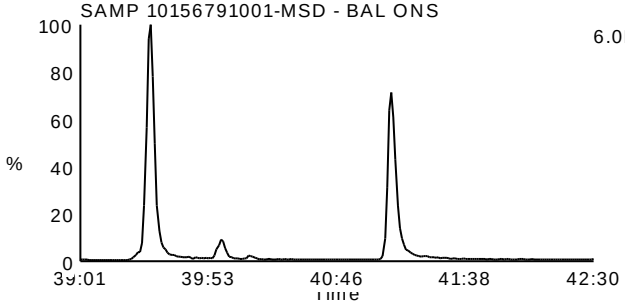
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B_13 G4 C4 - 409.7788
SAMP 10156791001-MSD - BAL ONS



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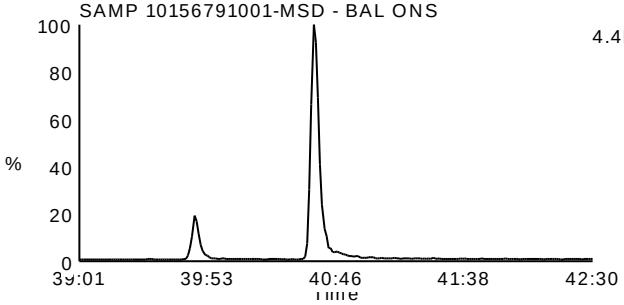
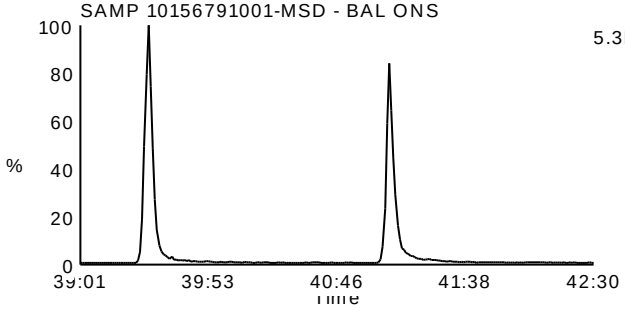
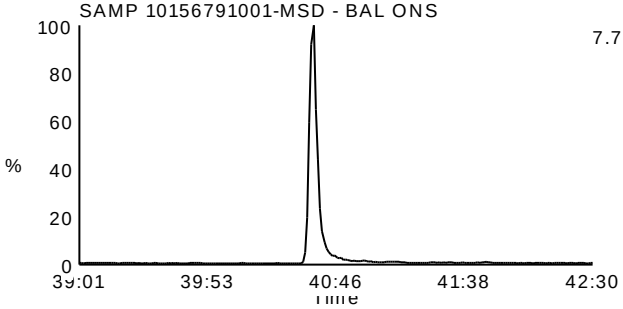
SAMP 10156791001-MSD - BAL ONS



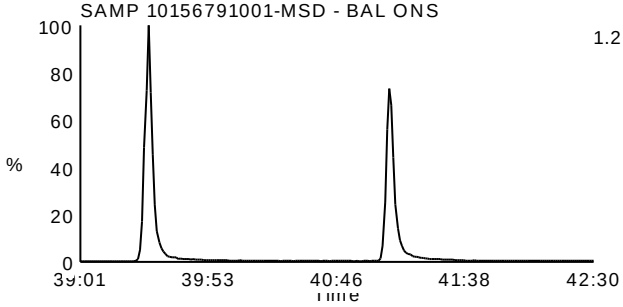
Data File: F110515B 13 G4 C6 - 417.825
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B 13 G4 C11 - 435.8169
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B_13 G4 C7 - 419.822
SAMP 10156791001-MSD - BAL ONS



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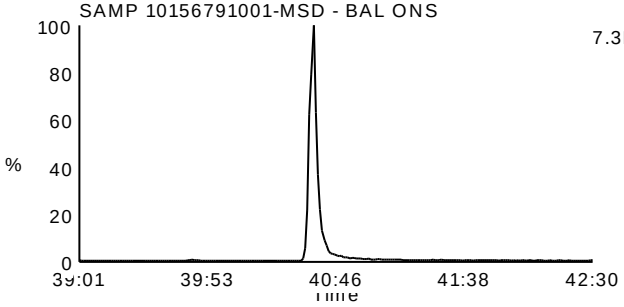
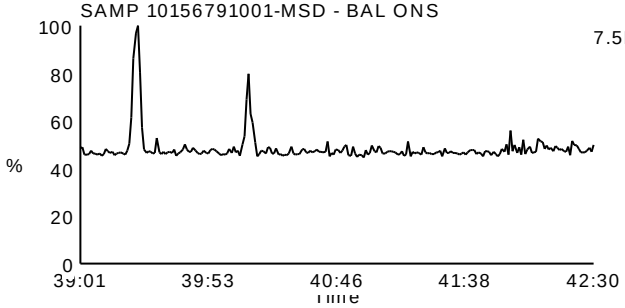
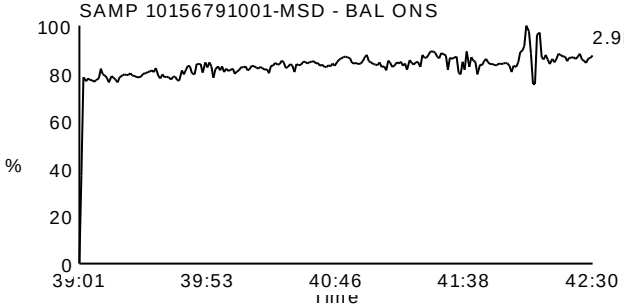
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B_13 G4 C13 - 479.7165
SAMP 10156791001-MSD - BAL ONS



Data File: F110515B_13 G4 C1 - 380.976
SAMP 10156791001-MSD - BAL ONS

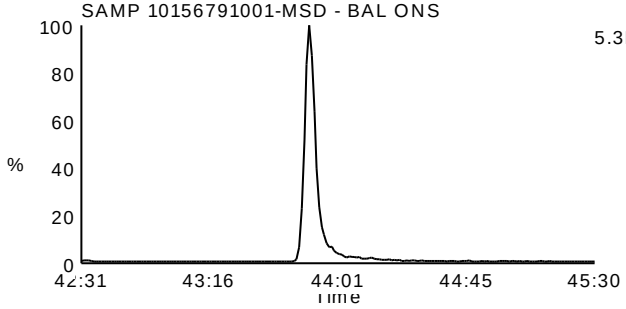


Homologue Group: Octas

Data File Name: F110515B_13
Date Acquired: 5/16/2011
Sample Description: SAMP 10156791001-MSD - BAL ONS

Lab Sample ID: 10156791001-MSD
Client Sample ID: KCP4-SO-274-B-110506-MSD
Instrument: 10MSHR05 (F)

Data File: F110515B 13 G5 C4 - 441.7428
SAMP 10156791001-MSD - BAL ONS
5.3E+6



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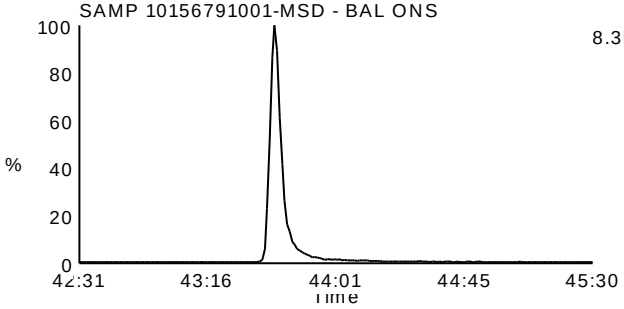
SAMP 10156791001-MSD - BAL ONS
8.3E+6



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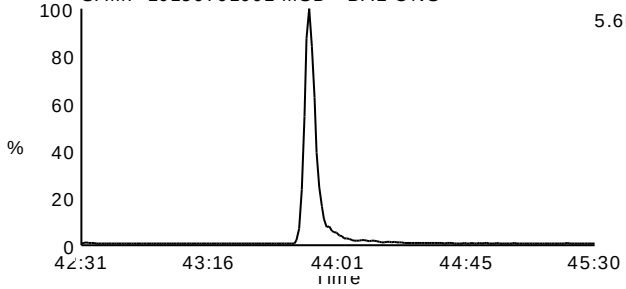
SAMP 10156791001-MSD - BAL ONS
5.6E+6



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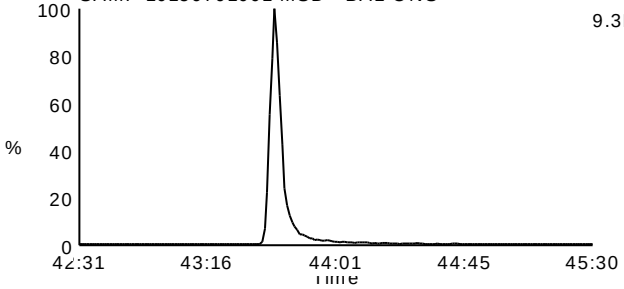
SAMP 10156791001-MSD - BAL ONS
9.3E+6



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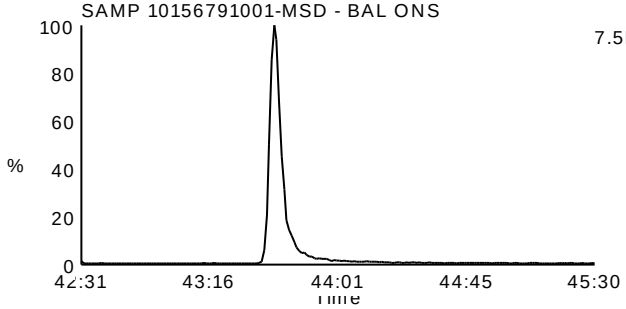
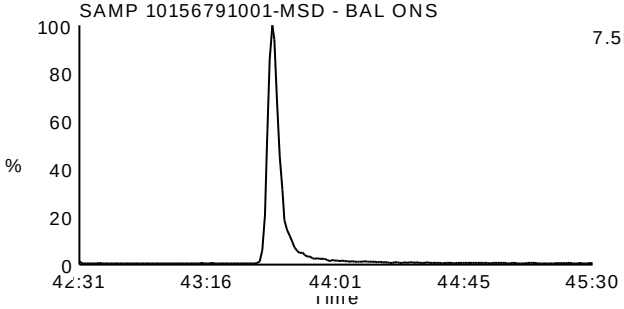
SAMP 10156791001-MSD - BAL ONS
7.5E+6



Data File: F110515B 13 G5 C11 - 469.7779
SAMP 10156791001-MSD - BAL ONS
7.5E+6



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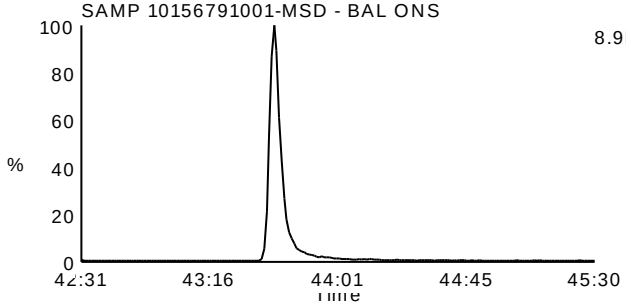
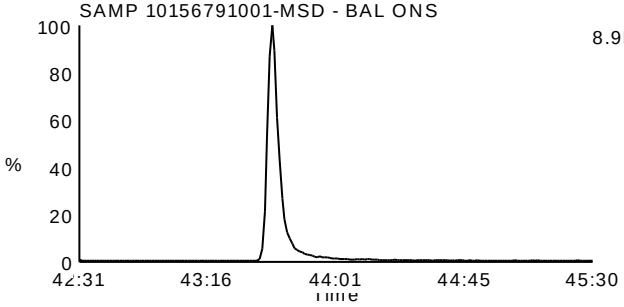
SAMP 10156791001-MSD - BAL ONS
8.9E+6



Data File: F110515B_13 G5 C12 - 471.7749
SAMP 10156791001-MSD - BAL ONS
8.9E+6



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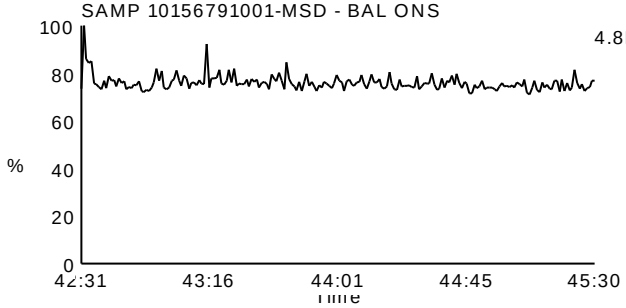
SAMP 10156791001-MSD - BAL ONS
4.8E+4



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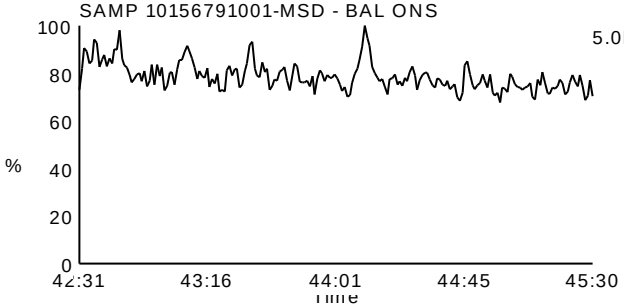
SAMP 10156791001-MSD - BAL ONS
5.0E+6



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client ID		Injected By	BAL
Lab ID	BLANK-28907	Instrument ID	10MSHR09 (P)
Filename	P110515A_08	GC Column ID	USA260032H
Analyzed	05/15/2011 18:25	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:01	3.20e7	3.99e7	5.35e6	6.67e6	6.369e3	8.147e3	0.80	
2,3,7,8-TCDF	26:03	ND	ND	ND	ND	1.303e3	1.514e3		
Ethers 1	27:44	2.16e4	3.02e4					0.72	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:16	2.59e7	3.26e7	4.79e6	5.98e6	5.867e3	2.639e3	0.79	
2,3,7,8-TCDD-13C	27:01	2.39e7	3.06e7	4.42e6	5.63e6	1.757e3	1.532e3	0.78	
2,3,7,8-TCDD-37Cl4	27:02	5.56e6		1.17e6		1.295e3	-----		
2,3,7,8-TCDD	27:02	ND	ND	ND	ND	1.256e3	1.626e3		

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:03	3.91e7	2.43e7	8.67e6	5.56e6	1.172e3	1.797e3	1.61	
2,3,4,7,8-PeCDF-13C	32:08	4.15e7	2.64e7	1.08e7	6.96e6	1.105e5	1.195e4	1.57	
1,2,3,7,8-PeCDF	31:04	ND	ND	ND	ND	1.144e3	1.546e3		
2,3,4,7,8-PeCDF	32:09	ND	ND	ND	ND	1.505e3	1.207e3		
Ethers 1	31:22	3.73e4	2.75e4					1.36	E

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:28	2.60e7	1.63e7	6.93e6	4.28e6	1.019e4	6.864e3	1.59	
1,2,3,7,8-PeCDD	32:28	ND	ND	ND	ND	1.529e3	1.320e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:12	1.59e7	2.99e7	4.86e6	8.74e6	5.598e2	1.334e3	0.53	
1,2,3,6,7,8-HxCDF-13C	35:19	1.88e7	3.49e7	5.03e6	9.68e6	1.178e3	1.899e3	0.54	
2,3,4,6,7,8-HxCDF-13C	35:54	1.75e7	3.33e7	5.04e6	9.32e6	1.832e3	2.163e3	0.53	
1,2,3,7,8,9-HxCDF-13C	36:44	1.51e7	2.86e7	4.20e6	8.00e6	7.069e3	1.263e4	0.53	
1,2,3,4,7,8-HxCDF	35:12	2.92e4	2.54e4	1.51e4	7.95e3	1.333e3	1.465e3	1.15	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client ID		Injected By	BAL
Lab ID	BLANK-28907	Instrument ID	10MSHR09 (P)
Filename	P110515A_08	GC Column ID	USA260032H
Analyzed	05/15/2011 18:25	ICAL ID	P110413

1,2,3,6,7,8-HxCDF		35:20	2.14e4	1.70e4	7.19e3	3.71e3	1.346e3	1.518e3	1.26	
2,3,4,6,7,8-HxCDF		35:54	1.61e4	1.51e4	4.74e3	3.98e3	1.848e3	1.291e3	1.06	
1,2,3,7,8,9-HxCDF		36:46	1.51e4	8.66e3	3.55e3	3.16e3	1.650e3	1.476e3	1.74	I
Other HxCDF	1	34:07	3.37e4	2.41e4					1.40	

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:04	2.07e7	1.63e7	6.42e6	5.03e6	3.461e4	3.024e4	1.26	
1,2,3,6,7,8-HxCDD-13C	36:10	2.38e7	1.86e7	6.51e6	5.06e6	1.106e4	3.024e4	1.28	
1,2,3,7,8,9-HxCDD-13C	36:25	2.62e7	2.08e7	7.12e6	5.64e6	1.907e3	1.087e3	1.26	
1,2,3,4,7,8-HxCDD	36:05	ND	ND	ND	ND	1.708e3	1.339e3		
1,2,3,6,7,8-HxCDD	36:11	ND	ND	ND	ND	1.471e3	1.113e3		
1,2,3,7,8,9-HxCDD	36:26	ND	ND	ND	ND	1.135e3	1.113e3		

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:10	1.07e7	2.38e7	3.27e6	7.10e6	8.128e3	8.195e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:38	7.80e6	1.71e7	2.38e6	5.12e6	2.748e3	1.020e4	0.46	
1,2,3,4,6,7,8-HpCDF	38:11	4.75e4	5.69e4	1.38e4	1.72e4	1.284e3	1.915e3	0.83	I
1,2,3,4,7,8,9-HpCDF	39:39	ND	ND	ND	ND	1.698e3	9.593e2		
Other HpCDF	1 38:28	2.74e4	2.29e4					1.20	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:10	1.44e7	1.35e7	4.18e6	3.74e6	1.636e3	3.058e3	1.07	
1,2,3,4,6,7,8-HpCDD	39:11	2.48e4	1.17e4	6.70e3	2.73e3	1.201e3	1.006e3	2.11	I

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	42:00	7.27e3	7.72e3	2.94e3	2.90e3	1.032e3	1.465e3	0.94	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:49	1.43e7	1.57e7	3.68e6	4.05e6	4.388e3	7.572e2	0.91	
OCDD	41:50	2.07e4	2.02e4	7.00e3	7.19e3	1.069e3	1.070e3	1.02	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client ID		Injected By	BAL
Lab ID	BLANK-28907	Instrument ID	10MSHR09 (P)
Filename	P110515A_08	GC Column ID	USA260032H
Analyzed	05/15/2011 18:25	ICAL ID	P110413

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client ID		Injected By	BAL
Lab ID	LCS-28908	Instrument ID	10MSHR09 (P)
Filename	P110515A_01	GC Column ID	USA260032H
Analyzed	05/15/2011 13:02	ICAL ID	P110413

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	26:05	2.43e7	3.02e7	4.22e6	5.41e6	-----	-----	0.80	
2,3,7,8-TCDF	26:07	2.29e6	3.21e6	4.03e5	5.49e5	-----	-----	0.71	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	26:20	2.07e7	2.58e7	3.72e6	4.65e6	-----	-----	0.80	
2,3,7,8-TCDD-13C	27:03	1.77e7	2.22e7	3.30e6	4.21e6	-----	-----	0.80	
2,3,7,8-TCDD-37Cl4	27:04	4.30e6		8.26e5		-----	-----		
2,3,7,8-TCDD	27:05	1.78e6	2.31e6	3.46e5	4.57e5	-----	-----	0.77	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:06	2.56e7	1.60e7	5.55e6	3.51e6	-----	-----	1.60	
2,3,4,7,8-PeCDF-13C	32:09	3.13e7	1.95e7	8.28e6	5.21e6	-----	-----	1.60	
1,2,3,7,8-PeCDF	31:07	1.28e7	8.30e6	2.83e6	1.83e6	-----	-----	1.54	
2,3,4,7,8-PeCDF	32:10	1.59e7	1.03e7	4.14e6	2.73e6	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:29	1.69e7	1.06e7	4.55e6	2.89e6	-----	-----	1.59	
1,2,3,7,8-PeCDD	32:31	5.13e6	8.14e6	1.39e6	2.12e6	-----	-----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:13	1.03e7	1.93e7	3.17e6	5.91e6	-----	-----	0.54	
1,2,3,6,7,8-HxCDF-13C	35:20	1.17e7	2.20e7	3.14e6	5.88e6	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	35:55	1.12e7	2.15e7	3.28e6	6.08e6	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	36:45	9.38e6	1.76e7	2.58e6	4.78e6	-----	-----	0.53	
1,2,3,4,7,8-HxCDF	35:14	9.56e6	7.52e6	2.85e6	2.32e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDF	35:21	1.09e7	8.95e6	3.12e6	2.37e6	-----	-----	1.21	
2,3,4,6,7,8-HxCDF	35:56	1.01e7	8.31e6	3.01e6	2.39e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDF	36:46	8.33e6	6.61e6	2.32e6	1.86e6	-----	-----	1.26	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client ID		Injected By	BAL
Lab ID	LCS-28908	Instrument ID	10MSHR09 (P)
Filename	P110515A_01	GC Column ID	USA260032H
Analyzed	05/15/2011 13:02	ICAL ID	P110413

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	36:05	1.31e7	1.06e7	4.10e6	3.37e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD-13C	36:10	1.51e7	1.18e7	4.07e6	3.14e6	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	36:26	1.61e7	1.29e7	4.35e6	3.39e6	-----	-----	1.25	
1,2,3,4,7,8-HxCDD	36:05	6.59e6	5.24e6	2.02e6	1.66e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD	36:11	7.22e6	5.94e6	1.89e6	1.69e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	36:27	6.87e6	5.46e6	1.79e6	1.45e6	-----	-----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	38:11	7.26e6	1.60e7	2.16e6	4.89e6	-----	-----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	39:39	5.51e6	1.24e7	1.66e6	3.67e6	-----	-----	0.44	
1,2,3,4,6,7,8-HpCDF	38:12	8.43e6	8.14e6	2.56e6	2.42e6	-----	-----	1.04	
1,2,3,4,7,8,9-HpCDF	39:40	6.20e6	5.90e6	1.82e6	1.71e6	-----	-----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	39:11	1.01e7	9.32e6	2.94e6	2.61e6	-----	-----	1.09	
1,2,3,4,6,7,8-HpCDD	39:11	4.97e6	4.82e6	1.45e6	1.39e6	-----	-----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	42:01	7.39e6	7.90e6	1.82e6	1.99e6	-----	-----	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	41:51	1.10e7	1.16e7	2.74e6	2.90e6	-----	-----	0.95	
OCDD	41:51	5.75e6	6.63e6	1.56e6	1.76e6	-----	-----	0.87	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	KCP4-SO-274-B-110506-MS	Injected By	BAL
Lab ID	10156791001-MS	Instrument ID	10MSHR05 (F)
Filename	F110515B_12	GC Column ID	USA209122H
Analyzed	05/15/2011 23:13	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:29	6.42e7	8.15e7	8.85e6	1.15e7	-----	-----	0.79	
2,3,7,8-TCDF	23:30	6.27e6	8.04e6	8.97e5	1.10e6	-----	-----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:45	5.54e7	6.98e7	7.21e6	9.38e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	24:44	5.09e7	6.42e7	7.04e6	8.62e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	24:46	1.22e7		1.60e6		-----	-----		
2,3,7,8-TCDD	24:47	4.63e6	6.11e6	6.02e5	8.04e5	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:45	6.95e7	4.40e7	1.24e7	7.86e6	-----	-----	1.58	
2,3,4,7,8-PeCDF-13C	32:10	7.04e7	4.52e7	1.31e7	8.38e6	-----	-----	1.56	
1,2,3,7,8-PeCDF	30:47	3.51e7	2.26e7	5.88e6	3.81e6	-----	-----	1.55	
2,3,4,7,8-PeCDF	32:12	3.56e7	2.30e7	6.74e6	4.29e6	-----	-----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:36	5.15e7	3.32e7	9.45e6	6.20e6	-----	-----	1.55	
1,2,3,7,8-PeCDD	32:37	1.48e7	2.39e7	2.76e6	4.58e6	-----	-----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:60	3.33e7	6.30e7	7.62e6	1.43e7	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	36:08	3.63e7	6.91e7	7.65e6	1.49e7	-----	-----	0.53	
2,3,4,6,7,8-HxCDF-13C	36:51	3.57e7	6.69e7	7.99e6	1.50e7	-----	-----	0.53	
1,2,3,7,8,9-HxCDF-13C	37:50	3.11e7	5.72e7	6.28e6	1.21e7	-----	-----	0.54	
1,2,3,4,7,8-HxCDF	36:01	2.99e7	2.43e7	6.96e6	5.61e6	-----	-----	1.23	
1,2,3,6,7,8-HxCDF	36:09	3.38e7	2.73e7	6.94e6	5.79e6	-----	-----	1.24	
2,3,4,6,7,8-HxCDF	36:52	3.24e7	2.63e7	7.70e6	6.10e6	-----	-----	1.24	
1,2,3,7,8,9-HxCDF	37:50	2.72e7	2.19e7	5.86e6	4.61e6	-----	-----	1.24	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID	KCP4-SO-274-B-110506-MS	Injected By	BAL
Lab ID	10156791001-MS	Instrument ID	10MSHR05 (F)
Filename	F110515B_12	GC Column ID	USA209122H
Analyzed	05/15/2011 23:13	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:01	5.24e7	4.14e7	1.30e7	10.00e6	-----	-----	1.27	
1,2,3,6,7,8-HxCDD-13C	37:08	4.86e7	3.80e7	1.07e7	8.48e6	-----	-----	1.28	
1,2,3,7,8,9-HxCDD-13C	37:27	5.50e7	4.52e7	1.17e7	9.31e6	-----	-----	1.22	
1,2,3,4,7,8-HxCDD	37:02	2.48e7	2.00e7	5.93e6	4.60e6	-----	-----	1.24	
1,2,3,6,7,8-HxCDD	37:10	2.35e7	1.86e7	5.30e6	4.34e6	-----	-----	1.26	
1,2,3,7,8,9-HxCDD	37:28	2.36e7	1.92e7	5.17e6	4.16e6	-----	-----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:28	2.48e7	5.84e7	5.77e6	1.40e7	-----	-----	0.42	
1,2,3,4,7,8,9-HpCDF-13C	41:07	2.04e7	4.28e7	4.80e6	9.37e6	-----	-----	0.48	
1,2,3,4,6,7,8-HpCDF	39:29	3.17e7	3.02e7	7.56e6	6.75e6	-----	-----	1.05	
1,2,3,4,7,8,9-HpCDF	41:08	2.16e7	2.21e7	4.95e6	4.79e6	-----	-----	0.98	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:37	3.53e7	3.22e7	7.77e6	7.49e6	-----	-----	1.10	
1,2,3,4,6,7,8-HpCDD	40:37	2.46e7	2.36e7	6.02e6	5.52e6	-----	-----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:52	3.17e7	3.44e7	6.51e6	6.96e6	-----	-----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:40	5.25e7	5.45e7	1.14e7	1.14e7	-----	-----	0.96	
OCDD	43:40	6.05e7	6.92e7	1.23e7	1.43e7	-----	-----	0.87	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

PCDD/PCDF Detected Peak List

Prepared By _____ Date _____

Reviewed By _____ Date _____

Client Name	Onsite Environmental, Inc.		
Client ID	KCP4-SO-274-B-110506-MSD	Injected By	BAL
Lab ID	10156791001-MSD	Instrument ID	10MSHR05 (F)
Filename	F110515B_13	GC Column ID	USA209122H
Analyzed	05/16/2011 00:01	ICAL ID	F110501

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:29	5.63e7	7.19e7	7.77e6	9.92e6	-----	-----	0.78	
2,3,7,8-TCDF	23:31	5.73e6	7.13e6	7.76e5	9.90e5	-----	-----	0.80	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:45	4.68e7	5.91e7	6.41e6	8.42e6	-----	-----	0.79	
2,3,7,8-TCDD-13C	24:44	4.40e7	5.57e7	5.38e6	6.79e6	-----	-----	0.79	
2,3,7,8-TCDD-37Cl4	24:47	1.05e7		1.35e6		-----	-----		
2,3,7,8-TCDD	24:47	4.09e6	5.36e6	4.90e5	6.49e5	-----	-----	0.76	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:45	6.22e7	3.97e7	1.04e7	6.80e6	-----	-----	1.57	
2,3,4,7,8-PeCDF-13C	32:11	6.32e7	3.99e7	1.19e7	7.70e6	-----	-----	1.58	
1,2,3,7,8-PeCDF	30:48	3.10e7	1.95e7	5.29e6	3.32e6	-----	-----	1.59	
2,3,4,7,8-PeCDF	32:12	3.12e7	1.99e7	6.07e6	3.91e6	-----	-----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:37	4.59e7	2.96e7	8.79e6	5.89e6	-----	-----	1.55	
1,2,3,7,8-PeCDD	32:38	1.29e7	2.11e7	2.61e6	4.12e6	-----	-----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	35:60	2.98e7	5.65e7	7.00e6	1.35e7	-----	-----	0.53	
1,2,3,6,7,8-HxCDF-13C	36:09	3.23e7	6.17e7	6.83e6	1.30e7	-----	-----	0.52	
2,3,4,6,7,8-HxCDF-13C	36:51	3.15e7	6.06e7	7.08e6	1.37e7	-----	-----	0.52	
1,2,3,7,8,9-HxCDF-13C	37:50	2.70e7	5.29e7	5.67e6	1.08e7	-----	-----	0.51	
1,2,3,4,7,8-HxCDF	36:01	2.66e7	2.11e7	6.00e6	4.80e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDF	36:10	2.95e7	2.40e7	6.12e6	4.89e6	-----	-----	1.23	
2,3,4,6,7,8-HxCDF	36:52	2.86e7	2.35e7	6.44e6	5.31e6	-----	-----	1.21	
1,2,3,7,8,9-HxCDF	37:50	2.40e7	1.87e7	5.06e6	4.01e6	-----	-----	1.28	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Client Name	Onsite Environmental, Inc.		
Client ID	KCP4-SO-274-B-110506-MSD	Injected By	BAL
Lab ID	10156791001-MSD	Instrument ID	10MSHR05 (F)
Filename	F110515B_13	GC Column ID	USA209122H
Analyzed	05/16/2011 00:01	ICAL ID	F110501

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:02	4.36e7	3.47e7	1.19e7	9.00e6	-----	-----	1.26	
1,2,3,6,7,8-HxCDD-13C	37:09	4.52e7	3.71e7	1.02e7	8.40e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD-13C	37:27	4.79e7	3.76e7	1.01e7	7.89e6	-----	-----	1.28	
1,2,3,4,7,8-HxCDD	37:03	2.10e7	1.72e7	5.24e6	4.40e6	-----	-----	1.22	
1,2,3,6,7,8-HxCDD	37:10	2.14e7	1.76e7	4.74e6	3.73e6	-----	-----	1.22	
1,2,3,7,8,9-HxCDD	37:29	1.99e7	1.57e7	4.31e6	3.49e6	-----	-----	1.27	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:29	2.06e7	4.75e7	5.26e6	1.25e7	-----	-----	0.43	
1,2,3,4,7,8,9-HpCDF-13C	41:07	1.70e7	3.97e7	4.42e6	9.14e6	-----	-----	0.43	
1,2,3,4,6,7,8-HpCDF	39:30	2.59e7	2.54e7	6.19e6	5.97e6	-----	-----	1.02	
1,2,3,4,7,8,9-HpCDF	41:08	2.00e7	1.82e7	4.73e6	4.24e6	-----	-----	1.10	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:37	3.09e7	2.81e7	7.65e6	7.31e6	-----	-----	1.10	
1,2,3,4,6,7,8-HpCDD	40:38	1.98e7	1.78e7	4.73e6	4.35e6	-----	-----	1.11	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:51	2.52e7	2.69e7	5.21e6	5.57e6	-----	-----	0.94	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:39	3.90e7	4.40e7	7.50e6	8.82e6	-----	-----	0.89	
OCDD	43:40	3.98e7	4.47e7	8.26e6	9.28e6	-----	-----	0.89	

REPORT OF LABORATORY ANALYSIS

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 17, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1105-081

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on May 10, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

Case Narrative

Samples were collected on May 10, 2011 and received by the laboratory on May 10, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

NWTPH-HCID

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-288-BC1-110510**					
Laboratory ID:	05-081-01					
Gasoline Range Organics	**ND**	20	NWTPH-HCID	5-11-11	5-11-11	
Diesel Range Organics	**ND**	51	NWTPH-HCID	5-11-11	5-11-11	
Lube Oil Range Organics	**ND**	100	NWTPH-HCID	5-11-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*121*	*50-150*				
Client ID:	**KCP4-SO-294-BC2-110510**					
Laboratory ID:	05-081-07					
Gasoline Range Organics	**ND**	21	NWTPH-HCID	5-11-11	5-11-11	
Diesel Range Organics	**ND**	51	NWTPH-HCID	5-11-11	5-11-11	
Lube Oil Range Organics	**ND**	100	NWTPH-HCID	5-11-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*121*	*50-150*				
Client ID:	**KCP4-SO-300-BC3-110510**					
Laboratory ID:	05-081-13					
Gasoline Range Organics	**ND**	21	NWTPH-HCID	5-11-11	5-11-11	
Diesel Range Organics	**ND**	73	NWTPH-HCID	5-11-11	5-11-11	U1
Lube Oil	**Detected**	100	NWTPH-HCID	5-11-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*129*	*50-150*				
Client ID:	**KCP4-SO-304-BC4-110510**					
Laboratory ID:	05-081-17					
Gasoline Range Organics	**ND**	21	NWTPH-HCID	5-11-11	5-11-11	
Diesel Range Organics	**ND**	53	NWTPH-HCID	5-11-11	5-11-11	
Lube Oil Range Organics	**ND**	110	NWTPH-HCID	5-11-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*123*	*50-150*				

Date of Report: May 17, 2011
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NWTPH-HCID
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511S1					
Gasoline Range Organics	**ND**	20	NWTPH-HCID	5-11-11	5-11-11	
Diesel Range Organics	**ND**	50	NWTPH-HCID	5-11-11	5-11-11	
Lube Oil Range Organics	**ND**	100	NWTPH-HCID	5-11-11	5-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*118*	*50-150*				

Date of Report: May 17, 2011
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NWTPH-HCID
STANDARDS RESPONSE SUMMARY

GASOLINE RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0511F-V1	17027349	10 ppm

DIESEL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
CCV0511F-V2	252516032	100 ppm
CCV0511F-V3	249810783	100 ppm
CCV0511F-V4	263034663	100 ppm

HEAVY OIL RANGE HYDROCARBONS

Lab ID	Instrument Response	True Value
SPC0511F-V1	121678401	50 ppm

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-081-01					
Client ID:	**KCP4-SO-288-BC1-110510**					
Antimony	**ND**	5.1	6010B	5-10-11	5-10-11	
Arsenic	**13**	10	6010B	5-10-11	5-10-11	
Chromium	**60**	0.51	6010B	5-10-11	5-10-11	
Copper	**93**	1.0	6010B	5-10-11	5-10-11	
Lead	**28**	5.1	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.26	7471A	5-11-11	5-11-11	
Nickel	**45**	2.6	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.6	6020	5-10-11	5-11-11	
Zinc	**190**	2.6	6010B	5-10-11	5-10-11	
Lab ID:	05-081-07					
Client ID:	**KCP4-SO-294-BC2-110510**					
Antimony	**7.5**	5.1	6010B	5-10-11	5-10-11	
Arsenic	**31**	10	6010B	5-10-11	5-10-11	
Chromium	**69**	0.51	6010B	5-10-11	5-10-11	
Copper	**140**	1.0	6010B	5-10-11	5-10-11	
Lead	**31**	5.1	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.26	7471A	5-11-11	5-11-11	
Nickel	**130**	2.6	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.6	6020	5-10-11	5-11-11	
Zinc	**420**	2.6	6010B	5-10-11	5-10-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-081-13					
Client ID:	**KCP4-SO-300-BC3-110510**					
Antimony	**9.9**	5.1	6010B	5-10-11	5-10-11	
Arsenic	**45**	10	6010B	5-10-11	5-10-11	
Chromium	**92**	0.51	6010B	5-10-11	5-10-11	
Copper	**270**	1.0	6010B	5-10-11	5-10-11	
Lead	**260**	5.1	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.26	7471A	5-11-11	5-11-11	
Nickel	**100**	2.6	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.6	6020	5-10-11	5-11-11	
Zinc	**580**	2.6	6010B	5-10-11	5-10-11	
Lab ID:	05-081-17					
Client ID:	**KCP4-SO-304-BC4-110510**					
Antimony	**ND**	5.3	6010B	5-10-11	5-10-11	
Arsenic	**28**	11	6010B	5-10-11	5-10-11	
Chromium	**49**	0.53	6010B	5-10-11	5-10-11	
Copper	**500**	1.1	6010B	5-10-11	5-10-11	
Lead	**51**	5.3	6010B	5-10-11	5-10-11	
Mercury	**ND**	0.26	7471A	5-11-11	5-11-11	
Nickel	**48**	2.6	6010B	5-10-11	5-10-11	
Thallium	**ND**	2.6	6020	5-10-11	5-11-11	
Zinc	**660**	2.6	6010B	5-10-11	5-10-11	

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-10-11
Date Analyzed:	5-10-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0510S1

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL MERCURY
EPA 7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-11-11
Date Analyzed:	5-11-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0511S1

Analyte	Method	Result	PQL
Mercury	7471A	**ND**	0.25

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020
DUPLICATE QUALITY CONTROL

Date Extracted: 5-10-11
Date Analyzed: 5-10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-065-32

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**21.5**	**25.3**	16	0.50	
Copper	**29.1**	**35.4**	20	1.0	
Lead	**9.25**	**14.1**	41	5.0	C
Nickel	**37.8**	**38.7**	2	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**54.9**	**62.9**	14	2.5	

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL MERCURY
EPA 7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-11-11
Date Analyzed: 5-11-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-081-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	**ND**	**ND**	NA	0.25	

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020
MS/MSD QUALITY CONTROL

Date Extracted: 5-10-11
Date Analyzed: 5-10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-065-32

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**93.9**	94	**93.3**	93	1	
Arsenic	100	**107**	107	**104**	104	3	
Chromium	100	**123**	101	**119**	97	4	
Copper	50.0	**83.4**	109	**76.9**	96	8	
Lead	250	**244**	94	**237**	91	3	
Nickel	100	**135**	97	**128**	91	5	
Thallium	50.0	**50.4**	101	**51.0**	102	1	
Zinc	100	**157**	102	**145**	90	8	

Date of Report: May 17, 2011
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TOTAL MERCURY
EPA 7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-11-11
Date Analyzed: 5-11-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-081-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	**0.481**	96	**0.500**	100	4	

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Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-10-11
Date Analyzed: 5-10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0510S1

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**95.2**	95
Arsenic	6010B	100	**102**	102
Chromium	6010B	100	**106**	106
Copper	6010B	50.0	**54.5**	109
Lead	6010B	250	**251**	100
Nickel	6010B	100	**106**	106
Thallium	6020	50.0	**52.8**	106
Zinc	6010B	100	**104**	104

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL MERCURY
EPA 7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-11-11
Date Analyzed: 5-11-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0511S1

Analyte	Method	Spike Level	SB	Percent Recovery
Mercury	7471A	0.500	**0.486**	97

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Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV051011P	1.00	0.989	1.1	+/- 10%
Arsenic	ICV051011P	1.00	1.03	-3.0	+/- 10%
Chromium	ICV051011P	1.00	1.06	-6.0	+/- 10%
Copper	ICV051011P	1.00	1.04	-4.0	+/- 10%
Lead	ICV051011P	1.00	1.05	-5.0	+/- 10%
Mercury	ICV051111Y	0.00500	0.00498	0.40	+/- 10%
Nickel	ICV051011P	1.00	1.08	-8.0	+/- 10%
Thallium	ICV051011E	0.0500	0.0513	-2.6	+/- 10%
Zinc	ICV051011P	1.00	0.983	1.7	+/- 10%
Antimony	CCV1051011P	1.00	1.00	0	+/- 10%
Arsenic	CCV1051011P	1.00	1.00	0	+/- 10%
Chromium	CCV1051011P	1.00	1.03	-3.0	+/- 10%
Copper	CCV1051011P	1.00	1.05	-5.0	+/- 10%
Lead	CCV1051011P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV1051111Y	0.00500	0.00522	-4.4	+/- 20%
Nickel	CCV1051011P	1.00	1.04	-4.0	+/- 10%
Thallium	CCV1051011E	0.0400	0.0409	-2.3	+/- 10%
Zinc	CCV1051011P	1.00	0.995	0.50	+/- 10%
Antimony	CCV2051011P	1.00	1.02	-2.0	+/- 10%
Arsenic	CCV2051011P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV2051011P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2051011P	1.00	1.06	-6.0	+/- 10%
Lead	CCV2051011P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV2051111Y	0.00500	0.00512	-2.4	+/- 20%
Nickel	CCV2051011P	1.00	1.05	-5.0	+/- 10%
Thallium	CCV2051011E	0.0400	0.0405	-1.3	+/- 10%
Zinc	CCV2051011P	1.00	0.998	0.20	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3051011P	1.00	1.06	-6.0	+/- 10%
Arsenic	CCV3051011P	1.00	1.00	0	+/- 10%
Chromium	CCV3051011P	1.00	1.05	-5.0	+/- 10%
Copper	CCV3051011P	1.00	1.07	-7.0	+/- 10%
Lead	CCV3051011P	10.0	10.6	-6.0	+/- 10%
Mercury	CCV3051111Y	0.00500	0.00509	-1.8	+/- 20%
Nickel	CCV3051011P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV3051011E	0.0400	0.0410	-2.5	+/- 10%
Zinc	CCV3051011P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV4051011P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV4051011P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV4051011P	1.00	1.05	-5.0	+/- 10%
Copper	CCV4051011P	1.00	1.06	-6.0	+/- 10%
Lead	CCV4051011P	10.0	10.6	-6.0	+/- 10%
Nickel	CCV4051011P	1.00	1.06	-6.0	+/- 10%
Thallium	CCV4051011E	0.0400	0.0405	-1.3	+/- 10%
Zinc	CCV4051011P	1.00	1.01	-1.0	+/- 10%
Antimony	CCV5051011P	1.00	0.994	0.60	+/- 10%
Arsenic	CCV5051011P	1.00	1.00	0	+/- 10%
Chromium	CCV5051011P	1.00	1.05	-5.0	+/- 10%
Copper	CCV5051011P	1.00	1.04	-4.0	+/- 10%
Lead	CCV5051011P	10.0	10.4	-4.0	+/- 10%
Nickel	CCV5051011P	1.00	1.04	-4.0	+/- 10%
Thallium	CCV5051011E	0.0400	0.0413	-3.3	+/- 10%
Zinc	CCV5051011P	1.00	1.00	0	+/- 10%

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-081-08					
Client ID:	**KCP4-SO-295-BC2A-110510**					
Antimony	**ND**	5.1	6010B	5-17-11	5-17-11	
Arsenic	**15**	10	6010B	5-17-11	5-17-11	
Chromium	**43**	0.51	6010B	5-17-11	5-17-11	
Copper	**89**	1.0	6010B	5-17-11	5-17-11	
Lead	**15**	5.1	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.26	7471A	5-17-11	5-17-11	
Nickel	**46**	2.6	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.6	6020	5-17-11	5-17-11	
Zinc	**170**	2.6	6010B	5-17-11	5-17-11	
Lab ID:	05-081-09					
Client ID:	**KCP4-SO-296-BC2B-110510**					
Antimony	**ND**	5.1	6010B	5-17-11	5-17-11	
Arsenic	**17**	10	6010B	5-17-11	5-17-11	
Chromium	**55**	0.51	6010B	5-17-11	5-17-11	
Copper	**110**	1.0	6010B	5-17-11	5-17-11	
Lead	**18**	5.1	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.25	7471A	5-17-11	5-17-11	
Nickel	**60**	2.5	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.5	6020	5-17-11	5-17-11	
Zinc	**290**	2.5	6010B	5-17-11	5-17-11	

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-081-10					
Client ID:	**KCP4-SO-297-BC2C-110510**					
Antimony	**7.5**	5.2	6010B	5-17-11	5-17-11	
Arsenic	**32**	10	6010B	5-17-11	5-17-11	
Chromium	**70**	0.52	6010B	5-17-11	5-17-11	
Copper	**160**	1.0	6010B	5-17-11	5-17-11	
Lead	**32**	5.2	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.26	7471A	5-17-11	5-17-11	
Nickel	**61**	2.6	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.6	6020	5-17-11	5-17-11	
Zinc	**480**	2.6	6010B	5-17-11	5-17-11	
Lab ID:	05-081-11					
Client ID:	**KCP4-SO-298-BC2D-110510**					
Antimony	**11**	5.1	6010B	5-17-11	5-17-11	
Arsenic	**31**	10	6010B	5-17-11	5-17-11	
Chromium	**72**	0.51	6010B	5-17-11	5-17-11	
Copper	**110**	1.0	6010B	5-17-11	5-17-11	
Lead	**31**	5.1	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.26	7471A	5-17-11	5-17-11	
Nickel	**44**	2.6	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.6	6020	5-17-11	5-17-11	
Zinc	**270**	2.6	6010B	5-17-11	5-17-11	

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Samples Submitted: May 10, 2011
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-081-12					
Client ID:	**KCP4-SO-299-BC2E-110510**					
Antimony	**7.4**	5.1	6010B	5-17-11	5-17-11	
Arsenic	**26**	10	6010B	5-17-11	5-17-11	
Chromium	**57**	0.51	6010B	5-17-11	5-17-11	
Copper	**110**	1.0	6010B	5-17-11	5-17-11	
Lead	**23**	5.1	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.26	7471A	5-17-11	5-17-11	
Nickel	**64**	2.6	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.6	6020	5-17-11	5-17-11	
Zinc	**310**	2.6	6010B	5-17-11	5-17-11	
Lab ID:	05-081-18					
Client ID:	**KCP4-SO-305-BC4A-110510**					
Antimony	**9.3**	5.4	6010B	5-17-11	5-17-11	
Arsenic	**26**	11	6010B	5-17-11	5-17-11	
Chromium	**57**	0.54	6010B	5-17-11	5-17-11	
Copper	**1400**	5.4	6010B	5-17-11	5-17-11	
Lead	**110**	5.4	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.27	7471A	5-17-11	5-17-11	
Nickel	**51**	2.7	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.7	6020	5-17-11	5-17-11	
Zinc	**1200**	13	6010B	5-17-11	5-17-11	

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-081-19					
Client ID:	**KCP4-SO-306-BC4B-110510**					
Antimony	**8.8**	5.3	6010B	5-17-11	5-17-11	
Arsenic	**36**	11	6010B	5-17-11	5-17-11	
Chromium	**61**	0.53	6010B	5-17-11	5-17-11	
Copper	**230**	1.1	6010B	5-17-11	5-17-11	
Lead	**48**	5.3	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.26	7471A	5-17-11	5-17-11	
Nickel	**63**	2.6	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.6	6020	5-17-11	5-17-11	
Zinc	**600**	2.6	6010B	5-17-11	5-17-11	
Lab ID:	05-081-20					
Client ID:	**KCP4-SO-307-BC4C-110510**					
Antimony	**8.1**	5.3	6010B	5-17-11	5-17-11	
Arsenic	**31**	11	6010B	5-17-11	5-17-11	
Chromium	**58**	0.53	6010B	5-17-11	5-17-11	
Copper	**140**	1.1	6010B	5-17-11	5-17-11	
Lead	**49**	5.3	6010B	5-17-11	5-17-11	
Mercury	**ND**	0.26	7471A	5-17-11	5-17-11	
Nickel	**60**	2.6	6010B	5-17-11	5-17-11	
Thallium	**ND**	2.6	6020	5-17-11	5-17-11	
Zinc	**440**	2.6	6010B	5-17-11	5-17-11	

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-17-11
Date Analyzed:	5-17-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0517S1&MB0517S2&MB0517S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-17-11
Date Analyzed: 5-17-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-081-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**14.8**	**11.1**	28	10	C
Chromium	**42.3**	**39.4**	7	0.50	
Copper	**86.7**	**73.0**	17	1.0	
Lead	**14.5**	**14.5**	0	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**45.1**	**40.4**	11	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**165**	**145**	13	2.5	

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-17-11
Date Analyzed: 5-17-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-081-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**88.8**	89	**90.8**	91	2	
Arsenic	100	**111**	96	**110**	95	1	
Chromium	100	**139**	97	**138**	95	1	
Copper	50.0	**138**	103	**141**	108	2	
Lead	250	**233**	88	**230**	86	2	
Mercury	0.500	**0.488**	98	**0.491**	98	1	
Nickel	100	**136**	91	**136**	90	0	
Thallium	50.0	**50.2**	100	**54.4**	109	8	
Zinc	100	**267**	102	**267**	102	0	

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 5-17-11
Date Analyzed: 5-17-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0517S1&SB0517S2&SB0517S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**98.1**	98
Arsenic	6010B	100	**101**	101
Chromium	6010B	100	**106**	106
Copper	6010B	50.0	**54.7**	109
Lead	6010B	250	**248**	99
Mercury	7471A	0.500	**0.475**	95
Nickel	6010B	100	**106**	106
Thallium	6020	50.0	**52.8**	106
Zinc	6010B	100	**106**	106

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV051711P	1.00	0.953	4.7	+/- 10%
Arsenic	ICV051711P	1.00	0.987	1.3	+/- 10%
Chromium	ICV051711P	1.00	1.03	-3.0	+/- 10%
Copper	ICV051711P	1.00	1.00	0.40	+/- 10%
Lead	ICV051711P	1.00	1.09	-9.0	+/- 10%
Mercury	ICV051711Y	0.00500	0.00483	3.4	+/- 10%
Nickel	ICV051711P	1.00	1.05	-5.0	+/- 10%
Thallium	ICV051711E	0.0500	0.0488	2.4	+/- 10%
Zinc	ICV051711P	1.00	0.980	2.0	+/- 10%
Antimony	CCV1051711P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV1051711P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV1051711P	1.00	1.06	-6.0	+/- 10%
Copper	CCV1051711P	1.00	1.05	-5.0	+/- 10%
Lead	CCV1051711P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV1051711Y	0.00500	0.00475	5.0	+/- 20%
Nickel	CCV1051711P	1.00	1.06	-6.0	+/- 10%
Thallium	CCV1051711E	0.0400	0.0404	-1.0	+/- 10%
Zinc	CCV1051711P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV2051711P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV2051711P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV2051711P	1.00	1.08	-8.0	+/- 10%
Copper	CCV2051711P	1.00	1.08	-8.0	+/- 10%
Lead	CCV2051711P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV2051711Y	0.00500	0.00501	-0.2	+/- 20%
Nickel	CCV2051711P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV2051711E	0.0400	0.0399	0.25	+/- 10%
Zinc	CCV2051711P	1.00	1.06	-6.0	+/- 10%

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3051711P	1.00	1.08	-8.0	+/- 10%
Arsenic	CCV3051711P	1.00	1.03	-3.0	+/- 10%
Chromium	CCV3051711P	1.00	1.08	-8.0	+/- 10%
Copper	CCV3051711P	1.00	1.09	-9.0	+/- 10%
Lead	CCV3051711P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV3051711Y	0.00500	0.00506	-1.2	+/- 20%
Nickel	CCV3051711P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV3051711E	0.0400	0.0402	-0.50	+/- 10%
Zinc	CCV3051711P	1.00	1.06	-6.0	+/- 10%
Antimony	CCV4051711P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV4051711P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV4051711P	1.00	1.07	-7.0	+/- 10%
Copper	CCV4051711P	1.00	1.08	-8.0	+/- 10%
Lead	CCV4051711P	10.0	10.4	-4.0	+/- 10%
Nickel	CCV4051711P	1.00	1.06	-6.0	+/- 10%
Zinc	CCV4051711P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV5051711P	1.00	1.02	-2.0	+/- 10%
Arsenic	CCV5051711P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV5051711P	1.00	1.07	-7.0	+/- 10%
Copper	CCV5051711P	1.00	1.08	-8.0	+/- 10%
Lead	CCV5051711P	10.0	10.4	-4.0	+/- 10%
Nickel	CCV5051711P	1.00	1.06	-6.0	+/- 10%
Zinc	CCV5051711P	1.00	1.05	-5.0	+/- 10%

Date of Report: May 17, 2011
Samples Submitted: May 10, 2011
Laboratory Reference: 1105-081
Project: 000105-01.09

% MOISTURE

Date Analyzed: 5-10&16-11

Client ID	Lab ID	% Moisture
KCP4-SO-288-BC1-110510	05-081-01	2
KCP4-SO-294-BC2-110510	05-081-07	2
KCP4-SO-295-BC2A-110510	05-081-08	3
KCP4-SO-296-BC2B-110510	05-081-09	2
KCP4-SO-297-BC2C-110510	05-081-10	4
KCP4-SO-298-BC2D-110510	05-081-11	2
KCP4-SO-299-BC2E-110510	05-081-12	3
KCP4-SO-300-BC3-110510	05-081-13	2
KCP4-SO-304-BC4-110510	05-081-17	6
KCP4-SO-305-BC4A-110510	05-081-18	7
KCP4-SO-306-BC4B-110510	05-081-19	5
KCP4-SO-307-BC4C-110510	05-081-20	5

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 05-081

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*		HOLD				% Moisture
1	KCP4-SO-288-BC1-110510	5/10/11	0855	Soil	1	⊗															⊗						⊗
2	KCP4-SO-289-BC1A-110510		0840		1	X															X		X				
3	KCP4-SO-290-BC1B-110510		0842		1	X															X		X				
4	KCP4-SO-291-BC1C-110510		0844		1	X															X		X				
5	KCP4-SO-292-BC1D-110510		0847		1	X															X		X				
6	KCP4-SO-293-BC1E-110510		0850		1	X															X		X				
7	KCP4-SO-294-BC2-110510		0932		1	⊗															⊗						⊗
8	KCP4-SO-295-BC2A-110510		0912		1	X															●		X NS				●
9	KCP4-SO-296-BC2B-110510		0914		1	X															●		X ND				●
10	KCP4-SO-297-BC2C-110510	↓	0918	↓	1	X															●		X ND				●

	Signature	Company	Date	Time
Relinquished		AQ	5/10/11	1430
Received		OnSite	5/10/11	1430
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn
⊗ Requested 5/10/11. DB
● Requested 5/13/11. DB (2 day TAT)

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 2 of 2

Laboratory Number: 05-081

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: Kimberly Clark Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ ______ (other)

Lab ID	① Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID (circled)	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*		HOLD				% Moisture
11	KCP4-SO-298-BC2D-110510	5/10/11	0922	Soil	1	X															●		~~X~~ ND				●
12	KCP4-SO-299-BC2E-110510	↓	0924	↓	↓	↓															●		~~X~~ ND				●
13	KCP4-SO-300-BC3-110510	↓	1132	↓	↓	⊗															⊗						⊗
14	KCP4-SO-301-BC3A-110510	↓	1110	↓	↓	↓																	X				
15	KCP4-SO-302-BC3B-110510	↓	1116	↓	↓	↓																	X				
16	KCP4-SO-303-BC3C-110510	↓	1119	↓	↓	↓																	X				
17	KCP4-SO-304-BC4-110510	↓	1140	↓	↓	⊗															⊗						⊗
18	KCP4-SO-305-BC4A-110510	↓	1128	↓	↓	↓															●		~~●~~ ND				●
19	KCP4-SO-306-BC4B-110510	↓	1132	↓	↓	↓															●		~~●~~ ND				●
20	KCP4-SO-307-BC4C-110510	↓	1135	↓	↓	↓															●		~~●~~ ND				●

	Signature	Company	Date	Time
Relinquished	[signature]	AQ	5/10/11	1430
Received	[signature]	OnSite Env	5/10/11	1430
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn
① Added "SO-" to all sample IDs 5/11/11 BG
⊗ Add Requested 5/10/11 - DB (2 day TAT)
● Requested 5/13/11 - DB (2 day TAT)

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ ______

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 0001 05-01-09

OnSite Project Number: 05-081

Initiated by: Blair Goodfellow

Date Initiated: 5/10/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 5 °C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

24) Sample 11-20) No SO on sample ID's

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 31, 2011

Rebecca Gardner
Anchor QEA
720 Oilve Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1105-217

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on May 26, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

Case Narrative

Samples were collected on May 25, 2011 and received by the laboratory on May 26, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

The duplicate RPD for Chromium, Copper, Mercury, Nickel, and Zinc is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Chromium and Copper are outside control limits due to matrix inhomogeniety. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery for Chromium was 99%. The Spike Blank recovery for Copper was 103%.

The Matrix Spike/Matrix Spike Duplicate RPD for Chromium is outside control limits due to matrix inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-308-B-110525**					
Laboratory ID:	05-217-01					
Diesel Range Organics	**ND**	40	NWTPH-Dx	5-26-11	5-26-11	
Lube Oil Range Organics	**ND**	80	NWTPH-Dx	5-26-11	5-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Client ID:	**KCP4-SO-309-S-110525**					
Laboratory ID:	05-217-02					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-26-11	5-26-11	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	5-26-11	5-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*122*	*50-150*				
Client ID:	**KCP4-SO-310-S-110525**					
Laboratory ID:	05-217-03					
Diesel Range Organics	**ND**	28	NWTPH-Dx	5-26-11	5-26-11	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	5-26-11	5-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*112*	*50-150*				

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0526S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-26-11	5-26-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-26-11	5-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*124*	*50-150*				

Analyte	Result		Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE							
Laboratory ID:	05-215-02						
	ORIG	DUP					
Diesel Range Organics	**1430**	**1090**			27	NA	N
Lube Oil	**9200**	**6950**			28	NA	
Surrogate:							
o-Terphenyl			*114* *85*	*50-150*			

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

NWTPH-Dx
(with acid/silica gel clean-up)
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Contol Limits
CCV0526R-V1	100	95.7	4	+/-15%
CCV0526R-V2	100	99.3	1	+/-15%
CCV0527R-V1	100	99.7	0	+/-15%
CCV0527R-V2	100	101	-1	+/-15%

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-311-B-110525**					
Laboratory ID:	05-217-04					
Naphthalene	**0.0077**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthylene	**ND**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthene	**0.014**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Fluorene	**0.014**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Phenanthrene	**0.089**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Anthracene	**0.025**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Fluoranthene	**0.093**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Pyrene	**0.079**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]anthracene	**0.040**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Chrysene	**0.041**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[b]fluoranthene	**0.029**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Benzo(j,k)fluoranthene	**0.029**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]pyrene	**0.039**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Indeno(1,2,3-c,d)pyrene	**0.019**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[g,h,i]perylene	**0.021**	0.0072	EPA 8270/SIM	5-27-11	5-31-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*79*	*43 - 109*				
Pyrene-d10	*93*	*38 - 128*				
Terphenyl-d14	*85*	*33 - 119*				

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-312-S-110525**					
Laboratory ID:	05-217-05					
Naphthalene	**0.016**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
2-Methylnaphthalene	**0.018**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
1-Methylnaphthalene	**0.013**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthylene	**ND**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthene	**0.032**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Fluorene	**0.031**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Phenanthrene	**0.23**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Anthracene	**0.053**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Fluoranthene	**0.26**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Pyrene	**0.21**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]anthracene	**0.11**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Chrysene	**0.11**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[b]fluoranthene	**0.085**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Benzo(j,k)fluoranthene	**0.078**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]pyrene	**0.11**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Indeno(1,2,3-c,d)pyrene	**0.053**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Dibenz[a,h]anthracene	**0.018**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[g,h,i]perylene	**0.061**	0.0068	EPA 8270/SIM	5-27-11	5-31-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*84*	*43 - 109*				
Pyrene-d10	*101*	*38 - 128*				
Terphenyl-d14	*88*	*33 - 119*				

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-313-S-110525**					
Laboratory ID:	05-217-06					
Naphthalene	**0.014**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
2-Methylnaphthalene	**0.019**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
1-Methylnaphthalene	**0.0088**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthylene	**ND**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthene	**0.0071**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Fluorene	**0.0076**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Phenanthrene	**0.046**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Anthracene	**0.0086**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Fluoranthene	**0.038**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Pyrene	**0.033**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]anthracene	**0.014**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Chrysene	**0.021**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[b]fluoranthene	**0.017**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo(j,k)fluoranthene	**0.013**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]pyrene	**0.014**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Indeno(1,2,3-c,d)pyrene	**0.0091**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Dibenz[a,h]anthracene	**ND**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[g,h,i]perylene	**0.022**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*43 - 109*				
Pyrene-d10	*100*	*38 - 128*				
Terphenyl-d14	*93*	*33 - 119*				

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-314-D-110525**					
Laboratory ID:	05-217-07					
Naphthalene	**0.011**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
2-Methylnaphthalene	**0.015**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
1-Methylnaphthalene	**ND**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthylene	**ND**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Acenaphthene	**ND**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Fluorene	**ND**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Phenanthrene	**0.041**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Anthracene	**0.0087**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Fluoranthene	**0.057**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Pyrene	**0.048**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]anthracene	**0.022**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Chrysene	**0.028**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[b]fluoranthene	**0.024**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo(j,k)fluoranthene	**0.022**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[a]pyrene	**0.024**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Indeno(1,2,3-c,d)pyrene	**0.014**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Dibenz[a,h]anthracene	**ND**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Benzo[g,h,i]perylene	**0.027**	0.0069	EPA 8270/SIM	5-27-11	5-31-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*43 - 109*				
Pyrene-d10	*100*	*38 - 128*				
Terphenyl-d14	*91*	*33 - 119*				

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0527S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Fluorene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Anthracene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Pyrene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Chrysene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	5-27-11	5-27-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*90*	*43 - 109*				
Pyrene-d10	*100*	*38 - 128*				
Terphenyl-d14	*100*	*33 - 119*				

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

PAHs by EPA 8270D/SIM
MS/MSD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-217-04										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0716**	**0.0671**	0.0833	0.0833	0.00716	77	72	39 - 110	6	21	
Acenaphthylene	**0.0667**	**0.0655**	0.0833	0.0833	ND	80	79	47 - 124	2	21	
Acenaphthene	**0.0820**	**0.0765**	0.0833	0.0833	0.0130	83	76	50 - 120	7	20	
Fluorene	**0.0789**	**0.0740**	0.0833	0.0833	0.0127	79	74	52 - 126	6	21	
Phenanthrene	**0.161**	**0.152**	0.0833	0.0833	0.0819	95	84	41 - 130	6	22	
Anthracene	**0.0968**	**0.0912**	0.0833	0.0833	0.0234	88	81	48 - 124	6	23	
Fluoranthene	**0.181**	**0.171**	0.0833	0.0833	0.0863	114	102	40 - 137	6	23	
Pyrene	**0.160**	**0.152**	0.0833	0.0833	0.0731	104	95	36 - 139	5	23	
Benzo[a]anthracene	**0.118**	**0.113**	0.0833	0.0833	0.0366	98	92	43 - 127	4	21	
Chrysene	**0.117**	**0.110**	0.0833	0.0833	0.0376	95	87	41 - 133	6	19	
Benzo[b]fluoranthene	**0.103**	**0.101**	0.0833	0.0833	0.0265	92	89	40 - 132	2	25	
Benzo(j,k)fluoranthene	**0.103**	**0.100**	0.0833	0.0833	0.0267	92	88	35 - 132	3	25	
Benzo[a]pyrene	**0.123**	**0.117**	0.0833	0.0833	0.0358	105	97	37 - 131	5	26	
Indeno(1,2,3-c,d)pyrene	**0.0931**	**0.0885**	0.0833	0.0833	0.0176	91	85	39 - 134	5	23	
Dibenz[a,h]anthracene	**0.0773**	**0.0729**	0.0833	0.0833	ND	93	88	40 - 137	6	21	
Benzo[g,h,i]perylene	**0.0963**	**0.0916**	0.0833	0.0833	0.0197	92	86	35 - 135	5	22	
Surrogate:											
2-Fluorobiphenyl						*82*	*77*	*43 - 109*			
Pyrene-d10						*94*	*88*	*38 - 128*			
Terphenyl-d14						*87*	*81*	*33 - 119*			

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

PAHs by EPA 8270D/SIM
SB/SBD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0527S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0690**	**0.0687**	0.0833	0.0833	83	82	43 - 108	0	27	
Acenaphthylene	**0.0736**	**0.0739**	0.0833	0.0833	88	89	52 - 120	0	21	
Acenaphthene	**0.0712**	**0.0714**	0.0833	0.0833	85	86	59 - 113	0	17	
Fluorene	**0.0730**	**0.0732**	0.0833	0.0833	88	88	64 - 117	0	14	
Phenanthrene	**0.0709**	**0.0709**	0.0833	0.0833	85	85	67 - 112	0	12	
Anthracene	**0.0751**	**0.0747**	0.0833	0.0833	90	90	59 - 110	1	16	
Fluoranthene	**0.0746**	**0.0745**	0.0833	0.0833	90	89	68 - 120	0	15	
Pyrene	**0.0756**	**0.0758**	0.0833	0.0833	91	91	69 - 121	0	17	
Benzo[a]anthracene	**0.0722**	**0.0716**	0.0833	0.0833	87	86	63 - 114	1	12	
Chrysene	**0.0726**	**0.0726**	0.0833	0.0833	87	87	67 - 118	0	12	
Benzo[b]fluoranthene	**0.0710**	**0.0716**	0.0833	0.0833	85	86	58 - 125	1	20	
Benzo(j,k)fluoranthene	**0.0729**	**0.0751**	0.0833	0.0833	88	90	42 - 134	3	26	
Benzo[a]pyrene	**0.0785**	**0.0775**	0.0833	0.0833	94	93	55 - 111	1	19	
Indeno(1,2,3-c,d)pyrene	**0.0739**	**0.0735**	0.0833	0.0833	89	88	60 - 125	1	20	
Dibenz[a,h]anthracene	**0.0754**	**0.0751**	0.0833	0.0833	91	90	62 - 125	0	19	
Benzo[g,h,i]perylene	**0.0730**	**0.0723**	0.0833	0.0833	88	87	61 - 124	1	19	
Surrogate:										
2-Fluorobiphenyl					*89*	*89*	*43 - 109*			
Pyrene-d10					*98*	*99*	*38 - 128*			
Terphenyl-d14					*95*	*95*	*33 - 119*			

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-01					
Client ID:	**KCP4-SO-308-B-110525**					
Antimony	**ND**	8.0	6010B	5-26-11	5-27-11	
Arsenic	**ND**	16	6010B	5-26-11	5-27-11	
Chromium	**58**	0.80	6010B	5-26-11	5-27-11	
Copper	**22**	1.6	6010B	5-26-11	5-27-11	
Lead	**ND**	8.0	6010B	5-26-11	5-27-11	
Mercury	**ND**	0.40	7471A	5-26-11	5-27-11	
Nickel	**31**	4.0	6010B	5-26-11	5-27-11	
Thallium	**ND**	4.0	6020	5-26-11	5-31-11	
Zinc	**61**	4.0	6010B	5-27-11	5-27-11	
Lab ID:	05-217-02					
Client ID:	**KCP4-SO-309-S-110525**					
Antimony	**ND**	5.5	6010B	5-26-11	5-27-11	
Arsenic	**ND**	11	6010B	5-26-11	5-27-11	
Chromium	**24**	0.55	6010B	5-26-11	5-27-11	
Copper	**14**	1.1	6010B	5-26-11	5-27-11	
Lead	**ND**	5.5	6010B	5-26-11	5-27-11	
Mercury	**ND**	0.28	7471A	5-26-11	5-27-11	
Nickel	**57**	2.8	6010B	5-26-11	5-27-11	
Thallium	**ND**	2.8	6020	5-26-11	5-31-11	
Zinc	**25**	2.8	6010B	5-27-11	5-27-11	

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-03					
Client ID:	**KCP4-SO-310-S-110525**					
Antimony	**ND**	5.5	6010B	5-26-11	5-27-11	
Arsenic	**ND**	11	6010B	5-26-11	5-27-11	
Chromium	**22**	0.55	6010B	5-26-11	5-27-11	
Copper	**14**	1.1	6010B	5-26-11	5-27-11	
Lead	**ND**	5.5	6010B	5-26-11	5-27-11	
Mercury	**ND**	0.28	7471A	5-26-11	5-27-11	
Nickel	**51**	2.8	6010B	5-26-11	5-27-11	
Thallium	**ND**	2.8	6020	5-26-11	5-31-11	
Zinc	**25**	2.8	6010B	5-27-11	5-27-11	
Lab ID:	05-217-11					
Client ID:	**KCP4-SO-318-S-110525**					
Antimony	**41**	5.4	6010B	5-26-11	5-27-11	
Arsenic	**190**	11	6010B	5-26-11	5-27-11	
Chromium	**74**	0.54	6010B	5-26-11	5-27-11	
Copper	**500**	1.1	6010B	5-26-11	5-27-11	
Lead	**180**	5.4	6010B	5-26-11	5-27-11	
Mercury	**ND**	0.27	7471A	5-27-11	5-27-11	
Nickel	**64**	2.7	6010B	5-26-11	5-27-11	
Thallium	**ND**	2.7	6020	5-26-11	5-31-11	
Zinc	**1500**	14	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-12					
Client ID:	**KCP4-SO-319-D-110525**					
Antimony	**33**	5.3	6010B	5-27-11	5-27-11	
Arsenic	**170**	11	6010B	5-27-11	5-27-11	
Chromium	**65**	0.53	6010B	5-27-11	5-27-11	
Copper	**410**	1.1	6010B	5-27-11	5-27-11	
Lead	**110**	5.3	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.26	7471A	5-27-11	5-27-11	
Nickel	**46**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**1400**	13	6010B	5-27-11	5-31-11	
Lab ID:	05-217-13					
Client ID:	**KCP4-SO-320-S-110525**					
Antimony	**ND**	5.2	6010B	5-27-11	5-27-11	
Arsenic	**ND**	10	6010B	5-27-11	5-27-11	
Chromium	**27**	0.52	6010B	5-27-11	5-27-11	
Copper	**52**	1.0	6010B	5-27-11	5-27-11	
Lead	**16**	5.2	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.26	7471A	5-27-11	5-27-11	
Nickel	**25**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**120**	2.6	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-14					
Client ID:	**KCP4-SO-321-S-110525**					
Antimony	**ND**	5.3	6010B	5-27-11	5-27-11	
Arsenic	**23**	11	6010B	5-27-11	5-27-11	
Chromium	**42**	0.53	6010B	5-27-11	5-27-11	
Copper	**240**	1.1	6010B	5-27-11	5-27-11	
Lead	**22**	5.3	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.26	7471A	5-27-11	5-27-11	
Nickel	**43**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**460**	2.6	6010B	5-27-11	5-27-11	
Lab ID:	05-217-15					
Client ID:	**KCP4-SO-322-S-110525**					
Antimony	**ND**	5.3	6010B	5-27-11	5-27-11	
Arsenic	**12**	11	6010B	5-27-11	5-27-11	
Chromium	**71**	0.53	6010B	5-27-11	5-27-11	
Copper	**140**	1.1	6010B	5-27-11	5-27-11	
Lead	**14**	5.3	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.26	7471A	5-27-11	5-27-11	
Nickel	**46**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**270**	2.6	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-16					
Client ID:	**KCP4-SO-323-S-110525**					
Antimony	**ND**	5.2	6010B	5-27-11	5-27-11	
Arsenic	**ND**	10	6010B	5-27-11	5-27-11	
Chromium	**49**	0.52	6010B	5-27-11	5-27-11	
Copper	**72**	1.0	6010B	5-27-11	5-27-11	
Lead	**12**	5.2	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.26	7471A	5-27-11	5-27-11	
Nickel	**71**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**240**	2.6	6010B	5-27-11	5-27-11	
Lab ID:	05-217-17					
Client ID:	**KCP4-SO-324-S-110525**					
Antimony	**5.6**	5.3	6010B	5-27-11	5-27-11	
Arsenic	**28**	11	6010B	5-27-11	5-27-11	
Chromium	**91**	0.53	6010B	5-27-11	5-27-11	
Copper	**92**	1.1	6010B	5-27-11	5-27-11	
Lead	**26**	5.3	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.26	7471A	5-27-11	5-27-11	
Nickel	**53**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**400**	2.6	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-18					
Client ID:	**KCP4-SO-325-S-110525**					
Antimony	**8.4**	5.3	6010B	5-27-11	5-27-11	
Arsenic	**36**	11	6010B	5-27-11	5-27-11	
Chromium	**140**	0.53	6010B	5-27-11	5-27-11	
Copper	**140**	1.1	6010B	5-27-11	5-27-11	
Lead	**32**	5.3	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.27	7471A	5-27-11	5-27-11	
Nickel	**94**	2.7	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.7	6020	5-27-11	5-31-11	
Zinc	**550**	2.7	6010B	5-27-11	5-27-11	
Lab ID:	05-217-19					
Client ID:	**KCP4-SO-326-S-110525**					
Antimony	**7.8**	5.2	6010B	5-27-11	5-27-11	
Arsenic	**36**	10	6010B	5-27-11	5-27-11	
Chromium	**84**	0.52	6010B	5-27-11	5-27-11	
Copper	**300**	1.0	6010B	5-27-11	5-27-11	
Lead	**35**	5.2	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.26	7471A	5-27-11	5-27-11	
Nickel	**82**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**600**	2.6	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-20					
Client ID:	**KCP4-SO-327-S-110525**					
Antimony	**9.3**	5.2	6010B	5-27-11	5-27-11	
Arsenic	**34**	10	6010B	5-27-11	5-27-11	
Chromium	**150**	0.52	6010B	5-27-11	5-27-11	
Copper	**400**	1.0	6010B	5-27-11	5-27-11	
Lead	**46**	5.2	6010B	5-27-11	5-27-11	
Mercury	**0.42**	0.26	7471A	5-27-11	5-27-11	
Nickel	**150**	2.6	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.6	6020	5-27-11	5-31-11	
Zinc	**520**	2.6	6010B	5-27-11	5-27-11	
Lab ID:	05-217-21					
Client ID:	**KCP4-CO-328-110525**					
Antimony	**ND**	5.0	6010B	5-27-11	5-27-11	
Arsenic	**ND**	10	6010B	5-27-11	5-27-11	
Chromium	**15**	0.50	6010B	5-27-11	5-27-11	
Copper	**12**	1.0	6010B	5-27-11	5-27-11	
Lead	**ND**	5.0	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.25	7471A	5-27-11	5-27-11	
Nickel	**17**	2.5	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.5	6020	5-27-11	5-31-11	
Zinc	**47**	2.5	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-22					
Client ID:	**KCP4-CO-329-110525**					
Antimony	**ND**	5.0	6010B	5-27-11	5-27-11	
Arsenic	**ND**	10	6010B	5-27-11	5-27-11	
Chromium	**4.9**	0.50	6010B	5-27-11	5-27-11	
Copper	**28**	1.0	6010B	5-27-11	5-27-11	
Lead	**ND**	5.0	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.25	7471A	5-27-11	5-27-11	
Nickel	**4.3**	2.5	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.5	6020	5-27-11	5-31-11	
Zinc	**100**	2.5	6010B	5-27-11	5-27-11	
Lab ID:	05-217-23					
Client ID:	**KCP4-CO-330-110525**					
Antimony	**ND**	5.0	6010B	5-27-11	5-27-11	
Arsenic	**ND**	10	6010B	5-27-11	5-27-11	
Chromium	**11**	0.50	6010B	5-27-11	5-27-11	
Copper	**11**	1.0	6010B	5-27-11	5-27-11	
Lead	**8.0**	5.0	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.25	7471A	5-27-11	5-27-11	
Nickel	**15**	2.5	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.5	6020	5-27-11	5-31-11	
Zinc	**56**	2.5	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-24					
Client ID:	**KCP4-SO-331-B-110525**					
Antimony	**ND**	5.4	6010B	5-27-11	5-27-11	
Arsenic	**26**	11	6010B	5-27-11	5-27-11	
Chromium	**31**	0.54	6010B	5-27-11	5-27-11	
Copper	**78**	1.1	6010B	5-27-11	5-27-11	
Lead	**13**	5.4	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.27	7471A	5-27-11	5-27-11	
Nickel	**39**	2.7	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.7	6020	5-27-11	5-31-11	
Zinc	**300**	2.7	6010B	5-27-11	5-27-11	
Lab ID:	05-217-25					
Client ID:	**KCP4-SO-332-D-110525**					
Antimony	**6.2**	5.5	6010B	5-27-11	5-27-11	
Arsenic	**19**	11	6010B	5-27-11	5-27-11	
Chromium	**26**	0.55	6010B	5-27-11	5-27-11	
Copper	**80**	1.1	6010B	5-27-11	5-27-11	
Lead	**19**	5.5	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.27	7471A	5-27-11	5-27-11	
Nickel	**42**	2.7	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.7	6020	5-27-11	5-31-11	
Zinc	**220**	2.7	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-26					
Client ID:	**KCP4-SO-333-B-110525**					
Antimony	**14**	5.4	6010B	5-27-11	5-27-11	
Arsenic	**91**	11	6010B	5-27-11	5-27-11	
Chromium	**41**	0.54	6010B	5-27-11	5-27-11	
Copper	**210**	1.1	6010B	5-27-11	5-27-11	
Lead	**71**	5.4	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.27	7471A	5-27-11	5-27-11	
Nickel	**36**	2.7	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.7	6020	5-27-11	5-31-11	
Zinc	**900**	2.7	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-27					
Client ID:	**KCP4-SO-334-B-110525**					
Antimony	**ND**	5.5	6010B	5-27-11	5-27-11	
Arsenic	**ND**	11	6010B	5-27-11	5-27-11	
Chromium	**22**	0.55	6010B	5-27-11	5-27-11	
Copper	**21**	1.1	6010B	5-27-11	5-27-11	
Lead	**ND**	5.5	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.27	7471A	5-27-11	5-27-11	
Nickel	**34**	2.7	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.7	6020	5-27-11	5-31-11	
Zinc	**30**	2.7	6010B	5-27-11	5-27-11	
Lab ID:	05-217-28					
Client ID:	**KCP4-SO-335-B-110525**					
Antimony	**12**	6.0	6010B	5-27-11	5-27-11	
Arsenic	**18**	12	6010B	5-27-11	5-27-11	
Chromium	**64**	0.60	6010B	5-27-11	5-27-11	
Copper	**130**	1.2	6010B	5-27-11	5-27-11	
Lead	**210**	6.0	6010B	5-27-11	5-27-11	
Mercury	**0.46**	0.30	7471A	5-27-11	5-27-11	
Nickel	**66**	3.0	6010B	5-27-11	5-27-11	
Thallium	**ND**	3.0	6020	5-27-11	5-31-11	
Zinc	**370**	3.0	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-29					
Client ID:	**KCP4-SO-336-B-110525**					
Antimony	**28**	6.6	6010B	5-27-11	5-27-11	
Arsenic	**33**	13	6010B	5-27-11	5-27-11	
Chromium	**78**	0.66	6010B	5-27-11	5-27-11	
Copper	**130**	1.3	6010B	5-27-11	5-27-11	
Lead	**190**	6.6	6010B	5-27-11	5-27-11	
Mercury	**0.49**	0.33	7471A	5-27-11	5-27-11	
Nickel	**52**	3.3	6010B	5-27-11	5-27-11	
Thallium	**ND**	3.3	6020	5-27-11	5-31-11	
Zinc	**310**	3.3	6010B	5-27-11	5-27-11	
Lab ID:	05-217-30					
Client ID:	**KCP4-SO-337-B-110525**					
Antimony	**ND**	5.7	6010B	5-27-11	5-27-11	
Arsenic	**ND**	11	6010B	5-27-11	5-27-11	
Chromium	**23**	0.57	6010B	5-27-11	5-27-11	
Copper	**23**	1.1	6010B	5-27-11	5-27-11	
Lead	**ND**	5.7	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.28	7471A	5-27-11	5-27-11	
Nickel	**33**	2.8	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.8	6020	5-27-11	5-31-11	
Zinc	**37**	2.8	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-31					
Client ID:	**KCP4-SO-338-B-110525**					
Antimony	**ND**	5.4	6010B	5-27-11	5-27-11	
Arsenic	**ND**	11	6010B	5-27-11	5-27-11	
Chromium	**23**	0.54	6010B	5-27-11	5-27-11	
Copper	**35**	1.1	6010B	5-27-11	5-27-11	
Lead	**8.0**	5.4	6010B	5-27-11	5-27-11	
Mercury	**ND**	0.27	7471A	5-27-11	5-27-11	
Nickel	**33**	2.7	6010B	5-27-11	5-27-11	
Thallium	**ND**	2.7	6020	5-27-11	5-31-11	
Zinc	**87**	2.7	6010B	5-27-11	5-27-11	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-26&27-11
Date Analyzed:	5-27&31-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0526S3,MB0526S4&MB0527S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-27-11
Date Analyzed:	5-27&31-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0527S3,MB0527S4&MB0527S5

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	5-27-11
Date Analyzed:	5-27-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0527S1

Analyte	Method	Result	PQL
Mercury	7471A	**ND**	0.25

Date of Report: May 31, 2011
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Laboratory Reference: 1105-217
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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-26&27-11
Date Analyzed: 5-27&31-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-217-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**21.6**	**21.4**	1	0.50	
Copper	**12.9**	**12.3**	5	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**51.0**	**47.0**	8	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**22.8**	**22.9**	0	2.5	

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-27-11
Date Analyzed: 5-27&31-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-217-20

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**8.93**	**ND**	NA	5.0	
Arsenic	**32.0**	**22.4**	35	10	C
Chromium	**144**	**102**	35	0.50	K
Copper	**382**	**112**	110	1.0	K
Lead	**43.9**	**40.9**	7	5.0	
Mercury	**0.397**	**0.512**	25	0.25	K
Nickel	**142**	**76.8**	60	2.5	K
Thallium	**ND**	**ND**	NA	25.0	
Zinc	**499**	**363**	32	2.5	K

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 5-27-11
Date Analyzed: 5-27-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-217-12

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	**ND**	**ND**	NA	0.25	

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-26&27-11
Date Analyzed: 5-27&31-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-217-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**94.6**	95	**97.4**	97	3	
Arsenic	100	**96.8**	97	**96.6**	97	0	
Chromium	100	**116**	94	**122**	100	5	
Copper	50.0	**62.8**	100	**64.9**	104	3	
Lead	250	**234**	94	**234**	94	0	
Mercury	0.500	**0.495**	99	**0.513**	103	4	
Nickel	100	**143**	92	**174**	123	19	
Thallium	50.0	**49.2**	98	**49.4**	99	0	
Zinc	100	**126**	103	**125**	102	1	

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-27-11
Date Analyzed: 5-27&31-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-217-20

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**104**	95	**108**	99	4	
Arsenic	100	**131**	99	**134**	102	2	
Chromium	100	**331**	186	**220**	75	40	V,W
Copper	50.0	**184**	-396	**195**	-374	6	V
Lead	250	**260**	87	**255**	85	2	
Mercury	0.500	**0.924**	105	**0.796**	80	15	
Nickel	100	**233**	91	**243**	101	4	
Thallium	50.0	**52.4**	105	**51.4**	103	2	
Zinc	100	**604**	105	**575**	76	5	

Date of Report: May 31, 2011
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TOTAL METALS
EPA 7471A
MS/MSD QUALITY CONTROL

Date Extracted: 5-27-11
Date Analyzed: 5-27-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 05-217-12

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	**0.494**	99	**0.484**	97	2	

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Samples Submitted: May 26, 2011
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SIKE BLANK QUALITY CONTROL

Date Extracted: 5-26&27-11
Date Analyzed: 5-27&31-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0526S3,SB0526S4&SB0527S2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**95.7**	96
Arsenic	6010B	100	**96.4**	96
Chromium	6010B	100	**99.1**	99
Copper	6010B	50.0	**51.9**	104
Lead	6010B	250	**242**	97
Mercury	7471A	0.500	**0.478**	96
Nickel	6010B	100	**95.7**	96
Thallium	6020	50.0	**48.5**	97
Zinc	6010B	100	**93.9**	94

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TOTAL METALS
EPA 6010B/6020/7471A
SIKE BLANK QUALITY CONTROL

Date Extracted: 5-27-11
Date Analyzed: 5-27&31-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0527S3,SB0527S4&SB0527S5

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**100**	100
Arsenic	6010B	100	**97.0**	97
Chromium	6010B	100	**99.2**	99
Copper	6010B	50.0	**51.4**	103
Lead	6010B	250	**227**	91
Mercury	7471A	0.500	**0.476**	95
Nickel	6010B	100	**96.8**	97
Thallium	6020	50.0	**49.8**	100
Zinc	6010B	100	**93.6**	94

Date of Report: May 31, 2011
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Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 7471A
SIKE BLANK QUALITY CONTROL

Date Extracted: 5-27-11
Date Analyzed: 5-27-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0527S1

Analyte	Method	Spike Level	SB	Percent Recovery
Mercury	7471A	0.500	**0.522**	104

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV052711P	1.00	1.01	-1.0	+/- 10%
Arsenic	ICV052711P	1.00	1.03	-3.0	+/- 10%
Chromium	ICV052711P	1.00	1.05	-5.0	+/- 10%
Copper	ICV052711P	1.00	1.06	-6.0	+/- 10%
Lead	ICV052711P	1.00	1.03	-3.0	+/- 10%
Mercury	ICV052611Y	0.00500	0.00463	7.4	+/- 10%
Nickel	ICV052711P	1.00	0.987	1.3	+/- 10%
Thallium	ICV053111E	0.0500	0.0514	-2.8	+/- 10%
Zinc	ICV052711P	1.00	1.03	-3.0	+/- 10%
Antimony	CCV1052711P	1.00	0.993	0.70	+/- 10%
Arsenic	CCV1052711P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV1052711P	1.00	1.03	-3.0	+/- 10%
Copper	CCV1052711P	1.00	1.03	-3.0	+/- 10%
Lead	CCV1052711P	10.0	10.3	-3.0	+/- 10%
Mercury	CCV1052611Y	0.00500	0.00513	-2.6	+/- 20%
Nickel	CCV1052711P	1.00	0.935	6.5	+/- 10%
Thallium	CCV1053111E	0.0400	0.0399	0.25	+/- 10%
Zinc	CCV1052711P	1.00	1.02	-2.0	+/- 10%
Antimony	CCV2052711P	1.00	1.00	0	+/- 10%
Arsenic	CCV2052711P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV2052711P	1.00	1.03	-3.0	+/- 10%
Copper	CCV2052711P	1.00	1.03	-3.0	+/- 10%
Lead	CCV2052711P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV2052611Y	0.00500	0.00506	-1.2	+/- 20%
Nickel	CCV2052711P	1.00	0.953	4.7	+/- 10%
Thallium	CCV2053111E	0.0400	0.0399	0.25	+/- 10%
Zinc	CCV2052711P	1.00	1.03	-3.0	+/- 10%
Antimony	CCV3052711P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV3052711P	1.00	1.00	0	+/- 10%
Chromium	CCV3052711P	1.00	1.03	-3.0	+/- 10%
Copper	CCV3052711P	1.00	1.02	-2.0	+/- 10%
Lead	CCV3052711P	10.0	10.3	-3.0	+/- 10%
Mercury	CCV3052611Y	0.00500	0.00503	-0.60	+/- 20%
Nickel	CCV3052711P	1.00	0.938	6.2	+/- 10%
Thallium	CCV3053111E	0.0400	0.0402	-0.50	+/- 10%
Zinc	CCV3052711P	1.00	1.02	-2.0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4052711P	1.00	0.992	0.80	+/- 10%
Arsenic	CCV4052711P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV4052711P	1.00	1.02	-2.0	+/- 10%
Copper	CCV4052711P	1.00	1.02	-2.0	+/- 10%
Lead	CCV4052711P	10.0	10.3	-3.0	+/- 10%
Nickel	CCV4052711P	1.00	0.972	2.8	+/- 10%
Thallium	CCV4053111E	0.0400	0.0421	-5.2	+/- 10%
Zinc	CCV4052711P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV5053111E	0.0400	0.0421	-5.2	+/- 10%
Zinc	CCV5052711P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV6053111E	0.0400	0.0421	-5.2	+/- 10%
Zinc	CCV6052711P	1.00	1.08	-8.0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV052711P	1.00	1.04	-4.0	+/- 10%
Arsenic	ICV052711P	1.00	1.01	-1.0	+/- 10%
Chromium	ICV052711P	1.00	1.06	-6.0	+/- 10%
Copper	ICV052711P	1.00	1.08	-8.0	+/- 10%
Lead	ICV052711P	1.00	1.07	-7.0	+/- 10%
Mercury	ICV052711P	0.00500	0.00490	2.0	+/- 10%
Nickel	ICV052711P	1.00	1.04	-4.0	+/- 10%
Zinc	ICV052711P	1.00	1.04	-4.0	+/- 10%
Antimony	CCV1052711P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV1052711P	1.00	1.05	-5.0	+/- 10%
Chromium	CCV1052711P	1.00	1.04	-4.0	+/- 10%
Copper	CCV1052711P	1.00	1.04	-4.0	+/- 10%
Lead	CCV1052711P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV1052711P	0.00500	0.00511	-2.2	+/- 20%
Nickel	CCV1052711P	1.00	0.995	0.50	+/- 10%
Zinc	CCV1052711P	1.00	1.04	-4.0	+/- 10%
Antimony	CCV2052711P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV2052711P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV2052711P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2052711P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2052711P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV2052711P	0.00500	0.00507	-1.4	+/- 20%
Nickel	CCV2052711P	1.00	0.968	3.2	+/- 10%
Zinc	CCV2052711P	1.00	1.03	-3.0	
Antimony	CCV3052711P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV3052711P	1.00	1.03	-3.0	+/- 10%
Chromium	CCV3052711P	1.00	1.05	-5.0	+/- 10%
Copper	CCV3052711P	1.00	1.04	-4.0	+/- 10%
Lead	CCV3052711P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV3052711Y	0.00500	0.00512	-2.4	+/- 20%
Nickel	CCV3052711P	1.00	1.01	-1.0	+/- 10%
Zinc	CCV3052711P	1.00	1.06	-6.0	+/- 10%

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Samples Submitted: May 26, 2011
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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4052711P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV4052711P	1.00	1.03	-3.0	+/- 10%
Chromium	CCV4052711P	1.00	1.05	-5.0	+/- 10%
Copper	CCV4052711P	1.00	1.03	-3.0	+/- 10%
Lead	CCV4052711P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV4052711Y	0.00500	0.00512	-2.4	+/- 20%
Nickel	CCV4052711P	1.00	1.01	-1.0	+/- 10%
Zinc	CCV4052711P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV5052711P	1.00	1.05	-5.0	+/- 10%
Arsenic	CCV5052711P	1.00	1.03	-3.0	+/- 10%
Chromium	CCV5052711P	1.00	1.04	-4.0	+/- 10%
Copper	CCV5052711P	1.00	1.02	-2.0	+/- 10%
Lead	CCV5052711P	10.0	10.5	-5.0	+/- 10%
Mercury	CCV5052711Y	0.00500	0.00540	-8.0	+/- 20%
Nickel	CCV5052711P	1.00	0.994	0.60	+/- 10%
Zinc	CCV5052711P	1.00	1.05	-5.0	+/- 10%
Lead	CCV6052711P	10.0	10.5	-5.0	+/- 10%
Lead	CCV7052711P	10.0	10.5	-5.0	+/- 10%

Date of Report: May 31, 2011
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TOTAL METALS
EPA 6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Zinc	ICV053111P	1.00	1.01	-1.0	+/- 10%
Zinc	CCV1053111P	1.00	1.01	-1.0	+/- 10%
Zinc	CCV2053111P	1.00	1.02	-2.0	+/- 10%
Zinc	CCV3053111P	1.00	1.02	-2.0	+/- 10%
Zinc	CCV4053111P	1.00	1.00	0	+/- 10%

Date of Report: May 31, 2011
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TCLP LEAD
EPA 1311/6010B

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-217-08					
Client ID:	**KCP4-SO-315-BK-110525**					
Lead	**0.22**	0.20	6010B	5-27-11	5-27-11	
Lab ID:	05-217-09					
Client ID:	**KCP4-SO-316-BK-110525**					
Lead	**ND**	0.20	6010B	5-27-11	5-27-11	
Lab ID:	05-217-10					
Client ID:	**KCP4-SO-317-BK-110525**					
Lead	**0.34**	0.20	6010B	5-27-11	5-27-11	

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
METHOD BLANK QUALITY CONTROL

Date Prepared:	5-26-11
Date Extracted:	5-27-11
Date Analyzed:	5-27-11
Matrix:	TCLP Extract
Units:	mg/L (ppm)
Lab ID:	MB0527T1

Analyte	Method	Result	PQL
Lead	6010B	**ND**	0.20

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
DUPLICATE QUALITY CONTROL

Date Prepared: 5-26-11
Date Extracted: 5-27-11
Date Analyzed: 5-27-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 05-217-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**0.223**	**0.233**	4	0.20	

Date of Report: May 31, 2011
Samples Submitted: May 26, 2011
Laboratory Reference: 1105-217
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
MS/MSD QUALITY CONTROL

Date Prepared: 5-26-11
Date Extracted: 5-27-11
Date Analyzed: 5-27-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 05-217-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	10.0	**9.44**	92	**9.46**	92	0	

Date of Report: May 31, 2011
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Laboratory Reference: 1105-217
Project: 000105-01.09

TCLP LEAD
EPA 1311/6010B
SPIKE BLANK QUALITY CONTROL

Date Prepared: 5-26-11
Date Extracted: 5-27-11
Date Analyzed: 5-27-11

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: SB0527T1

Analyte	Method	Spike Level	SB	Percent Recovery
Lead	6010B	10.0	**9.38**	94

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TCLP LEAD
EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV052711P	1.00	1.03	-3.0	+/- 10%
Lead	CCV1052711P	10.0	10.3	-3.0	+/- 10%
Lead	CCV2052711P	10.0	10.4	-4.0	+/- 10%
Lead	CCV3052711P	10.0	10.3	-3.0	+/- 10%
Lead	CCV4052711P	10.0	10.3	-3.0	+/- 10%
Lead	CCV5052711P	10.0	10.2	-2.0	+/- 10%
Lead	ICV052711P	1.00	1.07	-7.0	+/- 10%
Lead	CCV1052711P	10.0	10.4	-4.0	+/- 10%
Lead	CCV2052711P	10.0	10.4	-4.0	+/- 10%

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TCLP LEAD
EPA 1311/6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Lead	ICV052711P	1.00	1.07	-7.0	+/- 10%
Lead	CCV1052711P	10.0	10.4	-4.0	+/- 10%
Lead	CCV2052711P	10.0	10.4	-4.0	+/- 10%

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% MOISTURE

Date Analyzed: 5-27-11

Client ID	Lab ID	% Moisture
KCP4-SO-308-B-110525	05-217-01	38
KCP4-SO-309-S-110525	05-217-02	10
KCP4-SO-310-S-110525	05-217-03	10
KCP4-SO-311-B-110525	05-217-04	8
KCP4-SO-312-S-110525	05-217-05	3
KCP4-SO-313-S-110525	05-217-06	4
KCP4-SO-314-D-110525	05-217-07	4
KCP4-SO-318-S-110525	05-217-11	7
KCP4-SO-319-D-110525	05-217-12	5
KCP4-SO-320-S-110525	05-217-13	3
KCP4-SO-321-S-110525	05-217-14	5
KCP4-SO-322-S-110525	05-217-15	5
KCP4-SO-323-S-110525	05-217-16	4
KCP4-SO-324-S-110525	05-217-17	5
KCP4-SO-325-S-110525	05-217-18	6
KCP4-SO-326-S-110525	05-217-19	4
KCP4-SO-327-S-110525	05-217-20	4
KCP4-SO-331-B-110525	05-217-24	8
KCP4-SO-332-D-110525	05-217-25	9
KCP4-SO-333-B-110525	05-217-26	8
KCP4-SO-334-B-110525	05-217-27	8
KCP4-SO-335-B-110525	05-217-28	17
KCP4-SO-336-B-110525	05-217-29	25
KCP4-SO-337-B-110525	05-217-30	12
KCP4-SO-338-B-110525	05-217-31	7

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 05-217

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*	TCLP - Pb					% Moisture
1	KCP4-SO-308-B-110525	5/25/11	0948	soil	1				X												X						X
2	KCP4-SO-309-S-110525		1010		1				X												X						
3	KCP4-SO-310-S-110525		1015		1				X												X						
4	KCP4-SO-311-B-110525		1110		1								X														
5	KCP4-SO-312-S-110525		1112		1								X														
6	KCP4-SO-313-S-110525		1116		1								X														
7	KCP4-SO-314-D-110525		1118		1								X														
8	KCP4-SO-315-BK-110525		1235		1																	X					
9	KCP4-SO-316-BK-110525		1239		1																	X					
10	KCP4-SO-317-BK-110525	↓	1248	↓	1																	X					↓

	Signature	Company	Date	Time
Relinquished	EWVonckx	Anchor QEA	5/26/11	1030
Received		QEA	5/26/11	1030
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 05-217

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals* TCLP - Pb						% Moisture
11	KCP4-SO-318-S-110525	5/25/11	13:15	soil	1																X						X
12	KCP4-SO-319-D-110525		1318																		X						
13	KCP4-SO-320-S-110525		1323																		X						
14	KCP4-SO-321-S-110525		1332																		X						
15	KCP4-SO-322-S-110525		1340																		X						
16	KCP4-SO-323-S-110525		1342																		X						
17	KCP4-SO-324-S-110525		1346																		X						
18	KCP4-SO-325-S-110525		1352																		X						
19	KCP4-SO-326-S-110525		1355																		X						
20	KCP4-SO-327-S-110525		1402																		X						

	Signature	Company	Date	Time
Relinquished		Anchor QEA	5/26/11	1030
Received		QEA	5/26/11	1030
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 05-217

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*						% Moisture
21	KCP4-CO-328-110525	5/25/11	1338	concrete	1																X						
22	KCP4-CO-329-110525		1345	concrete																	X						
23	KCP4-CO-330-110525		1353	concrete																	X						
24	KCP4-SO-331-B-110525		1520	soil																	X						X
25	KCP4-SO-332-D-110525		1522																		X						
26	KCP4-SO-333-B-110525		1528																		X						
27	KCP4-SO-334-B-110525		1537																		X						
28	KCP4-SO-335-B-110525		1542																		X						
29	KCP4-SO-336-B-110525		1546																		X						
30	KCP4-SO-337-B-110525		1549																		X						

	Signature	Company	Date	Time
Relinquished	[signature]	Anchor QEA	5/26/11	1030
Received	[signature]	OSE	5/26/11	1030
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

FOR CONCRETE SAMPLES:
RINSE with DI water prior to analysis

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000165-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 05-217

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*					% Moisture
31	KCP4-SO-338-B-110525	5/25/11	1554	soil	X																X					X

EWV 5/25/11

	Signature	Company	Date	Time
Relinquished	EWVonckx	Anchor QEA	5/26/11	1030
Received		QEA	5/26/11	1030
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 05-217

Initiated by: MV

Date Initiated: 5/26/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 3	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 13, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1106-075

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on June 8, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

Case Narrative

Samples were collected on June 7, 2011 and received by the laboratory on June 8, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PAHs EPA 8270D/SIM Analysis

Sample KCP4-SO-339-S-110607 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Sample MS/MSD pair had several recoveries fall outside of control limits due to a high sample concentration. The amount spiked is insufficient for meaningful MS/MSD recovery data. The SB/SBD pair extracted with this batch had all parameters in control, no further action was deemed necessary.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Total Metals EPA 6010B/6020/7471A Analysis

For samples prepared on June 13, 2011: Due to the high concentration of Copper and Zinc in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery for Copper was 104%. The Spike Blank recovery for Zinc was 103%.

The duplicate RPD for Nickel is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/Matrix Spike Duplicate RPD for copper is outside control limits due to matrix inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-339-S-110607**					
Laboratory ID:	06-075-01					
Naphthalene	**0.023**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
2-Methylnaphthalene	**0.021**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
1-Methylnaphthalene	**0.014**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthylene	**ND**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthene	**0.026**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Fluorene	**0.028**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Phenanthrene	**0.23**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Anthracene	**0.036**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Fluoranthene	**0.23**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Pyrene	**0.17**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]anthracene	**0.084**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Chrysene	**0.10**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[b]fluoranthene	**0.075**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo(j,k)fluoranthene	**0.063**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]pyrene	**0.072**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Indeno(1,2,3-c,d)pyrene	**0.050**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Dibenz[a,h]anthracene	**0.018**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[g,h,i]perylene	**0.060**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*33*	*43 - 109*				Q
Pyrene-d10	*47*	*38 - 128*				
Terphenyl-d14	*50*	*33 - 119*				

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-340-D-110607**					
Laboratory ID:	06-075-02					
Naphthalene	**0.023**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
2-Methylnaphthalene	**0.025**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
1-Methylnaphthalene	**0.015**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthylene	**ND**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthene	**0.029**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Fluorene	**0.030**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Phenanthrene	**0.24**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Anthracene	**0.036**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Fluoranthene	**0.24**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Pyrene	**0.19**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]anthracene	**0.090**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Chrysene	**0.11**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[b]fluoranthene	**0.083**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo(j,k)fluoranthene	**0.072**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]pyrene	**0.081**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Indeno(1,2,3-c,d)pyrene	**0.058**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Dibenz[a,h]anthracene	**0.021**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[g,h,i]perylene	**0.072**	0.0070	EPA 8270/SIM	6-9-11	6-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*43 - 109*				
Pyrene-d10	*70*	*38 - 128*				
Terphenyl-d14	*74*	*33 - 119*				

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**KCP4-SO-341-S-110607**					
Laboratory ID:	06-075-03					
Naphthalene	**0.011**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
2-Methylnaphthalene	**0.012**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
1-Methylnaphthalene	**ND**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthylene	**ND**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthene	**0.010**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Fluorene	**0.012**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Phenanthrene	**0.073**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Anthracene	**0.016**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Fluoranthene	**0.064**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Pyrene	**0.051**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]anthracene	**0.026**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Chrysene	**0.029**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[b]fluoranthene	**0.022**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Benzo(j,k)fluoranthene	**0.017**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]pyrene	**0.021**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Indeno(1,2,3-c,d)pyrene	**0.010**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Dibenz[a,h]anthracene	**ND**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[g,h,i]perylene	**0.018**	0.0068	EPA 8270/SIM	6-9-11	6-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*53*	*43 - 109*				
Pyrene-d10	*74*	*38 - 128*				
Terphenyl-d14	*78*	*33 - 119*				

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0609S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Fluorene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Anthracene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Pyrene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Chrysene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	6-9-11	6-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*67*	*43 - 109*				
Pyrene-d10	*72*	*38 - 128*				
Terphenyl-d14	*74*	*33 - 119*				

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

PAHs by EPA 8270D/SIM
MS/MSD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	06-075-01										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0569**	**0.0670**	0.0833	0.0833	0.0220	42	54	39 - 110	16	21	
Acenaphthylene	**0.0465**	**0.0543**	0.0833	0.0833	ND	56	65	47 - 124	15	21	
Acenaphthene	**0.0682**	**0.0845**	0.0833	0.0833	0.0244	53	72	50 - 120	21	20	A,L
Fluorene	**0.0761**	**0.0937**	0.0833	0.0833	0.0271	59	80	52 - 126	21	21	
Phenanthrene	**0.263**	**0.364**	0.0833	0.0833	0.222	49	170	41 - 130	32	22	A,I,L
Anthracene	**0.0943**	**0.123**	0.0833	0.0833	0.0339	73	107	48 - 124	26	23	A,L
Fluoranthene	**0.276**	**0.381**	0.0833	0.0833	0.215	73	199	40 - 137	32	23	A,I,L
Pyrene	**0.224**	**0.305**	0.0833	0.0833	0.165	71	168	36 - 139	31	23	A,I,L
Benzo[a]anthracene	**0.142**	**0.187**	0.0833	0.0833	0.0797	75	129	43 - 127	27	21	A,I,L
Chrysene	**0.158**	**0.206**	0.0833	0.0833	0.0970	73	131	41 - 133	26	19	A,L
Benzo[b]fluoranthene	**0.138**	**0.171**	0.0833	0.0833	0.0710	80	120	40 - 132	21	25	
Benzo(j,k)fluoranthene	**0.121**	**0.147**	0.0833	0.0833	0.0600	73	104	35 - 132	19	25	
Benzo[a]pyrene	**0.126**	**0.165**	0.0833	0.0833	0.0687	69	116	37 - 131	27	26	A,L
Indeno(1,2,3-c,d)pyrene	**0.125**	**0.157**	0.0833	0.0833	0.0476	93	131	39 - 134	23	23	
Dibenz[a,h]anthracene	**0.0957**	**0.101**	0.0833	0.0833	0.0172	94	101	40 - 137	5	21	
Benzo[g,h,i]perylene	**0.135**	**0.167**	0.0833	0.0833	0.0575	93	131	35 - 135	21	22	
Surrogate:											
2-Fluorobiphenyl						*47*	*55*	*43 - 109*			
Pyrene-d10						*69*	*76*	*38 - 128*			
Terphenyl-d14						*73*	*81*	*33 - 119*			

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

PAHs by EPA 8270D/SIM
SB/SBD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0609S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0627**	**0.0582**	0.0833	0.0833	75	70	43 - 108	7	27	
Acenaphthylene	**0.0684**	**0.0613**	0.0833	0.0833	82	74	52 - 120	11	21	
Acenaphthene	**0.0666**	**0.0604**	0.0833	0.0833	80	73	59 - 113	10	17	
Fluorene	**0.0654**	**0.0625**	0.0833	0.0833	79	75	64 - 117	5	14	
Phenanthrene	**0.0641**	**0.0615**	0.0833	0.0833	77	74	67 - 112	4	12	
Anthracene	**0.0714**	**0.0685**	0.0833	0.0833	86	82	59 - 110	4	16	
Fluoranthene	**0.0706**	**0.0686**	0.0833	0.0833	85	82	68 - 120	3	15	
Pyrene	**0.0684**	**0.0649**	0.0833	0.0833	82	78	69 - 121	5	17	
Benzo[a]anthracene	**0.0694**	**0.0671**	0.0833	0.0833	83	81	63 - 114	3	12	
Chrysene	**0.0709**	**0.0693**	0.0833	0.0833	85	83	67 - 118	2	12	
Benzo[b]fluoranthene	**0.0671**	**0.0640**	0.0833	0.0833	81	77	58 - 125	5	20	
Benzo(j,k)fluoranthene	**0.0694**	**0.0641**	0.0833	0.0833	83	77	42 - 134	8	26	
Benzo[a]pyrene	**0.0643**	**0.0613**	0.0833	0.0833	77	74	55 - 111	5	19	
Indeno(1,2,3-c,d)pyrene	**0.0797**	**0.0774**	0.0833	0.0833	96	93	60 - 125	3	20	
Dibenz[a,h]anthracene	**0.0798**	**0.0780**	0.0833	0.0833	96	94	62 - 125	2	19	
Benzo[g,h,i]perylene	**0.0800**	**0.0779**	0.0833	0.0833	96	94	61 - 124	3	19	
Surrogate:										
2-Fluorobiphenyl					*72*	*66*	*43 - 109*			
Pyrene-d10					*78*	*76*	*38 - 128*			
Terphenyl-d14					*76*	*74*	*33 - 119*			

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-04					
Client ID:	**KCP4-SO-342-B-110607**					
Antimony	**ND**	5.3	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**20**	0.53	6010B	6-8-11	6-8-11	
Copper	**23**	1.1	6010B	6-9-11	6-9-11	
Lead	**ND**	5.3	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.27	7471A	6-9-11	6-9-11	
Nickel	**41**	2.7	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.7	6020	6-9-11	6-9-11	
Zinc	**30**	2.7	6010B	6-8-11	6-8-11	
Lab ID:	06-075-05					
Client ID:	**KCP4-SO-343-D-110607**					
Antimony	**ND**	5.4	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**18**	0.54	6010B	6-8-11	6-8-11	
Copper	**17**	1.1	6010B	6-9-11	6-9-11	
Lead	**ND**	5.4	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.27	7471A	6-9-11	6-9-11	
Nickel	**39**	2.7	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.7	6020	6-9-11	6-9-11	
Zinc	**24**	2.7	6010B	6-8-11	6-8-11	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-06					
Client ID:	**KCP4-SO-344-B-110607**					
Antimony	**27**	5.6	6010B	6-8-11	6-8-11	
Arsenic	**38**	11	6010B	6-8-11	6-8-11	
Chromium	**110**	0.56	6010B	6-8-11	6-8-11	
Copper	**110**	1.1	6010B	6-9-11	6-9-11	
Lead	**310**	5.6	6010B	6-8-11	6-8-11	
Mercury	**0.62**	0.28	7471A	6-9-11	6-9-11	
Nickel	**68**	2.8	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.8	6020	6-9-11	6-9-11	
Zinc	**510**	2.8	6010B	6-8-11	6-8-11	
Lab ID:	06-075-07					
Client ID:	**KCP4-SO-345-B-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**21**	0.52	6010B	6-8-11	6-8-11	
Copper	**16**	1.0	6010B	6-9-11	6-9-11	
Lead	**ND**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**42**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**33**	2.6	6010B	6-8-11	6-8-11	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-08					
Client ID:	**KCP4-SO-346-S-110607**					
Antimony	**ND**	5.3	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**77**	0.53	6010B	6-8-11	6-8-11	
Copper	**85**	1.1	6010B	6-9-11	6-9-11	
Lead	**16**	5.3	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**62**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**300**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-09					
Client ID:	**KCP4-SO-347-B-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**14**	0.52	6010B	6-8-11	6-8-11	
Copper	**41**	1.0	6010B	6-9-11	6-9-11	
Lead	**9.8**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**19**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**47**	2.6	6010B	6-8-11	6-8-11	

Date of Report: June 13, 2011
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Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-10					
Client ID:	**KCP4-SO-348-S-110607**					
Antimony	**ND**	5.3	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**24**	0.53	6010B	6-8-11	6-8-11	
Copper	**27**	1.1	6010B	6-9-11	6-9-11	
Lead	**5.5**	5.3	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**42**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**100**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-11					
Client ID:	**KCP4-SO-349-B-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**27**	0.52	6010B	6-8-11	6-8-11	
Copper	**30**	1.0	6010B	6-9-11	6-9-11	
Lead	**8.9**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**53**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**86**	2.6	6010B	6-8-11	6-8-11	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-12					
Client ID:	**KCP4-SO-350-S-110607**					
Antimony	**550**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**1100**	100	6010B	6-8-11	6-9-11	
Chromium	**98**	0.52	6010B	6-8-11	6-8-11	
Copper	**350**	1.0	6010B	6-9-11	6-9-11	
Lead	**480**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**66**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**1200**	26	6010B	6-8-11	6-9-11	
Lab ID:	06-075-13					
Client ID:	**KCP4-SO-351-B-110607**					
Antimony	**ND**	5.3	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**21**	0.53	6010B	6-8-11	6-8-11	
Copper	**26**	1.1	6010B	6-9-11	6-9-11	
Lead	**5.9**	5.3	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**39**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**100**	2.6	6010B	6-8-11	6-8-11	

Date of Report: June 13, 2011
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-14					
Client ID:	**KCP4-SO-352-B-110607**					
Antimony	**ND**	5.6	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**30**	0.56	6010B	6-8-11	6-8-11	
Copper	**70**	1.1	6010B	6-9-11	6-9-11	
Lead	**73**	5.6	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.28	7471A	6-9-11	6-9-11	
Nickel	**30**	2.8	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.8	6020	6-9-11	6-9-11	
Zinc	**70**	2.8	6010B	6-8-11	6-8-11	
Lab ID:	06-075-15					
Client ID:	**KCP4-SO-353-B-110607**					
Antimony	**ND**	5.8	6010B	6-8-11	6-8-11	
Arsenic	**ND**	12	6010B	6-8-11	6-8-11	
Chromium	**38**	0.58	6010B	6-8-11	6-8-11	
Copper	**95**	1.2	6010B	6-9-11	6-9-11	
Lead	**140**	5.8	6010B	6-8-11	6-8-11	
Mercury	**0.43**	0.29	7471A	6-9-11	6-9-11	
Nickel	**35**	2.9	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.9	6020	6-9-11	6-9-11	
Zinc	**120**	2.9	6010B	6-8-11	6-8-11	

Date of Report: June 13, 2011
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-16					
Client ID:	**KCP4-SO-354-S-110607**					
Antimony	**94**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**280**	10	6010B	6-8-11	6-8-11	
Chromium	**76**	0.52	6010B	6-8-11	6-8-11	
Copper	**920**	10	6010B	6-9-11	6-9-11	
Lead	**180**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**72**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**1700**	26	6010B	6-8-11	6-9-11	
Lab ID:	06-075-17					
Client ID:	**KCP4-SO-355-S-110607**					
Antimony	**5.4**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**16**	10	6010B	6-8-11	6-8-11	
Chromium	**43**	0.52	6010B	6-8-11	6-8-11	
Copper	**75**	1.0	6010B	6-9-11	6-9-11	
Lead	**18**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**49**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**200**	2.6	6010B	6-8-11	6-8-11	

Date of Report: June 13, 2011
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-18					
Client ID:	**KCP4-SO-356-S-110607**					
Antimony	**ND**	5.4	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**38**	0.54	6010B	6-8-11	6-8-11	
Copper	**83**	1.1	6010B	6-9-11	6-9-11	
Lead	**19**	5.4	6010B	6-8-11	6-8-11	
Mercury	**0.33**	0.27	7471A	6-9-11	6-9-11	
Nickel	**41**	2.7	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.7	6020	6-9-11	6-9-11	
Zinc	**270**	2.7	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-19					
Client ID:	**KCP4-SO-357-B-110607**					
Antimony	**7.8**	5.3	6010B	6-8-11	6-8-11	
Arsenic	**34**	11	6010B	6-8-11	6-8-11	
Chromium	**33**	0.53	6010B	6-8-11	6-8-11	
Copper	**120**	1.1	6010B	6-9-11	6-9-11	
Lead	**29**	5.3	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.27	7471A	6-9-11	6-9-11	
Nickel	**94**	2.7	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.7	6020	6-9-11	6-9-11	
Zinc	**370**	2.7	6010B	6-8-11	6-8-11	
Lab ID:	06-075-20					
Client ID:	**KCP4-SO-358-S-110607**					
Antimony	**25**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**110**	10	6010B	6-8-11	6-8-11	
Chromium	**58**	0.52	6010B	6-8-11	6-8-11	
Copper	**260**	1.0	6010B	6-9-11	6-9-11	
Lead	**130**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**58**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**1100**	26	6010B	6-8-11	6-9-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-21					
Client ID:	**KCP4-SO-359-S-110607**					
Antimony	**11**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**46**	10	6010B	6-8-11	6-8-11	
Chromium	**37**	0.52	6010B	6-8-11	6-8-11	
Copper	**100**	1.0	6010B	6-9-11	6-9-11	
Lead	**45**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**37**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**510**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-22					
Client ID:	**KCP4-SO-360-S-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**34**	0.52	6010B	6-8-11	6-8-11	
Copper	**110**	1.0	6010B	6-9-11	6-9-11	
Lead	**6.3**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**37**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**100**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-23					
Client ID:	**KCP4-SO-361-S-110607**					
Antimony	**ND**	5.1	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**20**	0.51	6010B	6-8-11	6-8-11	
Copper	**21**	1.0	6010B	6-9-11	6-9-11	
Lead	**ND**	5.1	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**55**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**37**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-24					
Client ID:	**KCP4-SO-362-B-110607**					
Antimony	**12**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**54**	10	6010B	6-8-11	6-8-11	
Chromium	**100**	0.52	6010B	6-8-11	6-8-11	
Copper	**72**	1.0	6010B	6-9-11	6-9-11	
Lead	**17**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**95**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**500**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-25					
Client ID:	**KCP4-SO-363-B-110607**					
Antimony	**ND**	5.1	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**31**	0.51	6010B	6-8-11	6-8-11	
Copper	**28**	1.0	6010B	6-9-11	6-9-11	
Lead	**5.5**	5.1	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**37**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**37**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-26					
Client ID:	**KCP4-SO-364-D-110607**					
Antimony	**ND**	5.1	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**22**	0.51	6010B	6-8-11	6-8-11	
Copper	**32**	1.0	6010B	6-9-11	6-9-11	
Lead	**6.4**	5.1	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**47**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**38**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-27					
Client ID:	**KCP4-SO-365-B-110607**					
Antimony	**ND**	5.1	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**19**	0.51	6010B	6-8-11	6-8-11	
Copper	**22**	1.0	6010B	6-9-11	6-9-11	
Lead	**ND**	5.1	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**36**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**34**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-28					
Client ID:	**KCP4-SO-366-B-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**31**	0.52	6010B	6-8-11	6-8-11	
Copper	**37**	1.0	6010B	6-9-11	6-9-11	
Lead	**6.8**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**68**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**84**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-29					
Client ID:	**KCP4-SO-367-S-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**14**	10	6010B	6-8-11	6-8-11	
Chromium	**41**	0.52	6010B	6-8-11	6-8-11	
Copper	**78**	1.0	6010B	6-9-11	6-9-11	
Lead	**11**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**54**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**250**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-30					
Client ID:	**KCP4-SO-368-B-110607**					
Antimony	**ND**	5.4	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**42**	0.54	6010B	6-8-11	6-8-11	
Copper	**69**	1.1	6010B	6-9-11	6-9-11	
Lead	**14**	5.4	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.27	7471A	6-9-11	6-9-11	
Nickel	**54**	2.7	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.7	6020	6-9-11	6-9-11	
Zinc	**300**	2.7	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-31					
Client ID:	**KCP4-SO-369-D-110607**					
Antimony	**ND**	5.4	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**36**	0.54	6010B	6-8-11	6-8-11	
Copper	**75**	1.1	6010B	6-9-11	6-9-11	
Lead	**16**	5.4	6010B	6-8-11	6-8-11	
Mercury	**0.42**	0.27	7471A	6-9-11	6-9-11	
Nickel	**48**	2.7	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.7	6020	6-9-11	6-9-11	
Zinc	**250**	2.7	6010B	6-8-11	6-8-11	
Lab ID:	06-075-32					
Client ID:	**KCP4-SO-370-B-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**35**	0.52	6010B	6-8-11	6-8-11	
Copper	**29**	1.0	6010B	6-9-11	6-9-11	
Lead	**ND**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**110**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**120**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-33					
Client ID:	**KCP4-SO-371-B-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**36**	0.52	6010B	6-8-11	6-8-11	
Copper	**67**	1.0	6010B	6-9-11	6-9-11	
Lead	**13**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**43**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**120**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-34					
Client ID:	**KCP4-SO-372-B-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**32**	0.52	6010B	6-8-11	6-8-11	
Copper	**50**	1.0	6010B	6-9-11	6-9-11	
Lead	**9.1**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**45**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**110**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-35					
Client ID:	**KCP4-SO-373-S-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**33**	0.52	6010B	6-8-11	6-8-11	
Copper	**55**	1.0	6010B	6-9-11	6-9-11	
Lead	**ND**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**36**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**100**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-36					
Client ID:	**KCP4-SO-374-S-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**30**	0.52	6010B	6-8-11	6-8-11	
Copper	**73**	1.0	6010B	6-9-11	6-9-11	
Lead	**6.0**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**31**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**89**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-37					
Client ID:	**KCP4-SO-375-S-110607**					
Antimony	**7.1**	5.1	6010B	6-8-11	6-8-11	
Arsenic	**22**	10	6010B	6-8-11	6-8-11	
Chromium	**54**	0.51	6010B	6-8-11	6-8-11	
Copper	**87**	1.0	6010B	6-9-11	6-9-11	
Lead	**13**	5.1	6010B	6-8-11	6-8-11	
Mercury	**0.27**	0.26	7471A	6-9-11	6-9-11	
Nickel	**63**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**270**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-38					
Client ID:	**KCP4-SO-376-S-110607**					
Antimony	**5.4**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**16**	10	6010B	6-8-11	6-8-11	
Chromium	**55**	0.52	6010B	6-8-11	6-8-11	
Copper	**94**	1.0	6010B	6-9-11	6-9-11	
Lead	**13**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**62**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**250**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-39					
Client ID:	**KCP4-SO-377-S-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**ND**	10	6010B	6-8-11	6-8-11	
Chromium	**33**	0.52	6010B	6-8-11	6-8-11	
Copper	**96**	1.0	6010B	6-9-11	6-9-11	
Lead	**11**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**35**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**120**	2.6	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-40					
Client ID:	**KCP4-SO-378-S-110607**					
Antimony	**ND**	5.2	6010B	6-8-11	6-8-11	
Arsenic	**15**	10	6010B	6-8-11	6-8-11	
Chromium	**37**	0.52	6010B	6-8-11	6-8-11	
Copper	**97**	1.0	6010B	6-9-11	6-9-11	
Lead	**15**	5.2	6010B	6-8-11	6-8-11	
Mercury	**ND**	0.26	7471A	6-9-11	6-9-11	
Nickel	**35**	2.6	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.6	6020	6-9-11	6-9-11	
Zinc	**180**	2.6	6010B	6-8-11	6-8-11	
Lab ID:	06-075-41					
Client ID:	**KCP4-SO-379-B-110607**					
Antimony	**ND**	5.3	6010B	6-8-11	6-8-11	
Arsenic	**ND**	11	6010B	6-8-11	6-8-11	
Chromium	**45**	0.53	6010B	6-8-11	6-8-11	
Copper	**85**	1.1	6010B	6-9-11	6-9-11	
Lead	**380**	5.3	6010B	6-8-11	6-8-11	
Mercury	**0.48**	0.27	7471A	6-9-11	6-9-11	
Nickel	**60**	2.7	6010B	6-8-11	6-8-11	
Thallium	**ND**	2.7	6020	6-9-11	6-9-11	
Zinc	**140**	2.7	6010B	6-8-11	6-8-11	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-8&9-11
Date Analyzed:	6-8&9-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0608S4,MB0609S1&MB0609S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-8&9-11
Date Analyzed:	6-8&9-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0608S5,MB0609S2&MB0609S4

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 6-8&9-11
Date Analyzed: 6-8&9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-075-04

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**18.9**	**17.4**	8	0.50	
Copper	**21.4**	**19.3**	10	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**38.6**	**36.6**	5	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**27.9**	**28.0**	0	2.5	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 6-8&9-11
Date Analyzed: 6-8&9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-075-41

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**6.12**	NA	5.0	
Arsenic	**ND**	**11.0**	NA	10	
Chromium	**42.3**	**41.7**	1	0.50	
Copper	**80.2**	**71.4**	12	1.0	
Lead	**356**	**371**	4	5.0	
Mercury	**0.446**	**0.493**	10	0.25	
Nickel	**56.1**	**56.3**	0	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**130**	**147**	13	2.5	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 6-8&9-11
Date Analyzed: 6-8&9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-075-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.3**	91	**92.5**	92	1	
Arsenic	100	**94.2**	94	**94.4**	94	0	
Chromium	100	**115**	96	**120**	101	4	
Copper	50.0	**69.1**	95	**67.4**	92	3	
Lead	250	**224**	90	**225**	90	1	
Mercury	0.500	**0.497**	99	**0.499**	100	0	
Nickel	100	**136**	97	**137**	99	1	
Thallium	50.0	**51.8**	104	**51.1**	102	2	
Zinc	100	**126**	99	**127**	99	0	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 6-8&9-11
Date Analyzed: 6-8&9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-075-41

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**95.3**	95	**93.9**	94	2	
Arsenic	100	**102**	102	**102**	102	0	
Chromium	100	**137**	95	**136**	94	0	
Copper	50.0	**127**	94	**132**	103	4	
Lead	250	**580**	89	**589**	93	2	
Mercury	0.500	**1.01**	113	**1.00**	112	0	
Nickel	100	**147**	91	**152**	96	4	
Thallium	50.0	**53.2**	106	**53.5**	107	0	
Zinc	100	**234**	104	**230**	100	2	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 6-8&9-11
Date Analyzed: 6-8&9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0608S4,SB0609S1&SB0609S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**94.5**	94
Arsenic	6010B	100	**93.2**	93
Chromium	6010B	100	**100**	100
Copper	6010B	50.0	**49.1**	98
Lead	6010B	250	**239**	95
Mercury	7471A	0.500	**0.489**	98
Nickel	6010B	100	**99.7**	100
Thallium	6020	50.0	**51.7**	103
Zinc	6010B	100	**101**	101

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 6-8&9-11
Date Analyzed: 6-8&9-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0608S5,SB0609S2&SB0609S4

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**97.0**	97
Arsenic	6010B	100	**95.2**	95
Chromium	6010B	100	**100**	100
Copper	6010B	50.0	**51.2**	102
Lead	6010B	250	**234**	93
Mercury	7471A	0.500	**0.505**	101
Nickel	6010B	100	**101**	101
Thallium	6020	50.0	**49.3**	99
Zinc	6010B	100	**101**	101

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV4060811P	1.00	1.01	-1.0	+/- 10%
CCV4060811P	1.00	0.999	0.10	+/- 10%
CCV4060811P	1.00	1.02	-2.0	+/- 10%
CCV4060911P	1.00	1.02	-2.0	+/- 10%
CCV4060811P	10.0	10.3	-3.0	+/- 10%
CCV4060911P	0.00500	0.00519	-3.8	+/- 20%
CCV4060811P	1.00	1.01	-1.0	+/- 10%
CCV4060911E	0.0400	0.0416	-4.0	+/- 10%
CCV4060811P	1.00	1.02	-2.0	+/- 10%
CCV5060811P	1.00	0.991	0.90	+/- 10%
CCV5060811P	1.00	0.990	1.0	+/- 10%
CCV5060811P	1.00	1.01	-1.0	+/- 10%
CCV5060911P	1.00	1.03	-3.0	+/- 10%
CCV5060811P	10.0	10.2	-2.0	+/- 10%
CCV5060911Y	0.00500	0.00532	-6.4	+/- 20%
CCV5060811P	1.00	1.01	-1.0	+/- 10%
CCV5060911E	0.0400	0.0415	-3.8	+/- 10%
CCV5060811P	1.00	1.02	-2.0	+/- 10%
CCV6060811P	1.00	1.05	-5.0	+/- 10%
CCV6060811P	1.00	1.00	0	+/- 10%
CCV6060811P	1.00	1.03	-3.0	+/- 10%
CCV6060911P	1.00	1.04	-4.0	+/- 10%
CCV6060811P	10.0	10.3	-3.0	+/- 10%
CCV6060911Y	0.00500	0.00527	-5.4	+/- 20%
CCV6060811P	1.00	1.05	-5.0	+/- 10%
CCV6060911E	0.0400	0.0411	-2.7	+/- 10%
CCV6060811P	1.00	1.03	-3.0	+/- 10%
CCV7060811P	1.00	1.03	-3.0	+/- 10%
CCV7060811P	1.00	0.999	0.10	+/- 10%
CCV7060811P	1.00	1.04	-4.0	+/- 10%
CCV7060911P	1.00	1.03	-3.0	+/- 10%
CCV7060811P	10.0	10.4	-4.0	+/- 10%
CCV7060911P	0.00500	0.00509	-1.8	+/- 20%
CCV7060811P	1.00	1.06	-6.0	+/- 10%
CCV7060911E	0.0400	0.0419	-4.8	+/- 10%
CCV7060811P	1.00	1.03	-3.0	+/- 10%

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV8060811P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV8060811P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV8060811P	1.00	1.04	-4.0	+/- 10%
Lead	CCV8060811P	10.0	10.4	-4.0	+/- 10%
Nickel	CCV8060811P	1.00	1.07	-7.0	+/- 10%
Zinc	CCV8060811P	1.00	1.03	-3.0	+/- 10%
Antimony	CCV9060811P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV9060811P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV9060811P	1.00	1.04	-4.0	+/- 10%
Lead	CCV9060811P	10.0	10.4	-4.0	+/- 10%
Nickel	CCV9060811P	1.00	1.05	-5.0	+/- 10%
Zinc	CCV9060811P	1.00	1.04	-4.0	+/- 10%

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV060911P	1.00	0.970	3.0	+/- 10%
Lead	ICV060911P	1.00	1.06	-6.0	+/- 10%
Zinc	ICV060911P	1.00	0.996	0.40	+/- 10%
Arsenic	CCV1060911P	1.00	0.977	2.3	+/- 10%
Lead	CCV1060911P	10.0	10.0	0	+/- 10%
Zinc	CCV1060911P	1.00	0.999	0.10	+/- 10%
Arsenic	CCV2060911P	1.00	0.970	3.0	+/- 10%
Lead	CCV2060911P	10.0	10.2	-2.0	+/- 10%
Zinc	CCV2060911P	1.00	0.999	0.10	+/- 10%
Arsenic	CCV3060911P	1.00	0.953	4.7	+/- 10%
Lead	CCV3060911P	10.0	10.2	-2.0	+/- 10%
Zinc	CCV3060911P	1.00	1.00	0	+/- 10%
Lead	CCV4060911P	10.0	10.2	-2.0	+/- 10%
Lead	CCV5060911P	10.0	10.2	-2.0	+/- 10%

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-01					
Client ID:	**KCP4-SO-339-S-110607**					
Antimony	**11**	5.2	6010B	6-13-11	6-13-11	
Arsenic	**27**	10	6010B	6-13-11	6-13-11	
Chromium	**80**	0.52	6010B	6-13-11	6-13-11	
Copper	**220**	1.0	6010B	6-13-11	6-13-11	
Lead	**61**	5.2	6010B	6-13-11	6-13-11	
Mercury	**ND**	0.26	7471A	6-13-11	6-13-11	
Nickel	**66**	2.6	6010B	6-13-11	6-13-11	
Thallium	**ND**	2.6	6020	6-13-11	6-13-11	
Zinc	**820**	2.6	6010B	6-13-11	6-13-11	
Lab ID:	06-075-02					
Client ID:	**KCP4-SO-340-D-110607**					
Antimony	**8.5**	5.2	6010B	6-13-11	6-13-11	
Arsenic	**22**	10	6010B	6-13-11	6-13-11	
Chromium	**76**	0.52	6010B	6-13-11	6-13-11	
Copper	**190**	1.0	6010B	6-13-11	6-13-11	
Lead	**56**	5.2	6010B	6-13-11	6-13-11	
Mercury	**ND**	0.26	7471A	6-13-11	6-13-11	
Nickel	**53**	2.6	6010B	6-13-11	6-13-11	
Thallium	**ND**	2.6	6020	6-13-11	6-13-11	
Zinc	**720**	2.6	6010B	6-13-11	6-13-11	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-075-03					
Client ID:	**KCP4-SO-341-S-110607**					
Antimony	**ND**	5.1	6010B	6-13-11	6-13-11	
Arsenic	**12**	10	6010B	6-13-11	6-13-11	
Chromium	**69**	0.51	6010B	6-13-11	6-13-11	
Copper	**130**	1.0	6010B	6-13-11	6-13-11	
Lead	**20**	5.1	6010B	6-13-11	6-13-11	
Mercury	**ND**	0.26	7471A	6-13-11	6-13-11	
Nickel	**51**	2.6	6010B	6-13-11	6-13-11	
Thallium	**ND**	2.6	6020	6-13-11	6-13-11	
Zinc	**500**	2.6	6010B	6-13-11	6-13-11	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-13-11
Date Analyzed:	6-13-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0613S1,MB0613S2&MB0613S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 6-13-11
Date Analyzed: 6-13-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-075-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**8.16**	**9.04**	10	5.0	
Arsenic	**20.8**	**24.3**	16	10	
Chromium	**72.9**	**74.6**	2	0.50	
Copper	**186**	**198**	6	1.0	
Lead	**53.2**	**55.4**	4	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**50.5**	**68.2**	30	2.5	K
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**692**	**835**	19	2.5	

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 6-13-11
Date Analyzed: 6-13-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-075-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**85.8**	78	**99.9**	92	15	
Arsenic	100	**135**	114	**133**	112	1	
Chromium	100	**157**	85	**169**	96	7	
Copper	50.0	**410**	447	**317**	262	25	A,W
Lead	250	**263**	84	**286**	93	9	
Mercury	0.500	**0.503**	101	**0.498**	100	1	
Nickel	100	**169**	119	**160**	110	5	
Thallium	50.0	**51.3**	103	**49.7**	99	3	
Zinc	100	**741**	49	**852**	159	14	A

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 6-13-11
Date Analyzed: 6-13-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0613S1,SB0613S2&SB0613S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**98.1**	98
Arsenic	6010B	100	**97.0**	97
Chromium	6010B	100	**102**	102
Copper	6010B	50.0	**52.1**	104
Lead	6010B	250	**248**	99
Mercury	7471A	0.500	**0.524**	105
Nickel	6010B	100	**96.0**	96
Thallium	6020	50.0	**48.8**	98
Zinc	6010B	100	**103**	103

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV061311P	1.00	1.02	-2.0	+/- 10%
Arsenic	ICV061311P	1.00	1.03	-3.0	+/- 10%
Chromium	ICV061311P	1.00	1.07	-7.0	+/- 10%
Copper	ICV061311P	1.00	1.09	-9.0	+/- 10%
Lead	ICV061311P	1.00	1.04	-4.0	+/- 10%
Mercury	ICV061311Y	0.00500	0.00523	-4.6	+/- 10%
Nickel	ICV061311P	1.00	1.05	-5.0	+/- 10%
Thallium	ICV061311E	0.0500	0.0529	-5.8	+/- 10%
Zinc	ICV061311P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV1061311P	1.00	1.05	-5.0	+/- 10%
Arsenic	CCV1061311P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV1061311P	1.00	1.05	-5.0	+/- 10%
Copper	CCV1061311P	1.00	1.05	-5.0	+/- 10%
Lead	CCV1061311P	10.0	10.6	-6.0	+/- 10%
Mercury	CCV1061311Y	0.00500	0.00512	-2.4	+/- 20%
Nickel	CCV1061311P	1.00	1.00	0	+/- 10%
Thallium	CCV1061311E	0.0400	0.0418	-4.5	+/- 10%
Zinc	CCV1061311P	1.00	1.04	-4.0	+/- 10%
Antimony	CCV2061311P	1.00	1.05	-5.0	+/- 10%
Arsenic	CCV2061311P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV2061311P	1.00	1.06	-6.0	+/- 10%
Copper	CCV2061311P	1.00	1.08	-8.0	+/- 10%
Lead	CCV2061311P	10.0	10.7	-7.0	+/- 10%
Mercury	CCV2061311Y	0.00500	0.00522	-4.4	+/- 20%
Nickel	CCV2061311P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV2061311E	0.0400	0.0414	-3.5	+/- 10%
Zinc	CCV2061311P	1.00	1.07	-7.0	+/- 10%

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3061311P	1.00	1.07	-7.0	+/- 10%
Arsenic	CCV3061311P	1.00	1.08	-8.0	+/- 10%
Chromium	CCV3061311P	1.00	1.07	-7.0	+/- 10%
Copper	CCV3061311P	1.00	1.06	-6.0	+/- 10%
Lead	CCV3061311P	10.0	10.8	-8.0	+/- 10%
Mercury	CCV3061311Y	0.00500	0.00525	-5.0	+/- 20%
Nickel	CCV3061311P	1.00	1.01	-1.0	+/- 10%
Thallium	CCV3061311E	0.0400	0.0416	-4.0	+/- 10%
Zinc	CCV3061311P	1.00	1.07	-7.0	+/- 10%
Arsenic	CCV4061311P	1.00	1.07	-7.0	+/- 10%
Copper	CCV3061311P	1.00	1.07	-7.0	+/- 10%
Nickel	CCV4061311P	1.00	1.01	-1.0	+/- 10%

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

% MOISTURE

Date Analyzed: 6-8&9-11

Client ID	Lab ID	% Moisture
KCP4-SO-339-S-110607	06-075-01	5
KCP4-SO-340-D-110607	06-075-02	4
KCP4-SO-341-S-110607	06-075-03	2
KCP4-SO-342-B-110607	06-075-04	6
KCP4-SO-343-D-110607	06-075-05	7
KCP4-SO-344-B-110607	06-075-06	11
KCP4-SO-345-B-110607	06-075-07	4
KCP4-SO-346-S-110607	06-075-08	5
KCP4-SO-347-B-110607	06-075-09	3
KCP4-SO-348-S-110607	06-075-10	6
KCP4-SO-349-B-110607	06-075-11	4
KCP4-SO-350-S-110607	06-075-12	4
KCP4-SO-351-B-110607	06-075-13	5
KCP4-SO-352-B-110607	06-075-14	10
KCP4-SO-353-B-110607	06-075-15	13
KCP4-SO-354-S-110607	06-075-16	4
KCP4-SO-355-S-110607	06-075-17	5
KCP4-SO-356-S-110607	06-075-18	8
KCP4-SO-357-B-110607	06-075-19	6
KCP4-SO-358-S-110607	06-075-20	4
KCP4-SO-359-S-110607	06-075-21	5
KCP4-SO-360-S-110607	06-075-22	4
KCP4-SO-361-S-110607	06-075-23	2
KCP4-SO-362-B-110607	06-075-24	3
KCP4-SO-363-B-110607	06-075-25	2
KCP4-SO-364-D-110607	06-075-26	2
KCP4-SO-365-B-110607	06-075-27	3

Date of Report: June 13, 2011
Samples Submitted: June 8, 2011
Laboratory Reference: 1106-075
Project: 000105-01.09

% MOISTURE

Date Analyzed: 6-8-11

Client ID	Lab ID	% Moisture
KCP4-SO-366-B-110607	06-075-28	4
KCP4-SO-367-S-110607	06-075-29	4
KCP4-SO-368-B-110607	06-075-30	7
KCP4-SO-369-D-110607	06-075-31	7
KCP4-SO-370-B-110607	06-075-32	5
KCP4-SO-371-B-110607	06-075-33	4
KCP4-SO-372-B-110607	06-075-34	3
KCP4-SO-373-S-110607	06-075-35	4
KCP4-SO-374-S-110607	06-075-36	3
KCP4-SO-375-S-110607	06-075-37	3
KCP4-SO-376-S-110607	06-075-38	4
KCP4-SO-377-S-110607	06-075-39	4
KCP4-SO-378-S-110607	06-075-40	4
KCP4-SO-379-B-110607	06-075-41	6

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-075

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	*Metals						% Moisture
1	KCP4-SO-339-S-110607	6/7/11	1152	SO	1								X								⊗						
2	KCP4-SO-340-D-110607		1154		1								X								⊗						
3	KCP4-SO-341-S-110607		1156		1								X								⊗						
4	KCP4-SO-342-B-110607		1240		1																X						
5	KCP4-SO-343-D-110607		1242		1																X						
6	KCP4-SO-344-B-110607		1252		1																X						
7	KCP4-SO-345-B-110607		1335		1																X						
8	KCP4-SO-346-S-110607		1340		1																X						
9	KCP4-SO-347-B-110607		1342		1																X						
10	KCP4-SO-348-S-110607		1347		1																X						

	Signature	Company	Date	Time
Relinquished	Liz Vonckx	Anchor QEA	6/8/11	0935
Received		QEA	6/8/11	0935
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn
⊗ Added 6/10/11. DB (1 day TAT)

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
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Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☑ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-075

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals#						% Moisture
11	KCP4-SO-349-B-110607	6/7/11	1349	SO	1																X						
12	KCP4-SO-350-S-110607		1402																		X						
13	KCP4-SO-351-B-110607		1408																		X						
14	KCP4-SO-352-B-110607		1445																		X						
15	KCP4-SO-353-B-110607		1448																		X						
16	KCP4-SO-354-S-110607		1454																		X						
17	KCP4-SO-355-S-110607		1458																		X						
18	KCP4-SO-356-S-110607		1505																		X						
19	KCP4-SO-357-B-110607		1535																		X						
20	KCP4-SO-358-S-110607		1540																		X						

	Signature	Company	Date	Time
Relinquished	[signature]	AnchorQEA	6/8/11	0935
Received	[signature]	QEA	6/8/11	0935
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
#Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

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Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-075

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	*Metals	% Moisture
21	KCP4-SO-359-S-110607	6/7/11	1542	SO	1																X	
22	KCP4-SO-360-S-110607		1544		1																X	
23	KCP4-SO-361-S-110607		1554																		X	
24	KCP4-SO-362-B-110607		1558																		X	
25	KCP4-SO-363-B-110607		1602																		X	
26	KCP4-SO-364-D-110607		1605																		X	
27	KCP4-SO-365-B-110607		1608																		X	
28	KCP4-SO-366-B-110607		1620																		X	
29	KCP4-SO-367-S-110607		1624																		X	
30	KCP4-SO-368-B-110607		1640																		X	

	Signature	Company	Date	Time
Relinquished	[signature]	Anchor QEA	6/8/11	0935
Received	[signature]	[illegible]	6/8/11	0935
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
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Laboratory Number: 06-075

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Project Name: KC Phase 4
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Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	* Metals						% Moisture
31	KCP4-SO-369-D-110607	6/7/11	1641	SO	1																X						
32	KCP4-SO-370-B-110607		1643																		X						
33	KCP4-SO-371-B-110607		1648																		X						
34	KCP4-SO-372-B-110607		1650																		X						
35	KCP4-SO-373-S-110607		1652																		X						
36	KCP4-SO-374-S-110607		1655																		X						
37	KCP4-SO-375-S-110607		1658																		X						
38	KCP4-SO-376-S-110607		1700																		X						
39	KCP4-SO-377-S-110607		1705																		X						
40	KCP4-SO-378-S-110607		1710																		X						

	Signature	Company	Date	Time
Relinquished	Liz Vonckx	Anchor QEA	6/8/11	0935
Received		QEA	6/8/11	0935
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
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Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 06-075

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	* Metals						% Moisture
41	KCP4-SO-379-B-110607	6/7/11	1712	SO	1																X						X

	Signature	Company	Date	Time
Relinquished	[signature]	Anchor QEA	6/8/11	0935
Received	[signature]	QEA	6/8/11	0935
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 06-075

Initiated by: MV

Date Initiated: 6/8/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 0	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

2.4) Sample 41) KCP4-SO-379-B-11060 6/7/11 1712 on COC 3795 on lid & label

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 16, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1106-117

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on June 14, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

Case Narrative

Samples were collected on June 14, 2011 and received by the laboratory on June 14, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-01					
Client ID:	**KCP4-SO-380-S-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**26**	0.52	6010B	6-15-11	6-15-11	
Copper	**47**	1.0	6010B	6-15-11	6-15-11	
Lead	**ND**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**34**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**67**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-02					
Client ID:	**KCP4-SO-381-S-110614**					
Antimony	**ND**	5.3	6010B	6-15-11	6-15-11	
Arsenic	**14**	11	6010B	6-15-11	6-15-11	
Chromium	**33**	0.53	6010B	6-15-11	6-15-11	
Copper	**72**	1.1	6010B	6-15-11	6-15-11	
Lead	**12**	5.3	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.27	7471A	6-15-11	6-15-11	
Nickel	**46**	2.7	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.7	6020	6-15-11	6-16-11	
Zinc	**160**	2.7	6010B	6-15-11	6-15-11	

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-03					
Client ID:	**KCP4-SO-382-S-110614**					
Antimony	**11**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**65**	10	6010B	6-15-11	6-15-11	
Chromium	**42**	0.52	6010B	6-15-11	6-15-11	
Copper	**200**	1.0	6010B	6-15-11	6-15-11	
Lead	**47**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**49**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**580**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-04					
Client ID:	**KCP4-SO-383-S-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**23**	10	6010B	6-15-11	6-15-11	
Chromium	**33**	0.52	6010B	6-15-11	6-15-11	
Copper	**100**	1.0	6010B	6-15-11	6-15-11	
Lead	**20**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**51**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**280**	2.6	6010B	6-15-11	6-15-11	

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-05					
Client ID:	**KCP4-SO-384-S-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**13**	10	6010B	6-15-11	6-15-11	
Chromium	**41**	0.52	6010B	6-15-11	6-15-11	
Copper	**190**	1.0	6010B	6-15-11	6-15-11	
Lead	**8.8**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**41**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**160**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-06					
Client ID:	**KCP4-SO-385-B-110614**					
Antimony	**ND**	5.3	6010B	6-15-11	6-15-11	
Arsenic	**ND**	11	6010B	6-15-11	6-15-11	
Chromium	**76**	0.53	6010B	6-15-11	6-15-11	
Copper	**25**	1.1	6010B	6-15-11	6-15-11	
Lead	**ND**	5.3	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.27	7471A	6-15-11	6-15-11	
Nickel	**37**	2.7	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.7	6020	6-15-11	6-16-11	
Zinc	**32**	2.7	6010B	6-15-11	6-15-11	

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-07					
Client ID:	**KCP4-SO-386-D-110614**					
Antimony	**ND**	5.3	6010B	6-15-11	6-15-11	
Arsenic	**ND**	11	6010B	6-15-11	6-15-11	
Chromium	**19**	0.53	6010B	6-15-11	6-15-11	
Copper	**22**	1.1	6010B	6-15-11	6-15-11	
Lead	**ND**	5.3	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**37**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**27**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-08					
Client ID:	**KCP4-SO-387-B-110614**					
Antimony	**ND**	5.3	6010B	6-15-11	6-15-11	
Arsenic	**ND**	11	6010B	6-15-11	6-15-11	
Chromium	**18**	0.53	6010B	6-15-11	6-15-11	
Copper	**20**	1.1	6010B	6-15-11	6-15-11	
Lead	**ND**	5.3	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**41**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**29**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-09					
Client ID:	**KCP4-SO-388-B-110614**					
Antimony	**ND**	5.4	6010B	6-15-11	6-15-11	
Arsenic	**ND**	11	6010B	6-15-11	6-15-11	
Chromium	**16**	0.54	6010B	6-15-11	6-15-11	
Copper	**22**	1.1	6010B	6-15-11	6-15-11	
Lead	**ND**	5.4	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.27	7471A	6-15-11	6-15-11	
Nickel	**38**	2.7	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.7	6020	6-15-11	6-16-11	
Zinc	**31**	2.7	6010B	6-15-11	6-15-11	
Lab ID:	06-117-10					
Client ID:	**KCP4-SO-389-B-110614**					
Antimony	**ND**	5.3	6010B	6-15-11	6-15-11	
Arsenic	**ND**	11	6010B	6-15-11	6-15-11	
Chromium	**17**	0.53	6010B	6-15-11	6-15-11	
Copper	**22**	1.1	6010B	6-15-11	6-15-11	
Lead	**ND**	5.3	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.27	7471A	6-15-11	6-15-11	
Nickel	**38**	2.7	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.7	6020	6-15-11	6-16-11	
Zinc	**27**	2.7	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-11					
Client ID:	**KCP4-SO-390-S-110614**					
Antimony	**ND**	5.1	6010B	6-15-11	6-15-11	
Arsenic	**12**	10	6010B	6-15-11	6-15-11	
Chromium	**35**	0.51	6010B	6-15-11	6-15-11	
Copper	**89**	1.0	6010B	6-15-11	6-15-11	
Lead	**12**	5.1	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**45**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**470**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-12					
Client ID:	**KCP4-SO-391-S-110614**					
Antimony	**8.1**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**45**	10	6010B	6-15-11	6-15-11	
Chromium	**76**	0.52	6010B	6-15-11	6-15-11	
Copper	**200**	1.0	6010B	6-15-11	6-15-11	
Lead	**43**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**73**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**940**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-13					
Client ID:	**KCP4-SO-392-S-110614**					
Antimony	**ND**	5.3	6010B	6-15-11	6-15-11	
Arsenic	**ND**	11	6010B	6-15-11	6-15-11	
Chromium	**33**	0.53	6010B	6-15-11	6-15-11	
Copper	**84**	1.1	6010B	6-15-11	6-15-11	
Lead	**10**	5.3	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**46**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**160**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-14					
Client ID:	**KCP4-SO-393-D-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**37**	0.52	6010B	6-15-11	6-15-11	
Copper	**88**	1.0	6010B	6-15-11	6-15-11	
Lead	**9.1**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**43**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**140**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-15					
Client ID:	**KCP4-SO-394-B-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**12**	10	6010B	6-15-11	6-15-11	
Chromium	**34**	0.52	6010B	6-15-11	6-15-11	
Copper	**72**	1.0	6010B	6-15-11	6-15-11	
Lead	**14**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**50**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**160**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-16					
Client ID:	**KCP4-SO-395-S-110614**					
Antimony	**24**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**150**	10	6010B	6-15-11	6-15-11	
Chromium	**41**	0.52	6010B	6-15-11	6-16-11	
Copper	**400**	1.0	6010B	6-15-11	6-16-11	
Lead	**100**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**57**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**1400**	26	6010B	6-15-11	6-15-11	
Lab ID:	06-117-17					
Client ID:	**KCP4-SO-396-S-110614**					
Antimony	**9.7**	5.1	6010B	6-15-11	6-15-11	
Arsenic	**44**	10	6010B	6-15-11	6-15-11	
Chromium	**87**	0.51	6010B	6-15-11	6-16-11	
Copper	**140**	1.0	6010B	6-15-11	6-16-11	
Lead	**33**	5.1	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**81**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**590**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-18					
Client ID:	**KCP4-SO-397-S-110614**					
Antimony	**5.4**	5.1	6010B	6-15-11	6-15-11	
Arsenic	**34**	10	6010B	6-15-11	6-15-11	
Chromium	**54**	0.51	6010B	6-15-11	6-16-11	
Copper	**130**	1.0	6010B	6-15-11	6-16-11	
Lead	**29**	5.1	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**63**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**450**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-19					
Client ID:	**KCP4-SO-398-B-110614**					
Antimony	**7.8**	5.4	6010B	6-15-11	6-15-11	
Arsenic	**24**	11	6010B	6-15-11	6-15-11	
Chromium	**75**	0.54	6010B	6-15-11	6-16-11	
Copper	**98**	1.1	6010B	6-15-11	6-16-11	
Lead	**140**	5.4	6010B	6-15-11	6-15-11	
Mercury	**0.47**	0.27	7471A	6-15-11	6-15-11	
Nickel	**58**	2.7	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.7	6020	6-15-11	6-16-11	
Zinc	**380**	2.7	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-20					
Client ID:	**KCP4-SO-399-S-110614**					
Antimony	**ND**	5.1	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**40**	0.51	6010B	6-15-11	6-16-11	
Copper	**84**	1.0	6010B	6-15-11	6-16-11	
Lead	**13**	5.1	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**44**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**150**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-21					
Client ID:	**KCP4-SO-400-S-110614**					
Antimony	**ND**	5.1	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**34**	0.51	6010B	6-15-11	6-16-11	
Copper	**86**	1.0	6010B	6-15-11	6-16-11	
Lead	**11**	5.1	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**40**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**140**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-22					
Client ID:	**KCP4-SO-401-B-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**27**	0.52	6010B	6-15-11	6-16-11	
Copper	**52**	1.0	6010B	6-15-11	6-16-11	
Lead	**14**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**25**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**75**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-23					
Client ID:	**KCP4-SO-402-D-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**24**	0.52	6010B	6-15-11	6-16-11	
Copper	**42**	1.0	6010B	6-15-11	6-16-11	
Lead	**14**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**24**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**57**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-24					
Client ID:	**KCP4-SO-403-S-110614**					
Antimony	**ND**	5.1	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**66**	0.51	6010B	6-15-11	6-16-11	
Copper	**100**	1.0	6010B	6-15-11	6-16-11	
Lead	**19**	5.1	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.25	7471A	6-15-11	6-15-11	
Nickel	**82**	2.5	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.5	6020	6-15-11	6-16-11	
Zinc	**310**	2.5	6010B	6-15-11	6-15-11	
Lab ID:	06-117-25					
Client ID:	**KCP4-SO-404-B-110614**					
Antimony	**ND**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**ND**	10	6010B	6-15-11	6-15-11	
Chromium	**23**	0.52	6010B	6-15-11	6-16-11	
Copper	**27**	1.0	6010B	6-15-11	6-16-11	
Lead	**ND**	5.2	6010B	6-15-11	6-15-11	
Mercury	**ND**	0.26	7471A	6-15-11	6-15-11	
Nickel	**47**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**60**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-117-26					
Client ID:	**KCP4-SO-405-SP-110614**					
Antimony	**21**	5.3	6010B	6-15-11	6-15-11	
Arsenic	**32**	11	6010B	6-15-11	6-15-11	
Chromium	**85**	0.53	6010B	6-15-11	6-16-11	
Copper	**110**	1.1	6010B	6-15-11	6-16-11	
Lead	**250**	5.3	6010B	6-15-11	6-15-11	
Mercury	**0.68**	0.26	7471A	6-15-11	6-15-11	
Nickel	**52**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**270**	2.6	6010B	6-15-11	6-15-11	
Lab ID:	06-117-27					
Client ID:	**KCP4-SO-406-SP-110614**					
Antimony	**22**	5.2	6010B	6-15-11	6-15-11	
Arsenic	**40**	10	6010B	6-15-11	6-15-11	
Chromium	**150**	0.52	6010B	6-15-11	6-16-11	
Copper	**150**	1.0	6010B	6-15-11	6-16-11	
Lead	**440**	5.2	6010B	6-15-11	6-15-11	
Mercury	**0.71**	0.26	7471A	6-15-11	6-15-11	
Nickel	**80**	2.6	6010B	6-15-11	6-15-11	
Thallium	**ND**	2.6	6020	6-15-11	6-16-11	
Zinc	**420**	2.6	6010B	6-15-11	6-15-11	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-15-11
Date Analyzed:	6-15&16-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0615S1,MB0615S3&MB0615S5

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-15-11
Date Analyzed:	6-15&16-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0615S2,MB0615S4&MB0615S6

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 6-15-11
Date Analyzed: 6-15&16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-117-12

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**7.80**	**6.94**	12	5.0	
Arsenic	**43.2**	**38.3**	12	10	
Chromium	**73.9**	**71.6**	3	0.50	
Copper	**190**	**160**	17	1.0	
Lead	**41.7**	**37.8**	10	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**70.2**	**72.3**	3	2.5	
Thallium	**ND**	**ND**	NA	25.0	
Zinc	**908**	**560**	47	2.5	K

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 6-15-11
Date Analyzed: 6-15&16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-117-25

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**22.1**	**26.5**	18	0.50	
Copper	**25.4**	**24.9**	2	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**45.2**	**49.7**	10	2.5	
Thallium	**ND**	**ND**	NA	25.0	
Zinc	**57.1**	**46.5**	20	2.5	

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TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 6-15-11
Date Analyzed: 6-15&16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-117-12

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**92.4**	85	**97.8**	90	6	
Arsenic	100	**138**	95	**146**	102	6	
Chromium	100	**161**	87	**218**	145	31	V,W
Copper	50.0	**230**	81	**219**	58	5	V
Lead	250	**278**	94	**282**	96	2	
Mercury	0.500	**0.475**	95	**0.483**	97	2	
Nickel	100	**160**	90	**156**	86	3	
Thallium	50.0	**52.7**	105	**50.9**	102	4	
Zinc	100	**568**	-340	**734**	-173	26	V,W

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 6-15-11
Date Analyzed: 6-15&16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-117-25

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**91.4**	91	**92.2**	92	1	
Arsenic	100	**105**	105	**105**	105	0	
Chromium	100	**133**	111	**124**	102	7	
Copper	50.0	**78.6**	106	**76.5**	102	3	
Lead	250	**248**	99	**251**	100	1	
Mercury	0.500	**0.504**	101	**0.499**	100	1	
Nickel	100	**154**	108	**148**	103	3	
Thallium	50.0	**52.2**	104	**52.5**	105	1	
Zinc	100	**147**	90	**146**	89	1	

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 6-15-11
Date Analyzed: 6-15&16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0615S1,SB0615S3&SB0615S5

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**89.4**	89
Arsenic	6010B	100	**102**	102
Chromium	6010B	100	**106**	106
Copper	6010B	50.0	**56.0**	112
Lead	6010B	250	**261**	104
Mercury	7471A	0.500	**0.483**	97
Nickel	6010B	100	**109**	109
Thallium	6020	50.0	**51.3**	103
Zinc	6010B	100	**109**	109

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 6-15-11
Date Analyzed: 6-15&16-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0615S2,SB0615S4&SB0615S6

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**92.0**	92
Arsenic	6010B	100	**101**	101
Chromium	6010B	100	**104**	104
Copper	6010B	50.0	**55.4**	111
Lead	6010B	250	**254**	102
Mercury	7471A	0.500	**0.493**	99
Nickel	6010B	100	**106**	106
Thallium	6020	50.0	**53.3**	107
Zinc	6010B	100	**108**	108

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV061511P	1.00	0.944	5.6	+/- 10%
Arsenic	ICV061511P	1.00	0.964	3.6	+/- 10%
Chromium	ICV061511P	1.00	0.977	2.3	+/- 10%
Copper	ICV061511P	1.00	1.00	0	+/- 10%
Lead	ICV061511P	1.00	0.975	2.5	+/- 10%
Mercury	ICV061511Y	0.00500	0.00495	1.0	+/- 10%
Nickel	ICV061511P	1.00	0.997	0.30	+/- 10%
Thallium	ICV061611E	0.0500	0.0519	-3.8	+/- 10%
Zinc	ICV061511P	1.00	0.959	4.1	+/- 10%
Antimony	CCV1061511P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV1061511P	1.00	1.02	-2.0	+/- 10%
Chromium	CCV1061511P	1.00	1.06	-6.0	+/- 10%
Copper	CCV1061511P	1.00	1.06	-6.0	+/- 10%
Lead	CCV1061511P	10.0	10.6	-6.0	+/- 10%
Mercury	CCV1061511Y	0.00500	0.00512	-2.4	+/- 20%
Nickel	CCV1061511P	1.00	1.06	-6.0	+/- 10%
Thallium	CCV1061611E	0.0400	0.0396	1.0	+/- 10%
Zinc	CCV1061511P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV2061511P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV2061511P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV2061511P	1.00	1.06	-6.0	+/- 10%
Copper	CCV2061511P	1.00	1.08	-8.0	+/- 10%
Lead	CCV2061511P	10.0	10.7	-7.0	+/- 10%
Mercury	CCV2061511Y	0.00500	0.00513	-2.6	+/- 20%
Nickel	CCV2061511P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV2061611E	0.0400	0.0410	-2.5	+/- 10%
Zinc	CCV2061511P	1.00	1.07	-7.0	+/- 10%
Antimony	CCV3061511P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV3061511P	1.00	1.05	-5.0	+/- 10%
Chromium	CCV3061511P	1.00	1.06	-6.0	+/- 10%
Copper	CCV3061511P	1.00	1.07	-7.0	+/- 10%
Lead	CCV3061511P	10.0	10.6	-6.0	+/- 10%
Mercury	CCV3061511Y	0.00500	0.00516	-3.2	+/- 20%
Nickel	CCV3061511P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV3061611E	0.0400	0.0413	-3.3	+/- 10%
Zinc	CCV3061511P	1.00	1.06	-6.0	+/- 10%

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV4061511P	1.00	1.07	-7.0	+/- 10%
Arsenic	CCV4061511P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV4061511P	1.00	1.07	-7.0	+/- 10%
Copper	CCV4061511P	1.00	1.08	-8.0	+/- 10%
Lead	CCV4061511P	10.0	10.8	-8.0	+/- 10%
Mercury	CCV4061511Y	0.00500	0.00517	-3.4	+/- 20%
Nickel	CCV4061511P	1.00	1.08	-8.0	+/- 10%
Thallium	CCV4061611E	0.0400	0.0414	-3.5	+/- 10%
Zinc	CCV4061511P	1.00	1.09	-9.0	+/- 10%
Antimony	CCV5061511P	1.00	1.06	-6.0	+/- 10%
Arsenic	CCV5061511P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV5061511P	1.00	1.07	-7.0	+/- 10%
Copper	CCV5061511P	1.00	1.08	-8.0	+/- 10%
Lead	CCV5061511P	10.0	10.7	-7.0	+/- 10%
Mercury	CCV5061511Y	0.00500	0.00510	-2.0	+/- 20%
Nickel	CCV5061511P	1.00	1.08	-8.0	+/- 10%
Thallium	CCV5061611E	0.0400	0.0412	-3.0	+/- 10%
Zinc	CCV5061511P	1.00	1.06	-6.0	+/- 10%
Antimony	CCV6061511P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV6061511P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV6061511P	1.00	1.06	-6.0	+/- 10%
Copper	CCV6061511P	1.00	1.07	-7.0	+/- 10%
Lead	CCV6061511P	10.0	10.7	-7.0	+/- 10%
Mercury	CCV6061511Y	0.00500	0.00515	-3.0	+/- 20%
Nickel	CCV6061511P	1.00	1.07	-7.0	+/- 10%
Thallium	CCV6061611E	0.0400	0.0416	-4.0	+/- 10%
Zinc	CCV6061511P	1.00	1.06	-6.0	+/- 10%
Antimony	CCV6061511P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV6061511P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV6061511P	1.00	1.06	-6.0	+/- 10%
Copper	CCV6061511P	1.00	1.07	-7.0	+/- 10%
Lead	CCV6061511P	10.0	10.7	-7.0	+/- 10%
Nickel	CCV6061511P	1.00	1.07	-7.0	+/- 10%
Zinc	CCV6061511P	1.00	1.06	-6.0	+/- 10%

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV7061511P	1.00	1.05	-5.0	+/- 10%
Arsenic	CCV7061511P	1.00	1.03	-3.0	+/- 10%
Chromium	CCV7061511P	1.00	1.08	-8.0	+/- 10%
Copper	CCV7061511P	1.00	1.10	-10	+/- 10%
Lead	CCV7061511P	10.0	10.8	-8.0	+/- 10%
Nickel	CCV7061511P	1.00	1.08	-8.0	+/- 10%
Zinc	CCV7061511P	1.00	1.07	-7.0	+/- 10%
Antimony	CCV8061511P	1.00	1.06	-6.0	+/- 10%
Arsenic	CCV8061511P	1.00	1.07	-7.0	+/- 10%
Lead	CCV8061511P	10.0	11.0	-10	+/- 10%
Nickel	CCV8061511P	1.00	1.09	-9.0	+/- 10%
Zinc	CCV8061511P	1.00	1.09	-9.0	+/- 10%
Antimony	CCV9061511P	1.00	1.10	-10	+/- 10%
Arsenic	CCV9061511P	1.00	1.08	-8.0	+/- 10%
Lead	CCV9061511P	10.0	10.9	-9.0	+/- 10%
Nickel	CCV9061511P	1.00	1.09	-9.0	+/- 10%
Zinc	CCV9061511P	1.00	1.09	-9.0	+/- 10%

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Chromium	ICV061611P	1.00	0.995	0.50	+/- 10%
Copper	ICV061611P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV1061611P	1.00	1.04	-4.0	+/- 10%
Copper	CCV1061611P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV2061611P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2061611P	1.00	1.03	-3.0	+/- 10%
Chromium	CCV2061611P	1.00	1.04	-4.0	+/- 10%
Copper	CCV2061611P	1.00	1.04	-4.0	+/- 10%

Date of Report: June 16, 2011
Samples Submitted: June 14, 2011
Laboratory Reference: 1106-117
Project: 000105-01.09

% MOISTURE

Date Analyzed: 6-15-11

Client ID	Lab ID	% Moisture
KCP4-SO-380-S-110614	06-117-01	4
KCP4-SO-381-S-110614	06-117-02	6
KCP4-SO-382-S-110614	06-117-03	4
KCP4-SO-383-S-110614	06-117-04	3
KCP4-SO-384-S-110614	06-117-05	4
KCP4-SO-385-B-110614	06-117-06	6
KCP4-SO-386-D-110614	06-117-07	5
KCP4-SO-387-B-110614	06-117-08	6
KCP4-SO-388-B-110614	06-117-09	7
KCP4-SO-389-B-110614	06-117-10	6
KCP4-SO-390-S-110614	06-117-11	3
KCP4-SO-391-S-110614	06-117-12	3
KCP4-SO-392-S-110614	06-117-13	5
KCP4-SO-393-D-110614	06-117-14	4
KCP4-SO-394-B-110614	06-117-15	4
KCP4-SO-395-S-110614	06-117-16	3
KCP4-SO-396-S-110614	06-117-17	2
KCP4-SO-397-S-110614	06-117-18	3
KCP4-SO-398-B-110614	06-117-19	8
KCP4-SO-399-S-110614	06-117-20	3
KCP4-SO-400-S-110614	06-117-21	3
KCP4-SO-401-B-110614	06-117-22	5
KCP4-SO-402-D-110614	06-117-23	5
KCP4-SO-403-S-110614	06-117-24	1
KCP4-SO-404-B-110614	06-117-25	4
KCP4-SO-405-SP-110614	06-117-26	6
KCP4-SO-406-SP-110614	06-117-27	4

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 06-117

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	metals*	% Moisture
1	KCP4-SO-380-S-110614	6/14/11	0850	SO	1																X	X
2	KCP4-SO-381-S-110614		0855																		X	
3	KCP4-SO-382-S-110614		0902																		X	
4	KCP4-SO-383-S-110614		0908																		X	
5	KCP4-SO-384-S-110614		0912																		X	
6	KCP4-SO-385-B-110614		0913																		X	
7	KCP4-SO-386-D-110614		0922																		X	
8	KCP4-SO-387-B-110614		0934																		X	
9	KCP4-SO-388-B-110614		0937																		X	
10	KCP4-SO-389-B-110614		0942																		X	

	Signature	Company	Date	Time
Relinquished	[signature]	AQ	6/14/11	1600
Received	[signature]	OSE	6/14/11	1600
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 06-117

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	metals*						% Moisture
11	KCP4-SO-390-S-110614	6/14/11	1118	So	1																X						X
12	KCP4-SO-391-S-110614		1123																		X						
13	KCP4-So-392-S-110614		1128																		X						
14	KCP4-SO-393-D-110614		1129																		X						
15	KCP4-SO-394-B-110614		1142																		X						
16	KCP4-SO-395-S-110614		1210																		X						
17	KCP4-SO-396-S-110614		1214																		X						
18	KCP4-SO-397-S-110614		1218																		X						
19	KCP4-SO-398-B-110614		1223																		X						
20	KCP4-SO-399-S-110614		1246																		X						

	Signature	Company	Date	Time
Relinquished	Liz Vonckx	AQ	6/14/11	1600
Received		QSE	6/14/11	1600
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonck

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 06-117

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	metals*						% Moisture
21	KCP4-SO-400-S-110614	6/14/11	1250	SO	1																X						X
22	KCP4-SO-401-B-110614		1255																		X						
23	KCP4-SO-402-D-110614		1256																		X						
24	KCP4-SO-403-S-110614		1332																		X						
25	KCP4-SO-404-B-110614		1338																		X						
26	KCP4-SO-405-SP-110614		1356																		X						
27	KCP4-SO-406-SP-110614		1402																		X						
								GW		6/14/11																	

	Signature	Company	Date	Time
Relinquished		AQ	6/14/11	1600
Received		QEC	6/14/11	1600
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 300105-61.09

OnSite Project Number: 06-117

Initiated by: MV

Date Initiated: 6/14/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 3	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup / Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

2.4) Sample 14) KCP4-SO-393-D-110614 6/14/11 1129 on COC 1128 on label
Sample 22) KCP4-SO-401-B-110614 6/14/11 1255 on COC 1256 on label
Sample 23) KCP4-SO-402-D-110614 6/14/11 1256 on COC 1255 on label

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 30, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1106-223

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on June 28, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

Case Narrative

Samples were collected on June 27, 2011 and received by the laboratory on June 28, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-01					
Client ID:	**KCP4-SO-407-S-110627**					
Antimony	**5.9**	5.1	6010B	6-28-11	6-29-11	
Arsenic	**27**	10	6010B	6-28-11	6-29-11	
Chromium	**52**	0.51	6010B	6-28-11	6-29-11	
Copper	**127**	1.0	6010B	6-29-11	6-29-11	
Lead	**66**	5.1	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.25	7471A	6-28-11	6-28-11	
Nickel	**55**	2.5	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.5	6020	6-28-11	6-29-11	
Zinc	**450**	2.5	6010B	6-28-11	6-29-11	
Lab ID:	06-223-02					
Client ID:	**KCP4-SO-408-S-110627**					
Antimony	**47**	5.1	6010B	6-28-11	6-29-11	
Arsenic	**240**	10	6010B	6-28-11	6-29-11	
Chromium	**82**	0.51	6010B	6-28-11	6-29-11	
Copper	**510**	1.0	6010B	6-29-11	6-29-11	
Lead	**190**	5.1	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.25	7471A	6-28-11	6-28-11	
Nickel	**87**	2.5	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.5	6020	6-28-11	6-29-11	
Zinc	**2100**	25	6010B	6-28-11	6-30-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-03					
Client ID:	**KCP4-SO-409-S-110627**					
Antimony	**9.1**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**39**	10	6010B	6-28-11	6-29-11	
Chromium	**49**	0.52	6010B	6-28-11	6-29-11	
Copper	**290**	1.0	6010B	6-29-11	6-29-11	
Lead	**39**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**360**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**640**	2.6	6010B	6-28-11	6-29-11	
Lab ID:	06-223-04					
Client ID:	**KCP4-SO-410-S-110627**					
Antimony	**18**	5.0	6010B	6-28-11	6-29-11	
Arsenic	**69**	10	6010B	6-28-11	6-29-11	
Chromium	**80**	0.50	6010B	6-28-11	6-29-11	
Copper	**120**	1.0	6010B	6-29-11	6-29-11	
Lead	**52**	5.0	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.25	7471A	6-28-11	6-28-11	
Nickel	**67**	2.5	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.5	6020	6-28-11	6-29-11	
Zinc	**710**	2.5	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-05					
Client ID:	**KCP4-SO-411-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**23**	0.53	6010B	6-28-11	6-29-11	
Copper	**21**	1.1	6010B	6-29-11	6-29-11	
Lead	**5.7**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**45**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**60**	2.6	6010B	6-28-11	6-29-11	
Lab ID:	06-223-06					
Client ID:	**KCP4-SO-412-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**28**	0.53	6010B	6-28-11	6-29-11	
Copper	**26**	1.1	6010B	6-29-11	6-29-11	
Lead	**ND**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**49**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**45**	2.7	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-07					
Client ID:	**KCP4-SO-413-D-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**32**	0.53	6010B	6-28-11	6-29-11	
Copper	**21**	1.1	6010B	6-29-11	6-29-11	
Lead	**ND**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**46**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**36**	2.7	6010B	6-28-11	6-29-11	
Lab ID:	06-223-08					
Client ID:	**KCP4-SO-414-B-110627**					
Antimony	**ND**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**28**	0.52	6010B	6-28-11	6-29-11	
Copper	**17**	1.0	6010B	6-29-11	6-29-11	
Lead	**5.9**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**47**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**33**	2.6	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-09					
Client ID:	**KCP4-SO-415-B-110627**					
Antimony	**6.9**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**20**	10	6010B	6-28-11	6-29-11	
Chromium	**32**	0.52	6010B	6-28-11	6-29-11	
Copper	**58**	1.0	6010B	6-29-11	6-29-11	
Lead	**32**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**53**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**170**	2.6	6010B	6-28-11	6-29-11	
Lab ID:	06-223-10					
Client ID:	**KCP4-SO-416-B-110627**					
Antimony	**ND**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**23**	0.52	6010B	6-28-11	6-29-11	
Copper	**28**	1.0	6010B	6-29-11	6-29-11	
Lead	**8.4**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**39**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**160**	2.6	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-11					
Client ID:	**KCP4-SO-417-S-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**36**	0.53	6010B	6-28-11	6-29-11	
Copper	**61**	1.1	6010B	6-29-11	6-29-11	
Lead	**62**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**38**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**180**	2.7	6010B	6-28-11	6-29-11	
Lab ID:	06-223-12					
Client ID:	**KCP4-SO-418-S-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**26**	0.53	6010B	6-28-11	6-29-11	
Copper	**37**	1.1	6010B	6-29-11	6-29-11	
Lead	**8.6**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**43**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**110**	2.6	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-13					
Client ID:	**KCP4-SO-419-D-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**26**	0.53	6010B	6-28-11	6-29-11	
Copper	**34**	1.1	6010B	6-29-11	6-29-11	
Lead	**10**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**49**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**130**	2.6	6010B	6-28-11	6-29-11	
Lab ID:	06-223-14					
Client ID:	**KCP4-SO-420-S-110627**					
Antimony	**ND**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**29**	0.52	6010B	6-28-11	6-29-11	
Copper	**31**	1.0	6010B	6-29-11	6-29-11	
Lead	**12**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**46**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**55**	2.6	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-15					
Client ID:	**KCP4-SO-421-S-110627**					
Antimony	**5.7**	5.1	6010B	6-28-11	6-29-11	
Arsenic	**21**	10	6010B	6-28-11	6-29-11	
Chromium	**44**	0.51	6010B	6-28-11	6-29-11	
Copper	**91**	1.0	6010B	6-29-11	6-29-11	
Lead	**17**	5.1	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**45**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**220**	2.6	6010B	6-28-11	6-29-11	
Lab ID:	06-223-16					
Client ID:	**KCP4-SO-422-S-110627**					
Antimony	**17**	5.1	6010B	6-28-11	6-29-11	
Arsenic	**69**	10	6010B	6-28-11	6-29-11	
Chromium	**55**	0.51	6010B	6-28-11	6-29-11	
Copper	**86**	1.0	6010B	6-29-11	6-29-11	
Lead	**52**	5.1	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.25	7471A	6-28-11	6-28-11	
Nickel	**47**	2.5	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.5	6020	6-28-11	6-29-11	
Zinc	**670**	2.5	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-17					
Client ID:	**KCP4-SO-423-S-110627**					
Antimony	**ND**	5.1	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**36**	0.51	6010B	6-28-11	6-29-11	
Copper	**72**	1.0	6010B	6-29-11	6-29-11	
Lead	**8.7**	5.1	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.25	7471A	6-28-11	6-28-11	
Nickel	**35**	2.5	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.5	6020	6-28-11	6-29-11	
Zinc	**180**	2.5	6010B	6-28-11	6-29-11	
Lab ID:	06-223-18					
Client ID:	**KCP4-SO-424-B-110627**					
Antimony	**ND**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**30**	0.52	6010B	6-28-11	6-29-11	
Copper	**27**	1.0	6010B	6-29-11	6-29-11	
Lead	**ND**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**61**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**38**	2.6	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-19					
Client ID:	**KCP4-SO-425-D-110627**					
Antimony	**ND**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**25**	0.52	6010B	6-28-11	6-29-11	
Copper	**29**	1.0	6010B	6-29-11	6-29-11	
Lead	**ND**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**50**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**33**	2.6	6010B	6-28-11	6-29-11	
Lab ID:	06-223-20					
Client ID:	**KCP4-SO-426-B-110627**					
Antimony	**ND**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**18**	0.52	6010B	6-28-11	6-29-11	
Copper	**16**	1.0	6010B	6-29-11	6-29-11	
Lead	**ND**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**41**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**31**	2.6	6010B	6-28-11	6-29-11	

Date of Report: June 30, 2011
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-21					
Client ID:	**KCP4-SO-427-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**24**	0.53	6010B	6-28-11	6-29-11	
Copper	**28**	1.1	6010B	6-29-11	6-29-11	
Lead	**ND**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**50**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**34**	2.6	6010B	6-28-11	6-29-11	
Lab ID:	06-223-22					
Client ID:	**KCP4-SO-428-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**24**	0.53	6010B	6-28-11	6-29-11	
Copper	**25**	1.1	6010B	6-29-11	6-29-11	
Lead	**5.7**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**51**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**52**	2.6	6010B	6-28-11	6-29-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-23					
Client ID:	**KCP4-SO-429-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**28**	0.53	6010B	6-28-11	6-29-11	
Copper	**29**	1.1	6010B	6-29-11	6-29-11	
Lead	**ND**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**45**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**34**	2.7	6010B	6-28-11	6-29-11	
Lab ID:	06-223-24					
Client ID:	**KCP4-SO-430-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**47**	0.53	6010B	6-28-11	6-29-11	
Copper	**27**	1.1	6010B	6-29-11	6-29-11	
Lead	**ND**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**59**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**39**	2.6	6010B	6-28-11	6-29-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-25					
Client ID:	**KCP4-SO-431-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**34**	0.53	6010B	6-28-11	6-29-11	
Copper	**39**	1.1	6010B	6-29-11	6-29-11	
Lead	**14**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**60**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**64**	2.7	6010B	6-28-11	6-29-11	
Lab ID:	06-223-26					
Client ID:	**KCP4-SO-432-B-110627**					
Antimony	**ND**	5.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**33**	0.52	6010B	6-28-11	6-29-11	
Copper	**34**	1.0	6010B	6-29-11	6-29-11	
Lead	**7.2**	5.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**58**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**54**	2.6	6010B	6-28-11	6-29-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-27					
Client ID:	**KCP4-SO-433-B-110627**					
Antimony	**ND**	5.4	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**28**	0.54	6010B	6-28-11	6-29-11	
Copper	**40**	1.1	6010B	6-29-11	6-29-11	
Lead	**8.0**	5.4	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**43**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**46**	2.7	6010B	6-28-11	6-29-11	
Lab ID:	06-223-28					
Client ID:	**KCP4-SO-434-B-110627**					
Antimony	**ND**	6.2	6010B	6-28-11	6-29-11	
Arsenic	**ND**	12	6010B	6-28-11	6-29-11	
Chromium	**35**	0.62	6010B	6-28-11	6-29-11	
Copper	**44**	1.2	6010B	6-29-11	6-29-11	
Lead	**32**	6.2	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.31	7471A	6-28-11	6-28-11	
Nickel	**50**	3.1	6010B	6-28-11	6-29-11	
Thallium	**ND**	3.1	6020	6-28-11	6-29-11	
Zinc	**110**	3.1	6010B	6-28-11	6-29-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-29					
Client ID:	**KCP4-SO-435-B-110627**					
Antimony	**ND**	5.3	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**36**	0.53	6010B	6-28-11	6-29-11	
Copper	**110**	1.1	6010B	6-29-11	6-29-11	
Lead	**26**	5.3	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**46**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**110**	2.7	6010B	6-28-11	6-29-11	
Lab ID:	06-223-30					
Client ID:	**KCP4-SO-436-B-110627**					
Antimony	**ND**	5.4	6010B	6-28-11	6-29-11	
Arsenic	**ND**	11	6010B	6-28-11	6-29-11	
Chromium	**30**	0.54	6010B	6-28-11	6-29-11	
Copper	**24**	1.1	6010B	6-29-11	6-29-11	
Lead	**ND**	5.4	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.27	7471A	6-28-11	6-28-11	
Nickel	**60**	2.7	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.7	6020	6-28-11	6-29-11	
Zinc	**43**	2.7	6010B	6-28-11	6-29-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-223-31					
Client ID:	**KCP4-SO-437-B-110627**					
Antimony	**ND**	5.1	6010B	6-28-11	6-29-11	
Arsenic	**ND**	10	6010B	6-28-11	6-29-11	
Chromium	**17**	0.51	6010B	6-28-11	6-29-11	
Copper	**34**	1.0	6010B	6-29-11	6-29-11	
Lead	**ND**	5.1	6010B	6-28-11	6-29-11	
Mercury	**ND**	0.26	7471A	6-28-11	6-28-11	
Nickel	**34**	2.6	6010B	6-28-11	6-29-11	
Thallium	**ND**	2.6	6020	6-28-11	6-29-11	
Zinc	**31**	2.6	6010B	6-28-11	6-29-11	

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-28&29-11
Date Analyzed:	6-28&29-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0628S3,MB0628S5&MB0629S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-28-11
Date Analyzed:	6-28&29-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0628S4,MB0628S6&MB0629S4

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 6-28&29-11
Date Analyzed: 6-28&29-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-223-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**22.2**	**19.2**	14	0.50	
Copper	**20.3**	**26.6**	27	1.0	K
Lead	**5.37**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**42.2**	**35.7**	17	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**56.7**	**39.8**	35	2.5	K

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TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 6-28-11
Date Analyzed: 6-28&29-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-223-18

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**28.9**	**24.3**	17	0.50	
Copper	**26.1**	**26.5**	1	1.0	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**58.9**	**51.0**	14	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**36.5**	**35.6**	3	2.5	

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TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 6-28&29-11
Date Analyzed: 6-28&29-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-223-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**93.7**	94	**93.7**	94	0	
Arsenic	100	**103**	103	**105**	105	2	
Chromium	100	**123**	101	**123**	101	0	
Copper	50.0	**67.6**	95	**70.1**	100	4	
Lead	250	**242**	94	**245**	96	1	
Mercury	0.500	**0.505**	101	**0.498**	100	1	
Nickel	100	**138**	95	**143**	101	4	
Thallium	50.0	**52.1**	104	**52.4**	105	1	
Zinc	100	**150**	93	**164**	107	9	

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TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 6-28-11
Date Analyzed: 6-28&29-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 06-223-18

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**88.8**	89	**88.7**	89	0	
Arsenic	100	**107**	107	**107**	107	0	
Chromium	100	**125**	96	**128**	99	3	
Copper	50.0	**80.9**	110	**78.8**	105	3	
Lead	250	**245**	98	**248**	99	1	
Mercury	0.500	**0.506**	101	**0.503**	101	1	
Nickel	100	**155**	96	**157**	98	2	
Thallium	50.0	**48.8**	98	**50.2**	100	3	
Zinc	100	**141**	105	**141**	105	0	

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TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 6-28&29-11
Date Analyzed: 6-28&29-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0628S3,SB0628S5&SB0629S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**96.2**	96
Arsenic	6010B	100	**100**	100
Chromium	6010B	100	**103**	103
Copper	6010B	50.0	**51.2**	102
Lead	6010B	250	**257**	103
Mercury	7471A	0.500	**0.494**	99
Nickel	6010B	100	**104**	104
Thallium	6020	50.0	**51.6**	103
Zinc	6010B	100	**107**	107

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TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 6-28-11
Date Analyzed: 6-28&29-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0628S4,SB0628S6&SB0629S4

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**96.4**	96
Arsenic	6010B	100	**104**	104
Chromium	6010B	100	**106**	106
Copper	6010B	50.0	**54.9**	110
Lead	6010B	250	**262**	105
Mercury	7471A	0.500	**0.501**	100
Nickel	6010B	100	**106**	106
Thallium	6020	50.0	**52.4**	105
Zinc	6010B	100	**109**	109

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV062911P	1.00	0.972	2.8	+/- 10%
Arsenic	ICV062911P	1.00	0.973	2.7	+/- 10%
Chromium	ICV062911P	1.00	1.01	-1.0	+/- 10%
Copper	ICV062911P	1.00	1.01	-1.0	+/- 10%
Lead	ICV062911P	1.00	1.06	-6.0	+/- 10%
Mercury	ICV062811Y	0.00500	0.00504	-0.80	+/- 10%
Nickel	ICV062911P	1.00	1.03	-3.0	+/- 10%
Thallium	ICV062911E	0.0500	0.0529	-5.8	+/- 10%
Zinc	ICV062911P	1.00	0.986	1.4	+/- 10%
Antimony	CCV1062911P	1.00	1.01	-1.0	+/- 10%
Arsenic	CCV1062911P	1.00	0.995	0.50	+/- 10%
Chromium	CCV1062911P	1.00	1.02	-2.0	+/- 10%
Copper	CCV1062911P	1.00	0.996	0.40	+/- 10%
Lead	CCV1062911P	10.0	10.2	-2.0	+/- 10%
Mercury	CCV1062811Y	0.00500	0.00515	-3.0	+/- 20%
Nickel	CCV1062911P	1.00	0.998	0.20	+/- 10%
Thallium	CCV1062911E	0.0400	0.0412	-3.0	+/- 10%
Zinc	CCV1062911P	1.00	1.02	-2.0	+/- 10%
Antimony	CCV2062911P	1.00	1.05	-5.0	+/- 10%
Arsenic	CCV2062911P	1.00	1.04	-4.0	+/- 10%
Chromium	CCV2062911P	1.00	1.06	-6.0	+/- 10%
Copper	CCV2062911P	1.00	1.07	-7.0	+/- 10%
Lead	CCV2062911P	10.0	10.7	-7.0	+/- 10%
Mercury	CCV2062811Y	0.00500	0.00529	-5.8	+/- 20%
Nickel	CCV2062911P	1.00	1.03	-3.0	+/- 10%
Thallium	CCV2062911E	0.0400	0.0400	0	+/- 10%
Zinc	CCV2062911P	1.00	1.05	-5.0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3062911P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV3062911P	1.00	1.05	-5.0	+/- 10%
Chromium	CCV3062911P	1.00	1.06	-6.0	+/- 10%
Copper	CCV3062911P	1.00	1.08	-8.0	+/- 10%
Lead	CCV3062911P	10.0	10.6	-6.0	+/- 10%
Mercury	CCV3062811Y	0.00500	0.00527	-5.4	+/- 20%
Nickel	CCV3062911P	1.00	1.05	-5.0	+/- 10%
Thallium	CCV3062911E	0.0400	0.0412	-3.0	+/- 10%
Zinc	CCV3062911P	1.00	1.06	-6.0	+/- 10%
Antimony	CCV4062911P	1.00	1.08	-8.0	+/- 10%
Arsenic	CCV4062911P	1.00	1.07	-7.0	+/- 10%
Chromium	CCV4062911P	1.00	1.07	-7.0	+/- 10%
Copper	CCV4062911P	1.00	1.06	-6.0	+/- 10%
Lead	CCV4062911P	10.0	10.8	-8.0	+/- 10%
Mercury	CCV4062811Y	0.00500	0.00534	-6.8	+/- 20%
Nickel	CCV4062911P	1.00	1.08	-8.0	+/- 10%
Thallium	CCV4062911E	0.0400	0.0411	-2.7	+/- 10%
Zinc	CCV4062911P	1.00	1.07	-7.0	+/- 10%
Antimony	CCV5062911P	1.00	1.10	-10	+/- 10%
Arsenic	CCV5062911P	1.00	1.09	-9.0	+/- 10%
Chromium	CCV5062911P	1.00	1.09	-9.0	+/- 10%
Copper	CCV5062911P	1.00	1.05	-5.0	+/- 10%
Lead	CCV5062911P	10.0	11.0	-10	+/- 10%
Mercury	CCV5062811Y	0.00500	0.00530	-6.0	+/- 20%
Nickel	CCV5062911P	1.00	1.09	-9.0	+/- 10%
Thallium	CCV5062911E	0.0400	0.0408	-2.0	+/- 10%
Zinc	CCV5062911P	1.00	1.09	-9.0	+/- 10%

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TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV6062911P	1.00	1.04	-4.0	+/- 10%
Arsenic	CCV6062911P	1.00	1.03	-3.0	+/- 10%
Chromium	CCV6062911P	1.00	1.04	-4.0	+/- 10%
Copper	CCV6062911P	1.00	1.05	-5.0	+/- 10%
Lead	CCV6062911P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV6062811Y	0.00500	0.00530	-6.0	+/- 20%
Nickel	CCV6062911P	1.00	1.04	-4.0	+/- 10%
Thallium	CCV6062911E	0.0400	0.0413	-3.3	+/- 10%
Zinc	CCV6062911P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV7062911P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV7062911P	1.00	1.00	0	+/- 10%
Chromium	CCV7062911P	1.00	1.04	-4.0	+/- 10%
Lead	CCV7062911P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV7062811Y	0.00500	0.00536	-7.2	+/- 20%
Nickel	CCV7062911P	1.00	1.02	-2.0	+/- 10%
Zinc	CCV7062911P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV8062911P	1.00	1.03	-3.0	+/- 10%
Arsenic	CCV8062911P	1.00	1.01	-1.0	+/- 10%
Chromium	CCV8062911P	1.00	1.04	-4.0	+/- 10%
Lead	CCV8062911P	10.0	10.4	-4.0	+/- 10%
Mercury	CCV8062811Y	0.00500	0.00512	-2.4	+/- 20%
Nickel	CCV8062911P	1.00	1.04	-4.0	+/- 10%
Zinc	CCV8062911P	1.00	1.04	-4.0	+/- 10%
Mercury	CCV9062811Y	0.00500	0.00506	-1.2	+/- 20%
Mercury	CCV10062811Y	0.00500	0.00516	-3.2	+/- 20%
Mercury	CCV11062811Y	0.00500	0.00518	-3.6	+/- 20%
Mercury	CCV12062811Y	0.00500	0.00522	-4.4	+/- 20%

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

TOTAL ZINC
EPA 6010B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Zinc	ICV063011P	1.00	0.983	1.7	+/- 10%
Zinc	CCV1063011P	1.00	1.00	0	+/- 10%
Zinc	CCV2063011P	1.00	1.00	0	+/- 10%

Date of Report: June 30, 2011
Samples Submitted: June 28, 2011
Laboratory Reference: 1106-223
Project: 000105-01.09

% MOISTURE

Date Analyzed: 6-29-11

Client ID	Lab ID	% Moisture
KCP4-SO-407-S-110627	06-223-01	2
KCP4-SO-408-S-110627	06-223-02	2
KCP4-SO-409-S-110627	06-223-03	4
KCP4-SO-410-S-110627	06-223-04	1
KCP4-SO-411-B-110627	06-223-05	5
KCP4-SO-412-B-110627	06-223-06	6
KCP4-SO-413-D-110627	06-223-07	6
KCP4-SO-414-B-110627	06-223-08	4
KCP4-SO-415-B-110627	06-223-09	4
KCP4-SO-416-B-110627	06-223-10	4
KCP4-SO-417-S-110627	06-223-11	7
KCP4-SO-418-S-110627	06-223-12	6
KCP4-SO-419-D-110627	06-223-13	6
KCP4-SO-420-S-110627	06-223-14	4
KCP4-SO-421-S-110627	06-223-15	2
KCP4-SO-422-S-110627	06-223-16	1
KCP4-SO-423-S-110627	06-223-17	2
KCP4-SO-424-B-110627	06-223-18	4
KCP4-SO-425-D-110627	06-223-19	3
KCP4-SO-426-B-110627	06-223-20	4
KCP4-SO-427-B-110627	06-223-21	5
KCP4-SO-428-B-110627	06-223-22	5
KCP4-SO-429-B-110627	06-223-23	7
KCP4-SO-430-B-110627	06-223-24	5
KCP4-SO-431-B-110627	06-223-25	6
KCP4-SO-432-B-110627	06-223-26	4
KCP4-SO-433-B-110627	06-223-27	7
KCP4-SO-434-B-110627	06-223-28	19
KCP4-SO-435-B-110627	06-223-29	6
KCP4-SO-436-B-110627	06-223-30	7
KCP4-SO-437-B-110627	06-223-31	2

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-223

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	metals *						% Moisture
1	KCP4-SD-407-S-110627	6/27/11	1227	SO	1																X						X
2	KCP4-SO-408-S-110627		1230																		X						X
3	KCP4-SO-409-S-110627		1237																		X						X
4	KCP4-SO-410-S-110627		1243																		X						X
5	KCP4-SO-411-B-110627		1248																		X						X
6	KCP4-SO-412-B-110627		1256																		X						X
7	KCP4-SO-413-D-110627		1303																		X						X
8	KCP4-SO-414-B-110627		1308																		X						X
9	KCP4-SO-415-B-110627		1310																		X						X
10	KCP4-SO-416-B-110627		1315																		X						X

	Signature	Company	Date	Time
Relinquished	[signature]	AQ	6/28/11	0630
Received	[signature]	CSL	6-28-11	4:30
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonck

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-223

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals *						% Moisture
11	KCP4-SO-417-S-110627	6/27/11	1400	SO	1																X						X
12	KCP4-SO-418-S-110627		1406																		X						X
13	KCP4-SO-419-D-110627		1412																		X						X
14	KCP4-SO-420-S-110627		1416																		X						X
15	KCP4-SO-421-S-110627		1423																		X						X
16	KCP4-SO-422-S-110627		1426																		X						X
17	KCP4-SO-423-S-110627		1429																		X						X
18	KCP4-SO-424-B-110627		1510																		X						X
19	KCP4-SO-425-D-110627		1512																		X						X
20	KCP4-SO-426-B-110627	↓	1517	↓	↓																X						X

	Signature	Company	Date	Time
Relinquished	Liz Vonck	AQ	6/28/11	0630
Received	[signature]	OSE	6.28.11	6:30A
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

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Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KCPhase 4
Project Manager: Rebecca Gardner
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Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-223

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals *					% Moisture
21	KCP4-SO-427-B-110627	6/27/11	1522	SO	1																X					X
22	KCP4-SO-428-B-110627		1525																		X					X
23	KCP4-SO-429-B-110627		1532																		X					X
24	KCP4-SO-430-B-110627		1537																		X					X
25	KCP4-SO-431-B-110627		1540																		X					X
26	KCP4-SO-432-B-110627		1542																		X					X
27	KCP4-SO-433-B-110627		1548																		X					X
28	KCP4-SO-434-B-110627		1555																		X					X
29	KCP4-SO-435-B-110627		1558																		X					X
30	KCP4-SO-436-B-110627	↓	1602	↓	↓																X					X

	Signature	Company	Date	Time
Relinquished	EWVonck	AQ	6/28/11	0630
Received	PMCKelvon	OSE	6.28.11	6:30A
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105 - 01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vonckx

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 06-223

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	metals *						% Moisture
31	KCP4-SO-437-B-110627	6/27/11	1606	SO	1																x						x

swr 6/28/11

	Signature	Company	Date	Time
Relinquished	swr Vonckx	AQ	6/28/11	0630
Received	PMcKelson	OSE	6.28.11	6:30A
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 06-223

Initiated by: QO

Date Initiated: 6.28.11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 5°C	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 15, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project 000105-01.09
Laboratory Reference No. 1107-070

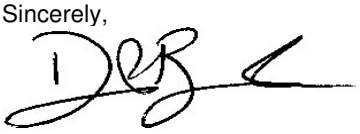
Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on July 13, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

Case Narrative

Samples were collected on July 12, 2011 and received by the laboratory on July 13, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Metals EPA 6010B/6020/7471A Analysis

Due to the high concentration of Zinc in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Mercury are outside control limits due to matrix inhomogeniety. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-01					
Client ID:	**KCP4-SO-438-S-110712**					
Antimony	**ND**	5.4	6010B	7-13-11	7-13-11	
Arsenic	**14**	11	6010B	7-13-11	7-13-11	
Chromium	**42**	0.54	6010B	7-13-11	7-13-11	
Copper	**100**	1.1	6010B	7-13-11	7-13-11	
Lead	**45**	5.4	6010B	7-13-11	7-13-11	
Mercury	**0.32**	0.27	7471A	7-14-11	7-14-11	
Nickel	**50**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**590**	2.7	6010B	7-13-11	7-13-11	
Lab ID:	07-070-02					
Client ID:	**KCP4-SO-439-S-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**33**	0.52	6010B	7-13-11	7-13-11	
Copper	**54**	1.0	6010B	7-13-11	7-13-11	
Lead	**10**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-13-11	7-14-11	
Nickel	**46**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**680**	2.6	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-03					
Client ID:	**KCP4-SO-440-S-110712**					
Antimony	**ND**	5.6	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**30**	0.56	6010B	7-13-11	7-13-11	
Copper	**46**	1.1	6010B	7-13-11	7-13-11	
Lead	**17**	5.6	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.28	7471A	7-13-11	7-14-11	
Nickel	**55**	2.8	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.8	6020	7-13-11	7-14-11	
Zinc	**910**	2.8	6010B	7-13-11	7-13-11	
Lab ID:	07-070-04					
Client ID:	**KCP4-SO-441-S-110712**					
Antimony	**ND**	6.0	6010B	7-13-11	7-13-11	
Arsenic	**ND**	12	6010B	7-13-11	7-13-11	
Chromium	**36**	0.60	6010B	7-13-11	7-13-11	
Copper	**31**	1.2	6010B	7-13-11	7-13-11	
Lead	**8.0**	6.0	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.30	7471A	7-13-11	7-14-11	
Nickel	**43**	3.0	6010B	7-13-11	7-13-11	
Thallium	**ND**	3.0	6020	7-13-11	7-14-11	
Zinc	**660**	3.0	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-05					
Client ID:	**KCP4-SO-442-S-110712**					
Antimony	**ND**	5.1	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**35**	0.51	6010B	7-13-11	7-13-11	
Copper	**96**	1.0	6010B	7-13-11	7-13-11	
Lead	**7.4**	5.1	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.25	7471A	7-13-11	7-14-11	
Nickel	**49**	2.5	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.5	6020	7-13-11	7-14-11	
Zinc	**120**	2.5	6010B	7-13-11	7-13-11	
Lab ID:	07-070-06					
Client ID:	**KCP4-SO-443-B-110712**					
Antimony	**ND**	5.4	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**34**	0.54	6010B	7-13-11	7-13-11	
Copper	**28**	1.1	6010B	7-13-11	7-13-11	
Lead	**5.6**	5.4	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.27	7471A	7-13-11	7-14-11	
Nickel	**73**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**45**	2.7	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-07					
Client ID:	**KCP4-SO-444-D-110712**					
Antimony	**ND**	5.4	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**34**	0.54	6010B	7-13-11	7-13-11	
Copper	**25**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.4	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.27	7471A	7-13-11	7-14-11	
Nickel	**66**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**36**	2.7	6010B	7-13-11	7-13-11	
Lab ID:	07-070-08					
Client ID:	**KCP4-SO-445-B-110712**					
Antimony	**ND**	5.4	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**26**	0.54	6010B	7-13-11	7-13-11	
Copper	**23**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.4	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.27	7471A	7-13-11	7-14-11	
Nickel	**52**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**32**	2.7	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-09					
Client ID:	**KCP4-SO-446-B-110712**					
Antimony	**ND**	5.4	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**31**	0.54	6010B	7-13-11	7-13-11	
Copper	**29**	1.1	6010B	7-13-11	7-13-11	
Lead	**6.8**	5.4	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.27	7471A	7-13-11	7-14-11	
Nickel	**41**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**35**	2.7	6010B	7-13-11	7-13-11	
Lab ID:	07-070-10					
Client ID:	**KCP4-SO-447-B-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**25**	0.53	6010B	7-13-11	7-13-11	
Copper	**17**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-13-11	7-14-11	
Nickel	**37**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**33**	2.6	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-11					
Client ID:	**KCP4-SO-448-B-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**16**	0.52	6010B	7-13-11	7-13-11	
Copper	**17**	1.0	6010B	7-13-11	7-13-11	
Lead	**ND**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**38**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**25**	2.6	6010B	7-13-11	7-13-11	
Lab ID:	07-070-12					
Client ID:	**KCP4-SO-449-B-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**27**	0.53	6010B	7-13-11	7-13-11	
Copper	**16**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.27	7471A	7-14-11	7-14-11	
Nickel	**50**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**40**	2.7	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-13					
Client ID:	**KCP4-SO-450-B-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**22**	0.52	6010B	7-13-11	7-13-11	
Copper	**20**	1.0	6010B	7-13-11	7-13-11	
Lead	**ND**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**50**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**50**	2.6	6010B	7-13-11	7-13-11	
Lab ID:	07-070-14					
Client ID:	**KCP4-SO-451-B-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**21**	0.52	6010B	7-13-11	7-13-11	
Copper	**17**	1.0	6010B	7-13-11	7-13-11	
Lead	**ND**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**51**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**36**	2.6	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-15					
Client ID:	**KCP4-SO-452-B-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**19**	0.52	6010B	7-13-11	7-13-11	
Copper	**25**	1.0	6010B	7-13-11	7-13-11	
Lead	**ND**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**39**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**53**	2.6	6010B	7-13-11	7-13-11	
Lab ID:	07-070-16					
Client ID:	**KCP4-SO-453-B-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**20**	0.52	6010B	7-13-11	7-13-11	
Copper	**26**	1.0	6010B	7-13-11	7-13-11	
Lead	**ND**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**46**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**72**	2.6	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-17					
Client ID:	**KCP4-SO-454-S-110712**					
Antimony	**ND**	5.1	6010B	7-13-11	7-13-11	
Arsenic	**11**	10	6010B	7-13-11	7-13-11	
Chromium	**25**	0.51	6010B	7-13-11	7-13-11	
Copper	**46**	1.0	6010B	7-13-11	7-13-11	
Lead	**11**	5.1	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.25	7471A	7-14-11	7-14-11	
Nickel	**48**	2.5	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.5	6020	7-13-11	7-14-11	
Zinc	**110**	2.5	6010B	7-13-11	7-13-11	
Lab ID:	07-070-18					
Client ID:	**KCP4-SO-455-S-110712**					
Antimony	**ND**	5.1	6010B	7-13-11	7-13-11	
Arsenic	**20**	10	6010B	7-13-11	7-13-11	
Chromium	**61**	0.51	6010B	7-13-11	7-13-11	
Copper	**140**	1.0	6010B	7-13-11	7-13-11	
Lead	**20**	5.1	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.25	7471A	7-14-11	7-14-11	
Nickel	**78**	2.5	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.5	6020	7-13-11	7-14-11	
Zinc	**460**	2.5	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-19					
Client ID:	**KCP4-SO-456-B-110712**					
Antimony	**6.0**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**34**	10	6010B	7-13-11	7-13-11	
Chromium	**39**	0.52	6010B	7-13-11	7-13-11	
Copper	**120**	1.0	6010B	7-13-11	7-13-11	
Lead	**25**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**41**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**620**	2.6	6010B	7-13-11	7-13-11	
Lab ID:	07-070-20					
Client ID:	**KCP4-SO-457-D-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**32**	0.52	6010B	7-13-11	7-13-11	
Copper	**51**	1.0	6010B	7-13-11	7-13-11	
Lead	**35**	5.2	6010B	7-13-11	7-13-11	
Mercury	**0.69**	0.26	7471A	7-14-11	7-14-11	
Nickel	**69**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**54**	2.6	6010B	7-13-11	7-13-11	

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Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-21					
Client ID:	**KCP4-SO-458-B-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**26**	0.53	6010B	7-13-11	7-13-11	
Copper	**20**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.27	7471A	7-14-11	7-14-11	
Nickel	**48**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**32**	2.7	6010B	7-13-11	7-13-11	
Lab ID:	07-070-22					
Client ID:	**KCP4-SO-459-B-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**22**	0.53	6010B	7-13-11	7-13-11	
Copper	**15**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**49**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-15-11	
Zinc	**26**	2.6	6010B	7-13-11	7-13-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-23					
Client ID:	**KCP4-SO-460-S-110712**					
Antimony	**ND**	5.2	6010B	7-13-11	7-13-11	
Arsenic	**12**	10	6010B	7-13-11	7-13-11	
Chromium	**85**	0.52	6010B	7-13-11	7-13-11	
Copper	**130**	1.0	6010B	7-13-11	7-13-11	
Lead	**18**	5.2	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**140**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**200**	2.6	6010B	7-13-11	7-13-11	
Lab ID:	07-070-24					
Client ID:	**KCP4-SO-461-S-110712**					
Antimony	**8.8**	5.1	6010B	7-13-11	7-13-11	
Arsenic	**14**	10	6010B	7-13-11	7-13-11	
Chromium	**40**	0.51	6010B	7-13-11	7-13-11	
Copper	**78**	1.0	6010B	7-13-11	7-13-11	
Lead	**18**	5.1	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.25	7471A	7-14-11	7-14-11	
Nickel	**50**	2.5	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.5	6020	7-13-11	7-14-11	
Zinc	**260**	2.5	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-25					
Client ID:	**KCP4-SO-462-S-110712**					
Antimony	**ND**	5.1	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**40**	0.51	6010B	7-13-11	7-13-11	
Copper	**76**	1.0	6010B	7-13-11	7-13-11	
Lead	**10**	5.1	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.25	7471A	7-14-11	7-14-11	
Nickel	**48**	2.5	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.5	6020	7-13-11	7-14-11	
Zinc	**180**	2.5	6010B	7-13-11	7-13-11	
Lab ID:	07-070-26					
Client ID:	**KCP4-SO-463-B-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**30**	0.53	6010B	7-13-11	7-13-11	
Copper	**52**	1.1	6010B	7-13-11	7-13-11	
Lead	**40**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**69**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**51**	2.6	6010B	7-13-11	7-13-11	

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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-27					
Client ID:	**KCP4-SO-464-D-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**22**	0.53	6010B	7-13-11	7-13-11	
Copper	**17**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**40**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**28**	2.6	6010B	7-13-11	7-13-11	
Lab ID:	07-070-28					
Client ID:	**KCP4-SO-465-B-110712**					
Antimony	**ND**	5.1	6010B	7-13-11	7-13-11	
Arsenic	**ND**	10	6010B	7-13-11	7-13-11	
Chromium	**29**	0.51	6010B	7-13-11	7-13-11	
Copper	**60**	1.0	6010B	7-13-11	7-13-11	
Lead	**12**	5.1	6010B	7-13-11	7-13-11	
Mercury	**0.26**	0.26	7471A	7-14-11	7-14-11	
Nickel	**42**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**230**	2.6	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
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TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-070-29					
Client ID:	**KCP4-SO-466-B-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**24**	0.53	6010B	7-13-11	7-13-11	
Copper	**16**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.26	7471A	7-14-11	7-14-11	
Nickel	**49**	2.6	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.6	6020	7-13-11	7-14-11	
Zinc	**25**	2.6	6010B	7-13-11	7-13-11	
Lab ID:	07-070-30					
Client ID:	**KCP4-SO-467-B-110712**					
Antimony	**ND**	5.3	6010B	7-13-11	7-13-11	
Arsenic	**ND**	11	6010B	7-13-11	7-13-11	
Chromium	**15**	0.53	6010B	7-13-11	7-13-11	
Copper	**12**	1.1	6010B	7-13-11	7-13-11	
Lead	**ND**	5.3	6010B	7-13-11	7-13-11	
Mercury	**ND**	0.27	7471A	7-14-11	7-14-11	
Nickel	**41**	2.7	6010B	7-13-11	7-13-11	
Thallium	**ND**	2.7	6020	7-13-11	7-14-11	
Zinc	**21**	2.7	6010B	7-13-11	7-13-11	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-13-11
Date Analyzed:	7-13&14-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0713S3&MB0714S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	7-13-11
Date Analyzed:	7-13&14-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0713S4&MB0714S3

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 7-13-11
Date Analyzed: 7-13&14-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-070-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**12.6**	**16.5**	26	10	C
Chromium	**38.9**	**40.3**	3	0.50	
Copper	**93.7**	**99.5**	6	1.0	
Lead	**41.5**	**43.7**	5	5.0	
Mercury	**0.295**	**0.264**	11	0.25	
Nickel	**47.0**	**47.8**	2	2.5	
Thallium	**ND**	**ND**	NA	25.0	
Zinc	**548**	**610**	11	2.5	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 7-13-11
Date Analyzed: 7-13&14-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-070-20

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**31.2**	**30.6**	2	0.50	
Copper	**49.7**	**50.3**	1	1.0	
Lead	**34.3**	**34.6**	1	5.0	
Mercury	**0.669**	**ND**	NA	0.25	
Nickel	**66.4**	**63.9**	4	2.5	
Thallium	**ND**	**ND**	NA	25.0	
Zinc	**52.1**	**48.2**	8	2.5	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 7-13-11
Date Analyzed: 7-13,14&15-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-070-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**81.8**	82	**85.8**	86	5	
Arsenic	100	**108**	95	**107**	95	0	
Chromium	100	**127**	88	**128**	89	1	
Copper	50.0	**145**	103	**148**	109	2	
Lead	250	**258**	87	**260**	87	1	
Mercury	0.500	**0.688**	78	**0.676**	76	2	
Nickel	100	**136**	89	**138**	91	1	
Thallium	50.0	**52.6**	105	**53.6**	107	2	
Zinc	100	**708**	160	**691**	144	2	A

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 7-13-11
Date Analyzed: 7-13&14-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-070-20

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**82.0**	82	**83.7**	84	2	
Arsenic	100	**98.8**	99	**98.5**	98	0	
Chromium	100	**120**	89	**119**	88	1	
Copper	50.0	**106**	113	**96.8**	94	9	
Lead	250	**267**	93	**260**	90	3	
Mercury	0.500	**0.652**	-3	**0.646**	-5	1	V
Nickel	100	**156**	90	**155**	89	1	
Thallium	50.0	**52.2**	104	**51.5**	103	1	
Zinc	100	**145**	93	**146**	94	1	

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 7-13-11
Date Analyzed: 7-13,14&15-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0713S3&SB0714S2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**83.9**	84
Arsenic	6010B	100	**93.3**	93
Chromium	6010B	100	**94.3**	94
Copper	6010B	50.0	**49.8**	100
Lead	6010B	250	**238**	95
Mercury	7471A	0.500	**0.498**	100
Nickel	6010B	100	**97.6**	98
Thallium	6020	50.0	**53.4**	107
Zinc	6010B	100	**96.3**	96

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANK QUALITY CONTROL

Date Extracted: 7-13-11
Date Analyzed: 7-13&14-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0713S4&SB0714S3

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**87.5**	88
Arsenic	6010B	100	**95.7**	96
Chromium	6010B	100	**96.1**	96
Copper	6010B	50.0	**50.8**	102
Lead	6010B	250	**244**	98
Mercury	7471A	0.500	**0.492**	98
Nickel	6010B	100	**101**	101
Thallium	6020	50.0	**53.9**	108
Zinc	6010B	100	**99.6**	100

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV071311P	1.00	0.934	6.6	+/- 10%
Arsenic	ICV071311P	1.00	0.944	5.6	+/- 10%
Chromium	ICV071311P	1.00	0.965	3.5	+/- 10%
Copper	ICV071311P	1.00	0.975	2.5	+/- 10%
Lead	ICV071311P	1.00	1.03	-3.0	+/- 10%
Mercury	ICV071411Y	0.00500	0.00467	6.6	+/- 10%
Nickel	ICV071311P	1.00	0.991	0.90	+/- 10%
Thallium	ICV071411E	0.0500	0.0523	-4.6	+/- 10%
Zinc	ICV071311P	1.00	0.940	6.0	+/- 10%
Antimony	CCV1071311P	1.00	0.921	7.9	+/- 10%
Arsenic	CCV1071311P	1.00	0.906	9.4	+/- 10%
Chromium	CCV1071311P	1.00	0.942	5.8	+/- 10%
Copper	CCV1071311P	1.00	0.943	5.7	+/- 10%
Lead	CCV1071311P	10.0	9.44	5.6	+/- 10%
Mercury	CCV1071411Y	0.00500	0.00472	5.6	+/- 20%
Nickel	CCV1071311P	1.00	0.947	5.3	+/- 10%
Thallium	CCV1071411E	0.0400	0.0409	-2.3	+/- 10%
Zinc	CCV1071311P	1.00	0.922	7.8	+/- 10%
Antimony	CCV2071311P	1.00	0.910	9.0	+/- 10%
Arsenic	CCV2071311P	1.00	0.910	9.0	+/- 10%
Chromium	CCV2071311P	1.00	0.949	5.1	+/- 10%
Copper	CCV2071311P	1.00	0.941	5.9	+/- 10%
Lead	CCV2071311P	10.0	9.50	5.0	+/- 10%
Mercury	CCV2071411Y	0.00500	0.00481	3.8	+/- 20%
Nickel	CCV2071311P	1.00	0.946	5.4	+/- 10%
Thallium	CCV2071411E	0.0400	0.0412	-3.0	+/- 10%
Zinc	CCV2071311P	1.00	0.933	6.7	+/- 10%

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	CCV3071311P	1.00	0.919	8.1	+/- 10%
Arsenic	CCV3071311P	1.00	0.916	8.4	+/- 10%
Chromium	CCV3071311P	1.00	0.949	5.1	+/- 10%
Copper	CCV3071311P	1.00	0.937	6.3	+/- 10%
Lead	CCV3071311P	10.0	9.50	5.0	+/- 10%
Mercury	CCV3071411Y	0.00500	0.00467	6.6	+/- 20%
Nickel	CCV3071311P	1.00	0.943	5.7	+/- 10%
Thallium	CCV3071411E	0.0400	0.0414	-3.5	+/- 10%
Zinc	CCV3071311P	1.00	0.934	6.6	+/- 10%
Antimony	CCV4071311P	1.00	0.915	8.5	+/- 10%
Arsenic	CCV4071311P	1.00	0.938	6.2	+/- 10%
Chromium	CCV4071311P	1.00	0.958	4.2	+/- 10%
Copper	CCV4071311P	1.00	0.946	5.4	+/- 10%
Lead	CCV4071311P	10.0	9.64	3.6	+/- 10%
Mercury	CCV4071411Y	0.00500	0.00461	7.8	+/- 20%
Nickel	CCV4071311P	1.00	0.963	3.7	+/- 10%
Thallium	CCV4071411E	0.0400	0.0419	-4.8	+/- 10%
Zinc	CCV4071311P	1.00	0.950	5.0	+/- 10%
Antimony	CCV5071311P	1.00	0.944	5.6	+/- 10%
Arsenic	CCV5071311P	1.00	0.941	5.9	+/- 10%
Chromium	CCV5071311P	1.00	0.967	3.3	+/- 10%
Copper	CCV5071311P	1.00	0.952	4.8	+/- 10%
Lead	CCV5071311P	10.0	9.72	2.8	+/- 10%
Mercury	CCV5071411Y	0.00500	0.00468	6.4	+/- 20%
Nickel	CCV5071311P	1.00	0.969	3.1	+/- 10%
Thallium	CCV5171411E	0.0400	0.0418	-4.5	+/- 10%
Zinc	CCV5071311P	1.00	0.958	4.2	+/- 10%
Mercury	CCV6071411Y	0.00500	0.00467	6.6	+/- 20%
Thallium	CCV6171411E	0.0400	0.0417	-4.3	+/- 10%

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

TOTAL METALS
EPA 6020
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Thallium	ICV071511E	0.0500	0.0511	-2.2	+/- 10%
Thallium	CCV1071511E	0.0400	0.0389	2.8	+/- 10%
Thallium	CCV2071511E	0.0400	0.0401	-0.25	+/- 10%

Date of Report: July 15, 2011
Samples Submitted: July 13, 2011
Laboratory Reference: 1107-070
Project: 000105-01.09

% MOISTURE

Date Analyzed: 7-14-11

Client ID	Lab ID	% Moisture
KCP4-SO-438-S-110712	07-070-01	7
KCP4-SO-439-S-110712	07-070-02	4
KCP4-SO-440-S-110712	07-070-03	11
KCP4-SO-441-S-110712	07-070-04	16
KCP4-SO-442-S-110712	07-070-05	2
KCP4-SO-443-B-110712	07-070-06	7
KCP4-SO-444-D-110712	07-070-07	7
KCP4-SO-445-B-110712	07-070-08	8
KCP4-SO-446-B-110712	07-070-09	7
KCP4-SO-447-B-110712	07-070-10	6
KCP4-SO-448-B-110712	07-070-11	5
KCP4-SO-449-B-110712	07-070-12	6
KCP4-SO-450-B-110712	07-070-13	3
KCP4-SO-451-B-110712	07-070-14	4
KCP4-SO-452-B-110712	07-070-15	4
KCP4-SO-453-B-110712	07-070-16	3
KCP4-SO-454-S-110712	07-070-17	1
KCP4-SO-455-S-110712	07-070-18	1
KCP4-SO-456-B-110712	07-070-19	3
KCP4-SO-457-D-110712	07-070-20	3
KCP4-SO-458-B-110712	07-070-21	6
KCP4-SO-459-B-110712	07-070-22	5
KCP4-SO-460-S-110712	07-070-23	3
KCP4-SO-461-S-110712	07-070-24	1
KCP4-SO-462-S-110712	07-070-25	1
KCP4-SO-463-B-110712	07-070-26	5
KCP4-SO-464-D-110712	07-070-27	5
KCP4-SO-465-B-110712	07-070-28	3
KCP4-SO-466-B-110712	07-070-29	5
KCP4-SO-467-B-110712	07-070-30	6

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: Liz Vorlick / WES MACDONALD

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 07-070

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*						% Moisture
1	KCP4-SO-438-S-110712	7/12/11	0845	SO	1																X						X
2	KCP4-SO-439-S-110712		0850																		X						X
3	KCP4-SO-440-S-110712		0855																		X						X
4	KCP4-SO-441-S-110712		0900																		X						X
5	KCP4-SO-442-S-110712		0905																		X						X
6	KCP4-SO-443-B-110712		0930																		X						X
7	KCP4-SO-444-D-110712		0935																		X						X
8	KCP4-SO-445-B-110712		0940																		X						X
9	KCP4-SO-446-B-110712		0945																		X						X
10	KCP4-SO-447-B-110712	↓	0950	↓	↓																X						X

	Signature	Company	Date	Time
Relinquished	Wesley Mac	ANCHOR QEA	7/13/11	0800
Received	PMCKalzon	OSE	7.13.11	8:10A
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Anchor QEA
Project Number: 000105-01.09
Project Name: KC Phase 4
Project Manager: Rebecca Gardner
Sampled by: ~~Liz Voncrx~~ / WES MACDONALD

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☒ 2 Days ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 07-070

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Metals*						% Moisture
11	KCP4-SO-448-B-110712	7/12/11	0950	SO	1																X						X
12	KCP4-SO-449-B-110712		1000																		X						X
13	KCP4-SO-450-B-110712		1005																		X						X
14	KCP4-SO-451-B-110712		1010																		X						X
15	KCP4-SO-452-B-110712		1215																		X						X
16	KCP4-SO-453-B-110712		1220																		X						X
17	KCP4-SO-454-S-110712		1225																		X						X
18	KCP4-SO-455-S-110712		1230																		X						X
19	KCP4-SO-456-B-110712		1235																		X						X
20	KCP4-SO-457-D-110712	↓	1240	↓	↓																X						X

	Signature	Company	Date	Time
Relinquished	[signature]	ANCHOR QEA	7/13/11	0800
Received	[signature]	OSE	7.13.11	8:10
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

*Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: ANCHOR QEA
Project Number: 000105-01.09
Project Name: KC PHASE 4
Project Manager: REBECCA GARDNER
Sampled by: WES MACDONALD

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 07-070

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	METALS *						% Moisture
21	KCP4-SO-458-B-110712	7/12/11	1245	SO	1																X						X
22	KCP4-SO-459-B-110712		1250																		X						X
23	KCP4-SO-460-S-110712		1255																		X						X
24	KCP4-SO-461-S-110712		1300																		X						X
25	KCP4-SO-462-S-110712		1305																		X						X
26	KCP4-SO-463-B-110712		1310																		X						X
27	KCP4-SO-464-D-110712		1315																		X						X
28	KCP4-SO-465-B-110712		1320																		X						X
29	KCP4-SO-466-B-110712		1325																		X						X
30	KCP4-SO-467-B-110712		1330																		X						X

	Signature	Company	Date	Time
Relinquished	Wesley MacDonald	ANCHOR QEA	7/13/11	0905
Received	[illegible]	CSE	7.13.11	8:10
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Sb, As, Cr, Cu, Pb, Hg, Ni, Ti, Zn

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: 000105-01.09

OnSite Project Number: 07-070

Initiated by: RL

Date Initiated: 7.13.11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 1 °C		
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No	1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No	1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No	1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No	1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No	1 2 3 4	
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

24) Sample 11) KCP4-SO-448-B-110712 7/12/11 0950 on COC 0955 on label

Sample 26) KCP4-SO-463-B-110712 7/12/11 1310 on COC & lid ✗

KCP4-SO-463-S-110712 " " on label

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 2, 2011

Rebecca Gardner
Anchor QEA
720 Olive Way, Suite 1600
Seattle, WA 98101

Re: Analytical Data for Project KPC4
Laboratory Reference No. 1107-214

Dear Rebecca:

Enclosed are the analytical results and associated quality control data for samples submitted on July 29, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

Case Narrative

Samples were collected on July 28, 2011 and received by the laboratory on July 29, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

TOTAL METALS
EPA 6010B/6020/7471A

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	07-214-01					
Client ID:	**KCP4-SO-468-B-110728**					
Antimony	**ND**	5.3	6010B	8-1-11	8-1-11	
Arsenic	**ND**	11	6010B	8-1-11	8-1-11	
Chromium	**33**	0.53	6010B	8-1-11	8-1-11	
Copper	**23**	1.1	6010B	8-1-11	8-1-11	
Lead	**5.4**	5.3	6010B	8-1-11	8-1-11	
Mercury	**ND**	0.26	7471A	8-1-11	8-1-11	
Nickel	**64**	2.6	6010B	8-1-11	8-1-11	
Thallium	**ND**	2.6	6020	8-1-11	8-2-11	
Zinc	**48**	2.6	6010B	8-1-11	8-1-11	
Lab ID:	07-214-02					
Client ID:	**KCP4-SO-469-D-110728**					
Antimony	**ND**	5.3	6010B	8-1-11	8-1-11	
Arsenic	**ND**	11	6010B	8-1-11	8-1-11	
Chromium	**24**	0.53	6010B	8-1-11	8-1-11	
Copper	**23**	1.1	6010B	8-1-11	8-1-11	
Lead	**ND**	5.3	6010B	8-1-11	8-1-11	
Mercury	**ND**	0.26	7471A	8-1-11	8-1-11	
Nickel	**58**	2.6	6010B	8-1-11	8-1-11	
Thallium	**ND**	2.6	6020	8-1-11	8-2-11	
Zinc	**50**	2.6	6010B	8-1-11	8-1-11	

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

TOTAL METALS
EPA 6010B/6020/7471A
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-1-11
Date Analyzed:	8-1&2-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0801S1&MB0801S2

Analyte	Method	Result	PQL
Antimony	6010B	**ND**	5.0
Arsenic	6010B	**ND**	10
Chromium	6010B	**ND**	0.50
Copper	6010B	**ND**	1.0
Lead	6010B	**ND**	5.0
Mercury	7471A	**ND**	0.25
Nickel	6010B	**ND**	2.5
Thallium	6020	**ND**	2.5
Zinc	6010B	**ND**	2.5

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

TOTAL METALS
EPA 6010B/6020/7471A
DUPLICATE QUALITY CONTROL

Date Extracted: 8-1-11
Date Analyzed: 8-1&2-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-214-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	**ND**	**ND**	NA	5.0	
Arsenic	**ND**	**ND**	NA	10	
Chromium	**30.8**	**28.8**	7	0.50	
Copper	**22.1**	**27.0**	20	1.0	
Lead	**5.07**	**5.97**	16	5.0	
Mercury	**ND**	**ND**	NA	0.25	
Nickel	**60.3**	**69.1**	14	2.5	
Thallium	**ND**	**ND**	NA	2.5	
Zinc	**45.1**	**55.2**	20	2.5	

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

TOTAL METALS
EPA 6010B/6020/7471A
MS/MSD QUALITY CONTROL

Date Extracted: 8-1-11
Date Analyzed: 8-1&2-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 07-214-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	**94.8**	95	**90.6**	91	5	
Arsenic	100	**99.3**	99	**98.8**	99	1	
Chromium	100	**126**	96	**122**	91	3	
Copper	50.0	**75.9**	108	**76.2**	108	0	
Lead	250	**224**	87	**219**	86	2	
Mercury	0.500	**0.555**	111	**0.51**	102	9	
Nickel	100	**157**	97	**155**	95	1	
Thallium	50.0	**54.3**	109	**53.8**	108	1	
Zinc	100	**153**	107	**161**	116	5	

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

TOTAL METALS
EPA 6010B/6020/7471A
SPIKE BLANKS QUALITY CONTROL

Date Extracted: 8-1-11
Date Analyzed: 8-1&2-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0801S1&SB0801S2

Analyte	Method	Spike Level	SB	Percent Recovery
Antimony	6010B	100	**99.2**	99
Arsenic	6010B	100	**98.3**	98
Chromium	6010B	100	**100**	100
Copper	6010B	50.0	**51.3**	103
Lead	6010B	250	**232**	93
Mercury	7471A	0.500	**0.469**	94
Nickel	6010B	100	**98.9**	99
Thallium	6020	50.0	**54.5**	109
Zinc	6010B	100	**103**	103

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

TOTAL METALS
EPA 6010B/6020/7471A
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Antimony	ICV080111P	1.00	1.05	-5.0	+/- 10%
Arsenic	ICV080111P	1.00	1.01	-1.0	+/- 10%
Chromium	ICV080111P	1.00	1.06	-6.0	+/- 10%
Copper	ICV080111P	1.00	1.05	-5.0	+/- 10%
Lead	ICV080111P	1.00	1.05	-5.0	+/- 10%
Mercury	ICV080111Y	0.00500	0.00482	3.6	+/- 10%
Nickel	ICV080111P	1.00	1.06	-6.0	+/- 10%
Thallium	ICV080211E	0.0500	0.0538	-7.6	+/- 10%
Zinc	ICV080111P	1.00	1.05	-5.0	+/- 10%
Antimony	CCV1080111P	1.00	0.964	3.6	+/- 10%
Arsenic	CCV1080111P	1.00	0.962	3.8	+/- 10%
Chromium	CCV1080111P	1.00	0.994	0.60	+/- 10%
Copper	CCV1080111P	1.00	0.989	1.1	+/- 10%
Lead	CCV1080111P	10.0	9.80	2.0	+/- 10%
Mercury	CCV1080111P	0.00500	0.00511	-2.2	+/- 20%
Nickel	CCV1080111P	1.00	0.987	1.3	+/- 10%
Thallium	CCV1080211P	0.0400	0.0420	-5.0	+/- 10%
Zinc	CCV1080111P	1.00	0.994	0.60	+/- 10%
Antimony	CCV2080111P	1.00	0.975	2.5	+/- 10%
Arsenic	CCV2080111P	1.00	0.996	0.40	+/- 10%
Chromium	CCV2080111P	1.00	1.03	-3.0	+/- 10%
Copper	CCV2080111P	1.00	1.02	-2.0	+/- 10%
Lead	CCV2080111P	10.0	10.1	-1.0	+/- 10%
Mercury	CCV2080111P	0.00500	0.00508	-1.6	+/- 20%
Nickel	CCV2080111P	1.00	1.02	-2.0	+/- 10%
Thallium	CCV2080211P	0.0400	0.0430	-7.5	+/- 10%
Zinc	CCV2080111P	1.00	1.01	-1.0	+/- 10%

Date of Report: August 2, 2011
Samples Submitted: July 29, 2011
Laboratory Reference: 1107-214
Project: KPC4

% MOISTURE

Date Analyzed: 8-1-11

Client ID	Lab ID	% Moisture
KCP4-SO-468-B-110728	07-214-01	5
KCP4-SO-469-D-110728	07-214-02	5

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody Record & Laboratory Analysis Request

COC# 1 OF 1

07-214

Date: 7/28/11
Laboratory Number: ON SITE ENV. INC.
Project Name: ~~Duwamish Shipyard Upland RI~~ KCP4
Project Number: ~~080111-01~~
Project Manager: ~~Ben Howard~~ REBECCA DESROSIERS
Phone Number: ~~206-234-6704~~ 206 287 9130
Shipment Method: FED EX

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	SOIL: Arsenic	SOIL: Metals	SOIL: TPH - Gas	SOIL: TPH - Dx[3]	SOIL: Petroleum Fractioning (VPH/EPH)	SOIL: SVOC	SOIL: BTEX	SOIL: GS[2]	SOIL: MC[2]	SOIL: AL[2]	SOIL: SG[2]	SOIL: CuTriax/ Consolidation	SOIL: Archive	Groundwater: Dissolved Arsenic	Groundwater: Dissolved Metals	Groundwater: SVOC	Groundwater: TPH-Gas	Groundwater: TPH - Dx[3]	Groundwater: VOC	Groundwater: NO_3, SO_4, H_2S, Alkalinity	Comments
1	KCP4-SO-468-B-110728	7/28/11 0830	SOIL	1		X																			% MOISTURE
2	KCP4-SO-469-D-110728	↓ 0835	↓	1		X																			↓
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

7/28/11

1 See Work Order tables for analyte lists, test methods, and detection limits
2 AL = Atterburg Limits, MC= Moisture Content, GS= Grainsize, SG= Specific Gravity
3 TPH-Dx analysis to be performed with silica-gel cleanup methodology

Additional notes/comments: 2 DAY TAT

Relinquished By:	Company:	Received By:	Company:
WESLEY MACDONALD	Anchor QEA LLC.	IMRAN	ONS
Signature/Printed Name	Date/Time: 7/28/11 11:30	Signature/Printed Name	Date/Time: 7/29/11 920
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Sample/Cooler Receipt and Acceptance Checklist

Client: ANC

Client Project Name/Number: KCPH

OnSite Project Number: 07-214

Initiated by: MM

Date Initiated: 7/28/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	Temperature: 3	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A		
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and air bubbles?	Yes	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

NVL Laboratories, Inc.
4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Anchor QEA, LLC
Address: 1423 3rd Ave, Suite 200
Seattle, WA 98101

Attention: Mr. John Laplante
Project Location: Kimberly Clark Anacortes

Batch #: 3002559.00
Client Project #: N/A
Date Received: 03/02/2010
Samples Received: 1
Samples Analyzed: 1
Method: EPA/600R-93/116

Lab ID: 30012852 **Client Sample #: KC-P4-Pipe-20100302**

Location: Kimberly Clark Anacortes

Layer 1 of 2	**Description:** Black asphaltic material (on metal)			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Rust	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Black thin asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Rust	None Detected	ND	**None Detected ND**

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk **Date:** 03/03/2010

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

ANCHOR QEA

1423 Third Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287.9131

Data Validation Review Report – EPA Level 2

Project: Kimberly Clark Construction Monitoring Phase 4

Project Number: 000105-01

Date: March 8, 2010

This report summarizes the review of analytical results for 107 soil samples collected on December 11 and 22, 2009 and January 8 and 11, 2010. Samples were collected by Anchor QEA, LLC and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. Samples were analyzed for the following:

- Polycyclic Aromatic Hydrocarbons (PAHs) by United States Environmental Protection Agency (USEPA) method 8270D SIM
- Total metals by USEPA methods 6010B, 6020, and 7471A
- TCLP metals by USEPA methods 1311, 6010B, and 7471A

OnSite sample data group (SDG) numbers 0912-085, 0912-146, 1001-052, and 1001-068 were reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO01-S-091211	0912-085-01	Soil	Metals, PAHs
KCP4-SO02-S-091211	0912-085-02	Soil	Metals, PAHs
KCP4-SO03-S-091211	0912-085-03	Soil	Metals, PAHs
KCP4-SO04-S-091211	0912-085-04	Soil	Metals, PAHs
KCP4-SO01-B-091211	0912-085-05	Soil	Metals, PAHs
KCP4-SO01B-B-091211	0912-085-06	Soil	Metals, PAHs
KCP4-ERB01-091211	0912-085-07	Soil	Metals, PAHs
KCP4-SO01-S-091222	0912-146-01	Soil	Metals, PAHs
KCP4-SO02-S-091222	0912-146-02	Soil	Metals, PAHs
KCP4-SO04-S-091222	0912-146-03	Soil	Metals, PAHs
KCP4-SO04-SD-091222	0912-146-04	Soil	Metals, PAHs
KCP4-SO01-B-091222	0912-146-05	Soil	Metals, PAHs

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO23-S-100108	1001-052-01	Soil	Metals
KCP4-SO24-S-100108	1001-052-02	Soil	Metals
KCP4-SO25-S-100108	1001-052-03	Soil	Metals
KCP4-SO26-S-100108	1001-052-04	Soil	Metals
KCP4-SO27-S-100108	1001-052-05	Soil	Metals
KCP4-SO28-S-100108	1001-052-06	Soil	Metals
KCP4-SO29-S-100108	1001-052-07	Soil	Metals
KCP4-SO30-S-100108	1001-052-08	Soil	Metals
KCP4-SO31-S-100108	1001-052-09	Soil	Metals
KCP4-SO32-S-100108	1001-052-10	Soil	Metals
KCP4-SO33-S-100108	1001-052-11	Soil	Metals
KCP4-SO34-S-100108	1001-052-12	Soil	Metals
KCP4-SO35-S-100108	1001-052-13	Soil	Metals
KCP4-SO36-S-100108	1001-052-14	Soil	Metals
KCP4-SO37-S-100108	1001-052-15	Soil	Metals
KCP4-SO38-S-100108	1001-052-16	Soil	Metals
KCP4-SO39-S-100108	1001-052-17	Soil	Metals
KCP4-SO40-S-100108	1001-052-18	Soil	Metals
KCP4-SO41-S-100108	1001-052-19	Soil	Metals
KCP4-SO42-S-100108	1001-052-20	Soil	Metals
KCP4-SO43-S-100108	1001-052-21	Soil	Metals
KCP4-SO44-S-100108	1001-052-22	Soil	Metals
KCP4-SO45-S-100108	1001-052-23	Soil	Metals
KCP4-SO46-S-100108	1001-052-24	Soil	Metals
KCP4-SO47-S-100108	1001-052-25	Soil	Metals
KCP4-SO48-S-100108	1001-052-26	Soil	Metals
KCP4-SO49-S-100108	1001-052-27	Soil	Metals
KCP4-SO50-S-100108	1001-052-28	Soil	Metals
KCP4-SO51-S-100108	1001-052-29	Soil	Metals
KCP4-SO52-S-100108	1001-052-30	Soil	Metals
KCP4-SO53-B-100108	1001-052-31	Soil	Metals
KCP4-SO54-B-100108	1001-052-32	Soil	Metals
KCP4-SO55-B-100108	1001-052-33	Soil	Metals
KCP4-SO56-B-100108	1001-052-34	Soil	Metals
KCP4-SO57-B-100108	1001-052-35	Soil	Metals
KCP4-SO58-B-100108	1001-052-36	Soil	Metals
KCP4-SO59-B-100108	1001-052-37	Soil	Metals
KCP4-SO60-B-100108	1001-052-38	Soil	Metals
KCP4-SO61-B-100108	1001-052-39	Soil	Metals
KCP4-SO62-B-100108	1001-052-40	Soil	Metals
KCP4-SO63-B-100108	1001-052-41	Soil	Metals
KCP4-SO64-B-100108	1001-052-42	Soil	Metals
KCP4-SO65-B-100108	1001-052-43	Soil	Metals
KCP4-SO66-B-100108	1001-052-44	Soil	Metals
KCP4-SO67-B-100108	1001-052-45	Soil	Metals
KCP4-SO68-B-100108	1001-052-46	Soil	Metals
KCP4-SO69-B-100108	1001-052-47	Soil	Metals
KCP4-SO70-B-100108	1001-052-48	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO71-B-100108	1001-052-49	Soil	Metals
KCP4-SO72-B-100108	1001-052-50	Soil	Metals
KCP4-SO73-B-100108	1001-052-51	Soil	Metals
KCP4-SO74-B-100108	1001-052-52	Soil	Metals
KCP4-SO75-B-100108	1001-052-53	Soil	Metals
KCP4-SO76-B-100108	1001-052-54	Soil	Metals
KCP4-SO77-B-100108	1001-052-55	Soil	Metals
KCP4-SO78-B-100108	1001-052-56	Soil	Metals
KCP4-SO79-B-100108	1001-052-57	Soil	Metals
KCP4-SO80-B-100108	1001-052-58	Soil	Metals
KCP4-SO81-B-100108	1001-052-59	Soil	Metals
KCP4-SO82-B-100108	1001-052-60	Soil	Metals
KCP4-SO83-B-100108	1001-052-61	Soil	Metals
KCP4-SO84-B-100108	1001-052-62	Soil	Metals
KCP4-SO85-B-100108	1001-052-63	Soil	Metals
KCP4-SO86-B-100108	1001-052-64	Soil	Metals
KCP4-SO87-B-100108	1001-052-65	Soil	Metals
KCP4-SO88-B-100108	1001-052-66	Soil	Metals
KCP4-SO89-B-100108	1001-052-67	Soil	Metals
KCP4-SO90-B-100108	1001-052-68	Soil	Metals
KCP4-SO91-B-100108	1001-052-69	Soil	Metals
KCP4-SO92-B-100108	1001-052-70	Soil	Metals
KCP4-SO93-B-100108	1001-052-71	Soil	Metals
KCP4-SO94-B-100108	1001-052-72	Soil	Metals
KCP4-SO32D-S-100108	1001-052-73	Soil	Metals
KCP4-SO42D-S-100108	1001-052-74	Soil	Metals
KCP4-SO52D-S-100108	1001-052-75	Soil	Metals
KCP4-SO62D-B-100108	1001-052-76	Soil	Metals
KCP4-SO72D-B-100108	1001-052-77	Soil	Metals
KCP4-SO82D-B-100108	1001-052-78	Soil	Metals
KCP4-SO92D-B-100108	1001-052-79	Soil	Metals
KCP4-SO98-B-100111	1001-068-01	Soil	Metals
KCP4-SO99-B-100111	1001-068-02	Soil	Metals
KCP4-SO100-B-100111	1001-068-03	Soil	Metals
KCP4-SO101-B-100111	1001-068-04	Soil	Metals
KCP4-SO102-B-100111	1001-068-05	Soil	Metals
KCP4-SO103-B-100111	1001-068-06	Soil	Metals
KCP4-SO104-B-100111	1001-068-07	Soil	Metals
KCP4-SO105-B-100111	1001-068-08	Soil	Metals
KCP4-SO106-B-100111	1001-068-09	Soil	Metals
KCP4-SO107-B-100111	1001-068-10	Soil	Metals
KCP4-SO108-B-100111	1001-068-11	Soil	Metals
KCP4-SO109-B-100111	1001-068-12	Soil	Metals
KCP4-SO110-B-100111	1001-068-13	Soil	Metals
KCP4-SO111-B-100111	1001-068-14	Soil	Metals
KCP4-SO112-B-100111	1001-068-15	Soil	Metals
KCP4-SO95-B-100111	1001-068-16	Soil	Metals
KCP4-SO96-B-100111	1001-068-17	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO97-B-100111	1001-068-18	Soil	Metals
KCP4-SO113-B-100111	1001-068-19	Soil	Metals
KCP4-SO114-B-100111	1001-068-20	Soil	Metals
KCP4-SO115-B-100111	1001-068-21	Soil	Metals, TCLP Metals
KCP4-SO116-B-100111	1001-068-22	Soil	Metals, TCLP Metals
KCP4-SO117-B-100111	1001-068-23	Soil	Metals
KCP4-SO118-B-100111	1001-068-24	Soil	Metals
KCP4-SO102D-B-100111	1001-068-26	Soil	Metals
KCP4-SO112D-B-100111	1001-068-27	Soil	Metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective section of the Sampling and Analysis Plan (SAP). Laboratory results were reviewed following USEPA guidelines using *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review (USEPA, 2004) and USEPA Contract Laboratory National Functional Guidelines for Organics Data Review* (*USEPA, 1999*) as guidelines, and applying laboratory and method QC criteria as stated in SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custodies were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition. Sample IDs are incorrect on the COC for SDG 0912-146. For example, the first sample on the COC is written as "KCP4-SO4-S-122209". In order to maintain consistency with the rest of the project, the sample IDs were changed in the data report and the database to include both an "O" and a "0" in the second term. The last term refers to the date collected and was changed from the format MMDDYY to the format YYMMDD. Therefore, in the above example, the sample ID is reported as "KCP4-SO04-S-091222."

Holding Times and Sample Preservation

Samples were appropriately preserved and analyzed within holding times

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Rinse Blanks

One rinse blank was analyzed in association with this sample group: KCP4-ERB01-091211. No target analytes were detected in the rinse blank.

Field Duplicates

Ten sets of field duplicates were collected in association with these sample groups. Detected results are summarized in Table 2.

Table 2
Duplicate Sample Summary

Analyte	KCP4-SO04-S-091222	KCP4-SO04-SD-091222	RPD
Chromium	32 mg/kg	20 mg/kg	46%
Copper	76 mg/kg	26 mg/kg	98%
Lead	9.1 mg/kg	6.6 mg/kg	32%
Nickel	33 mg/kg	36 mg/kg	9%
Zinc	150 mg/kg	30 mg/kg	133%
Phenanthrene	7.2U µg/kg	12 µg/kg	200%
Fluoranthene	7.2U µg/kg	34 µg/kg	200%
Pyrene	7.2U µg/kg	31 µg/kg	200%
Benzo(a)anthracene	7.2U µg/kg	17 µg/kg	200%
Chrysene	7.2U µg/kg	19 µg/kg	200%
Benzo(b)fluoranthene	7.2U µg/kg	17 µg/kg	200%
Benzo(k)fluoranthene	7.2U µg/kg	15 µg/kg	200%
Benzo(a)pyrene	7.2U µg/kg	20 µg/kg	200%
Indeno(1,2,3-cd)pyrene	7.2U µg/kg	11 µg/kg	200%
Benzo(g,h,i)perylene	7.2U µg/kg	13 µg/kg	200%

Analyte	KCP4-SO32-S-100108	KCP4-SO32D-S-100108	RPD
Antimony	5.2U mg/kg	6 mg/kg	200%

Analyte	KCP4-SO32-S-100108	KCP4-SO32D-S-100108	RPD
Lead	5.5 mg/kg	5.3U mg/kg	200%
Nickel	26 mg/kg	28 mg/kg	7%
Chromium	24 mg/kg	42 mg/kg	55%
Copper	56 mg/kg	59 mg/kg	5%
Zinc	85 mg/kg	90 mg/kg	6%

Analyte	KCP4-SO42-S-100108	KCP4-SO42D-S-100108	RPD
Lead	7.2 mg/kg	6.4 mg/kg	12%
Nickel	30 mg/kg	32 mg/kg	6%
Chromium	26 mg/kg	39 mg/kg	40%
Copper	56 mg/kg	65 mg/kg	15%
Zinc	81 mg/kg	89 mg/kg	9%
Mercury	0.26U mg/kg	0.42 mg/kg	200%

Analyte	KCP4-SO52-S-100108	KCP4-SO52D-S-100108	RPD
Lead	25 mg/kg	5.3U mg/kg	200%
Nickel	50 mg/kg	23 mg/kg	74%
Arsenic	14 mg/kg	11U mg/kg	200%
Chromium	47 mg/kg	42 mg/kg	11%
Copper	110 mg/kg	46 mg/kg	82%
Zinc	380 mg/kg	91 mg/kg	123%

Analyte	KCP4-SO62-B-100108	KCP4-SO62D-B-100108	RPD
Nickel	59 mg/kg	54 mg/kg	9%
Chromium	32 mg/kg	27 mg/kg	17%
Copper	21 mg/kg	19 mg/kg	10%
Zinc	32 mg/kg	31 mg/kg	3%

Analyte	KCP4-SO72-B-100108	KCP4-SO72D-B-100108	RPD
Nickel	36 mg/kg	43 mg/kg	18%
Chromium	16 mg/kg	24 mg/kg	40%
Copper	21 mg/kg	28 mg/kg	29%
Zinc	28 mg/kg	31 mg/kg	10%

Analyte	KCP4-SO82-B-100108	KCP4-SO82D-B-100108	RPD
Nickel	40 mg/kg	47 mg/kg	16%
Chromium	17 mg/kg	25 mg/kg	38%

Analyte	KCP4-SO82-B-100108	KCP4-SO82D-B-100108	RPD
Copper	16 mg/kg	18 mg/kg	12%
Zinc	26 mg/kg	30 mg/kg	14%

Analyte	KCP4-SO92-B-100108	KCP4-SO92D-B-100108	RPD
Nickel	32 mg/kg	38 mg/kg	17%
Chromium	26 mg/kg	34 mg/kg	27%
Copper	16 mg/kg	18 mg/kg	12%
Zinc	24 mg/kg	30 mg/kg	22%

Analyte	KCP4-SO102-B-100108	KCP4-SO102D-B-100108	RPD
Lead	5.5U mg/kg	5.9 mg/kg	200%
Nickel	27 mg/kg	32 mg/kg	17%
Chromium	19 mg/kg	23 mg/kg	19%
Copper	17 mg/kg	24 mg/kg	34%
Zinc	26 mg/kg	37 mg/kg	35%

Analyte	KCP4-SO112-B-100108	KCP4-SO112D-B-100108	RPD
Lead	6.3 mg/kg	10 mg/kg	45%
Nickel	27 mg/kg	29 mg/kg	7%
Chromium	25 mg/kg	23 mg/kg	8%
Copper	73 mg/kg	50 mg/kg	37%
Zinc	210 mg/kg	120 mg/kg	55%

Values at or near the reporting limit (RL) may have exaggerated relative percent difference (RPD) values. No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

MS and MSD samples were analyzed at the required frequencies for all analyses. All MS/MSD analyses yielded percent recoveries (%R)s and/or relative percent difference (RPD) values within the project data quality objectives with the exception of zinc in SDG 0912-085 which

recovered below data quality objectives in the MS. However, the MSD and MS/MSD RPD were within control limits so no data were qualified.

Laboratory Control Sample (LCS) and LCS Duplicate (LCSD)

An LCS and LCSD were analyzed at the required frequencies with a few exceptions. For some analyses, LCS/LCSDs were not analyzed but MS/MSDs were analyzed to evaluate precision and accuracy. All LCS/LCSD analyses resulted in recoveries within project required control limits.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. All RPD values were within the project required control limits with the following exceptions:

- 0912-085 Metals – The duplicate analyses of lead and zinc resulted in RPD values outside of data quality objectives. However, lead results were within five times the reporting limit and the difference between the sample and duplicate results was less than five times the reporting limit so the lead data are not qualified. Zinc results for all associated samples have been qualified "J" to indicate they are estimated.
- 1001-052 Metals – The RPD values for chromium and nickel were outside of data quality objectives for one set of duplicate analyses in this SDG. The chromium RPD value was outside of data quality objectives for a second set of duplicates. Associated results have been qualified "J" to indicate they are estimated.
- 1001-068 Metals – The chromium RPD value was outside of data quality objectives for one set of duplicates. Associated results have been qualified "J" to indicate they are estimated.

See Table 3 for qualified data.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory's reporting limits. Values were reported as undiluted, or when diluted, the reporting limit accurately reflects the dilution factor. Several PAH and metals non-detected reporting limits were slightly above those listed in the QAPP due to variations in sample moisture content and initial sample mass used for analysis.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was also acceptable as demonstrated by the laboratory duplicates, MS/MSD and LCS/LCSD RPD values, with the exceptions noted above. Most data were deemed acceptable as reported; all other data are acceptable as qualified. Table 3 summarizes the qualifiers applied to samples reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable.

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated.

Table 3
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO01-S-091211	Metals	Zinc	220 mg/kg	220J mg/kg	High duplicate RPD
KCP4-SO02-S-091211	Metals	Zinc	140 mg/kg	240J mg/kg	High duplicate RPD
KCP4-SO03-S-091211	Metals	Zinc	230 mg/kg	230J mg/kg	High duplicate RPD
KCP4-SO04-S-091211	Metals	Zinc	290 mg/kg	290J mg/kg	High duplicate RPD
KCP4-SO01-B-091211	Metals	Zinc	43 mg/kg	43J mg/kg	High duplicate RPD
KCP4-SO01B-B-091211	Metals	Zinc	27 mg/kg	27J mg/kg	High duplicate RPD
KCP4-SO43-S-100108	Metals	Chromium	34 mg/kg	34J mg/kg	High duplicate RPD
		Nickel	36 mg/kg	36J mg/kg	
KCP4-SO44-S-100108	Metals	Chromium	30 mg/kg	30J mg/kg	High duplicate RPD
		Nickel	30 mg/kg	30J mg/kg	

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO45-S-100108	Metals	Chromium	43 mg/kg	43J mg/kg	High duplicate RPD
		Nickel	46 mg/kg	46J mg/kg	
KCP4-SO46-S-100108	Metals	Chromium	73 mg/kg	73J mg/kg	High duplicate RPD
		Nickel	110 mg/kg	110J mg/kg	
KCP4-SO47-S-100108	Metals	Chromium	39 mg/kg	39J mg/kg	High duplicate RPD
		Nickel	39 mg/kg	39J mg/kg	
KCP4-SO48-S-100108	Metals	Chromium	37 mg/kg	37J mg/kg	High duplicate RPD
		Nickel	42 mg/kg	42J mg/kg	
KCP4-SO49-S-100108	Metals	Chromium	34 mg/kg	34J mg/kg	High duplicate RPD
		Nickel	83 mg/kg	83J mg/kg	
KCP4-SO50-S-100108	Metals	Chromium	31 mg/kg	31J mg/kg	High duplicate RPD
		Nickel	41 mg/kg	41J mg/kg	
KCP4-SO51-S-100108	Metals	Chromium	48 mg/kg	48J mg/kg	High duplicate RPD
		Nickel	45 mg/kg	45J mg/kg	
KCP4-SO52-S-100108	Metals	Chromium	47 mg/kg	47J mg/kg	High duplicate RPD
		Nickel	50 mg/kg	50J mg/kg	
KCP4-SO53-B-100108	Metals	Chromium	21 mg/kg	21J mg/kg	High duplicate RPD
		Nickel	48 mg/kg	48J mg/kg	
KCP4-SO54-B-100108	Metals	Chromium	28 mg/kg	28J mg/kg	High duplicate RPD
		Nickel	44 mg/kg	44J mg/kg	
KCP4-SO55-B-100108	Metals	Chromium	23 mg/kg	23J mg/kg	High duplicate RPD
		Nickel	55 mg/kg	55J mg/kg	
KCP4-SO56-B-100108	Metals	Chromium	35 mg/kg	35J mg/kg	High duplicate RPD
		Nickel	51 mg/kg	51J mg/kg	
KCP4-SO57-B-100108	Metals	Chromium	31 mg/kg	31J mg/kg	High duplicate RPD
		Nickel	42 mg/kg	42J mg/kg	
KCP4-SO58-B-100108	Metals	Chromium	47 mg/kg	47J mg/kg	High duplicate RPD
		Nickel	73 mg/kg	73J mg/kg	
KCP4-SO59-B-100108	Metals	Chromium	24 mg/kg	24J mg/kg	High duplicate RPD
		Nickel	45 mg/kg	45J mg/kg	
KCP4-SO60-B-100108	Metals	Chromium	24 mg/kg	24J mg/kg	High duplicate RPD
		Nickel	43 mg/kg	43J mg/kg	
KCP4-SO61-B-100108	Metals	Chromium	25 mg/kg	25J mg/kg	High duplicate RPD
		Nickel	48 mg/kg	48J mg/kg	
KCP4-SO62-B-100108	Metals	Chromium	32 mg/kg	32J mg/kg	High duplicate RPD
		Nickel	59 mg/kg	59J mg/kg	
KCP4-SO83-B-100108	Metals	Chromium	29 mg/kg	29J mg/kg	High duplicate RPD
KCP4-SO84-B-100108	Metals	Chromium	25 mg/kg	25J mg/kg	High duplicate RPD
KCP4-SO85-B-100108	Metals	Chromium	20 mg/kg	20J mg/kg	High duplicate RPD
KCP4-SO86-B-100108	Metals	Chromium	17 mg/kg	17J mg/kg	High duplicate RPD
KCP4-SO87-B-100108	Metals	Chromium	42 mg/kg	42J mg/kg	High duplicate RPD
KCP4-SO88-B-100108	Metals	Chromium	50 mg/kg	50J mg/kg	High duplicate RPD

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO89-B-100108	Metals	Chromium	100 mg/kg	100J mg/kg	High duplicate RPD
KCP4-SO90-B-100108	Metals	Chromium	26 mg/kg	26J mg/kg	High duplicate RPD
KCP4-SO91-B-100108	Metals	Chromium	58 mg/kg	58J mg/kg	High duplicate RPD
KCP4-SO92-B-100108	Metals	Chromium	26 mg/kg	26J mg/kg	High duplicate RPD
KCP4-SO93-B-100108	Metals	Chromium	21 mg/kg	21J mg/kg	High duplicate RPD
KCP4-SO94-B-100108	Metals	Chromium	26 mg/kg	26J mg/kg	High duplicate RPD
KCP4-SO32D-S-100108	Metals	Chromium	42 mg/kg	42J mg/kg	High duplicate RPD
KCP4-SO42D-S-100108	Metals	Chromium	39 mg/kg	39J mg/kg	High duplicate RPD
KCP4-SO52D-S-100108	Metals	Chromium	42 mg/kg	42J mg/kg	High duplicate RPD
KCP4-SO62D-B-100108	Metals	Chromium	27 mg/kg	27J mg/kg	High duplicate RPD
KCP4-SO72D-B-100108	Metals	Chromium	24 mg/kg	24J mg/kg	High duplicate RPD
KCP4-SO82D-B-100108	Metals	Chromium	25 mg/kg	25J mg/kg	High duplicate RPD
KCP4-SO92D-B-100108	Metals	Chromium	34 mg/kg	34J mg/kg	High duplicate RPD
KCP4-SO115-B-100111	Metals	Chromium	23 mg/kg	23J mg/kg	High duplicate RPD
KCP4-SO116-B-100111	Metals	Chromium	44 mg/kg	44J mg/kg	High duplicate RPD
KCP4-SO117-B-100111	Metals	Chromium	26 mg/kg	26J mg/kg	High duplicate RPD
KCP4-SO118-B-100111	Metals	Chromium	32 mg/kg	32J mg/kg	High duplicate RPD
KCP4-SO102D-B-100111	Metals	Chromium	23 mg/kg	23J mg/kg	High duplicate RPD
KCP4-SO112D-B-100111	Metals	Chromium	23 mg/kg	23J mg/kg	High duplicate RPD

REFERENCES

USEPA. 1983. Methods for Chemical Analysis of Water and Wastes. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio. EPA-600/4-79-020.

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA-530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October 2004.

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Anchor QEA, LLC
1423 3rd Avenue, Suite 300
Seattle, WA 98101-2226
ATTN: Ms. Delaney Peterson

March 10, 2010

SUBJECT: Kim Clark, Data Validation

Dear Ms. Peterson,

Enclosed are the revised data validation reports for the fractions listed below. Also enclosed are revised EDD print-outs associated with the validation reports. Please replace the previously submitted reports with the enclosed revised reports.

LDC Project # 22478:

SDG #	Fraction
01-028	Polynuclear Aromatic Hydrocarbons, Metals

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: January 5, 2010

LDC Report Date: March 9, 2010

Matrix: Soil

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level IV

Laboratory: OnSite Environmental Inc.

Sample Delivery Group (SDG): 01-028

Sample Identification

KCP4-SO18-S-100105
KCP4-SO18B-S-100105
KCP4-SO19-S-100105
KCP4-SO20-B-100105
KCP4-SO21-S-100105
KCP4-SO22-S-100105
KCP4-SO18-S-100105MS
KCP4-SO18-S-100105MSD

Introduction

This data review covers 8 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per a modification of EPA SW 846 Method 8270D using Selected Ion Monitoring (SIM) for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds and system monitoring compounds were within validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0%.

The percent difference (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

*VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 01-028	All TCL compounds	No LCS analysis associated with these samples.	LCS analysis required.	None	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

XIV. System Performance

The system performance was acceptable.

*XV. Overall Assessment

The analysis was conducted within all specifications of the method with the exception noted in Section VIII. Since the MS/MSD %Rs and RPDS were within the QC limits, the absence of LCS was judged to have no impact on the data quality and no qualifications were made due to this laboratory oversight.

No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

***Kim Clark**
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 01-028

SDG	Sample	Compound	Flag	A or P	Reason
01-028	KCP4-SO18-S-100105 KCP4-SO18B-S-100105 KCP4-SO19-S-100105 KCP4-SO20-B-100105 KCP4-SO21-S-100105 KCP4-SO22-S-100105	All TCL compounds	None	P	Laboratory control samples

Kim Clark
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 01-028

No Sample Data Qualified in this SDG

LDC #: 22478A2b
SDG #: 01-028
Laboratory: OnSite Environmental Inc.

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 2/8/10
Page: 1 of 1
Reviewer: FJ
2nd Reviewer: [illegible]

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/5/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	
IV.	Continuing calibration/ICV	A	ICV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	~~SW~~ A	
VIII.	Laboratory control samples	N	none / P
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates N	~~ND~~	D.
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

+ 1	KCP4-SO18-S-100105	11	MB010751	21		31	
+ 2	KCP4-SO18-B-100105 (B-S)	12		22		32	
- 3	KCP4-SO19-S-100105	13		23		33	
+ 4	KCP4-SO20-B-100105	14		24		34	
- 5	KCP4-SO21-S-100105	15		25		35	
+ 6	KCP4-SO22-S-100105	16		26		36	
7	KCP4-SO18-S-100105MS	17		27		37	
8	KCP4-SO18-S-100105MSD	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 22478A2b
SDG #: fw cover

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓	A		
Was an LCS analyzed for this SDG?	✓			

LDC #: 22478A2b
SDG #: no cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FM
2nd Reviewer: VV

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?			✓	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?			✓	
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 22478A8b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (100 std)	Recalculated RRF (1000 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/7/10	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	NR	1.1665	1.1436	1.1436	5.97	5.97
			~~Fluorene~~ Acenaphthylene (3rd internal standard)		2.5105	2.3871	2.3871	4.90	4.90
			~~Pentachlorophenol~~ Fluorene (4th internal standard)		1.0558	1.0052	1.0052	5.14	5.14
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)		1.3613	1.3132	1.3132	5.20	5.20
			~~Benzo(a)pyrene~~ (6th internal standard)		1.9419	1.9596	1.9596	5.96	5.96
2	ICAL	1/8/10	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	NR	1.2421	1.2214	1.2214	5.81	5.81
			~~Fluorene~~ Acenaphthylene (3rd internal standard)		2.4106	2.2004	2.2004	4.62	4.62
			~~Pentachlorophenol~~ Fluorene (4th internal standard)		1.02948	0.9981	0.9981	4.42	4.42
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)		1.4424	1.4170	1.4170	5.66	5.66
			~~Benzo(a)pyrene~~ (6th internal standard)		1.8787	1.8404	1.8404	5.40	5.40
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 22478A3b
SDG #: all comp

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: JT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_is)/(A_is)(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CC107023	1/8/10	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.144	1.099	1.089	4.8	4.8
			~~Fluorene (3rd internal standard)~~ Acenaphthylene	2.387	2.348	2.348	1.6	1.6
			~~Pentachlorophenol~~ (4th internal standard) Fluorene	1.005	0.979	0.979	2.6	2.6
			~~Bis(2-ethylhexyl)phthalate~~ (5th internal standard) Phenanthrene	1.313	1.277	1.277	2.7	2.7
			Benzo(a)pyrene (6th internal standard)	1.960	1.855	1.855	5.4	5.4
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 22478A06
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~ Pyrene-d10	1000	762.84	76	76	0
2-Fluorobiphenyl	↓	842.40	84	84	↓
Terphenyl-d14	↓	956.27	96	96	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 22478A25
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: EF
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = | MSC - MSC | * 2/(MSC + MSDC)

MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD samples: 7 + 8

Compound	Spike Added (mg/kg)		Sample Concentration (mg/kg)	Spiked Sample Concentration (mg/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	0.0833	0.0833	0.0110	0.0806	0.0847	84	84	88	88	5	5
Pentachlorophenol											
Pyrene	↓	↓	0.183	0.226	0.261	52	52	94	94	14	14

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

DC #: 224784A2b
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: W

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_i)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_t)(\%S)}$

- A_x = Area of the characteristic ion (EICP) for the compound to be measured
- A_{is} = Area of the characteristic ion (EICP) for the specific internal standard
- I_s = Amount of internal standard added in nanograms (ng)
- V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).
- V_i = Volume of extract injected in microliters (ul)
- V_t = Volume of the concentrated extract in microliters (ul)
- Df = Dilution Factor.
- %S = Percent solids, applicable to soil and solid matrices only.
- 2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1. Pyrene

Conc. = $\frac{(106539)(2000)(5)(\quad)(\quad)(\quad)}{(110864)(1.750)(30)(1000)(0.76)}$

=

0.24 mg/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: January 5, 2010

LDC Report Date: March 9, 2010

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level II & IV

Laboratory: OnSite Environmantal Inc.

Sample Delivery Group (SDG): 01-028

Sample Identification

KCP4-SO06-S-100105
KCP4-SO07-S-100105
KCP4-SO08-B-100105
KCP4-SO09-B-100105
KCP4-SO10-S-100105
KCP4-SO11-B-100105
KCP4-SO12-B-100105
KCP4-SO12B-B-100105
KCP4-SO13-B-100105
KCP4-SO14-S-100105
KCP4-SO15-B-100105
KCP4-SO16-S-100105
KCP4-SO17-S-100105
KCP4-SO18-S-100105
KCP4-SO18B-S-100105
KCP4-SO19-S-100105
KCP4-SO20-B-100105
KCP4-SO21-S-100105
KCP4-SO22-S-100105
KCP4-SO08-B-100105MS
KCP4-SO08-B-100105MSD
KCP4-SO08-B-100105DUP
KCP4-SO20-B-100105TCLP**
KCP4-SO20-B-100105TCLPMS**
KCP4-SO20-B-100105TCLPMSD**
KCP4-SO20-B-100105TCLPDUP**

**Indicates sample underwent EPA Level II review
Sampled appended with "TCLP" underwent TCLP extraction

Introduction

This data review covers 26 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Thallium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section IV.

Field duplicates are summarized in Section XIV.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

Calibration data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
KCP4-SO08-B-100105DUP (KCP4-SO06-S-100105 KCP4-SO07-S-100105 KCP4-SO08-B-100105 KCP4-SO09-B-100105 KCP4-SO10-S-100105 KCP4-SO11-B-100105 KCP4-SO12-B-100105 KCP4-SO12B-B-100105 KCP4-SO13-B-100105 KCP4-SO14-S-100105 KCP4-SO15-B-100105 KCP4-SO16-S-100105 KCP4-SO17-S-100105 KCP4-SO18-S-100105 KCP4-SO18B-S-100105 KCP4-SO19-S-100105 KCP4-SO20-B-100105 KCP4-SO21-S-100105 KCP4-SO22-S-100105)	Chromium	24 (≤20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard data were reviewed and within QC limits for samples on which an EPA Level IV review was performed. Internal standard data was not reviewed for Level II.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

*XII. Sample Result Verification

All sample result verifications were acceptable for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level II criteria.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to duplicate RPD problems, chromium results were qualified as estimated in nineteen samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level II and IV data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
*Metals - Data Qualification Summary - SDG 01-028

SDG	Sample	Analyte	Flag	A or P	Reason
01-028	KCP4-SO06-S-100105 KCP4-SO07-S-100105 KCP4-SO08-B-100105 KCP4-SO09-B-100105 KCP4-SO10-S-100105 KCP4-SO11-B-100105 KCP4-SO12-B-100105 KCP4-SO12B-B-100105 KCP4-SO13-B-100105 KCP4-SO14-S-100105 KCP4-SO15-B-100105 KCP4-SO16-S-100105 KCP4-SO17-S-100105 KCP4-SO18-S-100105 KCP4-SO18B-S-100105 KCP4-SO19-S-100105 KCP4-SO20-B-100105 KCP4-SO21-S-100105 KCP4-SO22-S-100105	Chromium	J (all detects) UJ (all non-detects)	A	Duplicate analysis (RPD)

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 01-028

No Sample Data Qualified in this SDG

LDC #: 22478A4

SDG #: 01-028

Laboratory : OnSite Environmental Inc.

VALIDATION COMPLETENESS WORKSHEET

Level II/IV

Date: 2/2/10

Page: 1 of 1

Reviewer: mc

2nd Reviewer: CR

METHOD: Metals (EPA SW 846 Method 6010B/7000) 6020

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/5/10
II.	ICP/MS Tune	A	
III.	Calibration	A	Not reviewed for Level II validation.
IV.	Blanks	A	~~Not reviewed for Level II validation.~~
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	A	~~Not reviewed for Level II validation.~~ MS/MSD
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	A	Not reviewed for Level II validation.
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	N	Not reviewed for Level II validation. Not preformed
XII.	Sample Result Verification	SW A	Not reviewed for Level II validation.
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N SW	~~(7, 8)~~
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation Soil

1	KCP4-SO06-S-100105**	11	KCP4-SO15-B-100105**	21 X	KCP4-SO08-B-100105MSD**	31	PB
2	KCP4-SO07-S-100105**	12	KCP4-SO16-S-100105**	22 X	KCP4-SO08-B-100105DUP**	32	
3 X	KCP4-SO08-B-100105**	13	KCP4-SO17-S-100105**	23 D	KCP4-SO20-B-100105TCLP	33	
4	KCP4-SO09-B-100105**	14	KCP4-SO18-S-100105**	24 D	KCP4-SO20-B-100105TCLPMS	34	
5	KCP4-SO10-S-100105**	15	KCP4-SO18B-100105**	25 D	KCP4-SO20-B-100105TCLPMSD	35	
6	KCP4-SO11-B-100105**	16	KCP4-SO19-S-100105**	26 D	KCP4-SO20-B-100105TCLPDUP	36	
7	KCP4-SO12-B-100105**	17	KCP4-SO20-B-100105**	27		37	
8	KCP4-SO12B-B-100105**	18	KCP4-SO21-S-100105**	28		38	
9	KCP4-SO13-B-100105**	19	KCP4-SO22-S-100105**	29		39	
10	KCP4-SO14-S-100105**	20 X	KCP4-SO08-B-100105MS**	30		40	

Notes: Samples ammended with "TCLP" underwent TCLP extraction

LDC #: 22478A84
SDG #: 01-028

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: MR
2nd Reviewer: CR

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix Spike/Matrix Spike Duplicate				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were < 5X the RL.	✓	✓		
VII. Laboratory Control Samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

LDC #: 22478A4
SDG #: 61-028

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: The
2nd Reviewer: Q

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?		✓		
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?	✓			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	NA	✓		
Target analytes were detected in the field duplicates.	NA		✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 22478A4
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-19	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
23	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
X		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
QC20-22	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
QC24-26	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
ICP Trace	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
ICP-MS	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-,

Comments: Mercury by CVAA if performed

ELEMENTS.4

LDC #: 22478
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Reviewer: JME
2nd Reviewer: CR

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) 6020

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for ~~water~~ samples and ≤ ~~35%~~ for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
1	322	S	Cr	24 (≤20)	—	1-19	J/UJ/A

Comments:

LDC #: 22478A24
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: JLee
2nd Reviewer: CR

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV 1/7 (16:21)	ICP (Initial calibration)	Ni	1006.3	1000.0	101	NR	Y
	GFAA (Initial calibration)						
ICV 1/8 (14:03)	CVAA (Initial calibration)	Hg	5.235	5.000	104.70	104.70	
CCV 1/8 (16:30)	ICP (Continuing calibration)	Sb	1002.5	1000.0	100	NR	
	GFAA (Continuing calibration)						
CCV 1/8 (14:26)	CVAA (Continuing calibration)	Hg	5.111	5.000	102.22	102.22	
ICV 1/7 (15:04)	ICP/MS (Initial calibration)	Tl	48.86	50.00	~~97.73~~ 101.85	~~97.73~~ 101.85	
CCV 1/7 (15:39)	ICP/MS (Continuing calibation)	Tl	40.74	40.00	~~102.0~~	~~102.0~~	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 22478A4
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: me
2nd Reviewer: CR

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) 6020

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB (16:38)	ICP interference check	Zn	954.53 (ug/L)	1000.0 (ug/L)	95	—	Y
LCS	Laboratory control sample	Tl	1066.1	1000.0	107	—	
20	Matrix spike	Tl	(SSR-SR) 53.0 (mg/Kg)	50.0 (mg/Kg)	106	106	
22	Duplicate	Cu	13.6	13.2	3	3	
3	ICP serial dilution	Cr	627.35	678.7	8	—	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 22478A4
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: TMe
2nd reviewer: CR

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) 6020

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for #3 Chromium were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)(\%S)}$

Recalculation: $[\ ] = \frac{(627.35\ \mu g)(0.1\ L)\left(\frac{1\ mg}{1000\ \mu g}\right)}{(0.002\ Kg)(0.88)}$

$[Cr] = 35.64\ \frac{mg}{Kg}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor
%S = Decimal percent solids

Sample ID	Analyte	Reported Concentration (mg/Kg)	Calculated Concentration (mg/Kg)	Acceptable (Y/N)
3	Cr	36	36	Y
	Cu	15	15	
	Ni	~~#~~ 74	74	
	Zn	26	26	

LDC #: 22478A4
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JMC
2nd reviewer: CR

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for #13 Lead were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)(\%S)}$

Recalculation: $[Pb] = \frac{(110.9\ \frac{ug}{L})(0.1L)(\frac{1mg}{1000ug})}{(0.002kg)(0.94)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor
%S = Decimal percent solids

$[Pb] = 5.90\ \frac{mg}{Kg}$

Sample ID	Analyte	Reported Concentration (mg/Kg)	Calculated Concentration (mg/Kg)	Acceptable (Y/N)
13	Cr	26	26	Y
	Cu	58	58	
	Pb	5.9	5.9	
	Ni	~~27~~	27	
	Zn	73	73	

R1

LDC Report# 22478A4

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: January 5, 2010

LDC Report Date: February 12, 2010

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level II & IV

Laboratory: OnSite Environmantal Inc.

Sample Delivery Group (SDG): 01-028

Sample Identification

KCP4-SO06-S-100105	KCP4-SO08-B-100105MSD
KCP4-SO07-S-100105	KCP4-SO08-B-100105DUP
KCP4-SO08-B-100105	KCP4-SO20-B-100105TCLP**
KCP4-SO09-B-100105	KCP4-SO20-B-100105TCLPMS**
KCP4-SO10-S-100105	KCP4-SO20-B-100105TCLPMSD**
KCP4-SO11-B-100105	KCP4-SO20-B-100105TCLPDUP**
KCP4-SO12-B-100105	
KCP4-SO12B-B-100105	
KCP4-SO13-B-100105	
KCP4-SO14-S-100105	
KCP4-SO15-B-100105	
KCP4-SO16-S-100105	
KCP4-SO17-S-100105	
KCP4-SO18-S-100105	
KCP4-SO18B-S-100105	
KCP4-SO19-S-100105	
KCP4-SO20-B-100105	
KCP4-SO21-S-100105	
KCP4-SO22-S-100105	
KCP4-SO08-B-100105MS	

**Indicates sample underwent EPA Level II review
Sampled appended with "TCLP" underwent TCLP extraction

Introduction

This data review covers 26 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Thallium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section IV.

Field duplicates are summarized in Section XIV.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

Calibration data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
KCP4-SO08-B-100105DUP (KCP4-SO06-S-100105 KCP4-SO07-S-100105 KCP4-SO08-B-100105 KCP4-SO09-B-100105 KCP4-SO10-S-100105 KCP4-SO11-B-100105 KCP4-SO12-B-100105 KCP4-SO12B-B-100105 KCP4-SO13-B-100105 KCP4-SO14-S-100105 KCP4-SO15-B-100105 KCP4-SO16-S-100105 KCP4-SO17-S-100105 KCP4-SO18-S-100105 KCP4-SO18B-S-100105 KCP4-SO19-S-100105 KCP4-SO20-B-100105 KCP4-SO21-S-100105 KCP4-SO22-S-100105)	Chromium	24 (≤20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard data were reviewed and within QC limits for samples on which an EPA Level IV review was performed. Internal standard data was not reviewed for Level II.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable for samples on which a EPA Level IV review was performed.

Kim Clark - LDC 22478

SDG: 01-028

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO06-S-100105	1001-028-01	Antimony	1/7/2010	5.4	Yes	N	U			5.4		mg/kg
KCP4-SO06-S-100105	1001-028-01	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO06-S-100105	1001-028-01	Chromium	1/7/2010	22	Yes	Y		J	9	0.54		mg/kg
KCP4-SO06-S-100105	1001-028-01	Copper	1/7/2010	44	Yes	Y				1.1		mg/kg
KCP4-SO06-S-100105	1001-028-01	Zinc	1/7/2010	72	Yes	Y				2.7		mg/kg
KCP4-SO06-S-100105	1001-028-01	Lead	1/7/2010	29	Yes	Y				5.4		mg/kg
KCP4-SO06-S-100105	1001-028-01	Nickel	1/7/2010	22	Yes	Y				2.7		mg/kg
KCP4-SO07-S-100105	1001-028-02	Copper	1/7/2010	78	Yes	Y				1.1		mg/kg
KCP4-SO07-S-100105	1001-028-02	Lead	1/7/2010	17	Yes	Y				5.6		mg/kg
KCP4-SO07-S-100105	1001-028-02	Nickel	1/7/2010	34	Yes	Y				2.8		mg/kg
KCP4-SO07-S-100105	1001-028-02	Antimony	1/7/2010	5.6	Yes	N	U			5.6		mg/kg
KCP4-SO07-S-100105	1001-028-02	Chromium	1/7/2010	37	Yes	Y		J	9	0.56		mg/kg
KCP4-SO07-S-100105	1001-028-02	Zinc	1/7/2010	240	Yes	Y				2.8		mg/kg
KCP4-SO07-S-100105	1001-028-02	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO08-B-100105	1001-028-03	Lead	1/7/2010	5.7	Yes	N	U			5.7		mg/kg
KCP4-SO08-B-100105	1001-028-03	Nickel	1/7/2010	74	Yes	Y				2.8		mg/kg
KCP4-SO08-B-100105	1001-028-03	Antimony	1/7/2010	5.7	Yes	N	U			5.7		mg/kg
KCP4-SO08-B-100105	1001-028-03	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO08-B-100105	1001-028-03	Chromium	1/7/2010	36	Yes	Y		J	9	0.57		mg/kg
KCP4-SO08-B-100105	1001-028-03	Copper	1/7/2010	15	Yes	Y				1.1		mg/kg
KCP4-SO08-B-100105	1001-028-03	Zinc	1/7/2010	26	Yes	Y				2.8		mg/kg
KCP4-SO09-B-100105	1001-028-04	Chromium	1/7/2010	16	Yes	Y		J	9	0.58		mg/kg
KCP4-SO09-B-100105	1001-028-04	Antimony	1/7/2010	5.8	Yes	N	U			5.8		mg/kg
KCP4-SO09-B-100105	1001-028-04	Arsenic	1/7/2010	12	Yes	N	U			12		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO09-B-100105	1001-028-04	Nickel	1/7/2010	35	Yes	Y				2.9		mg/kg
KCP4-SO09-B-100105	1001-028-04	Copper	1/7/2010	10	Yes	Y				1.2		mg/kg
KCP4-SO09-B-100105	1001-028-04	Zinc	1/7/2010	16	Yes	Y				2.9		mg/kg
KCP4-SO09-B-100105	1001-028-04	Lead	1/7/2010	5.8	Yes	N	U			5.8		mg/kg
KCP4-SO10-S-100105	1001-028-05	Nickel	1/7/2010	20	Yes	Y				2.7		mg/kg
KCP4-SO10-S-100105	1001-028-05	Zinc	1/7/2010	53	Yes	Y				2.7		mg/kg
KCP4-SO10-S-100105	1001-028-05	Copper	1/7/2010	43	Yes	Y				1.1		mg/kg
KCP4-SO10-S-100105	1001-028-05	Chromium	1/7/2010	20	Yes	Y		J	9	0.54		mg/kg
KCP4-SO10-S-100105	1001-028-05	Antimony	1/7/2010	5.4	Yes	N	U			5.4		mg/kg
KCP4-SO10-S-100105	1001-028-05	Lead	1/7/2010	6.5	Yes	Y				5.4		mg/kg
KCP4-SO10-S-100105	1001-028-05	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO11-B-100105	1001-028-06	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO11-B-100105	1001-028-06	Chromium	1/7/2010	16	Yes	Y		J	9	0.56		mg/kg
KCP4-SO11-B-100105	1001-028-06	Lead	1/7/2010	5.6	Yes	N	U			5.6		mg/kg
KCP4-SO11-B-100105	1001-028-06	Copper	1/7/2010	13	Yes	Y				1.1		mg/kg
KCP4-SO11-B-100105	1001-028-06	Zinc	1/7/2010	20	Yes	Y				2.8		mg/kg
KCP4-SO11-B-100105	1001-028-06	Antimony	1/7/2010	5.6	Yes	N	U			5.6		mg/kg
KCP4-SO11-B-100105	1001-028-06	Nickel	1/7/2010	50	Yes	Y				2.8		mg/kg
KCP4-SO12-B-100105	1001-028-07	Lead	1/7/2010	5.5	Yes	N	U			5.5		mg/kg
KCP4-SO12-B-100105	1001-028-07	Zinc	1/7/2010	23	Yes	Y				2.8		mg/kg
KCP4-SO12-B-100105	1001-028-07	Antimony	1/7/2010	5.5	Yes	N	U			5.5		mg/kg
KCP4-SO12-B-100105	1001-028-07	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO12-B-100105	1001-028-07	Nickel	1/7/2010	37	Yes	Y				2.8		mg/kg
KCP4-SO12-B-100105	1001-028-07	Chromium	1/7/2010	18	Yes	Y		J	9	0.55		mg/kg
KCP4-SO12-B-100105	1001-028-07	Copper	1/7/2010	17	Yes	Y				1.1		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO12B-B-100105	1001-028-08	Lead	1/7/2010	5.6	Yes	N	U			5.6		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Nickel	1/7/2010	35	Yes	Y				2.8		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Antimony	1/7/2010	5.6	Yes	N	U			5.6		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Copper	1/7/2010	18	Yes	Y				1.1		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Zinc	1/7/2010	25	Yes	Y				2.8		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Chromium	1/7/2010	24	Yes	Y		J	9	0.56		mg/kg
KCP4-SO13-B-100105	1001-028-09	Antimony	1/7/2010	5.5	Yes	N	U			5.5		mg/kg
KCP4-SO13-B-100105	1001-028-09	Lead	1/7/2010	16	Yes	Y				5.5		mg/kg
KCP4-SO13-B-100105	1001-028-09	Nickel	1/7/2010	56	Yes	Y				2.8		mg/kg
KCP4-SO13-B-100105	1001-028-09	Copper	1/7/2010	31	Yes	Y				1.1		mg/kg
KCP4-SO13-B-100105	1001-028-09	Zinc	1/7/2010	27	Yes	Y				2.8		mg/kg
KCP4-SO13-B-100105	1001-028-09	Chromium	1/7/2010	21	Yes	Y		J	9	0.55		mg/kg
KCP4-SO13-B-100105	1001-028-09	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO14-S-100105	1001-028-10	Chromium	1/7/2010	28	Yes	Y		J	9	0.54		mg/kg
KCP4-SO14-S-100105	1001-028-10	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO14-S-100105	1001-028-10	Antimony	1/7/2010	5.4	Yes	N	U			5.4		mg/kg
KCP4-SO14-S-100105	1001-028-10	Copper	1/7/2010	60	Yes	Y				1.1		mg/kg
KCP4-SO14-S-100105	1001-028-10	Nickel	1/7/2010	30	Yes	Y				2.7		mg/kg
KCP4-SO14-S-100105	1001-028-10	Zinc	1/7/2010	77	Yes	Y				2.7		mg/kg
KCP4-SO14-S-100105	1001-028-10	Lead	1/7/2010	6.8	Yes	Y				5.4		mg/kg
KCP4-SO15-B-100105	1001-028-11	Zinc	1/7/2010	37	Yes	Y				2.7		mg/kg
KCP4-SO15-B-100105	1001-028-11	Copper	1/7/2010	130	Yes	Y				1.1		mg/kg
KCP4-SO15-B-100105	1001-028-11	Chromium	1/7/2010	24	Yes	Y		J	9	0.55		mg/kg
KCP4-SO15-B-100105	1001-028-11	Lead	1/7/2010	51	Yes	Y				5.5		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO15-B-100105	1001-028-11	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO15-B-100105	1001-028-11	Antimony	1/7/2010	5.5	Yes	N	U			5.5		mg/kg
KCP4-SO15-B-100105	1001-028-11	Nickel	1/7/2010	48	Yes	Y				2.7		mg/kg
KCP4-SO16-S-100105	1001-028-12	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO16-S-100105	1001-028-12	Lead	1/7/2010	5.9	Yes	Y				5.3		mg/kg
KCP4-SO16-S-100105	1001-028-12	Antimony	1/7/2010	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO16-S-100105	1001-028-12	Chromium	1/7/2010	26	Yes	Y		J	9	0.53		mg/kg
KCP4-SO16-S-100105	1001-028-12	Copper	1/7/2010	59	Yes	Y				1.1		mg/kg
KCP4-SO16-S-100105	1001-028-12	Zinc	1/7/2010	75	Yes	Y				2.7		mg/kg
KCP4-SO16-S-100105	1001-028-12	Nickel	1/7/2010	27	Yes	Y				2.7		mg/kg
KCP4-SO17-S-100105	1001-028-13	Zinc	1/7/2010	73	Yes	Y				2.7		mg/kg
KCP4-SO17-S-100105	1001-028-13	Copper	1/7/2010	58	Yes	Y				1.1		mg/kg
KCP4-SO17-S-100105	1001-028-13	Antimony	1/7/2010	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO17-S-100105	1001-028-13	Nickel	1/7/2010	27	Yes	Y				2.7		mg/kg
KCP4-SO17-S-100105	1001-028-13	Lead	1/7/2010	5.9	Yes	Y				5.3		mg/kg
KCP4-SO17-S-100105	1001-028-13	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO17-S-100105	1001-028-13	Chromium	1/7/2010	26	Yes	Y		J	9	0.53		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Copper	1/7/2010	76	Yes	Y				1.1		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Chromium	1/7/2010	26	Yes	Y		J	9	0.57		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Lead	1/7/2010	2300	Yes	Y				5.7		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Nickel	1/7/2010	27	Yes	Y				2.9		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Antimony	1/7/2010	260	Yes	Y				5.7		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Zinc	1/7/2010	82	Yes	Y				2.9		mg/kg
KCP4-SO18-S-100105	1001-028-14	Copper	1/7/2010	120	Yes	Y				1.3		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO18-S-100105	1001-028-14	Zinc	1/7/2010	93	Yes	Y				3.3		mg/kg
KCP4-SO18-S-100105	1001-028-14	Chromium	1/7/2010	82	Yes	Y		J	9	0.66		mg/kg
KCP4-SO18-S-100105	1001-028-14	Arsenic	1/7/2010	13	Yes	N	U			13		mg/kg
KCP4-SO18-S-100105	1001-028-14	Antimony	1/7/2010	310	Yes	Y				6.6		mg/kg
KCP4-SO18-S-100105	1001-028-14	Nickel	1/7/2010	39	Yes	Y				3.3		mg/kg
KCP4-SO18-S-100105	1001-028-14	Lead	1/7/2010	4400	Yes	Y				66		mg/kg
KCP4-SO19-S-100105	1001-028-16	Chromium	1/7/2010	15	Yes	Y		J	9	0.55		mg/kg
KCP4-SO19-S-100105	1001-028-16	Antimony	1/7/2010	5.5	Yes	N	U			5.5		mg/kg
KCP4-SO19-S-100105	1001-028-16	Nickel	1/7/2010	32	Yes	Y				2.8		mg/kg
KCP4-SO19-S-100105	1001-028-16	Lead	1/7/2010	5.5	Yes	N	U			5.5		mg/kg
KCP4-SO19-S-100105	1001-028-16	Copper	1/7/2010	17	Yes	Y				1.1		mg/kg
KCP4-SO19-S-100105	1001-028-16	Zinc	1/7/2010	22	Yes	Y				2.8		mg/kg
KCP4-SO19-S-100105	1001-028-16	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg
KCP4-SO20-B-100105	1001-028-17	Arsenic	1/7/2010	14	Yes	Y				12		mg/kg
KCP4-SO20-B-100105	1001-028-17	Lead	1/7/2010	21000	Yes	Y				310		mg/kg
KCP4-SO20-B-100105	1001-028-17	Antimony	1/7/2010	3500	Yes	Y				61		mg/kg
KCP4-SO20-B-100105	1001-028-17	Chromium	1/7/2010	14	Yes	Y		J	9	0.61		mg/kg
KCP4-SO20-B-100105	1001-028-17	Copper	1/7/2010	310	Yes	Y				1.2		mg/kg
KCP4-SO20-B-100105	1001-028-17	Zinc	1/7/2010	160	Yes	Y				3.1		mg/kg
KCP4-SO20-B-100105	1001-028-17	Nickel	1/7/2010	18	Yes	Y				3.1		mg/kg
KCP4-SO21-S-100105	1001-028-18	Zinc	1/7/2010	36	Yes	Y				2.8		mg/kg
KCP4-SO21-S-100105	1001-028-18	Nickel	1/7/2010	55	Yes	Y				2.8		mg/kg
KCP4-SO21-S-100105	1001-028-18	Antimony	1/7/2010	5.6	Yes	N	U			5.6		mg/kg
KCP4-SO21-S-100105	1001-028-18	Lead	1/7/2010	28	Yes	Y				5.6		mg/kg
KCP4-SO21-S-100105	1001-028-18	Arsenic	1/7/2010	11	Yes	N	U			11		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO21-S-100105	1001-028-18	Copper	1/7/2010	21	Yes	Y				1.1		mg/kg
KCP4-SO21-S-100105	1001-028-18	Chromium	1/7/2010	25	Yes	Y		J	9	0.56		mg/kg
KCP4-SO22-S-100105	1001-028-19	Arsenic	1/7/2010	12	Yes	N	U			12		mg/kg
KCP4-SO22-S-100105	1001-028-19	Antimony	1/7/2010	61	Yes	Y				6.1		mg/kg
KCP4-SO22-S-100105	1001-028-19	Nickel	1/7/2010	14	Yes	Y				3		mg/kg
KCP4-SO22-S-100105	1001-028-19	Lead	1/7/2010	700	Yes	Y				6.1		mg/kg
KCP4-SO22-S-100105	1001-028-19	Chromium	1/7/2010	16	Yes	Y		J	9	0.61		mg/kg
KCP4-SO22-S-100105	1001-028-19	Copper	1/7/2010	79	Yes	Y				1.2		mg/kg
KCP4-SO22-S-100105	1001-028-19	Zinc	1/7/2010	36	Yes	Y				3		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO06-S-100105	1001-028-01	Thallium	1/7/2010	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO07-S-100105	1001-028-02	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO08-B-100105	1001-028-03	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO09-B-100105	1001-028-04	Thallium	1/7/2010	2.9	Yes	N	U			2.9		mg/kg
KCP4-SO10-S-100105	1001-028-05	Thallium	1/7/2010	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO11-B-100105	1001-028-06	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO12-B-100105	1001-028-07	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO13-B-100105	1001-028-09	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO14-S-100105	1001-028-10	Thallium	1/7/2010	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO15-B-100105	1001-028-11	Thallium	1/7/2010	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO16-S-100105	1001-028-12	Thallium	1/7/2010	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO17-S-100105	1001-028-13	Thallium	1/7/2010	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Thallium	1/7/2010	2.9	Yes	N	U			2.9		mg/kg

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Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO18-S-100105	1001-028-14	Thallium	1/7/2010	3.3	Yes	N	U			3.3		mg/kg
KCP4-SO19-S-100105	1001-028-16	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO20-B-100105	1001-028-17	Thallium	1/7/2010	3.1	Yes	N	U			3.1		mg/kg
KCP4-SO21-S-100105	1001-028-18	Thallium	1/7/2010	2.8	Yes	N	U			2.8		mg/kg
KCP4-SO22-S-100105	1001-028-19	Thallium	1/7/2010	3	Yes	N	U			3		mg/kg

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO06-S-100105	1001-028-01	Mercury	1/7/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO07-S-100105	1001-028-02	Mercury	1/7/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-SO08-B-100105	1001-028-03	Mercury	1/7/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-SO09-B-100105	1001-028-04	Mercury	1/7/2010	0.29	Yes	N	U			0.29		mg/kg
KCP4-SO10-S-100105	1001-028-05	Mercury	1/7/2010	0.28	Yes	Y				0.27		mg/kg
KCP4-SO11-B-100105	1001-028-06	Mercury	1/7/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-SO12-B-100105	1001-028-07	Mercury	1/7/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-SO12B-B-100105	1001-028-08	Mercury	1/7/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-SO13-B-100105	1001-028-09	Mercury	1/7/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-SO14-S-100105	1001-028-10	Mercury	1/7/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO15-B-100105	1001-028-11	Mercury	1/7/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO16-S-100105	1001-028-12	Mercury	1/7/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO17-S-100105	1001-028-13	Mercury	1/7/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Mercury	1/7/2010	1.9	Yes	Y				1.4		mg/kg
KCP4-SO18-S-100105	1001-028-14	Mercury	1/7/2010	1.9	Yes	Y				1.7		mg/kg
KCP4-SO19-S-100105	1001-028-16	Mercury	1/7/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-SO20-B-100105	1001-028-17	Mercury	1/7/2010	520	Yes	Y				150		mg/kg
KCP4-SO21-S-100105	1001-028-18	Mercury	1/7/2010	0.57	Yes	Y				0.28		mg/kg

Analytical Method	SW7471A											
Sample ID	**Lab Sample ID**	**Chemical Name**	**Anal Date**	**Result**	**Mod Res Report**	**Detect**	**Lab Qual**	**Val Qual**	**Reason**	**RL**	**MDL**	**Units**
KCP4-SO22-S-100105	1001-028-19	Mercury	1/7/2010	0.95	Yes	Y				0.3		mg/kg

Analytical Method	SW8270											
Sample ID	**Lab Sample ID**	**Chemical Name**	**Anal Date**	**Result**	**Mod Res Report**	**Detect**	**Lab Qual**	**Val Qual**	**Reason**	**RL**	**MDL**	**Units**
KCP4-SO18B-S-100105	1001-028-15	Benzo(a)anthracene	1/8/2010	0.12	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Anthracene	1/8/2010	0.072	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Pyrene	1/8/2010	0.24	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Benzo(g,h,i)perylene	1/8/2010	0.073	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Indeno(1,2,3-c,d)pyrene	1/8/2010	0.063	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Benzo(b)fluoranthene	1/8/2010	0.12	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Fluoranthene	1/8/2010	0.27	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Benzo(k)fluoranthene	1/8/2010	0.046	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Acenaphthylene	1/8/2010	0.011	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Chrysene	1/8/2010	0.16	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Dibenzo(a,h)anthracene	1/8/2010	0.022	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Acenaphthene	1/8/2010	0.021	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Phenanthrene	1/8/2010	0.076	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Fluorene	1/8/2010	0.064	Yes	Y				0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	1-Methylnaphthalene	1/8/2010	0.0077	Yes	N	U			0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Naphthalene	1/8/2010	0.0077	Yes	N	U			0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	2-Methylnaphthalene	1/8/2010	0.0077	Yes	N	U			0.0077		mg/kg
KCP4-SO18B-S-100105	1001-028-15	Benzo(a)pyrene	1/8/2010	0.1	Yes	Y				0.0077		mg/kg
KCP4-SO18-S-100105	1001-028-14	Fluorene	1/8/2010	0.051	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Phenanthrene	1/8/2010	0.074	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Anthracene	1/8/2010	0.057	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Acenaphthene	1/8/2010	0.015	Yes	Y				0.0088		mg/kg

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Analytical Method SW8270

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO18-S-100105	1001-028-14	2-Methylnaphthalene	1/8/2010	0.0088	Yes	N	U			0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	1-Methylnaphthalene	1/8/2010	0.0088	Yes	N	U			0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Benzo(a)anthracene	1/8/2010	0.1	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Dibenzo(a,h)anthracene	1/8/2010	0.019	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Benzo(a)pyrene	1/8/2010	0.082	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Benzo(g,h,i)perylene	1/8/2010	0.063	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Acenaphthylene	1/8/2010	0.012	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Benzo(k)fluoranthene	1/8/2010	0.034	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Fluoranthene	1/8/2010	0.28	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Benzo(b)fluoranthene	1/8/2010	0.1	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Indeno(1,2,3-c,d)pyrene	1/8/2010	0.049	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Chrysene	1/8/2010	0.15	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Pyrene	1/8/2010	0.24	Yes	Y				0.0088		mg/kg
KCP4-SO18-S-100105	1001-028-14	Naphthalene	1/8/2010	0.0088	Yes	N	U			0.0088		mg/kg
KCP4-SO19-S-100105	1001-028-16	Benzo(a)anthracene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Acenaphthene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Phenanthrene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Fluorene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	1-Methylnaphthalene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	2-Methylnaphthalene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Dibenzo(a,h)anthracene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Benzo(b)fluoranthene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Naphthalene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Pyrene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Chrysene	1/7/2010	0.0073	Yes	N	U			0.0073		mg/kg

SDG: 01-028

Analytical Method SW8270

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO19-S-100105	1001-028-16	Acenaphthylene	1/7/2010	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Fluoranthene	1/7/2010	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Indeno(1,2,3-c,d)pyrene	1/7/2010	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Benzo(g,h,i)perylene	1/7/2010	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Benzo(a)pyrene	1/7/2010	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Anthracene	1/7/2010	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO19-S-100105	1001-028-16	Benzo(k)fluoranthene	1/7/2010	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO20-B-100105	1001-028-17	Dibenzo(a,h)anthracene	1/7/2010	0.025		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Acenaphthene	1/7/2010	0.0081		Yes	N	U			0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Phenanthrene	1/7/2010	0.095		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Fluorene	1/7/2010	0.0081		Yes	N	U			0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	1-Methylnaphthalene	1/7/2010	0.0081		Yes	N	U			0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	2-Methylnaphthalene	1/7/2010	0.0081		Yes	N	U			0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Benzo(a)pyrene	1/7/2010	0.094		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Naphthalene	1/7/2010	0.0081		Yes	N	U			0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Anthracene	1/7/2010	0.02		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Acenaphthylene	1/7/2010	0.012		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Benzo(k)fluoranthene	1/7/2010	0.039		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Fluoranthene	1/7/2010	0.22		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Benzo(b)fluoranthene	1/7/2010	0.14		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Indeno(1,2,3-c,d)pyrene	1/7/2010	0.08		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Benzo(g,h,i)perylene	1/7/2010	0.096		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Pyrene	1/7/2010	0.19		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Benzo(a)anthracene	1/7/2010	0.11		Yes	Y				0.0081		mg/kg
KCP4-SO20-B-100105	1001-028-17	Chrysene	1/7/2010	0.14		Yes	Y				0.0081		mg/kg

SDG: 01-028

Analytical Method SW8270

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO21-S-100105	1001-028-18	Dibenzo(a,h)anthracene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Benzo(a)anthracene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Acenaphthene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Fluorene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Benzo(a)pyrene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	2-Methylnaphthalene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Phenanthrene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Naphthalene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Anthracene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Acenaphthylene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Benzo(k)fluoranthene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Fluoranthene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Benzo(b)fluoranthene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Indeno(1,2,3-c,d)pyrene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Benzo(g,h,i)perylene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Pyrene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	1-Methylnaphthalene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO21-S-100105	1001-028-18	Chrysene	1/8/2010	0.0074	Yes	N	U			0.0074		mg/kg
KCP4-SO22-S-100105	1001-028-19	Benzo(a)anthracene	1/8/2010	0.061	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Acenaphthene	1/8/2010	0.056	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Phenanthrene	1/8/2010	0.091	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Fluorene	1/8/2010	0.035	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	1-Methylnaphthalene	1/8/2010	0.06	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Dibenzo(a,h)anthracene	1/8/2010	0.017	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	2-Methylnaphthalene	1/8/2010	0.0081	Yes	N	U			0.0081		mg/kg

SDG: 01-028

Analytical Method SW8270

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO22-S-100105	1001-028-19	Benzo(b)fluoranthene	1/8/2010	0.094	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Naphthalene	1/8/2010	0.014	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Benzo(a)pyrene	1/8/2010	0.057	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Chrysene	1/8/2010	0.098	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Acenaphthylene	1/8/2010	0.013	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Fluoranthene	1/8/2010	0.13	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Indeno(1,2,3-c,d)pyrene	1/8/2010	0.053	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Benzo(g,h,i)perylene	1/8/2010	0.071	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Pyrene	1/8/2010	0.13	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Anthracene	1/8/2010	0.017	Yes	Y				0.0081		mg/kg
KCP4-SO22-S-100105	1001-028-19	Benzo(k)fluoranthene	1/8/2010	0.031	Yes	Y				0.0081		mg/kg

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Data Validation Review Report – EPA Level 2

Project: Kimberly Clark Construction Monitoring Phase 4

Project Number: 000105-01

Date: March 9, 2010

This report summarizes the review of analytical results for 18 soil samples collected on January 28 and February 2, 5, and 15, 2010. Samples were collected by Anchor QEA, LLC and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. Samples were analyzed for the following:

- Total metals by United States Environmental Protection Agency (USEPA) methods 6010B, 6020, and 7471A
- TCLP metals by USEPA methods 1311, 6010B, and 7471A
- Diesel and Lube Oil Range Organics (DRO and LRO) by method NWTPHDX
- Gasoline Range Organics (GRO) by method NWTPHGX

OnSite sample data group (SDG) numbers 1001-182, 1002-012, 1002-046, and 1002-106 were reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO119-S-100128	1001-182-01	Soil	Metals
KCP4-SO120-S-100128	1001-182-02	Soil	Metals
KCP4-SO121-B-100128	1001-182-03	Soil	Metals
KCP4-SO122-S-100128	1001-182-04	Soil	Metals
KCP4-SO123-B-100128	1001-182-05	Soil	Metals, TCLP Metals
KCP4-CO124-100128	1001-182-06	Soil	Metals, TCLP Metals
KCP4-SO125-S-100202	1002-012-01	Soil	Metals, TCLP Metals
KCP4-SO126-B-100202	1002-012-02	Soil	Metals, TCLP Metals
KCP4-SO127-S-100205	1002-046-01	Soil	Metals
KCP4-SO128-S-100205	1002-046-02	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO129-B-100205	1002-046-03	Soil	Metals
KCP4-SO130-B-100205	1002-046-04	Soil	Metals
KCP4-TP05-A-100215	1002-106-01	Soil	Metals
KCP4-TP05-B-100215	1002-106-02	Soil	Metals, DRO, LRO, GRO
KCP4-TP06-A-100215	1002-106-03	Soil	Metals
KCP4-TP09-A-100215	1002-106-04	Soil	Metals
KCP4-TP11-A-100215	1002-106-05	Soil	Metals
MJB2-PRETREAT-100215	1002-106-06	Soil	Metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective section of the Sampling and Analysis Plan (SAP). Laboratory results were reviewed following USEPA guidelines using *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review (USEPA, 2004) and USEPA Contract Laboratory National Functional Guidelines for Organics Data Review* (*USEPA, 1999*) as guidelines, and applying laboratory and method QC criteria as stated in SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custodies were signed by OnSite at the time of sample receipt; the samples were received in good condition. Samples in SDG 1002-106 were received within the recommended temperature of 4° ± 2° C. The remaining samples were received outside of this temperature range; however they were received within a short time of collection so data are not impacted.

Holding Times and Sample Preservation

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Rinse Blanks

No rinse blanks were analyzed in association with these sample groups.

Field Duplicates

No field duplicates were analyzed in association with these sample groups.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

MS and MSD samples were analyzed at the required frequencies for all analyses. All MS/MSD analyses yielded percent recoveries (%R)s and/or relative percent difference (RPD) values within the project data quality objectives with the following exceptions:

- 1001-182 Metals – The MS/MSD RPD value for antimony was above project control limits. Associated results have been qualified "J" or "UJ" to indicate they are estimated.
- 1002-012 Metals – Lead and mercury recovered high in the MS and MSD and the RPD value for mercury was above control limits. Associated results have been qualified "J" to indicate a potentially high bias.

See Table 2 for qualified data.

Laboratory Control Sample (LCS)

LCSs were analyzed at the required frequencies with a few exceptions. For some analyses, MS/MSDs were analyzed in lieu of LCSs to evaluate precision and accuracy. All LCS analyses resulted in recoveries within project required control limits.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. All RPD values were within the project required control limits with the exception of the duplicate antimony results for SDG

1002-012, which were outside of criteria. Associated results have been qualified "J" or "UJ" to indicate they are estimated. See Table 2 for qualified data.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory's reporting limits. Values were reported as undiluted, or when diluted, the reporting limit accurately reflects the dilution factor. Several metals non-detected reporting limits were slightly above those listed in the QAPP due to variations in sample moisture content and initial sample mass used for analysis.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable, as demonstrated by the surrogate, LCS, and MS/MSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the laboratory duplicates and MS/MSD RPD values, with the exceptions noted above. Most data were deemed acceptable as reported; all other data are acceptable as qualified. Table 2 summarizes the qualifiers applied to samples reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable.

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated.

Table 2
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO119-S-100128	Metals	Antimony	100 mg/kg	100J mg/kg	High MS/MSD RPD
KCP4-SO120-S-100128	Metals	Antimony	16 mg/kg	16J mg/kg	High MS/MSD RPD
KCP4-SO121-B-100128	Metals	Antimony	5.3U mg/kg	5.3UJ mg/kg	High MS/MSD RPD
KCP4-SO122-S-100128	Metals	Antimony	5.3U mg/kg	5.3UJ mg/kg	High MS/MSD RPD
KCP4-SO123-B-100128	Metals	Antimony	15 mg/kg	15J mg/kg	High MS/MSD RPD
KCP4-SO125-S-100202	Metals	Antimony	83 mg/kg	83J mg/kg	Duplicate results outside of criteria
		Lead	1600 mg/kg	1600J mg/kg	High MS/MSD %R
		Mercury	2.4 mg/kg	2.4J mg/kg	High MS/MSD %R and RPD
KCP4-SO126-B-100202	Metals	Antimony	21 mg/kg	21J mg/kg	Duplicate results outside of criteria
		Lead	780 mg/kg	780J mg/kg	High MS/MSD %R
		Mercury	1.5 mg/kg	1.5J mg/kg	High MS/MSD %R and RPD

REFERENCES

USEPA. 1983. Methods for Chemical Analysis of Water and Wastes. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio. EPA-600/4-79-020.

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA-530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October 2004.

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark CM Phase 4
Project Number:	000105-01
Date:	November 17, 2010

This report summarizes the review of analytical results for 138 soil samples collected on April 16, July 9 and 28, August 23, September 20, and October 11, 2010. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. Samples were analyzed for the following:

- Total metals by United States Environmental Protection Agency (USEPA) methods 6010B, 6020, 7470A, and 7471A
- Diesel Range Organics (DRO) and Residual Range Organics (RRO) by NWTPHDX
- Hydrocarbon Identification (HCID) by NWTPH-HCID
- Synthetic Precipitation Leaching Procedure (SPLP) metals
- Toxicity Characteristic Leaching Procedure (TCLP) metals

OnSite sample data group (SDG) numbers 1004-105, 1004-122, 1007-057, 1007-197, 1008-176, 1009-189, 1009-248, and 1010-093 were reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
RA11-TP03A-10B-100416	1004-105-01	Soil	Metals, NWTPHDX
RA11-TP03B-10B-100416	1004-105-02	Soil	Metals, NWTPHDX
RA11-TP04A-3.5S-100416	1004-105-03	Soil	Metals, NWTPHDX
RA11-TP04B-3.5S-100416	1004-105-04	Soil	Metals, NWTPHDX
RA11-TP04A-7.5S-100416	1004-105-05	Soil	Metals, NWTPHDX
RA11-TP04B-7.5S-100416	1004-105-06	Soil	Metals, NWTPHDX
RA11-TP04A-10B-100416	1004-105-07	Soil	Metals, NWTPHDX

Sample ID	Lab ID	Matrix	Analyses Requested
RA11-TP04B-10B-100416	1004-105-08	Soil	Metals, NWTPHDX
RA11-TP05A-3.5S-100416	1004-105-09	Soil	Metals, NWTPHDX
RA11-TP05B-3.5S-100416	1004-105-10	Soil	Metals, NWTPHDX
RA11-TP05A-7.5S-100416	1004-105-11	Soil	Metals, NWTPHDX
RA11-TP05B-7.5S-100416	1004-105-12	Soil	Metals, NWTPHDX, SPLP metals
RA11-TP05A-10B-100416	1004-105-13	Soil	Metals, NWTPHDX
RA11-TP01A-3.5S-100416	1004-105-14	Soil	Metals, NWTPHDX
RA11-TP01B-3.5S-100416	1004-105-15	Soil	Metals, NWTPHDX
RA11-TP01A-7.5S-100416	1004-105-16	Soil	Metals, NWTPHDX
RA11-TP01B-7.5S-100416	1004-105-17	Soil	Metals, NWTPHDX
RA11-TP01A-10B-100416	1004-105-18	Soil	Metals, NWTPHDX
RA11-TP02A-3.5S-100416	1004-105-19	Soil	Metals, NWTPHDX
RA11-TP02B-3.5S-100416	1004-105-20	Soil	Metals, NWTPHDX
RA11-TP02A-7.5S-100416	1004-105-21	Soil	Metals, NWTPHDX
RA11-TP02B-7.5S-100416	1004-105-22	Soil	Metals, NWTPHDX
RA11-TP02A-10B-100416	1004-105-23	Soil	Metals, NWTPHDX, SPLP metals
RA11-TP02B-10B-100416	1004-105-24	Soil	Metals, NWTPHDX
RA11-TP03A-3.5S-100416	1004-105-25	Soil	Metals, NWTPHDX
RA11-TP03B-3.5S-100416	1004-105-26	Soil	Metals, NWTPHDX
RA11-TP03A-7.5S-100416	1004-105-27	Soil	Metals, NWTPHDX, SPLP metals
RA11-TP03B-7.5S-100416	1004-105-28	Soil	Metals, NWTPHDX
TP-2A-3	1004-122-10	Soil	Metals
KCP4-SO131-B-100709	1007-057-01	Soil	Metals
KCP4-SO131B-B-100709	1007-057-02	Soil	Metals
KCP4-SO132-S2-100709	1007-057-03	Soil	Metals
KCP4-SO133-S2-100709	1007-057-04	Soil	Metals
KCP4-SO133-S1-	1007-057-05	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
100709			
KCP4-SO134-S1-100709	1007-057-06	Soil	Metals
KCP4-SO134-S2-100709	1007-057-07	Soil	Metals
KCP4-SO135-S2-100709	1007-057-08	Soil	Metals
KCP4-SO135-S1-100709	1007-057-09	Soil	Metals
KCP4-SO136-S2-100709	1007-057-10	Soil	Metals
KCP4-SO136-S1-100709	1007-057-11	Soil	Metals
KCP4-SO137-S2-100709	1007-057-12	Soil	Metals
KCP4-SO137-S1-100709	1007-057-13	Soil	Metals
KCP4-SO138-S2-100709	1007-057-14	Soil	Metals
KCP4-SO138-S1-100709	1007-057-15	Soil	Metals
KCP4-SO139-S2-100709	1007-057-16	Soil	Metals
KCP4-SO139-S1-100709	1007-057-17	Soil	Metals
KCP4-SO140-S2-100709	1007-057-18	Soil	Metals
KCP4-SO140-S1-100709	1007-057-19	Soil	Metals
KCP4-SO141-S2-100709	1007-057-20	Soil	Metals
KCP4-SO141-S1-100709	1007-057-21	Soil	Metals
KCP4-SO142-S2-100709	1007-057-22	Soil	Metals
KCP4-SO143-B-100709	1007-057-23	Soil	Metals
KCP4-SO144-B-100709	1007-057-24	Soil	Metals
KCP4-SO143B-B-100709	1007-057-25	Soil	Metals
KCP4-SO145-B-100709	1007-057-26	Soil	Metals
KCP4-SO146-B-100709	1007-057-27	Soil	Metals
KCP4-SO147-B-100709	1007-057-28	Soil	Metals
KCP4-SO148-B-100709	1007-057-29	Soil	Metals
KCP4-SO149-B-100709	1007-057-30	Soil	Metals
KCP4-SO150-B-100709	1007-057-31	Soil	Metals
KCP4-SO151-B-100709	1007-057-32	Soil	Metals
KCP4-SO152-B-100709	1007-057-33	Soil	Metals
KCP4-SO153-B-100709	1007-057-34	Soil	Metals
KCP4-SO154-B-100709	1007-057-35	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO155-B-100709	1007-057-36	Soil	Metals
KCP4-SO140B-S1-100709	1007-057-37	Soil	Metals
KCP4-SO140B-S2-100709	1007-057-38	Soil	Metals
KCP4-BK01-A-100728	1007-197-01	Soil	Metals, HCID
KCP4-BK01-B-100728	1007-197-02	Soil	Metals
KCP4-BK01-C-100728	1007-197-03	Soil	Metals
KCP4-BK01-D-100728	1007-197-04	Soil	Metals
KCP4-BK01-E-100728	1007-197-05	Soil	Metals
KCP4B-BK01-E-100728	1007-197-06	Soil	Metals
KCP4-SO156-B-100728	1007-197-07	Soil	Metals
KCP4-SO157-S1-100728	1007-197-08	Soil	Metals
KCP4-SO158-S1-100728	1007-197-09	Soil	Metals
KCP4-SO159-B-100728	1007-197-10	Soil	Metals
KCP4-SO159B-B-100728	1007-197-11	Soil	Metals
KCP4-SO160-S1-100728	1007-197-12	Soil	Metals
KCP4-SO161-S1-100728	1007-197-13	Soil	Metals
KCP4-SO162-S1-100728	1007-197-14	Soil	Metals
KCP4-SO163-B-100728	1007-197-15	Soil	Metals
KCP4-BK03-A-100728	1007-197-16	Soil	Metals
KCP4-BK03-B-100728	1007-197-17	Soil	Metals
KCP4-BK03-C-100728	1007-197-18	Soil	Metals
KCP4-BK03-D-100728	1007-197-19	Soil	Metals
KCP4-BK03-E-100728	1007-197-20	Soil	Metals, HCID
KCP4-BK04-A-100728	1007-197-21	Soil	Metals
KCP4-BK04-B-100728	1007-197-22	Soil	Metals
KCP4-BK04-C-100728	1007-197-23	Soil	Metals
KCP4-BK04-D-100728	1007-197-24	Soil	Metals
KCP4-BK04-E-100728	1007-197-25	Soil	Metals
KCP4-SO164-B-100728	1007-197-26	Soil	Metals
KCP4-SO165-S1-100728	1007-197-27	Soil	Metals
KCP4-SO165B-S1-100728	1007-197-28	Soil	Metals
KCP4-SO165-S2-100728	1007-197-29	Soil	Metals
KCP4-SO166-S2-100728	1007-197-30	Soil	Metals
KCP4-SO167-S2-100728	1007-197-31	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-BK06-A-100728	1007-197-32	Soil	Metals
KCP4-BK06B-A-100728	1007-197-33	Soil	Metals
KCP4-BK06-B-100728	1007-197-34	Soil	Metals
KCP4-BK06-C-100728	1007-197-35	Soil	Metals
KCP4-BK06-D-100728	1007-197-36	Soil	Metals
KCP4-BK06-E-100728	1007-197-37	Soil	Metals
KCP4-SO181-S-100823	1008-176-01	Soil	Metals
KCP4-SO182-B-100823	1008-176-02	Soil	Metals
KCP4-SO183-S-100823	1008-176-03	Soil	Metals
KCP4-SO184-B-100823	1008-176-04	Soil	Metals
KCP4-SO185-B-100823	1008-176-05	Soil	Metals
KCP4-BK186-100823	1008-176-06	Soil	Metals
KCP4-BK187-100823	1008-176-07	Soil	Metals
KCP4-BK188-100823	1008-176-08	Soil	Metals
KCP4-CO189-100823	1008-176-09	Concrete	Metals
KCP4-CO190-100823	1008-176-10	Concrete	Metals
KCP4-CO191-100823	1008-176-11	Concrete	Metals
KCP4-CO192-100823	1008-176-12	Concrete	Metals
KCP4-AS193-100823	1008-176-13	Asphalt	Metals
KCP4-BK186,188-100823 COMP	1008-176-06, 08 Comp	Soil	TCLP Metals
KCP4-SO194-B-100920	1009-189-01	Soil	Metals
KCP4-SO195-B-100920	1009-189-02	Soil	Metals
KCP4-SO196-S-100920	1009-189-03	Soil	Metals
KCP4-SO197-S-100920	1009-189-04	Soil	Metals
KCP4-SO198-D-100920	1009-189-05	Soil	Metals
KCP4-SO199-B-100920	1009-189-06	Soil	Metals
KCP4-SO200-B-100923	1009-248-01	Soil	Metals
KCP4-SO201-D-100923	1009-248-02	Soil	Metals
KCP4-SO202-S-100923	1009-248-03	Soil	Metals
KCP4-SO203-S-100923	1009-248-04	Soil	Metals
KCP4-CO204-A-100923	1009-248-05	Soil	Metals
KCP4-CO205-B-100923	1009-248-06	Soil	Metals
KCP4-SO207-B101011	1010-093-01	Soil	Metals
KCP4-SO208-B101011	1010-093-02	Soil	Metals
KCP4-SO209-D101011	1010-093-03	Soil	Metals
KCP4-SO210-B101011	1010-093-04	Soil	Metals
KCP4-SO211-S101011	1010-093-05	Soil	Metals
KCP4-SO212-S101011	1010-093-06	Soil	Metals
KCP4-SO213-S101011	1010-093-07	Soil	Metals
KCP4-CO206-101011	1010-093-08	Soil	Metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed following *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review* (USEPA 2004) and *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008) as guidelines, and applying laboratory and method QC criteria as stated in SW 846, Third Edition, *Test Methods for Evaluating Solid Waste*, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Rinse Blanks

Rinse blanks were collected with two sampling events but were not analyzed.

Field Duplicates

Eleven field duplicates were collected in association with these sample sets. Detected results are summarized in Table 2.

Table 2
Field Duplicate Summary

Analyte	KCP4-SO131-B-100709	KCP4-SO131B-B-100709	RPD
Lead	22 mg/kg	56 mg/kg	87%
Nickel	28 mg/kg	33 mg/kg	16%
Chromium	35 mg/kg	41 mg/kg	16%
Copper	30 mg/kg	29 mg/kg	3%
Zinc	32 mg/kg	38 mg/kg	17%

Analyte	KCP4-SO140-S1-100709	KCP4-SO140B-S1-100709	RPD
Nickel	38 mg/kg	48 mg/kg	23%
Chromium	19 mg/kg	23 mg/kg	19%
Copper	20 mg/kg	21 mg/kg	5%
Zinc	42 mg/kg	34 mg/kg	21%

Analyte	KCP4-SO140-S2-100709	KCP4-SO140B-S2-100709	RPD
Lead	9.8 mg/kg	12 mg/kg	20%
Nickel	13 mg/kg	9.8 mg/kg	28%
Chromium	21 mg/kg	15 mg/kg	33%
Copper	23 mg/kg	27 mg/kg	16%
Zinc	18 mg/kg	13 mg/kg	32%

Analyte	KCP4-SO143-B-100709	KCP4-SO143B-B-100709	RPD
Lead	13 mg/kg	24 mg/kg	59%
Nickel	57 mg/kg	16 mg/kg	112%
Chromium	25 mg/kg	26 mg/kg	4%
Copper	9 mg/kg	9.4 mg/kg	4%
Zinc	33 mg/kg	29 mg/kg	13%

Analyte	KCP4-BK01-E-100728	KCP4-BK01B-E-100728	RPD
Lead	270 mg/kg	1100 mg/kg	121%
Nickel	38 mg/kg	34 mg/kg	11%
Antimony	22 mg/kg	170 mg/kg	154%
Chromium	33 mg/kg	28 mg/kg	16%
Copper	44 mg/kg	45 mg/kg	2%
Zinc	60 mg/kg	54 mg/kg	11%

Analyte	KCP4-SO159-B-100728	KCP4-SO159B-B-100728	RPD
Lead	16 mg/kg	17 mg/kg	6%
Nickel	23 mg/kg	19 mg/kg	19%
Chromium	21 mg/kg	18 mg/kg	15%
Copper	20 mg/kg	18 mg/kg	11%
Zinc	82 mg/kg	89 mg/kg	8%

Analyte	KCP4-SO165-S1-100728	KCP4-SO165B-S1-100728	RPD
Lead	17 mg/kg	55 mg/kg	106%
Nickel	39 mg/kg	53 mg/kg	30%
Chromium	20 mg/kg	33 mg/kg	49%
Copper	23 mg/kg	19 mg/kg	19%
Zinc	34 mg/kg	33 mg/kg	3%

Analyte	KCP4-BK06-A-100728	KCP4-BK06B-A-100728	RPD
Lead	110 mg/kg	140 mg/kg	24%
Nickel	44 mg/kg	44 mg/kg	0%
Chromium	34 mg/kg	110 mg/kg	106%
Copper	49 mg/kg	48 mg/kg	2%
Zinc	56 mg/kg	57 mg/kg	2%

Analyte	KCP4-SO195-B-100920	KCP4-SO198-D-100920	RPD
Lead	5.5U mg/kg	7.8 mg/kg	200%
Nickel	40 mg/kg	34 mg/kg	16%
Chromium	21 mg/kg	20 mg/kg	5%
Copper	20 mg/kg	21 mg/kg	5%
Zinc	160 mg/kg	110 mg/kg	37%

Analyte	KCP4-SO200-B-100923	KCP4-SO201-D-100923	RPD
Lead	8 mg/kg	5.4U mg/kg	200%
Nickel	43 mg/kg	46 mg/kg	7%
Chromium	22 mg/kg	23 mg/kg	4%
Copper	25 mg/kg	23 mg/kg	8%
Zinc	27 mg/kg	23 mg/kg	16%

Analyte	KCP4-SO208-B101011	KCP4-SO209-D101011	RPD
Nickel	91 mg/kg	88 mg/kg	3%
Chromium	36 mg/kg	33 mg/kg	9%
Copper	17 mg/kg	20 mg/kg	16%
Zinc	35 mg/kg	35 mg/kg	0%

Concentrations at or near the reporting limit (RL) may have exaggerated relative percent difference (RPD) values. No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Laboratory Control Sample (LCS) and LCS Duplicate (LCSD)

LCSs and LCSDs were analyzed at the required frequencies and resulted in recoveries within project-required control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

MS and MSD samples were analyzed at the required frequencies or LCS/LCSDs were analyzed in lieu of MS/MSDs. All MS/MSD recoveries and RPD values were within control limits with the exception of the MS/MSD analyzed with SDG 1004-122. Copper and lead had very low or no recoveries however, sample concentrations were significantly greater than (>4x) the spike levels so data were not qualified. The MS/MSD RPD values for these analytes were above control limits so associated results have been qualified "J" to indicate they are estimated.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. RPD control limits do not apply if the sample and/or duplicate result are less than 5x the MRL. For results <5x the MRL, the difference between the sample and duplicate result must be <2x the MRL for solid matrices and <MRL for water matrices. All duplicate results met project-required control limits with the following exceptions:

- SDG 1004-105 – Copper, lead, and nickel duplicate results were outside of criteria for the second of two duplicates associated with this SDG. All associated sample results have been qualified "J" or "UJ" to indicate they are estimated.
- SDG 1004-122 – Copper and zinc RPD values were above control limits. Associated sample results have been qualified "J" to indicate they are estimated.
- SDG 1008-176 – The lead RPD value in one of two duplicates was above control limits. Associated sample results have been qualified "J" or "UJ" to indicate they are estimated.

See Table 3 for qualified data.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was also acceptable as demonstrated by the laboratory duplicates, MS/MSD, and LCS/LCSD RPD values, with the exceptions noted above. Most data were considered acceptable as reported; all other data are acceptable as qualified. Table 3 summarizes the qualifiers applied to samples reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated

Table 3
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
RA11-TP02B-3.5S-100416	Metals	Copper	2700 mg/kg	2700J mg/kg	Duplicate result outside of criteria
		Lead	210 mg/kg	210J mg/kg	
		Nickel	23 mg/kg	23J mg/kg	
RA11-TP02A-7.5S-100416	Metals	Copper	180 mg/kg	180J mg/kg	Duplicate result outside of criteria
		Lead	200 mg/kg	200J mg/kg	
		Nickel	69 mg/kg	69J mg/kg	
RA11-TP02B-7.5S-100416	Metals	Copper	170 mg/kg	170J mg/kg	Duplicate result outside of criteria
		Lead	23 mg/kg	23J mg/kg	
		Nickel	31 mg/kg	31J mg/kg	
RA11-TP02A-10B-100416	Metals	Copper	5500 mg/kg	5500J mg/kg	Duplicate result outside of criteria
		Lead	3300 mg/kg	3300J mg/kg	
		Nickel	22 mg/kg	22J mg/kg	
RA11-TP02B-10B-100416	Metals	Copper	23 mg/kg	23J mg/kg	Duplicate result outside of criteria
		Lead	6.7U mg/kg	6.7UJ mg/kg	
		Nickel	31 mg/kg	31J mg/kg	
RA11-TP03A-3.5S-100416	Metals	Copper	43 mg/kg	43J mg/kg	Duplicate result outside of criteria
		Lead	270 mg/kg	270J mg/kg	
		Nickel	44 mg/kg	44J mg/kg	
RA11-TP03B-3.5S-100416	Metals	Copper	200 mg/kg	200J mg/kg	Duplicate result

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		Lead	3200 mg/kg	3200J mg/kg	outside of criteria
		Nickel	45 mg/kg	45J mg/kg	
RA11-TP03A-7.5S-100416	Metals	Copper	1600 mg/kg	1600J mg/kg	Duplicate result outside of criteria
		Lead	910 mg/kg	910J mg/kg	
		Nickel	170 mg/kg	170J mg/kg	
RA11-TP03B-7.5S-100416	Metals	Copper	290 mg/kg	290J mg/kg	Duplicate result outside of criteria
		Lead	140 mg/kg	140J mg/kg	
		Nickel	37 mg/kg	37J mg/kg	
TP-2A-3	Metals	Copper	5200 mg/kg	5200J mg/kg	High duplicate and/or MS/MSD RPD
		Zinc	110 mg/kg	110J mg/kg	
		Lead	1100 mg/kg	1100J mg/kg	
KCP4-BK187-100823	Metals	Lead	6 mg/kg	6J mg/kg	High duplicate RPD
KCP4-SO183-S-100823	Metals	Lead	35 mg/kg	35J mg/kg	High duplicate RPD
KCP4-BK188-100823	Metals	Lead	30 mg/kg	30J mg/kg	High duplicate RPD
KCP4-CO191-100823	Metals	Lead	260 mg/kg	260J mg/kg	High duplicate RPD
KCP4-SO182-B-100823	Metals	Lead	78 mg/kg	78J mg/kg	High duplicate RPD
KCP4-SO185-B-100823	Metals	Lead	14 mg/kg	14J mg/kg	High duplicate RPD
KCP4-BK186-100823	Metals	Lead	2400 mg/kg	2400J mg/kg	High duplicate RPD
KCP4-CO189-100823	Metals	Lead	15 mg/kg	15J mg/kg	High duplicate RPD
KCP4-CO192-100823	Metals	Lead	18 mg/kg	18J mg/kg	High duplicate RPD
KCP4-CO190-100823	Metals	Lead	17 mg/kg	17J mg/kg	High duplicate RPD
KCP4-SO181-S-100823	Metals	Lead	81 mg/kg	81J mg/kg	High duplicate RPD
KCP4-SO184-B-100823	Metals	Lead	5.3U mg/kg	5.3UJ mg/kg	High duplicate RPD

*TCL = target compound list

REFERENCES

USEPA. 1983. Methods for Chemical Analysis of Water and Wastes. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio. EPA 600/4 79-020.

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Anchor QEA, LLC
1423 3rd Avenue, Suite 300
Seattle, WA 98101-2226
ATTN: Ms. Delaney Peterson

December 1, 2010

SUBJECT: Kim Clark, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on November 10, 2010. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 24351:

SDG #	Fraction
1007-046, 1008-103	Metals

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

Attachment 1

197 Pages-EX IV EDD

LDC #24351 (Anchor Environmental-Seattle WA / Kim Clark)

Project #000105-01.09

LDC	SDG#	DATE REC'D	(3) DATE DUE	Metals (6010B)		TCLP Lead (6010B)		% Moist																											
Matrix:	Waste/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	1007-046	11/10/10	12/03/10	0	10	0	5	0	10																										
B	1008-103	11/10/10	12/03/10	0	15	-	-	0	15																										
Total	A/SC			0	25	0	5	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS, MSD, or DUP's.

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: July 6 through July 7, 2010

LDC Report Date: November 26, 2010

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: OnSite Environmental, Inc.

Sample Delivery Group (SDG): 1007-046

Sample Identification

KCP4-SP01-100706
KCP4-SP02-100706
KCP4-SP03-100706
KCP4-SP04-100706
KCP4-SP05-100706
KCP4-BK01-100707
KCP4-BK02-100707
KCP4-BK03-100707
KCP4-BK04-100707
KCP4-BK05-100707
KCP4-BK01-100707TCLP
KCP4-BK02-100707TCLP
KCP4-BK03-100707TCLP
KCP4-BK04-100707TCLP
KCP4-BK05-100707TCLP
KCP4-SP01-100706MS
KCP4-SP01-100706MSD
KCP4-SP01-100706DUP
KCP4-BK01-100707TCLPMS
KCP4-BK01-100707TCLPMSD
KCP4-BK01-100707TCLPDUP

Introduction

This data review covers 21 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Thallium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
KCP4-SP01-100706MS/MSD (KCP4-SP01-100706 KCP4-SP02-100706 KCP4-SP03-100706 KCP4-SP04-100706 KCP4-SP05-100706 KCP4-BK01-100707 KCP4-BK02-100707 KCP4-BK03-100707 KCP4-BK04-100707 KCP4-BK05-100707)	Copper	149 (75-125)	-	-	J (all detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard data were reviewed and within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to matrix spike %R problems, copper detected results were qualified as estimated in ten samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level IV data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Metals - Data Qualification Summary - SDG 1007-046

SDG	Sample	Analyte	Flag	A or P	Reason
1007-046	KCP4-SP01-100706 KCP4-SP02-100706 KCP4-SP03-100706 KCP4-SP04-100706 KCP4-SP05-100706 KCP4-BK01-100707 KCP4-BK02-100707 KCP4-BK03-100707 KCP4-BK04-100707 KCP4-BK05-100707	Copper	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1007-046

No Sample Data Qualified in this SDG

LDC #: 24351A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11-19-10

SDG #: 1007-046 Level IV Page: 1 of 1

Laboratory : OnSite Environmental Inc. Reviewer: MG

2nd Reviewer: W

METHOD: Metals (EPA SW 846 Method 6010B/7000/6020 ~~9M~~

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7-6-10 through 7-7-10
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	SW	MS/MSD
VII.	Duplicate Sample Analysis	A	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	not utilized
XI.	ICP Serial Dilution	N	not performed
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: all soil

1	KCP4-SP01-100706	11	KCP4-BK01-100707TCLP	21	KCP4-BK01-100707TCLPDUP	31	
2	KCP4-SP02-100706	12	KCP4-BK02-100707TCLP	22		32	
3	KCP4-SP03-100706	13	KCP4-BK03-100707TCLP	23		33	
4	KCP4-SP04-100706	14	KCP4-BK04-100707TCLP	24		34	
5	KCP4-SP05-100706	15	KCP4-BK05-100707TCLP	25		35	
6	KCP4-BK01-100707	16	KCP4-SP01-100706MS	26		36	
7	KCP4-BK02-100707	17	KCP4-SP01-100706MSD	27		37	
8	KCP4-BK03-100707	18	KCP4-SP01-100706DUP	28		38	
9	KCP4-BK04-100707	19	KCP4-BK01-100707TCLPMS	29	PBS	39	
10	KCP4-BK05-100707	20	KCP4-BK01-100707TCLPMSD	30	PB TCLP	40	

Notes:

LDC #: 24351A4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: [illegible]

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

LDC #: 24351A4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable. to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 24351A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1 → 10	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
11 → 15	TCLP	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
QC 16 → 18	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
19 → 21	TCLP	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___

Analysis Method

ICP	S/TCLP	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
ICP-MS	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___

Comments: Mercury by CVAA if performed

ELEMENTS.4

LDC #: 24351A4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: MG
2nd Reviewer: [signature]

METHOD: Trace metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for samples?

Y (N) N/A Was a post digestion spike analyzed for elements that did not meet the required criteria for matrix spike recovery?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications	Post Spike (%R)
1	16/17	soil	Cu	149 (75-125)			1→10	J dets / A	

Comments: _____

LDC #: 24351A4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer: 1

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
1350 ICV	ICP (Initial calibration)	As	982.41	1000	-1.8 %D	1.8 %D	Y
1401 ICV	ICP/MS (Initial calibration)	Tl	49.56	50.0	-0.88 %D	0.87 %D	
1224 ICV	CVAA (Initial calibration)	Hg	4.974	5.00	-0.52 %D	0.52 %D	
1401 CCV1	ICP (Continuing calibration)	Pb	10080	10000	0.8 %D	-0.80 %D	
1435 CCV1	ICP/MS (Continuing calibration)	Tl	40.34	40.0	0.85 %D	-0.85 %D	
1325 CCV4	CVAA (Continuing calibration)	Hg	4.872	5.00	-2.6 %D	2.6 %D	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 24351A4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1413 ICSAB	ICP interference check	Zn	999.72 (µg/L)	1000 (µg/L)	100	not reported	Y
1427 LCS	Laboratory control sample	Cr	100.10 (mg/kg)	100 (mg/kg)	100	100	
1232 16	Matrix spike	Cu	(SSR-SR) 74.42 (mg/kg)	50 (mg/kg)	149	149	
1431 / 1435 18	Duplicate	Sb	8.90 (mg/kg)	8.02 (mg/kg)	10	11	
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.
MS & DUP results in wet weight

LDC #: 24351A4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for #1, Sb were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(177.95\ \mu g/L)(0.100\ L)}{(2\ g)\ \ (.97)} = 9.173\ \mu g/g \text{ or } mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	1	Sb	9.2	9.2	Y
		As	50	50	
		Cr	64	64	
		Cu	91	91	
		Pb	59	59	
		Hg	0.32	0.32	
		Ni	58	58	
		Zn	510	510	
			(mg/L)	(mg/L)	
2	11	Pb	0.54	0.54	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: August 16, 2010

LDC Report Date: November 26, 2010

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: OnSite Environmental, Inc.

Sample Delivery Group (SDG): 1008-103

Sample Identification

KCP4-BK168-100816
KCP4-BK169-100816
KCP4-BK-169B-100816
KCP4-BK170-100816
KCP4-BK173-100816
KCP4-BK174-100816
KCP4-SO171-S1-100816
KCP4-SO172-S1-100816
KCP4-SO175-B-100816
KCP4-SO176-B-100816
KCP4-SO176B-B-100816
KCP4-SO177-S1-100816
KCP4-SO178-B-100816
KCP4-SO179-S1-100816
KCP4-SO180-S1-100816
KCP4-SO176-B-100816MS
KCP4-SO176-B-100816MSD
KCP4-SO176-B-100816DUP

Introduction

This data review covers 18 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Thallium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard data were reviewed and within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level IV data validation all results are considered valid and usable for all purposes.

XIV. Field Duplicates

Samples KCP4-BK169-100816 and KCP4-BK-169B-100816 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-BK169-100816	KCP4-BK-169B-100816	
Chromium	34	31	9 (≤50)
Copper	48	51	6 (≤50)
Lead	14	11	24 (≤50)
Nickel	64	57	12 (≤50)
Zinc	73	79	8 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Metals - Data Qualification Summary - SDG 1008-103

No Sample Data Qualified in this SDG

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1008-103

No Sample Data Qualified in this SDG

Kim Clark
Metals - Data Qualification Summary - SDG 1008-103

No Sample Data Qualified in this SDG

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1008-103

No Sample Data Qualified in this SDG

LDC #: 24351B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11-19-10

SDG #: 1008-103 Level IV Page: 1 of 1

Laboratory : OnSite Environmental Inc. MG Reviewer: MG

2nd Reviewer: ✓

METHOD: Metals (EPA SW 846 Method 6010B/7000)/6020

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8-16-10
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	A	MS/MSD
VII.	Duplicate Sample Analysis	A	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	not utilized
XI.	ICP Serial Dilution	N	not performed
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	D = 2+3 ~~D=10+11~~ ~
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: all soil

1	KCP4-BK168-100816	11	KCP4-SO176B-B-100816	21		31	
2	KCP4-BK169-100816	12	KCP4-SO177-S1-100816	22		32	
3	KCP4-BK-169B-100816	13	KCP4-SO178-B-100816	23		33	
4	KCP4-BK170-100816	14	KCP4-SO179-S1-100816	24		34	
5	KCP4-BK173-100816	15	KCP4-SO180-S1-100816	25		35	
6	KCP4-BK174-100816	16	KCP4-SO176-B-100816MS	26		36	
7	KCP4-SO171-S1-100816	17	KCP4-SO176-B-100816MSD	27		37	
8	KCP4-SO172-S1-100816	18	KCP4-SO176-B-100816DUP	28		38	
9	KCP4-SO175-B-100816	19	PBS	29		39	
10	KCP4-SO176-B-100816	20		30		40	

Notes:

LDC #: 24351B4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: [illegible]

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

LDC #: 24351B4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: L

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 24351B4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1→15	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
QC 16→18		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
Analysis Method		
ICP	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___

Comments: Mercury by CVAA if performed

LDC#: 24351B4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer:

METHOD: Metals (EPA Method 6010B/7000)

(Y)N NA Were field duplicate pairs identified in this SDG?
(Y)N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	2	3		
Chromium	34	31	9	
Copper	48	51	6	
Lead	14	11	24	
Nickel	64	57	12	
Zinc	73	79	8	

V:\FIELD DUPLICATES\FD_inorganic\24351B4.WPD

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	10	11		
Chromium	32	27	17	
Copper	16	17	6	
Nickel	59	59	0	
Zinc	26	26	0	

V:\FIELD DUPLICATES\FD_inorganic\24351B4.WPD

LDC #: 24351B4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
1122 ICV	ICP (Initial calibration)	Sb	1025.0	1000	2.5 %D	-2.5%D	Y
1146 ICV	ICP/MS (Initial calibration)	Tl	50.598	50.0	1.2 %D	-1.2%D	
0952 ICV	CVAA (Initial calibration)	Hg	5.366	5.00	7.3 %D	-7.3%D	
1321 CCV	ICP (Continuing calibration)	Cr	1014.6	1000	1.5 %D	-1.5% D	
1220 CCV2	ICP/MS (Continuing calibration)	Tl	40.908	40.0	2.3 %D	-2.3 %D	
1104 CCV4	CVAA (Continuing calibration)	Hg	5.078	5.00	1.6 %D	-1.6 %D	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 24351B4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1144 ICSAB	ICP interference check	Pb	937.37 (ug/L)	1000 (ug/L)	93.7	not reported	Y
1200 LCS	Laboratory control sample	Cu	57.14 (mg/kg)	50 (mg/kg)	114	114	
1215 16	Matrix spike	As	(SSR-SR) 101.34 (mg/kg)	100 (mg/kg)	101	101	
1204 / 1207 18	Duplicate	Ni	56.25 (mg/kg)	65.24 (mg/kg)	15	15	
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.
MS / DUP reported on wet weight basis

LDC #: 24351B4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for #10, Ni were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(1125.0\ \mu g/L)(0.100\ L)}{(2\ g)(0.95)} = 59.21\ \mu g/g \text{ or } mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	10	Cr	32	32	Y
		Cu	16	15	
		Ni	59	59	
		Zn	26	26	
2	11	Cr	27	27	
		Cu	17	17	
		Ni	59	59	
		Zn	26	26	

Note:

Kim Clark - LDC 24351

SDG: 07-046

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
10MB0709S2	10MB0709S2	Antimony	7/9/2010	5	Yes	N	U			5		mg/kg
10MB0709S2	10MB0709S2	Zinc	7/9/2010	2.5	Yes	N	U			2.5		mg/kg
10MB0709S2	10MB0709S2	Copper	7/9/2010	1	Yes	N	U			1		mg/kg
10MB0709S2	10MB0709S2	Arsenic	7/9/2010	10	Yes	N	U			10		mg/kg
10MB0709S2	10MB0709S2	Nickel	7/9/2010	2.5	Yes	N	U			2.5		mg/kg
10MB0709S2	10MB0709S2	Lead	7/9/2010	5	Yes	N	U			5		mg/kg
10MB0709S2	10MB0709S2	Chromium	7/9/2010	0.5	Yes	N	U			0.5		mg/kg
10MB0714T7	10MB0714T7	Lead	7/15/2010	0.2	Yes	N	U			0.2		mg/l
KCP4-BK01-100707	1007-046-06	Antimony	7/9/2010	5.4	Yes	N	U			5.4		mg/kg
KCP4-BK01-100707	1007-046-06	Zinc	7/9/2010	42	Yes	Y				2.7		mg/kg
KCP4-BK01-100707	1007-046-06	Nickel	7/9/2010	38	Yes	Y				2.7		mg/kg
KCP4-BK01-100707	1007-046-06	Arsenic	7/9/2010	11	Yes	N	U			11		mg/kg
KCP4-BK01-100707	1007-046-06	Lead	7/9/2010	120	Yes	Y				5.4		mg/kg
KCP4-BK01-100707	1007-046-06	Chromium	7/9/2010	23	Yes	Y				0.54		mg/kg
KCP4-BK01-100707	1007-046-06	Copper	7/9/2010	48	Yes	Y		J	8	1.1		mg/kg
KCP4-BK01-100707	1007-046-06	Lead	7/15/2010	0.54	Yes	Y				0.2		mg/l
KCP4-BK02-100707	1007-046-07	Zinc	7/9/2010	64	Yes	Y				3		mg/kg
KCP4-BK02-100707	1007-046-07	Copper	7/9/2010	50	Yes	Y		J	8	1.2		mg/kg
KCP4-BK02-100707	1007-046-07	Chromium	7/9/2010	21	Yes	Y				0.59		mg/kg
KCP4-BK02-100707	1007-046-07	Arsenic	7/9/2010	12	Yes	N	U			12		mg/kg
KCP4-BK02-100707	1007-046-07	Antimony	7/9/2010	14	Yes	Y				5.9		mg/kg
KCP4-BK02-100707	1007-046-07	Nickel	7/9/2010	38	Yes	Y				3		mg/kg
KCP4-BK02-100707	1007-046-07	Lead	7/9/2010	280	Yes	Y				5.9		mg/kg
KCP4-BK02-100707	1007-046-07	Lead	7/15/2010	2.5	Yes	Y				0.2		mg/l

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-BK03-100707	1007-046-08	Lead	7/9/2010	210	Yes	Y				5.7		mg/kg
KCP4-BK03-100707	1007-046-08	Copper	7/9/2010	49	Yes	Y		J	8	1.1		mg/kg
KCP4-BK03-100707	1007-046-08	Chromium	7/9/2010	28	Yes	Y				0.57		mg/kg
KCP4-BK03-100707	1007-046-08	Arsenic	7/9/2010	11	Yes	N	U			11		mg/kg
KCP4-BK03-100707	1007-046-08	Antimony	7/9/2010	11	Yes	Y				5.7		mg/kg
KCP4-BK03-100707	1007-046-08	Nickel	7/9/2010	39	Yes	Y				2.8		mg/kg
KCP4-BK03-100707	1007-046-08	Zinc	7/9/2010	68	Yes	Y				2.8		mg/kg
KCP4-BK03-100707	1007-046-08	Lead	7/15/2010	2.6	Yes	Y				0.2		mg/l
KCP4-BK04-100707	1007-046-09	Lead	7/9/2010	220	Yes	Y				5.4		mg/kg
KCP4-BK04-100707	1007-046-09	Nickel	7/9/2010	25	Yes	Y				2.7		mg/kg
KCP4-BK04-100707	1007-046-09	Antimony	7/9/2010	5.4	Yes	N	U			5.4		mg/kg
KCP4-BK04-100707	1007-046-09	Arsenic	7/9/2010	11	Yes	N	U			11		mg/kg
KCP4-BK04-100707	1007-046-09	Chromium	7/9/2010	22	Yes	Y				0.54		mg/kg
KCP4-BK04-100707	1007-046-09	Copper	7/9/2010	36	Yes	Y		J	8	1.1		mg/kg
KCP4-BK04-100707	1007-046-09	Zinc	7/9/2010	87	Yes	Y				2.7		mg/kg
KCP4-BK04-100707	1007-046-09	Lead	7/15/2010	0.27	Yes	Y				0.2		mg/l
KCP4-BK05-100707	1007-046-10	Copper	7/9/2010	210	Yes	Y		J	8	1.2		mg/kg
KCP4-BK05-100707	1007-046-10	Zinc	7/9/2010	120	Yes	Y				3.1		mg/kg
KCP4-BK05-100707	1007-046-10	Chromium	7/9/2010	24	Yes	Y				0.62		mg/kg
KCP4-BK05-100707	1007-046-10	Nickel	7/9/2010	39	Yes	Y				3.1		mg/kg
KCP4-BK05-100707	1007-046-10	Antimony	7/9/2010	48	Yes	Y				6.2		mg/kg
KCP4-BK05-100707	1007-046-10	Arsenic	7/9/2010	12	Yes	N	U			12		mg/kg
KCP4-BK05-100707	1007-046-10	Lead	7/9/2010	1000	Yes	Y				6.2		mg/kg
KCP4-BK05-100707	1007-046-10	Lead	7/15/2010	2.4	Yes	Y				0.2		mg/l
KCP4-SP01-100706	1007-046-01	Nickel	7/9/2010	58	Yes	Y				2.6		mg/kg

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SP01-100706	1007-046-01	Zinc	7/9/2010	510		Yes	Y				2.6		mg/kg
KCP4-SP01-100706	1007-046-01	Antimony	7/9/2010	9.2		Yes	Y				5.2		mg/kg
KCP4-SP01-100706	1007-046-01	Copper	7/9/2010	91		Yes	Y		J	8	1		mg/kg
KCP4-SP01-100706	1007-046-01	Lead	7/9/2010	59		Yes	Y				5.2		mg/kg
KCP4-SP01-100706	1007-046-01	Chromium	7/9/2010	64		Yes	Y				5.2		mg/kg
KCP4-SP01-100706	1007-046-01	Arsenic	7/9/2010	50		Yes	Y				10		mg/kg
KCP4-SP02-100706	1007-046-02	Zinc	7/9/2010	390		Yes	Y				2.6		mg/kg
KCP4-SP02-100706	1007-046-02	Copper	7/9/2010	85		Yes	Y		J	8	1		mg/kg
KCP4-SP02-100706	1007-046-02	Chromium	7/9/2010	64		Yes	Y				0.52		mg/kg
KCP4-SP02-100706	1007-046-02	Arsenic	7/9/2010	26		Yes	Y				10		mg/kg
KCP4-SP02-100706	1007-046-02	Antimony	7/9/2010	5.3		Yes	Y				5.2		mg/kg
KCP4-SP02-100706	1007-046-02	Nickel	7/9/2010	67		Yes	Y				2.6		mg/kg
KCP4-SP02-100706	1007-046-02	Lead	7/9/2010	42		Yes	Y				5.2		mg/kg
KCP4-SP03-100706	1007-046-03	Arsenic	7/9/2010	44		Yes	Y				10		mg/kg
KCP4-SP03-100706	1007-046-03	Zinc	7/9/2010	410		Yes	Y				2.6		mg/kg
KCP4-SP03-100706	1007-046-03	Chromium	7/9/2010	57		Yes	Y				0.52		mg/kg
KCP4-SP03-100706	1007-046-03	Antimony	7/9/2010	9.2		Yes	Y				5.2		mg/kg
KCP4-SP03-100706	1007-046-03	Nickel	7/9/2010	65		Yes	Y				2.6		mg/kg
KCP4-SP03-100706	1007-046-03	Lead	7/9/2010	32		Yes	Y				5.2		mg/kg
KCP4-SP03-100706	1007-046-03	Copper	7/9/2010	75		Yes	Y		J	8	1		mg/kg
KCP4-SP04-100706	1007-046-04	Zinc	7/9/2010	310		Yes	Y				2.6		mg/kg
KCP4-SP04-100706	1007-046-04	Copper	7/9/2010	86		Yes	Y		J	8	1		mg/kg
KCP4-SP04-100706	1007-046-04	Chromium	7/9/2010	54		Yes	Y				0.52		mg/kg
KCP4-SP04-100706	1007-046-04	Arsenic	7/9/2010	23		Yes	Y				10		mg/kg
KCP4-SP04-100706	1007-046-04	Antimony	7/9/2010	5.2		Yes	N	U			5.2		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SP04-100706	1007-046-04	Nickel	7/9/2010	70		Yes	Y				2.6		mg/kg
KCP4-SP04-100706	1007-046-04	Lead	7/9/2010	22		Yes	Y				5.2		mg/kg
KCP4-SP05-100706	1007-046-05	Copper	7/9/2010	100		Yes	Y		J	8	1.1		mg/kg
KCP4-SP05-100706	1007-046-05	Lead	7/9/2010	110		Yes	Y				5.3		mg/kg
KCP4-SP05-100706	1007-046-05	Antimony	7/9/2010	9.3		Yes	Y				5.3		mg/kg
KCP4-SP05-100706	1007-046-05	Chromium	7/9/2010	61		Yes	Y				0.53		mg/kg
KCP4-SP05-100706	1007-046-05	Nickel	7/9/2010	64		Yes	Y				2.6		mg/kg
KCP4-SP05-100706	1007-046-05	Zinc	7/9/2010	220		Yes	Y				2.6		mg/kg
KCP4-SP05-100706	1007-046-05	Arsenic	7/9/2010	13		Yes	Y				11		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
10MB0709S2	10MB0709S2	Thallium	7/9/2010	2.5		Yes	N	U			2.5		mg/kg
KCP4-BK01-100707	1007-046-06	Thallium	7/9/2010	2.7		Yes	N	U			2.7		mg/kg
KCP4-BK02-100707	1007-046-07	Thallium	7/9/2010	3		Yes	N	U			3		mg/kg
KCP4-BK03-100707	1007-046-08	Thallium	7/9/2010	2.8		Yes	N	U			2.8		mg/kg
KCP4-BK04-100707	1007-046-09	Thallium	7/9/2010	2.7		Yes	N	U			2.7		mg/kg
KCP4-BK05-100707	1007-046-10	Thallium	7/9/2010	3.1		Yes	N	U			3.1		mg/kg
KCP4-SP01-100706	1007-046-01	Thallium	7/9/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-SP02-100706	1007-046-02	Thallium	7/9/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-SP03-100706	1007-046-03	Thallium	7/9/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-SP04-100706	1007-046-04	Thallium	7/9/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-SP05-100706	1007-046-05	Thallium	7/9/2010	2.6		Yes	N	U			2.6		mg/kg

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
10MB0709S2	10MB0709S2	Mercury	7/9/2010	0.25		Yes	N	U			0.25		mg/kg

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Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-BK01-100707	1007-046-06	Mercury	7/9/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-BK02-100707	1007-046-07	Mercury	7/9/2010	1.1	Yes	Y				0.3		mg/kg
KCP4-BK03-100707	1007-046-08	Mercury	7/9/2010	7.6	Yes	Y				2.8		mg/kg
KCP4-BK04-100707	1007-046-09	Mercury	7/9/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-BK05-100707	1007-046-10	Mercury	7/9/2010	0.33	Yes	Y				0.31		mg/kg
KCP4-SP01-100706	1007-046-01	Mercury	7/9/2010	0.32	Yes	Y				0.26		mg/kg
KCP4-SP02-100706	1007-046-02	Mercury	7/9/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SP03-100706	1007-046-03	Mercury	7/9/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SP04-100706	1007-046-04	Mercury	7/9/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SP05-100706	1007-046-05	Mercury	7/9/2010	0.34	Yes	Y				0.26		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
10MB0817S2&MB0817S3	10MB0817S2&MB	Zinc	8/17/2010	2.5	Yes	N	U			2.5		mg/kg
10MB0817S2&MB0817S3	10MB0817S2&MB	Copper	8/17/2010	1	Yes	N	U			1		mg/kg
10MB0817S2&MB0817S3	10MB0817S2&MB	Lead	8/17/2010	5	Yes	N	U			5		mg/kg
10MB0817S2&MB0817S3	10MB0817S2&MB	Nickel	8/17/2010	2.5	Yes	N	U			2.5		mg/kg
10MB0817S2&MB0817S3	10MB0817S2&MB	Antimony	8/17/2010	5	Yes	N	U			5		mg/kg
10MB0817S2&MB0817S3	10MB0817S2&MB	Arsenic	8/17/2010	10	Yes	N	U			10		mg/kg
10MB0817S2&MB0817S3	10MB0817S2&MB	Chromium	8/17/2010	0.5	Yes	N	U			0.5		mg/kg
KCP4-BK168-100816	1008-103-01	Nickel	8/17/2010	50	Yes	Y				2.6		mg/kg
KCP4-BK168-100816	1008-103-01	Lead	8/17/2010	14	Yes	Y				5.2		mg/kg
KCP4-BK168-100816	1008-103-01	Arsenic	8/17/2010	13	Yes	Y				10		mg/kg
KCP4-BK168-100816	1008-103-01	Antimony	8/17/2010	5.2	Yes	N	U			5.2		mg/kg
KCP4-BK168-100816	1008-103-01	Zinc	8/17/2010	180	Yes	Y				2.6		mg/kg
KCP4-BK168-100816	1008-103-01	Copper	8/17/2010	75	Yes	Y				1		mg/kg
KCP4-BK168-100816	1008-103-01	Chromium	8/17/2010	40	Yes	Y				0.52		mg/kg
KCP4-BK169-100816	1008-103-02	Antimony	8/17/2010	5.3	Yes	N	U			5.3		mg/kg
KCP4-BK169-100816	1008-103-02	Copper	8/17/2010	48	Yes	Y				1.1		mg/kg
KCP4-BK169-100816	1008-103-02	Chromium	8/17/2010	34	Yes	Y				0.53		mg/kg
KCP4-BK169-100816	1008-103-02	Lead	8/17/2010	14	Yes	Y				5.3		mg/kg
KCP4-BK169-100816	1008-103-02	Zinc	8/17/2010	73	Yes	Y				2.6		mg/kg
KCP4-BK169-100816	1008-103-02	Nickel	8/17/2010	64	Yes	Y				2.6		mg/kg
KCP4-BK169-100816	1008-103-02	Arsenic	8/17/2010	11	Yes	N	U			11		mg/kg
KCP4-BK-169B-100816	1008-103-03	Nickel	8/17/2010	57	Yes	Y				2.7		mg/kg
KCP4-BK-169B-100816	1008-103-03	Zinc	8/17/2010	79	Yes	Y				2.7		mg/kg
KCP4-BK-169B-100816	1008-103-03	Copper	8/17/2010	51	Yes	Y				1.1		mg/kg
KCP4-BK-169B-100816	1008-103-03	Chromium	8/17/2010	31	Yes	Y				0.53		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-BK-169B-100816	1008-103-03	Antimony	8/17/2010	5.3	Yes	N	U			5.3		mg/kg
KCP4-BK-169B-100816	1008-103-03	Lead	8/17/2010	11	Yes	Y				5.3		mg/kg
KCP4-BK-169B-100816	1008-103-03	Arsenic	8/17/2010	11	Yes	N	U			11		mg/kg
KCP4-BK170-100816	1008-103-04	Nickel	8/17/2010	62	Yes	Y				2.6		mg/kg
KCP4-BK170-100816	1008-103-04	Zinc	8/17/2010	72	Yes	Y				2.6		mg/kg
KCP4-BK170-100816	1008-103-04	Copper	8/17/2010	31	Yes	Y				1		mg/kg
KCP4-BK170-100816	1008-103-04	Chromium	8/17/2010	29	Yes	Y				0.52		mg/kg
KCP4-BK170-100816	1008-103-04	Arsenic	8/17/2010	10	Yes	N	U			10		mg/kg
KCP4-BK170-100816	1008-103-04	Antimony	8/17/2010	5.2	Yes	N	U			5.2		mg/kg
KCP4-BK170-100816	1008-103-04	Lead	8/17/2010	6.7	Yes	Y				5.2		mg/kg
KCP4-BK173-100816	1008-103-05	Nickel	8/17/2010	33	Yes	Y				2.8		mg/kg
KCP4-BK173-100816	1008-103-05	Zinc	8/17/2010	95	Yes	Y				2.8		mg/kg
KCP4-BK173-100816	1008-103-05	Arsenic	8/17/2010	11	Yes	N	U			11		mg/kg
KCP4-BK173-100816	1008-103-05	Copper	8/17/2010	84	Yes	Y				1.1		mg/kg
KCP4-BK173-100816	1008-103-05	Lead	8/17/2010	320	Yes	Y				5.6		mg/kg
KCP4-BK173-100816	1008-103-05	Antimony	8/17/2010	5.6	Yes	N	U			5.6		mg/kg
KCP4-BK173-100816	1008-103-05	Chromium	8/17/2010	32	Yes	Y				0.56		mg/kg
KCP4-BK174-100816	1008-103-06	Chromium	8/17/2010	36	Yes	Y				0.53		mg/kg
KCP4-BK174-100816	1008-103-06	Arsenic	8/17/2010	28	Yes	Y				11		mg/kg
KCP4-BK174-100816	1008-103-06	Antimony	8/17/2010	6	Yes	Y				5.3		mg/kg
KCP4-BK174-100816	1008-103-06	Copper	8/17/2010	99	Yes	Y				1.1		mg/kg
KCP4-BK174-100816	1008-103-06	Nickel	8/17/2010	50	Yes	Y				2.7		mg/kg
KCP4-BK174-100816	1008-103-06	Lead	8/17/2010	190	Yes	Y				5.3		mg/kg
KCP4-BK174-100816	1008-103-06	Zinc	8/17/2010	290	Yes	Y				2.7		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Antimony	8/17/2010	5.2	Yes	N	U			5.2		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO171-S1-100816	1008-103-07	Copper	8/17/2010	98		Yes	Y				1		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Arsenic	8/17/2010	17		Yes	Y				10		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Nickel	8/17/2010	43		Yes	Y				2.6		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Lead	8/17/2010	15		Yes	Y				5.2		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Chromium	8/17/2010	42		Yes	Y				0.52		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Zinc	8/17/2010	190		Yes	Y				2.6		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Zinc	8/17/2010	160		Yes	Y				2.6		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Lead	8/17/2010	15		Yes	Y				5.2		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Nickel	8/17/2010	53		Yes	Y				2.6		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Copper	8/17/2010	83		Yes	Y				1		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Arsenic	8/17/2010	13		Yes	Y				10		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Antimony	8/17/2010	5.2		Yes	N	U			5.2		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Chromium	8/17/2010	41		Yes	Y				0.52		mg/kg
KCP4-SO175-B-100816	1008-103-09	Copper	8/17/2010	21		Yes	Y				1.1		mg/kg
KCP4-SO175-B-100816	1008-103-09	Nickel	8/17/2010	41		Yes	Y				2.6		mg/kg
KCP4-SO175-B-100816	1008-103-09	Arsenic	8/17/2010	11		Yes	N	U			11		mg/kg
KCP4-SO175-B-100816	1008-103-09	Antimony	8/17/2010	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO175-B-100816	1008-103-09	Zinc	8/17/2010	32		Yes	Y				2.6		mg/kg
KCP4-SO175-B-100816	1008-103-09	Chromium	8/17/2010	24		Yes	Y				0.53		mg/kg
KCP4-SO175-B-100816	1008-103-09	Lead	8/17/2010	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO176-B-100816	1008-103-10	Antimony	8/17/2010	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO176-B-100816	1008-103-10	Lead	8/17/2010	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO176-B-100816	1008-103-10	Nickel	8/17/2010	59		Yes	Y				2.6		mg/kg
KCP4-SO176-B-100816	1008-103-10	Zinc	8/17/2010	26		Yes	Y				2.6		mg/kg
KCP4-SO176-B-100816	1008-103-10	Copper	8/17/2010	16		Yes	Y				1.1		mg/kg

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO176-B-100816	1008-103-10	Chromium	8/17/2010	32	Yes	Y				0.53		mg/kg
KCP4-SO176-B-100816	1008-103-10	Arsenic	8/17/2010	11	Yes	N	U			11		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Zinc	8/17/2010	26	Yes	Y				2.7		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Chromium	8/17/2010	27	Yes	Y				0.53		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Copper	8/17/2010	17	Yes	Y				1.1		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Arsenic	8/17/2010	11	Yes	N	U			11		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Antimony	8/17/2010	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Nickel	8/17/2010	59	Yes	Y				2.7		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Lead	8/17/2010	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Zinc	8/17/2010	610	Yes	Y				2.6		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Nickel	8/17/2010	56	Yes	Y				2.6		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Antimony	8/17/2010	8.6	Yes	Y				5.2		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Arsenic	8/17/2010	49	Yes	Y				10		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Copper	8/17/2010	160	Yes	Y				1		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Lead	8/17/2010	48	Yes	Y				5.2		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Chromium	8/17/2010	51	Yes	Y				0.52		mg/kg
KCP4-SO178-B-100816	1008-103-13	Nickel	8/17/2010	19	Yes	Y				2.6		mg/kg
KCP4-SO178-B-100816	1008-103-13	Antimony	8/17/2010	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO178-B-100816	1008-103-13	Arsenic	8/17/2010	10	Yes	N	U			10		mg/kg
KCP4-SO178-B-100816	1008-103-13	Chromium	8/17/2010	27	Yes	Y				0.52		mg/kg
KCP4-SO178-B-100816	1008-103-13	Copper	8/17/2010	9.3	Yes	Y				1		mg/kg
KCP4-SO178-B-100816	1008-103-13	Zinc	8/17/2010	39	Yes	Y				2.6		mg/kg
KCP4-SO178-B-100816	1008-103-13	Lead	8/17/2010	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Lead	8/17/2010	140	Yes	Y				5.9		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Zinc	8/17/2010	120	Yes	Y				2.9		mg/kg

SDG: 08-103

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO179-S1-100816	1008-103-14	Copper	8/17/2010	75		Yes	Y				1.2		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Chromium	8/17/2010	59		Yes	Y				0.59		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Arsenic	8/17/2010	17		Yes	Y				12		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Antimony	8/17/2010	8.8		Yes	Y				5.9		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Nickel	8/17/2010	36		Yes	Y				2.9		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Nickel	8/17/2010	48		Yes	Y				2.7		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Antimony	8/17/2010	7.9		Yes	Y				5.3		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Copper	8/17/2010	110		Yes	Y				1.1		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Arsenic	8/17/2010	14		Yes	Y				11		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Chromium	8/17/2010	61		Yes	Y				0.53		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Lead	8/17/2010	370		Yes	Y				5.3		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Zinc	8/17/2010	180		Yes	Y				2.7		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
10MB0817S2&MB0817S3	10MB0817S2&MB	Thallium	8/17/2010	2.5		Yes	N	U			2.5		mg/kg
KCP4-BK168-100816	1008-103-01	Thallium	8/17/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-BK169-100816	1008-103-02	Thallium	8/17/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-BK-169B-100816	1008-103-03	Thallium	8/17/2010	2.7		Yes	N	U			2.7		mg/kg
KCP4-BK170-100816	1008-103-04	Thallium	8/17/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-BK173-100816	1008-103-05	Thallium	8/17/2010	2.8		Yes	N	U			2.8		mg/kg
KCP4-BK174-100816	1008-103-06	Thallium	8/17/2010	2.7		Yes	N	U			2.7		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Thallium	8/17/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Thallium	8/17/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-SO175-B-100816	1008-103-09	Thallium	8/17/2010	2.6		Yes	N	U			2.6		mg/kg
KCP4-SO176-B-100816	1008-103-10	Thallium	8/17/2010	2.6		Yes	N	U			2.6		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO176B-B-100816	1008-103-11	Thallium	8/17/2010	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Thallium	8/17/2010	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO178-B-100816	1008-103-13	Thallium	8/17/2010	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Thallium	8/17/2010	2.9	Yes	N	U			2.9		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Thallium	8/17/2010	2.7	Yes	N	U			2.7		mg/kg

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
10MB0817S2&MB0817S3	10MB0817S2&MB	Mercury	8/17/2010	0.25	Yes	N	U			0.25		mg/kg
KCP4-BK168-100816	1008-103-01	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-BK169-100816	1008-103-02	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-BK-169B-100816	1008-103-03	Mercury	8/17/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-BK170-100816	1008-103-04	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-BK173-100816	1008-103-05	Mercury	8/17/2010	0.28	Yes	N	U			0.28		mg/kg
KCP4-BK174-100816	1008-103-06	Mercury	8/17/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO171-S1-100816	1008-103-07	Mercury	8/17/2010	0.26	Yes	Y				0.26		mg/kg
KCP4-SO172-S1-100816	1008-103-08	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO175-B-100816	1008-103-09	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO176-B-100816	1008-103-10	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO176B-B-100816	1008-103-11	Mercury	8/17/2010	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO177-S1-100816	1008-103-12	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO178-B-100816	1008-103-13	Mercury	8/17/2010	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO179-S1-100816	1008-103-14	Mercury	8/17/2010	0.39	Yes	Y				0.29		mg/kg
KCP4-SO180-S1-100816	1008-103-15	Mercury	8/17/2010	0.53	Yes	Y				0.27		mg/kg

Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

September 2, 2011

SUBJECT: Kim Clark, Data Validation

Dear Ms. Peterson,

Enclosed is the final validation report for the fraction listed below. This SDG was received on August 10, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 26026:

SDG #	Fraction
1106-117	Metals

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

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Attachment 1

IV EDD

LDC #26026 (Anchor Environmental-Seattle WA / Kim Clark)

Project #000105-01.09

LDC	SDG#	DATE REC'D	(3) DATE DUE	Metals (SW846)																															
Matrix:	Waste/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	1106-117	08/10/11	08/31/11	0	27																														
Total	A/SC			0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS, MSD, or DUP's.

26026ST.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: June 14, 2011

LDC Report Date: August 22, 2011

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: OnSite Environmental, Inc.

Sample Delivery Group (SDG): 1106-117

Sample Identification

KCP4-SO-380-S-110614
KCP4-SO-381-S-110614
KCP4-SO-382-S-110614
KCP4-SO-383-S-110614
KCP4-SO-384-S-110614
KCP4-SO-385-B-110614
KCP4-SO-386-D-110614
KCP4-SO-387-B-110614
KCP4-SO-388-B-110614
KCP4-SO-389-B-110614
KCP4-SO-390-S-110614
KCP4-SO-391-S-110614
KCP4-SO-392-S-110614
KCP4-SO-393-D-110614
KCP4-SO-394-B-110614
KCP4-SO-395-S-110614
KCP4-SO-396-S-110614
KCP4-SO-397-S-110614
KCP4-SO-398-B-110614
KCP4-SO-399-S-110614
KCP4-SO-400-S-110614
KCP4-SO-401-B-110614
KCP4-SO-402-D-110614
KCP4-SO-403-S-110614
KCP4-SO-404-B-110614
KCP4-SO-405-SP-110614
KCP4-SO-406-SP-110614
KCP4-SO-391-S-110614MS
KCP4-SO-391-S-110614MSD
KCP4-SO-391-S-110614DUP
KCP4-SO-404-B-110614MS
KCP4-SO-404-B-110614MSD
KCP4-SO-404-B-110614DUP

Introduction

This data review covers 33 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7471A for Metals. The metals analyzed were Antimony, Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Thallium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
KCP4-SO-391-S-110614MS/MSD (KCP4-SO-380-S-110614 KCP4-SO-381-S-110614 KCP4-SO-382-S-110614 KCP4-SO-383-S-110614 KCP4-SO-384-S-110614 KCP4-SO-385-B-110614 KCP4-SO-386-D-110614 KCP4-SO-387-B-110614 KCP4-SO-388-B-110614 KCP4-SO-389-B-110614 KCP4-SO-390-S-110614 KCP4-SO-391-S-110614 KCP4-SO-392-S-110614 KCP4-SO-393-D-110614)	Chromium	-	145 (75-125)	31 (≤20)	J (all detects) UJ (all non-detects)	A
	Zinc	-	-	26 (≤20)	J (all detects) UJ (all non-detects)	

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
KCP4-SO-391-S-110614DUP (KCP4-SO-380-S-110614 KCP4-SO-381-S-110614 KCP4-SO-382-S-110614 KCP4-SO-383-S-110614 KCP4-SO-384-S-110614 KCP4-SO-385-B-110614 KCP4-SO-386-D-110614 KCP4-SO-387-B-110614 KCP4-SO-388-B-110614 KCP4-SO-389-B-110614 KCP4-SO-390-S-110614 KCP4-SO-391-S-110614 KCP4-SO-392-S-110614 KCP4-SO-393-D-110614)	Zinc	47 (≤20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and RPD and Duplicate RPD problems, data were qualified as estimated in 14 samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level VI data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples KCP4-SO-385-B-110614 and KCP4-SO-386-D-110614, samples KCP4-SO-392-S-110614 and KCP4-SO-393-D-110614, and samples KCP4-SO-401-B-110614 and KCP4-SO-402-D-110614 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO-385-B-110614	KCP4-SO-386-D-110614	
Chromium	76	19	120 (≤50)
Copper	25	22	13 (≤50)
Nickel	37	37	0 (≤50)
Zinc	32	27	17 (≤50)

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO-392-S-110614	KCP4-SO-393-D-110614	
Chromium	33	37	11 (≤50)

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO-392-S-110614	KCP4-SO-393-D-110614	
Copper	84	88	5 (≤50)
Lead	10	9.1	9 (≤50)
Nickel	46	43	7 (≤50)
Zinc	160	140	13 (≤50)

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO-401-B-110614	KCP4-SO-402-D-110614	
Chromium	27	24	12 (≤50)
Copper	52	42	21 (≤50)
Lead	14	14	0 (≤50)
Nickel	25	24	4 (≤50)
Zinc	75	57	27 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Metals - Data Qualification Summary - SDG 1106-117

SDG	Sample	Analyte	Flag	A or P	Reason
1106-117	KCP4-SO-380-S-110614 KCP4-SO-381-S-110614 KCP4-SO-382-S-110614 KCP4-SO-383-S-110614 KCP4-SO-384-S-110614 KCP4-SO-385-B-110614 KCP4-SO-386-D-110614 KCP4-SO-387-B-110614 KCP4-SO-388-B-110614 KCP4-SO-389-B-110614 KCP4-SO-390-S-110614 KCP4-SO-391-S-110614 KCP4-SO-392-S-110614 KCP4-SO-393-D-110614	Chromium	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)
1106-117	KCP4-SO-380-S-110614 KCP4-SO-381-S-110614 KCP4-SO-382-S-110614 KCP4-SO-383-S-110614 KCP4-SO-384-S-110614 KCP4-SO-385-B-110614 KCP4-SO-386-D-110614 KCP4-SO-387-B-110614 KCP4-SO-388-B-110614 KCP4-SO-389-B-110614 KCP4-SO-390-S-110614 KCP4-SO-391-S-110614 KCP4-SO-392-S-110614 KCP4-SO-393-D-110614	Zinc	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD)
1106-117	KCP4-SO-380-S-110614 KCP4-SO-381-S-110614 KCP4-SO-382-S-110614 KCP4-SO-383-S-110614 KCP4-SO-384-S-110614 KCP4-SO-385-B-110614 KCP4-SO-386-D-110614 KCP4-SO-387-B-110614 KCP4-SO-388-B-110614 KCP4-SO-389-B-110614 KCP4-SO-390-S-110614 KCP4-SO-391-S-110614 KCP4-SO-392-S-110614 KCP4-SO-393-D-110614	Zinc	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD)

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1106-117

No Sample Data Qualified in this SDG

LDC #: 26026A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 8-18-11

SDG #: 1106-117 Level IV Page: 1 of 1

Laboratory : OnSite Environmental Inc. MG. Reviewer: MG

2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B~~/7000~~)/6020/7471A

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6-14-11
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	SW	MS/MSD
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	not utilized
XI.	ICP Serial Dilution	N	not performed
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	D=6+7, D=13+14, D=22+23
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: all soil

1	KCP4-SO-380-S-110614	11	KCP4-SO-390-S-110614	21	KCP4-SO-400-S-110614	31	KCP4-SO-404-B-110614MS
2	KCP4-SO-381-S-110614	12	KCP4-SO-391-S-110614	22	KCP4-SO-401-B-110614	32	KCP4-SO-404-B-110614MSD
3	KCP4-SO-382-S-110614	13	KCP4-SO-392-S-110614	23	KCP4-SO-402-D-110614	33	KCP4-SO-404-B-110614DUP
4	KCP4-SO-383-S-110614	14	KCP4-SO-393-D-110614	24	KCP4-SO-403-S-110614	34	
5	KCP4-SO-384-S-110614	15	KCP4-SO-394-B-110614	25	KCP4-SO-404-B-110614	35	
6	KCP4-SO-385-B-110614	16	KCP4-SO-395-S-110614	26	KCP4-SO-405-SP-110614	36	
7	KCP4-SO-386-D-110614	17	KCP4-SO-396-S-110614	27	KCP4-SO-406-SP-110614	37	
8	KCP4-SO-387-B-110614	18	KCP4-SO-397-S-110614	28	KCP4-SO-391-S-110614MS	38	
9	KCP4-SO-388-B-110614	19	KCP4-SO-398-B-110614	29	KCP4-SO-391-S-110614MSD	39	PBS1
10	KCP4-SO-389-B-110614	20	KCP4-SO-399-S-110614	30	KCP4-SO-391-S-110614DUP	40	PBS2

Notes:

LDC #: 26026A4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: [illegible]

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.		✓		
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

LDC #: 26026A4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: V

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 26026A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: V

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1 → 27	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
QC 28→33	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
Analysis Method		
ICP	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
ICP-MS	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-

Comments: Mercury by CVAA if performed

ELEMENTS.4

LDC #: 26026A4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: MG
2nd Reviewer: [signature]

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	28/29	soil	Cr		145 (75-125)	31 (≤20)	1→14	J/UJ/A
	↓	↓	Zn			26 (↓)	↓	↓

Comments: _____

LDC #: 26026A4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L. for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
1		30	soil	Zn	47 (≤ 20)		1 → 14	J/UJ/A

Comments:

DUP.4SW

LDC#: 26026A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer: ✓

METHOD: Metals (EPA Method 6010B/7000)

(Y) N NA Were field duplicate pairs identified in this SDG?
(Y) N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	6	7		
Chromium	76	19	120	
Copper	25	22	13	
Nickel	37	37	0	
Zinc	32	27	17	

V:\FIELD DUPLICATES\FD_inorganic\26026A4.WPD

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	13	14		
Chromium	33	37	11	
Copper	84	88	5	
Lead	10	9.1	9	
Nickel	46	43	7	
Zinc	160	140	13	

V:\FIELD DUPLICATES\FD_inorganic\26026A4.WPD

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	22	23		
Chromium	27	24	12	
Copper	52	42	21	
Lead	14	14	0	
Nickel	25	24	4	
Zinc	75	57	27	

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LDC #: 26026A4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
0750 ICV	ICP (Initial calibration)	Cr	976.85	1000	-2.3%D	2.3%D	Y
0958 ICV	ICP/MS (Initial calibration)	Tl	51.864	50.0	3.7%D	-3.8%D	
1206 ICV	CVAA (Initial calibration)	Hg	4.952	5.00	-1.0%D	1.0%D	
1008 CCV2	ICP (Continuing calibration)	Ni	1071.5	1000	7.2%D	-7.0%D	
1034 CCV2	ICP/MS (Continuing calibration)	Tl	40.991	40.0	2.5%D	-2.5%D	
1232 CCV2	CVAA (Continuing calibration)	Hg	5.129	5.00	2.6%D	-2.6%D	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: J6026A4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
0815 ICSAB	ICP interference check	Cu	480.28 (µg/L)	500 (µg/L)	96	not reported	Y
0942 LCS	Laboratory control sample	Sb	89.40 (mg/kg) (wet weight)	100 (mg/kg)	89	89	
0957 28	Matrix spike	As	(SSR-SR) 94.61 (mg/kg)	100 (mg/kg)	95	95	
0946/0950 30	Duplicate	Zn	935.98 (mg/kg)	577.58 (mg/kg)	47	47	
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26026A4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for # 12, As were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(864.09\ \mu g/L)(0.100\ L)}{(2.0\ g)(0.97)} = 44.54\ \mu g/g \text{ or } mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	1	Cr	26	26	Y
		Cu	47	47	
		Ni	34	34	
		Zn	67	68	
2	12	Sb	8.1	8.0	
		As	45	45	
		Cr	76	76	
		Cu	200	200	
		Pb	43	43	
		Ni	73	72	
		Zn	940	940	
3	25	Cr	23	23	
		Cu	27	26	
		Ni	47	47	
		Zn	60	59	

Note:

Kim Clark - LDC 26026

SDG: 06-117

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-380-S-110614	1106-117-01	Chromium	6/15/2011	26	Yes	Y		J	8,9	0.52		mg/kg
KCP4-SO-380-S-110614	1106-117-01	Lead	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-380-S-110614	1106-117-01	Nickel	6/15/2011	34	Yes	Y				2.6		mg/kg
KCP4-SO-380-S-110614	1106-117-01	Arsenic	6/15/2011	10	Yes	N	U			10		mg/kg
KCP4-SO-380-S-110614	1106-117-01	Copper	6/15/2011	47	Yes	Y				1		mg/kg
KCP4-SO-380-S-110614	1106-117-01	Zinc	6/15/2011	67	Yes	Y		J	9	2.6		mg/kg
KCP4-SO-380-S-110614	1106-117-01	Antimony	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Chromium	6/15/2011	33	Yes	Y		J	8,9	0.53		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Arsenic	6/15/2011	14	Yes	Y				11		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Antimony	6/15/2011	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Nickel	6/15/2011	46	Yes	Y				2.7		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Lead	6/15/2011	12	Yes	Y				5.3		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Zinc	6/15/2011	160	Yes	Y		J	9	2.7		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Copper	6/15/2011	72	Yes	Y				1.1		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Lead	6/15/2011	47	Yes	Y				5.2		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Nickel	6/15/2011	49	Yes	Y				2.6		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Chromium	6/15/2011	42	Yes	Y		J	8,9	0.52		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Arsenic	6/15/2011	65	Yes	Y				10		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Antimony	6/15/2011	11	Yes	Y				5.2		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Copper	6/15/2011	200	Yes	Y				1		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Zinc	6/15/2011	580	Yes	Y		J	9	2.6		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Antimony	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Arsenic	6/15/2011	23	Yes	Y				10		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Chromium	6/15/2011	33	Yes	Y		J	8,9	0.52		mg/kg

SDG: 06-117

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-383-S-110614	1106-117-04	Nickel	6/15/2011	51	Yes	Y				2.6		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Lead	6/15/2011	20	Yes	Y				5.2		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Copper	6/15/2011	100	Yes	Y				1		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Zinc	6/15/2011	280	Yes	Y		J	9	2.6		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Arsenic	6/15/2011	13	Yes	Y				10		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Antimony	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Lead	6/15/2011	8.8	Yes	Y				5.2		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Chromium	6/15/2011	41	Yes	Y		J	8,9	0.52		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Copper	6/15/2011	190	Yes	Y				1		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Zinc	6/15/2011	160	Yes	Y		J	9	2.6		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Nickel	6/15/2011	41	Yes	Y				2.6		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Nickel	6/15/2011	37	Yes	Y				2.7		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Lead	6/15/2011	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Antimony	6/15/2011	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Arsenic	6/15/2011	11	Yes	N	U			11		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Chromium	6/15/2011	76	Yes	Y		J	8,9	0.53		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Zinc	6/15/2011	32	Yes	Y		J	9	2.7		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Copper	6/15/2011	25	Yes	Y				1.1		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Lead	6/15/2011	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Arsenic	6/15/2011	11	Yes	N	U			11		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Antimony	6/15/2011	5.3	Yes	N	U			5.3		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Zinc	6/15/2011	27	Yes	Y		J	9	2.6		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Copper	6/15/2011	22	Yes	Y				1.1		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Nickel	6/15/2011	37	Yes	Y				2.6		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Chromium	6/15/2011	19	Yes	Y		J	8,9	0.53		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-387-B-110614	1106-117-08	Nickel	6/15/2011	41		Yes	Y				2.6		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Chromium	6/15/2011	18		Yes	Y		J	8,9	0.53		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Copper	6/15/2011	20		Yes	Y				1.1		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Zinc	6/15/2011	29		Yes	Y		J	9	2.6		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Lead	6/15/2011	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Antimony	6/15/2011	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Arsenic	6/15/2011	11		Yes	N	U			11		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Antimony	6/15/2011	5.4		Yes	N	U			5.4		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Copper	6/15/2011	22		Yes	Y				1.1		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Zinc	6/15/2011	31		Yes	Y		J	9	2.7		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Chromium	6/15/2011	16		Yes	Y		J	8,9	0.54		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Arsenic	6/15/2011	11		Yes	N	U			11		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Lead	6/15/2011	5.4		Yes	N	U			5.4		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Nickel	6/15/2011	38		Yes	Y				2.7		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Copper	6/15/2011	22		Yes	Y				1.1		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Zinc	6/15/2011	27		Yes	Y		J	9	2.7		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Nickel	6/15/2011	38		Yes	Y				2.7		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Chromium	6/15/2011	17		Yes	Y		J	8,9	0.53		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Lead	6/15/2011	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Antimony	6/15/2011	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Arsenic	6/15/2011	11		Yes	N	U			11		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Antimony	6/15/2011	5.1		Yes	N	U			5.1		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Lead	6/15/2011	12		Yes	Y				5.1		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Nickel	6/15/2011	45		Yes	Y				2.6		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Arsenic	6/15/2011	12		Yes	Y				10		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-390-S-110614	1106-117-11	Zinc	6/15/2011	470		Yes	Y		J	9	2.6		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Chromium	6/15/2011	35		Yes	Y		J	8,9	0.51		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Copper	6/15/2011	89		Yes	Y				1		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Nickel	6/15/2011	73		Yes	Y				2.6		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Antimony	6/15/2011	8.1		Yes	Y				5.2		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Arsenic	6/15/2011	45		Yes	Y				10		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Chromium	6/15/2011	76		Yes	Y		J	8,9	0.52		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Copper	6/15/2011	200		Yes	Y				1		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Zinc	6/15/2011	940		Yes	Y		J	9	2.6		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Lead	6/15/2011	43		Yes	Y				5.2		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Antimony	6/15/2011	6.94		Yes	Y				5		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Zinc	6/15/2011	560		Yes	Y	K			2.5		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Nickel	6/15/2011	72.3		Yes	Y				2.5		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Arsenic	6/15/2011	38.3		Yes	Y				10		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Chromium	6/15/2011	71.6		Yes	Y				0.5		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Copper	6/15/2011	160		Yes	Y				1		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Lead	6/15/2011	37.8		Yes	Y				5		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Zinc	6/15/2011	160		Yes	Y		J	9	2.6		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Copper	6/15/2011	84		Yes	Y				1.1		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Chromium	6/15/2011	33		Yes	Y		J	8,9	0.53		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Arsenic	6/15/2011	11		Yes	N	U			11		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Antimony	6/15/2011	5.3		Yes	N	U			5.3		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Lead	6/15/2011	10		Yes	Y				5.3		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Nickel	6/15/2011	46		Yes	Y				2.6		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Chromium	6/15/2011	37		Yes	Y		J	8,9	0.52		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-393-D-110614	1106-117-14	Nickel	6/15/2011	43	Yes	Y				2.6		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Antimony	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Lead	6/15/2011	9.1	Yes	Y				5.2		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Arsenic	6/15/2011	10	Yes	N	U			10		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Copper	6/15/2011	88	Yes	Y				1		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Zinc	6/15/2011	140	Yes	Y		J	9	2.6		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Antimony	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Arsenic	6/15/2011	12	Yes	Y				10		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Chromium	6/15/2011	34	Yes	Y				0.52		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Lead	6/15/2011	14	Yes	Y				5.2		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Copper	6/15/2011	72	Yes	Y				1		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Zinc	6/15/2011	160	Yes	Y				2.6		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Nickel	6/15/2011	50	Yes	Y				2.6		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Arsenic	6/15/2011	150	Yes	Y				10		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Zinc	6/15/2011	1400	Yes	Y				26		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Copper	6/15/2011	400	Yes	Y				1		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Antimony	6/15/2011	24	Yes	Y				5.2		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Nickel	6/15/2011	57	Yes	Y				2.6		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Lead	6/15/2011	100	Yes	Y				5.2		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Chromium	6/15/2011	41	Yes	Y				0.52		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Antimony	6/15/2011	9.7	Yes	Y				5.1		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Lead	6/15/2011	33	Yes	Y				5.1		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Nickel	6/15/2011	81	Yes	Y				2.6		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Zinc	6/15/2011	590	Yes	Y				2.6		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Copper	6/15/2011	140	Yes	Y				1		mg/kg

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-396-S-110614	1106-117-17	Chromium	6/15/2011	87	Yes	Y				0.51		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Arsenic	6/15/2011	44	Yes	Y				10		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Chromium	6/15/2011	54	Yes	Y				0.51		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Lead	6/15/2011	29	Yes	Y				5.1		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Nickel	6/15/2011	63	Yes	Y				2.6		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Arsenic	6/15/2011	34	Yes	Y				10		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Copper	6/15/2011	130	Yes	Y				1		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Zinc	6/15/2011	450	Yes	Y				2.6		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Antimony	6/15/2011	5.4	Yes	Y				5.1		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Antimony	6/15/2011	7.8	Yes	Y				5.4		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Arsenic	6/15/2011	24	Yes	Y				11		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Chromium	6/15/2011	75	Yes	Y				0.54		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Copper	6/15/2011	98	Yes	Y				1.1		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Nickel	6/15/2011	58	Yes	Y				2.7		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Lead	6/15/2011	140	Yes	Y				5.4		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Zinc	6/15/2011	380	Yes	Y				2.7		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Lead	6/15/2011	13	Yes	Y				5.1		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Zinc	6/15/2011	150	Yes	Y				2.6		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Copper	6/15/2011	84	Yes	Y				1		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Chromium	6/15/2011	40	Yes	Y				0.51		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Arsenic	6/15/2011	10	Yes	N	U			10		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Nickel	6/15/2011	44	Yes	Y				2.6		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Antimony	6/15/2011	5.1	Yes	N	U			5.1		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Antimony	6/15/2011	5.1	Yes	N	U			5.1		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Arsenic	6/15/2011	10	Yes	N	U			10		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-400-S-110614	1106-117-21	Chromium	6/15/2011	34		Yes	Y				0.51		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Zinc	6/15/2011	140		Yes	Y				2.6		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Lead	6/15/2011	11		Yes	Y				5.1		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Copper	6/15/2011	86		Yes	Y				1		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Nickel	6/15/2011	40		Yes	Y				2.6		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Arsenic	6/15/2011	10		Yes	N	U			10		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Zinc	6/15/2011	75		Yes	Y				2.6		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Chromium	6/15/2011	27		Yes	Y				0.52		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Antimony	6/15/2011	5.2		Yes	N	U			5.2		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Nickel	6/15/2011	25		Yes	Y				2.6		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Lead	6/15/2011	14		Yes	Y				5.2		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Copper	6/15/2011	52		Yes	Y				1		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Lead	6/15/2011	14		Yes	Y				5.2		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Nickel	6/15/2011	24		Yes	Y				2.6		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Antimony	6/15/2011	5.2		Yes	N	U			5.2		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Arsenic	6/15/2011	10		Yes	N	U			10		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Chromium	6/15/2011	24		Yes	Y				0.52		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Copper	6/15/2011	42		Yes	Y				1		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Zinc	6/15/2011	57		Yes	Y				2.6		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Arsenic	6/15/2011	10		Yes	N	U			10		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Copper	6/15/2011	100		Yes	Y				1		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Nickel	6/15/2011	82		Yes	Y				2.5		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Chromium	6/15/2011	66		Yes	Y				0.51		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Antimony	6/15/2011	5.1		Yes	N	U			5.1		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Zinc	6/15/2011	310		Yes	Y				2.5		mg/kg

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Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-403-S-110614	1106-117-24	Lead	6/15/2011	19	Yes	Y				5.1		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Zinc	6/15/2011	60	Yes	Y				2.6		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Lead	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Nickel	6/15/2011	47	Yes	Y				2.6		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Copper	6/15/2011	27	Yes	Y				1		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Antimony	6/15/2011	5.2	Yes	N	U			5.2		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Arsenic	6/15/2011	10	Yes	N	U			10		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Chromium	6/15/2011	23	Yes	Y				0.52		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Chromium	6/15/2011	26.5	Yes	Y				0.5		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Copper	6/15/2011	24.9	Yes	Y				1		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Arsenic	6/15/2011	10	Yes	N	U			10		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Antimony	6/15/2011	5	Yes	N	U			5		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Nickel	6/15/2011	49.7	Yes	Y				2.5		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Lead	6/15/2011	5	Yes	N	U			5		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Zinc	6/15/2011	46.5	Yes	Y				2.5		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Chromium	6/15/2011	85	Yes	Y				0.53		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Zinc	6/15/2011	270	Yes	Y				2.6		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Copper	6/15/2011	110	Yes	Y				1.1		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Arsenic	6/15/2011	32	Yes	Y				11		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Antimony	6/15/2011	21	Yes	Y				5.3		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Nickel	6/15/2011	52	Yes	Y				2.6		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Lead	6/15/2011	250	Yes	Y				5.3		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Lead	6/15/2011	440	Yes	Y				5.2		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Zinc	6/15/2011	420	Yes	Y				2.6		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Copper	6/15/2011	150	Yes	Y				1		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-406-SP-110614	1106-117-27	Chromium	6/15/2011	150	Yes	Y				0.52		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Arsenic	6/15/2011	40	Yes	Y				10		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Nickel	6/15/2011	80	Yes	Y				2.6		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Antimony	6/15/2011	22	Yes	Y				5.2		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-380-S-110614	1106-117-01	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Thallium	6/15/2011	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Thallium	6/15/2011	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Thallium	6/15/2011	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Thallium	6/15/2011	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Thallium	6/15/2011	25	Yes	N	U			25		mg/kg
KCP4-SO-392-S-110614	1106-117-13	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-398-B-110614	1106-117-19	Thallium	6/15/2011	2.7	Yes	N	U			2.7		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Thallium	6/15/2011	2.5	Yes	N	U			2.5		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Thallium	6/15/2011	25	Yes	N	U			25		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Thallium	6/15/2011	2.6	Yes	N	U			2.6		mg/kg

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-380-S-110614	1106-117-01	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-381-S-110614	1106-117-02	Mercury	6/15/2011	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO-382-S-110614	1106-117-03	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-383-S-110614	1106-117-04	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-384-S-110614	1106-117-05	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-385-B-110614	1106-117-06	Mercury	6/15/2011	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO-386-D-110614	1106-117-07	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-387-B-110614	1106-117-08	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-388-B-110614	1106-117-09	Mercury	6/15/2011	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO-389-B-110614	1106-117-10	Mercury	6/15/2011	0.27	Yes	N	U			0.27		mg/kg
KCP4-SO-390-S-110614	1106-117-11	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-391-S-110614	1106-117-12	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-391-S-110614L	1106-117-12DUP	Mercury	6/15/2011	0.25	Yes	N	U			0.25		mg/kg

SDG: 06-117

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO-392-S-110614	1106-117-13	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-393-D-110614	1106-117-14	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-394-B-110614	1106-117-15	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-395-S-110614	1106-117-16	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-396-S-110614	1106-117-17	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-397-S-110614	1106-117-18	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-398-B-110614	1106-117-19	Mercury	6/15/2011	0.47	Yes	Y				0.27		mg/kg
KCP4-SO-399-S-110614	1106-117-20	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-400-S-110614	1106-117-21	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-401-B-110614	1106-117-22	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-402-D-110614	1106-117-23	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-403-S-110614	1106-117-24	Mercury	6/15/2011	0.25	Yes	N	U			0.25		mg/kg
KCP4-SO-404-B-110614	1106-117-25	Mercury	6/15/2011	0.26	Yes	N	U			0.26		mg/kg
KCP4-SO-404-B-110614L	1106-117-25DUP	Mercury	6/15/2011	0.25	Yes	N	U			0.25		mg/kg
KCP4-SO-405-SP-110614	1106-117-26	Mercury	6/15/2011	0.68	Yes	Y				0.26		mg/kg
KCP4-SO-406-SP-110614	1106-117-27	Mercury	6/15/2011	0.71	Yes	Y				0.26		mg/kg

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark
Project Number:	000105-01.09
Date:	July 22, 2011

This report summarizes the review of analytical results for sixteen soil samples and one field duplicate collected on February 11, 2011. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. The samples were analyzed for the following:

- Total and Toxicity Characteristic Leaching Procedure (TCLP) metals by United States Environmental Protection Agency (USEPA) methods 1311, 6010B, 6020, and 7471A
- Hydrocarbon Identification (HCID) by NWTPH-HCID

OnSite sample data group (SDG) numbers 1102-096 were reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO225-B-110211	1102-096-01	Soil	Metals
KCP4-SO226-S-110211	1102-096-02	Soil	Metals
KCP4-SO227-B-110211	1102-096-03	Soil	Metals
KCP4-SO228-B-110211	1102-096-04	Soil	Metals
KCP4-SO229-S-110211	1102-096-05	Soil	Metals
KCP4-SO230-S-110211	1102-096-06	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO231-S-110211	1102-096-07	Soil	Metals
KCP4-SO232-B-110211	1102-096-08	Soil	HCID, Metals
KCP4-SO233-S-110211	1102-096-09	Soil	Metals
KCP4-SO234-S-110211	1102-096-10	Soil	Metals
KCP4-SO236-S-110211	1102-096-11	Soil	Metals
KCP4-SO237-S-110211	1102-096-12	Soil	Metals
KCP4-SO238-S-110211	1102-096-13	Soil	HCID, Metals
KCP4-SO239-B-110211	1102-096-14	Soil	HCID, Metals
KCP4-SO240-BK-110211	1102-096-15	Soil	TCLP Metals
KCP4-SO241-D-110211	1102-096-16	Soil	TCLP Metals
KCP4-SO242-B-110211	1102-096-17	Soil	Metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following as guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review* (USEPA 2004)
- *USEPA National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

And by applying laboratory and method QC criteria as stated in SW 846, Third Edition, *Test Methods for Evaluating Solid Waste*, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Field Duplicates

One field duplicate was collected in association with this sample set, for TCLP metals. Detected results are summarized in Table 2.

Table 2
Field Duplicate Summary

Analyte	KCP4-SO240-BK-110211	KCP4-SO241-D-110211	RPD
Lead	7.8 mg/L	9.2 mg/L	16%

No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Laboratory Control Sample

Laboratory control samples (LCSs) were analyzed at the required frequencies and resulted in recoveries within project-required control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and MS duplicate (MSD) samples were analyzed at the required frequencies. All MS/MSD recoveries and relative percent difference (RPD) values were within control limits with the exception of mercury in the MS/MSD performed on sample KCP4-SO227-B-110211, which recovered below control limits. Associated sample results have been qualified with a "J" to indicate they are estimated. See Table 3 for qualified data.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. All duplicate results met project-required control limits.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS, and MS/MSD %R values with the exceptions noted above. Precision was also acceptable as demonstrated by the laboratory duplicates and MS/MSD RPD values. Most data were considered acceptable as reported; all other data are acceptable as qualified. Table 3 summarizes the qualifiers applied to sample results reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated

Table 3
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO225-B-110211	Metals	Mercury	5 mg/kg	5J mg/kg	Low MS/MSD recovery
KCP4-SO226-S-110211	Metals	Mercury	0.28U mg/kg	0.28UJ mg/kg	Low MS/MSD recovery
KCP4-SO227-B-110211	Metals	Mercury	0.5 mg/kg	0.5J mg/kg	Low MS/MSD recovery
KCP4-SO228-B-110211	Metals	Mercury	1.5 mg/kg	1.5J mg/kg	Low MS/MSD recovery
KCP4-SO229-S-110211	Metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD recovery
KCP4-SO230-S-110211	Metals	Mercury	0.28U mg/kg	0.28UJ mg/kg	Low MS/MSD recovery
KCP4-SO231-S-110211	Metals	Mercury	2.9 mg/kg	2.9J mg/kg	Low MS/MSD recovery
KCP4-SO232-B-110211	Metals	Mercury	0.78U mg/kg	0.78UJ mg/kg	Low MS/MSD recovery
KCP4-SO233-S-110211	Metals	Mercury	0.28U mg/kg	0.28UJ mg/kg	Low MS/MSD recovery
KCP4-SO234-S-110211	Metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD recovery
KCP4-SO236-S-110211	Metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD recovery
KCP4-SO237-S-110211	Metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD recovery

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO238-S-110211	Metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD recovery
KCP4-SO239-B-110211	Metals	Mercury	0.53 mg/kg	0.53J mg/kg	Low MS/MSD recovery
KCP4-SO242-B-110211	Metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD recovery

REFERENCES

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark CM Phase 4
Project Number:	000105-01.09
Date:	July 20, 2011

This report summarizes the review of analytical results for two soil samples and one field duplicate collected on March 7, 2011. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. The samples were analyzed for the following:

- Total metals by United States Environmental Protection Agency (USEPA) methods 6010B, 6020, and 7471A
- Diesel Range Organics (DRO) and Residual Range Organics (RRO) by NWTPHDX
- Hydrocarbon Identification (HCID) by NWTPH-HCID

OnSite sample data group (SDG) numbers 1103-054 and 1103-054B were reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO243-B-070311	1103-054-01	Soil	Metals, DRO, RRO, HCID
KCP4-SO243-D-070311	1103-054-02	Soil	Metals, DRO, RRO, HCID
KCP4-SO244-B-070311	1103-054-03	Soil	Metals, DRO, RRO, HCID

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following as guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review* (USEPA 2004)

- *USEPA National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

And by applying laboratory and method QC criteria as stated in SW 846, Third Edition, *Test Methods for Evaluating Solid Waste*, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Field Duplicates

One field duplicate was collected in association with this sample set. Detected results are summarized in Table 2.

Table 2
Field Duplicate Summary

Analyte	KCP4-SO243-B-070311	KCP4-SO243-D-070311	RPD
Antimony	16 mg/kg	12 mg/kg	29%
Chromium	26 mg/kg	27 mg/kg	4%
Copper	120 mg/kg	120 mg/kg	0%
Lead	640 mg/kg	440 mg/kg	37%
Mercury	0.82 mg/kg	0.78 mg/kg	5%
Nickel	33 mg/kg	35 mg/kg	6%

Analyte	KCP4-SO243-B-070311	KCP4-SO243-D-070311	RPD
Residual Range Hydrocarbons	1500 mg/kg	1400 mg/kg	7%
Zinc	150 mg/kg	220 mg/kg	38%

Concentrations at or near the reporting limit (RL) may have exaggerated relative percent difference (RPD) values. No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Laboratory Control Sample and LCS Duplicate

Laboratory control samples (LCSs) and LCS duplicates (LCSDs) were analyzed at the required frequencies and resulted in recoveries within project-required control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and MS duplicate (MSD) samples were analyzed at the required frequencies. All MS/MSD recoveries and RPD values were within control limits with the exceptions of copper, lead, and zinc in the MSD performed on sample KCP4-SO243-B-070311. These analytes recovered above control limits. However, since the MS recoveries and the MS/MSD RPD values were within control limits, no data were qualified.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. RPD control limits do not apply if the sample and/or duplicate result are less than 5x the MRL. For results <5x the MRL, the difference between the sample and duplicate result must be <2x the MRL for solid matrices and <MRL for water matrices. All duplicate results met project-required control limits with the exception of the duplicate analysis of sample KCP4-SO243-B-070311. The lead RPD values were above control limits. Associated sample results have been qualified "J" or "UJ" to indicate they are estimated. See Table 3 for qualified data.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

A few metals reporting limits for sample KCP4-SO244-B-070311 were above those listed in the QAPP for analytes that were below detection. Data are not expected to be affected by this discrepancy, however, because all screening levels were met.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was also acceptable as demonstrated by the laboratory duplicates, MS/MSD, and LCS/LCSD RPD values, with the exceptions noted above. Most data were considered acceptable as reported; all other data are acceptable as qualified. Table 3 summarizes the qualifiers applied to sample results reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated

Table 3
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO243-B-070311	Metals	Lead	640 mg/kg	640J mg/kg	High duplicate RPD

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO243-D-070311	Metals	Lead	440 mg/kg	440J mg/kg	High duplicate RPD
KCP4-SO244-B-070311	Metals	Lead	180U mg/kg	180UJ mg/kg	High duplicate RPD

REFERENCES

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark
Project Number:	000105-01.09
Date:	July 21, 2011

This report summarizes the review of analytical results for five soil samples collected on March 24, April 15, and April 29, 2011. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. Samples were analyzed for the following:

- Total and Toxicity Characteristic Leaching Procedure (TCLP) metals by United States Environmental Protection Agency (USEPA) methods 1311, 6010B, 6020, and 7471A
- Diesel Range Organics (DRO) and Residual Range Organics (RRO) by NWTPHDX
- Hydrocarbon Identification (HCID) by NWTPH-HCID

OnSite sample data group (SDG) numbers 03-222, 04-106, and 04-213 were reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO247-B-240311	1103-222-01	Soil	Metals, HCID
KCP4-SO252-BK-110415	1104-106-01	Soil	TCLP Metals
KCP4-SO253-BK-110415	1104-106-02	Soil	TCLP Metals
KCP4-SO-254-B-110429	1104-213-01	Soil	Metals, DRO, RRO
KCP4-SO-255-S-110429	1104-213-02	Soil	Metals, DRO, RRO

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following as guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review* (USEPA 2004)
- *USEPA National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

And by applying laboratory and method QC criteria as stated in SW 846, Third Edition, *Test Methods for Evaluating Solid Waste*, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition, with the exception of the samples received in association with SDG 04-106. The samples were slightly above the recommended 4°C±2°C at the time of receipt; however, they were received within 24 hours of collection so data quality is not expected to be affected.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Field Duplicates

No field duplicates were collected in association with these sample sets.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Laboratory Control Sample and LCS Duplicate

Laboratory control samples (LCSs) and LCS duplicates (LCSDs) were analyzed at the required frequencies and resulted in recoveries within project-required control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and MS duplicate (MSD) samples were analyzed at the required frequencies. All MS/MSD recoveries and relative percent difference (RPD) values were within control limits.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. All duplicate results met project-required control limits with the exception of the duplicate analysis of sample KCP4-SO-255-S-110429. The RRO RPD value was above the control limit specified in the QAPP. The associated sample result has been qualified "J" to indicate it is estimated.
See Table 3 for qualified data.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

The DRO reporting limit for sample KCP4-SO-255-S-110429 was above the limit listed in the QAPP due to interferences present in the sample. Data are not expected to be affected by this discrepancy, however, because all screening levels were met.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was also acceptable as demonstrated by the laboratory duplicates, MS/MSD, and LCS/LCSD RPD values, with the exception noted above. Most data were considered acceptable as reported; one result is acceptable as qualified. Table 3 summarizes the qualifiers applied to samples reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated

Table 3
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO-255-S-110429	NWTPHDx	RRO	560 mg/kg	560J mg/kg	High duplicate RPD

REFERENCES

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark
Project Number:	000105-01.09
Date:	August 3, 2011

This report summarizes the review of analytical results for thirty-two soil samples collected on May 6, 2011. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. Samples were analyzed for the following:

- Total and Toxicity Characteristic Leaching Procedure (TCLP) metals by United States Environmental Protection Agency (USEPA) methods 1311, 6010B, 6020, and 7471A
- Diesel Range Organics (DRO) and Residual Range Organics (RRO) by NWTPHDX
- Polycyclic Aromatic Hydrocarbons (PAHs) by United States Environmental Protection Agency (USEPA) method 8270C-SIM
- Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/Fs) by USEPA method 1613B

OnSite sample data group (SDG) number 1105-065 was reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-256-B-110506	1105-065-01	Soil	PAH
KCP4-SO-257-S-110506	1105-065-02	Soil	PAH
KCP4-SO-258-S-110506	1105-065-03	Soil	PAH
KCP4-SO-259-S-110506	1105-065-04	Soil	PAH
KCP4-SO-260-S-110506	1105-065-05	Soil	PAH
KCP4-SO-261-B-110506	1105-065-06	Soil	PAH
KCP4-SO-262-S-110506	1105-065-07	Soil	PAH
KCP4-SO-263-S-110506	1105-065-08	Soil	PAH
KCP4-SO-264-S-110506	1105-065-09	Soil	PAH
KCP4-SO-265-S-110506	1105-065-10	Soil	PAH

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-266-S-110506	1105-065-11	Soil	PAH
KCP4-SO-267-S-110506	1105-065-12	Soil	DRO, TCLP lead, total metals
KCP4-SO-268-S-110506	1105-065-13	Soil	DRO, total metals
KCP4-SO-269-S-110506	1105-065-14	Soil	DRO, total metals
KCP4-SO-270-B-110506	1105-065-15	Soil	DRO, total metals
KCP4-SO-271-B-110506	1105-065-16	Soil	DRO, total metals
KCP4-SO-272-B-110506	1105-065-17	Soil	DRO, total metals
KCP4-SO-273-B-110506	1105-065-18	Soil	DRO, total metals
KCP4-SO-274-B-110506	1105-065-19	Soil	PCDD/F, DRO, total metals
KCP4-SO-275-B-110506	1105-065-20	Soil	DRO, total metals
KCP4-SO-276-B-110506	1105-065-21	Soil	DRO, total metals
KCP4-SO-277-S-110506	1105-065-22	Soil	DRO, total metals
KCP4-SO-278-S-110506	1105-065-23	Soil	DRO, total metals
KCP4-SO-279-S-110506	1105-065-24	Soil	DRO, total metals
KCP4-SO-280-S-110506	1105-065-25	Soil	DRO, total metals
KCP4-SO-281-B-110506	1105-065-26	Soil	DRO, total metals
KCP4-SO-282-B-110506	1105-065-27	Soil	DRO, total metals
KCP4-SO-283-B-110506	1105-065-28	Soil	DRO, total metals
KCP4-SO-284-S-110506	1105-065-29	Soil	DRO, total metals
KCP4-SO-285-S-110506	1105-065-30	Soil	DRO, total metals
KCP4-SO-286-S-110506	1105-065-31	Soil	DRO, total metals
KCP4-SO-287-S-110506	1105-065-32	Soil	DRO, total metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following as guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review* (USEPA 2004)
- *USEPA National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)
- *USEPA Contract Laboratory National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review* (*USEPA, 1999*)

And by applying laboratory and method QC criteria as stated in SW 846, Third Edition, *Test Methods for Evaluating Solid Waste*, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes with the exception of six PCDD/F analytes which were detected in the method blank. All but two sample results were greater than 5 times the levels detected in the blank and were not qualified. 1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF) and 2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF) results were less than 5 times the level detected in the blank and have been qualified as non-detects. See Table 3 for qualified data.

Field Quality Control

Field Duplicates

No field duplicates were collected in association with these sample sets.

Surrogate and Labeled Compound Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates. Labeled compound recoveries were within laboratory control limits.

Laboratory Control Sample

Laboratory control samples (LCSs) were analyzed at the required frequencies and resulted in recoveries within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and MS duplicate (MSD) samples were analyzed at the required frequencies. In the PCDD/F analyses, the background-subtracted OCDD matrix spike recovery was was above the 70-130% target range; this may indicate a high bias for this congener in these determinations. The associated sample result has been qualified "J" to indicate a potentially high bias. See Table 3 for qualified data.

All other MS/MSD recoveries and relative percent difference (RPD) values were within control limits.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. All duplicate results met project-required control limits with the exception of lead in the duplicate analysis of sample KCP4-SO-287-S-110506. The lead RPD value was above the control limit specified in the QAPP, however the concentrations of the primary and duplicate samples were less than 5 times the method reporting limit (MRL), and the difference between the primary and duplicate samples was less than 2 times the MRL, so no data were qualified.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor. Samples KCP4-SO-267-S-110506 and KCP4-SO-268-S-110506 have elevated reporting limits for DRO due to matrix interferences present in the sample. Data are not expected to be affected because all screening levels were met.

Sample Analyses

Three PCDD/F compounds from sample KCP4-SO-274-B-110506 are estimated because of matrix interference. Data were reported as Estimated Maximum Possible Concentration (EMPC) values. The associated sample results have been qualified "J" to indicate they are estimated. See Table 3 for qualified data.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS, and MS/MSD %R values, with the exception noted above. Precision was also acceptable as demonstrated by the laboratory duplicates and MS/MSD values, with the exception noted above. Most data were considered acceptable as reported; all other data are acceptable as qualified. Table 3 summarizes the qualifiers applied to samples reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated

Table 3
Data Qualification Summary

Sample ID: KCP4-SO-274-B-110506
Parameter: PCDD / PCDF Analysis

Analyte	Reported Result	Qualified Result	Reason
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	140 ng/kg	140J ng/kg	High MS recovery
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.37I ng/kg	0.37J ng/kg	Interference Present
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.45I ng/kg	0.45J ng/kg	Interference Present
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.12I ng/kg	0.12J ng/kg	Interference Present, Method blank contamination
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.22BJ ng/kg	0.22J ng/kg	Method blank contamination

REFERENCES

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

USEPA. 2005. USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-05-001. September.

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark
Project Number:	000105-01.09
Date:	August 4, 2011

This report summarizes the review of analytical results for twenty soil samples collected on May 10, 2011. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. Samples were analyzed for the following:

- Total metals by United States Environmental Protection Agency (USEPA) methods 6010B, 6020, and 7471A
- Hydrocarbon Identification (HCID) by NWTPH-HCID

OnSite sample data group (SDG) number 1105-081 was reviewed in this report. Eight samples were placed on hold and not analyzed. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-288-BC1-110510	1105-081-01	Soil	HCID, Metals
KCP4-SO-294-BC2-110510	1105-081-07	Soil	HCID, Metals
KCP4-SO-295-BC2A-110510	1105-081-08	Soil	Metals
KCP4-SO-296-BC2B-110510	1105-081-09	Soil	Metals
KCP4-SO-297-BC2C-110510	1105-081-10	Soil	Metals
KCP4-SO-298-BC2D-110510	1105-081-11	Soil	Metals
KCP4-SO-299-BC2E-110510	1105-081-12	Soil	Metals
KCP4-SO-300-BC3-110510	1105-081-13	Soil	HCID, Metals
KCP4-SO-304-BC4-110510	1105-081-17	Soil	HCID, Metals
KCP4-SO-305-BC4A-110510	1105-081-18	Soil	Metals
KCP4-SO-306-BC4B-110510	1105-081-19	Soil	Metals
KCP4-SO-307-BC4C-110510	1105-081-20	Soil	Metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following as guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review* (USEPA 2004)
- *USEPA National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

And by applying laboratory and method QC criteria as stated in SW 846, Third Edition, *Test Methods for Evaluating Solid Waste*, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Laboratory Control Sample

Laboratory control samples (LCSs) were analyzed at the required frequencies and resulted in recoveries within project-required control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and MS duplicate (MSD) samples were analyzed at the required frequencies. All MS/MSD recoveries and relative percent difference (RPD) values were within control limits.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. All duplicate results met project-required control limits with the following exceptions:

- The duplicate analysis of the laboratory batch duplicate sample 05-065-32 resulted in a RPD value for lead that was above the control limit; however, the results were <5x the method reporting limit (MRL) and within ± MRL of each other and the duplicate analysis was performed on a non-project sample so no data were qualified.

- The duplicate analysis of sample KCP4-SO-295-BC2A-110510 resulted in a RPD value for arsenic that was above the control limit; however, the results were <5x the MRL and within ± MRL of each other so no data were qualified.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

The reporting limit for DRO in sample KCP4-SO-300-BC3-110510 was elevated due to matrix interference. The sample results were below detection at the elevated reporting limit.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS, and MS/MSD %R values. Precision was also acceptable as demonstrated by the laboratory duplicates and MS/MSD RPD values. All data were considered acceptable as reported.

REFERENCES

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

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DATA VALIDATION REVIEW REPORT – USEPA LEVEL 2

Project:	Kimberly Clark
Project Number:	000105-01.09
Date:	August 22, 2011

This report summarizes the review of analytical results 28 soil and 3 concrete samples collected on May 25, 2011. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. Samples were analyzed for the following parameters:

- Total and Toxicity Characteristic Leaching Procedure (TCLP) metals by United States Environmental Protection Agency (USEPA) methods 1311, 6010B, 6020, and 7471A
- Diesel Range Organics (DRO) and Residual Range Organics (RRO) by NWTPHDX
- Polycyclic Aromatic Hydrocarbons (PAHs) by USEPA method 8270C-SIM

OnSite sample data group (SDG) number 1105-217 was reviewed in this report. The samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-308-B-110525	1105-217-01	Soil	DRO, RRO, Metals
KCP4-SO-309-S-110525	1105-217-02	Soil	DRO, RRO, Metals
KCP4-SO-310-S-110525	1105-217-03	Soil	DRO, RRO, Metals
KCP4-SO-311-B-110525	1105-217-04	Soil	PAH
KCP4-SO-312-S-110525	1105-217-05	Soil	PAH
KCP4-SO-313-S-110525	1105-217-06	Soil	PAH
KCP4-SO-314-D-110525	1105-217-07	Soil	PAH
KCP4-SO-315-BK-110525	1105-217-08	Soil	TCLP
KCP4-SO-316-BK-110525	1105-217-09	Soil	TCLP
KCP4-SO-317-BK-110525	1105-217-10	Soil	TCLP
KCP4-SO-318-S-110525	1105-217-11	Soil	Metals
KCP4-SO-319-D-110525	1105-217-12	Soil	Metals
KCP4-SO-320-S-110525	1105-217-13	Soil	Metals
KCP4-SO-321-S-110525	1105-217-14	Soil	Metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-322-S-110525	1105-217-15	Soil	Metals
KCP4-SO-323-S-110525	1105-217-16	Soil	Metals
KCP4-SO-324-S-110525	1105-217-17	Soil	Metals
KCP4-SO-325-S-110525	1105-217-18	Soil	Metals
KCP4-SO-326-S-110525	1105-217-19	Soil	Metals
KCP4-SO-327-S-110525	1105-217-20	Soil	Metals
KCP4-CO-328-110525	1105-217-21	Concrete	Metals
KCP4-CO-329-110525	1105-217-22	Concrete	Metals
KCP4-CO-330-110525	1105-217-23	Concrete	Metals
KCP4-SO-331-B-110525	1105-217-24	Soil	Metals
KCP4-SO-332-D-110525	1105-217-25	Soil	Metals
KCP4-SO-333-B-110525	1105-217-26	Soil	Metals
KCP4-SO-334-B-110525	1105-217-27	Soil	Metals
KCP4-SO-335-B-110525	1105-217-28	Soil	Metals
KCP4-SO-336-B-110525	1105-217-29	Soil	Metals
KCP4-SO-337-B-110525	1105-217-30	Soil	Metals
KCP4-SO-338-B-110525	1105-217-31	Soil	Metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA 2004)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

Laboratory and method QC criteria as stated in USEPA (1986; SW 846, Third Edition), *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, update 1, August, 1993; update II, January, 1995; update IIA, February, 1994; update IIB, August, 1995; update III, June, 1997; update IIIA, May, 1999; update IIIB, June, 2008; update IVA and IVB, January, 2008. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Field Duplicates

Three sets of field duplicates were collected in association with this sample set. Detected results are summarized in Table 2.

Table 2
Field Duplicate Summary

Analyte	KCP4-SO-313-S-110525	KCP4-SO-314-D-110525	RPD
1-Methylnaphthalene	0.0088 mg/kg	0.0069U mg/kg	200%
2-Methylnaphthalene	0.019 mg/kg	0.015 mg/kg	24%
Acenaphthene	0.0071 mg/kg	0.0069U mg/kg	200%
Anthracene	0.0086 mg/kg	0.0087 mg/kg	1%
Benzo(a)anthracene	0.014 mg/kg	0.022 mg/kg	44%
Benzo(a)pyrene	0.014 mg/kg	0.024 mg/kg	53%
Benzo(b)fluoranthene	0.017 mg/kg	0.024 mg/kg	34%
Benzo(g,h,i)perylene	0.022 mg/kg	0.027 mg/kg	20%
Benzo(j,k)fluoranthene	0.013 mg/kg	0.022 mg/kg	51%
Chrysene	0.021 mg/kg	0.028 mg/kg	29%
Fluoranthene	0.038 mg/kg	0.057 mg/kg	40%
Fluorene	0.0076 mg/kg	0.0069U mg/kg	200%
Indeno(1,2,3-c,d)pyrene	0.0091 mg/kg	0.014 mg/kg	42%
Naphthalene	0.014 mg/kg	0.011 mg/kg	24%
Phenanthrene	0.046 mg/kg	0.041 mg/kg	11%

Analyte	KCP4-SO-313-S-110525	KCP4-SO-314-D-110525	RPD
Pyrene	0.033 mg/kg	0.048 mg/kg	37%

Analyte	KCP4-SO-318-S-110525	KCP4-SO-319-D-110525	RPD
Antimony	41 mg/kg	33 mg/kg	22%
Arsenic	190 mg/kg	170 mg/kg	11%
Chromium	74 mg/kg	65 mg/kg	13%
Copper	500 mg/kg	410 mg/kg	20%
Lead	180 mg/kg	110 mg/kg	48%
Nickel	64 mg/kg	46 mg/kg	33%
Zinc	1500 mg/kg	1400 mg/kg	7%

Analyte	KCP4-SO-331-B-110525	KCP4-SO-332-D-110525	RPD
Antimony	5.4U mg/kg	6.2 mg/kg	14%
Arsenic	26 mg/kg	19 mg/kg	31%
Chromium	31 mg/kg	26 mg/kg	18%
Copper	78 mg/kg	80 mg/kg	3%
Lead	13 mg/kg	19 mg/kg	38%
Nickel	39 mg/kg	42 mg/kg	7%
Zinc	300 mg/kg	220 mg/kg	31%

Concentrations at or near the reporting limit (RL) may have exaggerated Relative Percent Difference (RPD) values. The RPD value is calculated using zero (0) as the value for all results reported with a "U" flag.

Sample KCP4-SO-313-S-110525 and the field duplicate KCP4-SO-314-D-110525 produced an RPD above the project goal of 50% for benzo(a)pyrene and benzo(j,k)fluoranthene. No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates.

Laboratory Control Sample and Laboratory Control Sample Duplicate

Laboratory control samples (LCS) and LCS duplicates (LCSD) were analyzed at the required frequencies and resulted in recoveries within control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were analyzed at the required frequencies. All MS/MSD analyses yielded percent recoveries (%R) and/or RPD values within the project data quality objectives with the exception of chromium and copper in the MS/MSD analysis performed on sample KCP4-SO-327-S-110525. Chromium recovered above control limits in the MS and the MS/MSD RPD value was also above control limits. Associated sample results have been qualified "J" to indicate that they are estimated. Copper did not recover in the MS or MSD; however, the parent sample result was significantly greater than (>4x) the spike level so no data were qualified.

See Table 3 for qualified data.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies. All RPD values were within project-required control limits with the exception of several metals in the duplicate analysis of sample KCP4-SO-327-S-110525. The chromium, copper, mercury, nickel and zinc RPD values were above the control limits. Associated sample results have been qualified "J" to indicate that they are estimated. The arsenic RPD value was less than five times the reporting limit and the difference between the two values was less than the reporting limit, so no data were qualified.

See Table 3 for qualified data.

Method Reporting Limits

Method reporting limits (MRLs) were deemed acceptable as reported. All values were reported using the laboratory MRLs. Values were reported as undiluted, or when reported as diluted, the MRL accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods with a few exceptions and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the laboratory

duplicates, MS/MSD, and LCS/LCSD RPD values, with the exceptions noted above. Most data were deemed acceptable as reported; all other data are acceptable as qualified. Table 3 summarizes the qualifiers applied to samples reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data are rejected and unusable

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated

Table 3
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-CO-328-110525	metals	Chromium	15 mg/kg	15J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	12 mg/kg	12J mg/kg	High Duplicate RPD
		Nickel	17 mg/kg	17J mg/kg	
		Zinc	47 mg/kg	47J mg/kg	
		Mercury	0.25U mg/kg	0.25UJ mg/kg	
KCP4-CO-329-110525	metals	Chromium	4.9 mg/kg	4.9J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	28 mg/kg	28J mg/kg	High Duplicate RPD
		Nickel	4.3 mg/kg	4.3J mg/kg	
		Zinc	100 mg/kg	100J mg/kg	
		Mercury	0.25U mg/kg	0.25UJ mg/kg	
KCP4-CO-330-110525	metals	Chromium	11 mg/kg	11J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	11 mg/kg	11J mg/kg	High Duplicate RPD
		Nickel	15 mg/kg	15J mg/kg	
		Zinc	56 mg/kg	56J mg/kg	
		Mercury	0.25U mg/kg	0.25UJ mg/kg	

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO-319-D-110525	metals	Chromium	65 mg/kg	65J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	410 mg/kg	410J mg/kg	High Duplicate RPD
		Nickel	46 mg/kg	46J mg/kg	
		Zinc	1400 mg/kg	1400J mg/kg	
		Mercury	0.26U mg/kg	0.26UJ mg/kg	
KCP4-SO-320-S-110525	metals	Chromium	27 mg/kg	27J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	52 mg/kg	52J mg/kg	High Duplicate RPD
		Nickel	25 mg/kg	25J mg/kg	
		Zinc	120 mg/kg	120J mg/kg	
		Mercury	0.26U mg/kg	0.26UJ mg/kg	
KCP4-SO-321-S-110525	metals	Chromium	41 mg/kg	41J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	240 mg/kg	240J mg/kg	High Duplicate RPD
		Nickel	43 mg/kg	43J mg/kg	
		Zinc	460 mg/kg	460J mg/kg	
		Mercury	0.26U mg/kg	0.26UJ mg/kg	
KCP4-SO-322-S-110525	metals	Chromium	71 mg/kg	71J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	140 mg/kg	140J mg/kg	High Duplicate RPD
		Nickel	46 mg/kg	46J mg/kg	
		Zinc	270 mg/kg	270J mg/kg	
		Mercury	0.26U mg/kg	0.26UJ mg/kg	
KCP4-SO-323-S-110525	metals	Chromium	49 mg/kg	49J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	72 mg/kg	72J mg/kg	High Duplicate RPD
		Nickel	71 mg/kg	71J mg/kg	
		Zinc	240 mg/kg	240J mg/kg	
		Mercury	0.26U mg/kg	0.26UJ mg/kg	
KCP4-SO-324-S-110525	metals	Chromium	91 mg/kg	91J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
	metals	Copper	92 mg/kg	92J mg/kg	High Duplicate RPD
		Nickel	53 mg/kg	53J mg/kg	
		Zinc	400 mg/kg	400J mg/kg	
		Mercury	0.26U mg/kg	0.26UJ mg/kg	
KCP4-SO-325-S-	metals	Chromium	140 mg/kg	140J mg/kg	High Duplicate and

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
110525					MS/MSD RPD; High MS %R
		Copper	140 mg/kg	140J mg/kg	High Duplicate RPD
		Nickel	94 mg/kg	94J mg/kg	
		Zinc	550 mg/kg	550J mg/kg	
		Mercury	0.27U mg/kg	0.27UJ mg/kg	
KCP4-SO-326-S-110525	metals	Chromium	84 mg/kg	84J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	300 mg/kg	300J mg/kg	High Duplicate RPD
		Nickel	82 mg/kg	82J mg/kg	
		Zinc	600 mg/kg	600J mg/kg	
		Mercury	0.26U mg/kg	0.26UJ mg/kg	
KCP4-SO-327-S-110525	metals	Chromium	150 mg/kg	150J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	400 mg/kg	400J mg/kg	High Duplicate RPD
		Nickel	150 mg/kg	150J mg/kg	
		Zinc	520 mg/kg	520J mg/kg	
		Mercury	0.42 mg/kg	0.42J mg/kg	
KCP4-SO-331-B-110525	metals	Chromium	31 mg/kg	31J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	78 mg/kg	78J mg/kg	High Duplicate RPD
		Nickel	39 mg/kg	39J mg/kg	
		Zinc	300 mg/kg	300J mg/kg	
		Mercury	0.27U mg/kg	0.27UJ mg/kg	
KCP4-SO-332-D-110525	metals	Chromium	26 mg/kg	26J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	80 mg/kg	80J mg/kg	High Duplicate RPD
		Nickel	42 mg/kg	42J mg/kg	
		Zinc	220 mg/kg	220J mg/kg	
		Mercury	0.27U mg/kg	0.27UJ mg/kg	
KCP4-SO-333-B-110525	metals	Chromium	41 mg/kg	41J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	210 mg/kg	210J mg/kg	High Duplicate RPD
		Nickel	36 mg/kg	36J mg/kg	
	metals	Zinc	900 mg/kg	900J mg/kg	
		Mercury	0.27U mg/kg	0.27UJ mg/kg	
KCP4-SO-334-B-110525	metals	Chromium	22 mg/kg	22J mg/kg	High Duplicate and MS/MSD RPD; High MS %R

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		Copper	21 mg/kg	21J mg/kg	High Duplicate RPD
		Nickel	34 mg/kg	34J mg/kg	
		Zinc	30 mg/kg	30J mg/kg	
		Mercury	0.27U mg/kg	0.27UJ mg/kg	
KCP4-SO-335-B-110525	metals	Chromium	64 mg/kg	64J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	130 mg/kg	130J mg/kg	High Duplicate RPD
		Nickel	66 mg/kg	66J mg/kg	
		Zinc	370 mg/kg	370J mg/kg	
		Mercury	0.46 mg/kg	0.46J mg/kg	
KCP4-SO-336-B-110525	metals	Chromium	78 mg/kg	78J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	130 mg/kg	130J mg/kg	High Duplicate RPD
		Nickel	52 mg/kg	52J mg/kg	
		Zinc	310 mg/kg	310J mg/kg	
		Mercury	0.49 mg/kg	0.49J mg/kg	
KCP4-SO-337-B-110525	metals	Chromium	23 mg/kg	23J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	23 mg/kg	23J mg/kg	High Duplicate RPD
		Nickel	33 mg/kg	33J mg/kg	
		Zinc	37 mg/kg	37J mg/kg	
		Mercury	0.28U mg/kg	0.28UJ mg/kg	
KCP4-SO-338-B-110525	metals	Chromium	23 mg/kg	23J mg/kg	High Duplicate and MS/MSD RPD; High MS %R
		Copper	35 mg/kg	35J mg/kg	High Duplicate RPD
		Nickel	33 mg/kg	33J mg/kg	
		Zinc	87 mg/kg	87J mg/kg	
		Mercury	0.27U mg/kg	0.27UJ mg/kg	

REFERENCES

USEPA (U.S. Environmental Protection Agency), 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA, 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA, 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. USEPA 540/R-99/008. October.

USEPA, 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark
Project Number:	000105-01.09
Date:	July 26, 2011

This report summarizes the review of analytical results for 115 soil samples and 13 field duplicates on June 7, June 14, June 27 and July 12, 2011. Samples were collected by Anchor QEA, LLC, and submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington. The samples were analyzed for the following:

- Total metals by United States Environmental Protection Agency (USEPA) methods 6010B, 6020, and 7471A
- Polycyclic Aromatic Hydrocarbons (PAH) by method SW8270D-SIM

OnSite sample data group (SDG) numbers 1106-075, 1106-117, 1106-223, and 1107-070 were reviewed in this report. The samples and duplicates reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-339-S-110607	1106-075-01	Soil	metals, PAH
KCP4-SO-340-D-110607	1106-075-02	Soil	metals, PAH
KCP4-SO-341-S-110607	1106-075-03	Soil	metals, PAH
KCP4-SO-342-B-110607	1106-075-04	Soil	metals
KCP4-SO-343-D-110607	1106-075-05	Soil	metals
KCP4-SO-344-B-110607	1106-075-06	Soil	metals
KCP4-SO-345-B-110607	1106-075-07	Soil	metals
KCP4-SO-346-S-110607	1106-075-08	Soil	metals
KCP4-SO-347-B-110607	1106-075-09	Soil	metals
KCP4-SO-348-S-110607	1106-075-10	Soil	metals
KCP4-SO-349-B-110607	1106-075-11	Soil	metals
KCP4-SO-350-S-110607	1106-075-12	Soil	metals
KCP4-SO-351-B-110607	1106-075-13	Soil	metals
KCP4-SO-352-B-110607	1106-075-14	Soil	metals
KCP4-SO-353-B-110607	1106-075-15	Soil	metals
KCP4-SO-354-S-110607	1106-075-16	Soil	metals
KCP4-SO-355-S-110607	1106-075-17	Soil	metals
KCP4-SO-356-S-110607	1106-075-18	Soil	metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-357-B-110607	1106-075-19	Soil	metals
KCP4-SO-358-S-110607	1106-075-20	Soil	metals
KCP4-SO-359-S-110607	1106-075-21	Soil	metals
KCP4-SO-360-S-110607	1106-075-22	Soil	metals
KCP4-SO-361-S-110607	1106-075-23	Soil	metals
KCP4-SO-362-B-110607	1106-075-24	Soil	metals
KCP4-SO-363-B-110607	1106-075-25	Soil	metals
KCP4-SO-364-D-110607	1106-075-26	Soil	metals
KCP4-SO-365-B-110607	1106-075-27	Soil	metals
KCP4-SO-366-B-110607	1106-075-28	Soil	metals
KCP4-SO-367-S-110607	1106-075-29	Soil	metals
KCP4-SO-368-B-110607	1106-075-30	Soil	metals
KCP4-SO-369-D-110607	1106-075-31	Soil	metals
KCP4-SO-370-B-110607	1106-075-32	Soil	metals
KCP4-SO-371-B-110607	1106-075-33	Soil	metals
KCP4-SO-372-B-110607	1106-075-34	Soil	metals
KCP4-SO-373-S-110607	1106-075-35	Soil	metals
KCP4-SO-374-S-110607	1106-075-36	Soil	metals
KCP4-SO-375-S-110607	1106-075-37	Soil	metals
KCP4-SO-376-S-110607	1106-075-38	Soil	metals
KCP4-SO-377-S-110607	1106-075-39	Soil	metals
KCP4-SO-378-S-110607	1106-075-40	Soil	metals
KCP4-SO-379-B-110607	1106-075-41	Soil	metals
KCP4-SO-380-S-110614	1106-117-01	Soil	metals
KCP4-SO-381-S-110614	1106-117-02	Soil	metals
KCP4-SO-382-S-110614	1106-117-03	Soil	metals
KCP4-SO-383-S-110614	1106-117-04	Soil	metals
KCP4-SO-384-S-110614	1106-117-05	Soil	metals
KCP4-SO-385-B-110614	1106-117-06	Soil	metals
KCP4-SO-386-D-110614	1106-117-07	Soil	metals
KCP4-SO-387-B-110614	1106-117-08	Soil	metals
KCP4-SO-388-B-110614	1106-117-09	Soil	metals
KCP4-SO-389-B-110614	1106-117-10	Soil	metals
KCP4-SO-390-S-110614	1106-117-11	Soil	metals
KCP4-SO-391-S-110614	1106-117-12	Soil	metals
KCP4-SO-392-S-110614	1106-117-13	Soil	metals
KCP4-SO-393-D-110614	1106-117-14	Soil	metals
KCP4-SO-394-B-110614	1106-117-15	Soil	metals
KCP4-SO-395-S-110614	1106-117-16	Soil	metals
KCP4-SO-396-S-110614	1106-117-17	Soil	metals
KCP4-SO-397-S-110614	1106-117-18	Soil	metals
KCP4-SO-398-B-110614	1106-117-19	Soil	metals
KCP4-SO-399-S-110614	1106-117-20	Soil	metals
KCP4-SO-400-S-110614	1106-117-21	Soil	metals
KCP4-SO-401-B-110614	1106-117-22	Soil	metals
KCP4-SO-402-D-110614	1106-117-23	Soil	metals
KCP4-SO-403-S-110614	1106-117-24	Soil	metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-404-B-110614	1106-117-25	Soil	metals
KCP4-SO-405-SP-110614	1106-117-26	Soil	metals
KCP4-SO-406-SP-110614	1106-117-27	Soil	metals
KCP4-SO-407-S-110627	1106-223-01	Soil	metals
KCP4-SO-408-S-110627	1106-223-02	Soil	metals
KCP4-SO-409-S-110627	1106-223-03	Soil	metals
KCP4-SO-410-S-110627	1106-223-04	Soil	metals
KCP4-SO-411-B-110627	1106-223-05	Soil	metals
KCP4-SO-412-B-110627	1106-223-06	Soil	metals
KCP4-SO-413-D-110627	1106-223-07	Soil	metals
KCP4-SO-414-B-110627	1106-223-08	Soil	metals
KCP4-SO-415-B-110627	1106-223-09	Soil	metals
KCP4-SO-416-B-110627	1106-223-10	Soil	metals
KCP4-SO-417-S-110627	1106-223-11	Soil	metals
KCP4-SO-418-S-110627	1106-223-12	Soil	metals
KCP4-SO-419-D-110627	1106-223-13	Soil	metals
KCP4-SO-420-S-110627	1106-223-14	Soil	metals
KCP4-SO-421-S-110627	1106-223-15	Soil	metals
KCP4-SO-422-S-110627	1106-223-16	Soil	metals
KCP4-SO-423-S-110627	1106-223-17	Soil	metals
KCP4-SO-424-B-110627	1106-223-18	Soil	metals
KCP4-SO-425-D-110627	1106-223-19	Soil	metals
KCP4-SO-426-B-110627	1106-223-20	Soil	metals
KCP4-SO-427-B-110627	1106-223-21	Soil	metals
KCP4-SO-428-B-110627	1106-223-22	Soil	metals
KCP4-SO-429-B-110627	1106-223-23	Soil	metals
KCP4-SO-430-B-110627	1106-223-24	Soil	metals
KCP4-SO-431-B-110627	1106-223-25	Soil	metals
KCP4-SO-432-B-110627	1106-223-26	Soil	metals
KCP4-SO-433-B-110627	1106-223-27	Soil	metals
KCP4-SO-434-B-110627	1106-223-28	Soil	metals
KCP4-SO-435-B-110627	1106-223-29	Soil	metals
KCP4-SO-436-B-110627	1106-223-30	Soil	metals
KCP4-SO-437-B-110627	1106-223-31	Soil	metals
KCP4-SO-438-S-110712	1107-070-01	Soil	metals
KCP4-SO-439-S-110712	1107-070-02	Soil	metals
KCP4-SO-440-S-110712	1107-070-03	Soil	metals
KCP4-SO-441-S-110712	1107-070-04	Soil	metals
KCP4-SO-442-S-110712	1107-070-05	Soil	metals
KCP4-SO-443-B-110712	1107-070-06	Soil	metals
KCP4-SO-444-D-110712	1107-070-07	Soil	metals
KCP4-SO-445-B-110712	1107-070-08	Soil	metals
KCP4-SO-446-B-110712	1107-070-09	Soil	metals
KCP4-SO-447-B-110712	1107-070-10	Soil	metals
KCP4-SO-448-B-110712	1107-070-11	Soil	metals
KCP4-SO-449-B-110712	1107-070-12	Soil	metals
KCP4-SO-450-B-110712	1107-070-13	Soil	metals

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-451-B-110712	1107-070-14	Soil	metals
KCP4-SO-452-B-110712	1107-070-15	Soil	metals
KCP4-SO-453-B-110712	1107-070-16	Soil	metals
KCP4-SO-454-S-110712	1107-070-17	Soil	metals
KCP4-SO-455-S-110712	1107-070-18	Soil	metals
KCP4-SO-456-B-110712	1107-070-19	Soil	metals
KCP4-SO-457-D-110712	1107-070-20	Soil	metals
KCP4-SO-458-B-110712	1107-070-21	Soil	metals
KCP4-SO-459-B-110712	1107-070-22	Soil	metals
KCP4-SO-460-S-110712	1107-070-23	Soil	metals
KCP4-SO-461-S-110712	1107-070-24	Soil	metals
KCP4-SO-462-S-110712	1107-070-25	Soil	metals
KCP4-SO-463-B-110712	1107-070-26	Soil	metals
KCP4-SO-464-D-110712	1107-070-27	Soil	metals
KCP4-SO-465-B-110712	1107-070-28	Soil	metals
KCP4-SO-466-B-110712	1107-070-29	Soil	metals
KCP4-SO-467-B-110712	1107-070-30	Soil	metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following as guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganics Data Review* (USEPA 2004)
- *USEPA National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

And by applying laboratory and method QC criteria as stated in SW 846, Third Edition, *Test Methods for Evaluating Solid Waste*, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody (COC) forms were signed by OnSite at the time of sample receipt; the samples were received cold and in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Field Duplicates

Fourteen field duplicates were collected in association with this sample set, for total metals. Detected results are summarized in Table 2.

Table 2
Field Duplicate Summary

Analyte	KCP4-SO-339-S-110607	KCP4-SO-340-D-110607	RPD
1-Methylnaphthalene	0.014 mg/kg	0.015 mg/kg	7%
2-Methylnaphthalene	0.021 mg/kg	0.025 mg/kg	17%
Acenaphthene	0.026 mg/kg	0.029 mg/kg	11%
Anthracene	0.036 mg/kg	0.036 mg/kg	0%
Antimony	11 mg/kg	8.5 mg/kg	26%
Arsenic	27 mg/kg	22 mg/kg	20%
Benzo(a)anthracene	0.084 mg/kg	0.09 mg/kg	7%
Benzo(a)pyrene	0.072 mg/kg	0.081 mg/kg	12%
Benzo(b)fluoranthene	0.075 mg/kg	0.083 mg/kg	10%
Benzo(g,h,i)perylene	0.06 mg/kg	0.072 mg/kg	18%
Benzo(j,k)fluoranthene	0.063 mg/kg	0.072 mg/kg	13%
Chromium	80 mg/kg	76 mg/kg	5%
Chrysene	0.1 mg/kg	0.11 mg/kg	10%
Copper	220 mg/kg	190 mg/kg	15%
Dibenzo(a,h)anthracene	0.018 mg/kg	0.021 mg/kg	15%
Fluoranthene	0.23 mg/kg	0.24 mg/kg	4%
Fluorene	0.028 mg/kg	0.03 mg/kg	7%
Indeno(1,2,3-c,d)pyrene	0.05 mg/kg	0.058 mg/kg	15%
Lead	61 mg/kg	56 mg/kg	9%

Analyte	KCP4-SO-339-S-110607	KCP4-SO-340-D-110607	RPD
Naphthalene	0.023 mg/kg	0.023 mg/kg	0%
Nickel	66 mg/kg	53 mg/kg	22%
Phenanthrene	0.23 mg/kg	0.24 mg/kg	4%
Pyrene	0.17 mg/kg	0.19 mg/kg	11%
Zinc	820 mg/kg	720 mg/kg	13%

Analyte	KCP4-SO-342-B-110607	KCP4-SO-343-D-110607	RPD
Chromium	20 mg/kg	18 mg/kg	11%
Copper	23 mg/kg	17 mg/kg	30%
Nickel	41 mg/kg	39 mg/kg	5%
Zinc	30 mg/kg	24 mg/kg	22%

Analyte	KCP4-SO-363-B-110607	KCP4-SO-364-D-110607	RPD
Chromium	31 mg/kg	22 mg/kg	34%
Copper	28 mg/kg	32 mg/kg	13%
Lead	5.5 mg/kg	6.4 mg/kg	15%
Nickel	37 mg/kg	47 mg/kg	24%
Zinc	37 mg/kg	38 mg/kg	3%

Analyte	KCP4-SO-368-B-110607	KCP4-SO-369-D-110607	RPD
Chromium	42 mg/kg	36 mg/kg	15%
Copper	69 mg/kg	75 mg/kg	8%
Lead	14 mg/kg	16 mg/kg	13%
Mercury	0.27U mg/kg	0.42 mg/kg	200%
Nickel	54 mg/kg	48 mg/kg	12%
Zinc	300 mg/kg	250 mg/kg	18%

Analyte	KCP4-SO-385-B-110614	KCP4-SO-386-D-110614	RPD
Chromium	76 mg/kg	19 mg/kg	120%
Copper	25 mg/kg	22 mg/kg	13%
Nickel	37 mg/kg	37 mg/kg	0%
Zinc	32 mg/kg	27 mg/kg	17%

Analyte	KCP4-SO-392-S-110614	KCP4-SO-393-D-110614	RPD
Chromium	33 mg/kg	37 mg/kg	11%
Copper	84 mg/kg	88 mg/kg	5%
Lead	10 mg/kg	9.1 mg/kg	9%
Nickel	46 mg/kg	43 mg/kg	7%
Zinc	160 mg/kg	140 mg/kg	13%

Analyte	KCP4-SO-401-B-110614	KCP4-SO-402-D-110614	RPD

Chromium	27 mg/kg	24 mg/kg	12%
Copper	52 mg/kg	42 mg/kg	21%
Lead	14 mg/kg	14 mg/kg	0%
Nickel	25 mg/kg	24 mg/kg	4%
Zinc	75 mg/kg	57 mg/kg	27%

Analyte	KCP4-SO-412-B-110627	KCP4-SO-413-D-110627	RPD
Chromium	28 mg/kg	32 mg/kg	13%
Copper	26 mg/kg	21 mg/kg	21%
Nickel	49 mg/kg	46 mg/kg	6%
Zinc	45 mg/kg	36 mg/kg	22%

Analyte	KCP4-SO-418-S-110627	KCP4-SO-419-D-110627	RPD
Chromium	26 mg/kg	26 mg/kg	0%
Copper	37 mg/kg	34 mg/kg	8%
Lead	8.6 mg/kg	10 mg/kg	15%
Nickel	43 mg/kg	49 mg/kg	13%
Zinc	110 mg/kg	130 mg/kg	17%

Analyte	KCP4-SO-424-B-110627	KCP4-SO-425-D-110627	RPD
Chromium	30 mg/kg	25 mg/kg	18%
Copper	27 mg/kg	29 mg/kg	7%
Nickel	61 mg/kg	50 mg/kg	20%
Zinc	38 mg/kg	33 mg/kg	14%

Analyte	KCP4-SO-443-B-110712	KCP4-SO-444-D-110712	RPD
Chromium	34 mg/kg	34 mg/kg	0%
Copper	28 mg/kg	25 mg/kg	11%
Lead	5.6 mg/kg	5.4U mg/kg	200%
Nickel	73 mg/kg	66 mg/kg	10%
Zinc	45 mg/kg	36 mg/kg	22%

Analyte	KCP4-SO-456-B-110712	KCP4-SO-457-D-110712	RPD
Antimony	6 mg/kg	5.2U mg/kg	200%
Arsenic	34 mg/kg	10U mg/kg	200%
Chromium	39 mg/kg	32 mg/kg	20%
Copper	120 mg/kg	51 mg/kg	81%
Lead	25 mg/kg	35 mg/kg	33%
Mercury	0.26U mg/kg	0.69 mg/kg	200%
Nickel	41 mg/kg	69 mg/kg	51%
Zinc	620 mg/kg	54 mg/kg	168%

Analyte	KCP4-SO-463-B-110712	KCP4-SO-464-D-110712	RPD
Chromium	30 mg/kg	22 mg/kg	31%
Copper	52 mg/kg	17 mg/kg	101%
Lead	40 mg/kg	5.3U mg/kg	200%
Nickel	69 mg/kg	40 mg/kg	53%
Zinc	51 mg/kg	28 mg/kg	58%

Concentrations at or near the reporting limit (RL) may have exaggerated Relative Percent Difference (RPD) values. The RPD value is calculated using zero (0) as the value for all results reported with a "U" flag.

Three samples had detected results that produced an RPD above the project goal of 50%:

- Sample KCP4-SO-463-B-110712 and the field duplicate KCP4-SO-464-D-110712 for copper, nickel and zinc.
- Sample KCP4-SO-456-B-110712 and field duplicate KCP4-SO-457-D-110712 for copper, nickel and zinc.
- Sample KCP4-SO-385-B-110614 and field duplicate KCP4-SO-386-D-110614 for chromium.

No data were qualified based on field duplicate results.

Surrogate Recoveries

Surrogate recoveries were within laboratory control limits for all surrogates with the exception of one surrogate in the PAH analysis of sample KCP4-SO-339-S-110607. The recovery for surrogate standard 2-fluorobiphenyl was below the control limit, however since the other two surrogate standards were within control limits, no data was qualified.

Laboratory Control Sample

Laboratory control samples (LCSs) were analyzed at the required frequencies and resulted in recoveries and/or RPD values within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and MS duplicate (MSD) samples were analyzed at the required frequencies and yielded percent recoveries (%R) and/or RPD values within laboratory control limits with the following exceptions:

- SDG 1106-075 Metals - Copper and zinc recovered above control limits in the MS/MSD analyses performed on sample KCP4-SO-340-D-110607. Associated sample results for copper have been qualified with a "J" to indicate they are estimated. The zinc sample concentration was significantly greater than (>4x) the spike concentration so associated results were not qualified.
- SDG 1106-075 PAHs - The MSD recovered above limits for four analytes and the RPD values were above control limits for eight analytes in the MS/MSD analyses performed on sample KCP4-SO-339-S-110607. Associated parent sample results have been qualified with a "J" to indicate they are estimated.
- SDG 1106-117 Metals - Chromium, copper and zinc recovered outside of control limits in the MS/MSD performed on sample KCP4-SO-391-S-110614. Copper recovered low in the MSD, however since the MS recoveries and the MS/MSD RPD values were within control limits, no data were qualified. Zinc did not recover in the MS/MSD, however, since the sample concentration was greater than four times the level of the spike, no data was qualified. The zinc MS/MSD RPD value was above control limits; associated sample results have been qualified "J" to indicate they are estimated. Chromium recovered high in the MSD and the MS/MSD RPD value was above control limits. Associated sample results have been qualified with a "J" to indicate they are estimated.
- SDG 1107-070 Metals - Zinc recovered above control limits in the MS/MSD performed on sample KCP4-SO-438-S-110712, however the sample concentration was significantly greater than (>4x) the spike concentration so no data were qualified. Mercury recovered low in the MS/MSD analyses performed on sample KCP4-SO-457-D-110712. However, recoveries are within control limits if the duplicate value is used. Associated detected sample results have been qualified with a "J" or "UJ" to indicate they are estimated.

See Table 3 for qualified data.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequencies and results were within laboratory control limits with the following exceptions:

- SDG 1106-075 Metals - The duplicate analysis of sample KCP4-SO-340-D-110607 resulted in a RPD value for nickel that was outside of project-required control limits.

Associated sample results have been qualified with a "J" to indicate they are estimated.

- SDG 1106-117 Metals - The duplicate analysis of sample KCP4-SO-391-S-110614 resulted in a RPD value for zinc that was above control limits. Associated sample results have been qualified with a "J" to indicate they are estimated.

- SDG 1106-223 - The duplicate analysis of sample KCP4-SO-411-B-110627 resulted in RPD values for copper and zinc that were above the control limits. Associated sample results have been qualified with a "J" to indicate they are estimated. See Table 3 for qualified data.

- SDG 1107-070 - The duplicate analysis of sample KCP4-SO-438-S-110712 resulted in a RPD for arsenic that was above control limits. However, since the sample concentrations were within five times the reporting limit (RL), and the difference between the two values was less than the RL, no data were qualified.

See Table 3 for qualified data.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, LCS, and MS/MSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the MS/MSD and duplicate RPD values, with the exceptions noted above. Most data were considered acceptable as reported; all other data are acceptable as qualified. Table 3 summarizes the qualifiers applied to sample results reviewed in this report.

Data Qualifier Definitions

U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.

J Indicates an estimated value.

R Indicates data is rejected and unusable

UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated

Table 3
Data Qualification Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO-339-S-110607	metals	Copper	220 mg/kg	220J mg/kg	High MS/MSD %R
		Nickel	66 mg/kg	66J mg/kg	High Duplicate RPD
	PAH	Benzo(a)anthracene	0.084 mg/kg	0.084J mg/kg	High MSD %R, high MS/MSD RPD
		Fluoranthene	0.23 mg/kg	0.23J mg/kg	
		Phenanthrene	0.23 mg/kg	0.23J mg/kg	
		Pyrene	0.17 mg/kg	0.17J mg/kg	
		Acenaphthene	0.026 mg/kg	0.026J mg/kg	High MS/MSD RPD
		Anthracene	0.036 mg/kg	0.036J mg/kg	
		Chrysene	0.10 mg/kg	0.10J mg/kg	
		Benzo(a)pyrene	0.072 mg/kg	0.072J mg/kg	
KCP4-SO-340-D-110607	metals	Copper	190 mg/kg	190J mg/kg	High MS/MSD %R
		Nickel	53 mg/kg	53J mg/kg	High Duplicate RPD
KCP4-SO-341-S-110607	metals	Copper	130 mg/kg	51J mg/kg	High MS/MSD %R
		Nickel	51 mg/kg	130J mg/kg	High Duplicate RPD
KCP4-SO-380-S-110614	metals	Chromium	26 mg/kg	26J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	67 mg/kg	67J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-381-S-110614	metals	Chromium	33 mg/kg	33J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	160 mg/kg	160J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-382-S-	metals	Chromium	42 mg/kg	42J mg/kg	High MSD %R,

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
110614					high MS/MSD RPD
		Zinc	580 mg/kg	580J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-383-S-110614	metals	Chromium	33 mg/kg	33J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	280 mg/kg	280J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-384-S-110614	metals	Chromium	41 mg/kg	41J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	160 mg/kg	160J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-385-B-110614	metals	Chromium	76 mg/kg	76J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	32 mg/kg	32J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-386-D-110614	metals	Chromium	19 mg/kg	19J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	27 mg/kg	27J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-387-B-110614	metals	Chromium	18 mg/kg	18J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	29 mg/kg	29J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-388-B-110614	metals	Chromium	16 mg/kg	16J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	31 mg/kg	31J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-389-B-110614	metals	Chromium	17 mg/kg	17J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	27 mg/kg	27J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-390-S-	metals	Chromium	35 mg/kg	35J mg/kg	High MSD %R,

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
110614					high MS/MSD RPD
		Zinc	470 mg/kg	470J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-391-S-110614	metals	Chromium	76 mg/kg	76J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	940 mg/kg	940J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-392-S-110614	metals	Chromium	33 mg/kg	33J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	160 mg/kg	160J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-393-D-110614	metals	Chromium	37 mg/kg	37J mg/kg	High MSD %R, high MS/MSD RPD
		Zinc	140 mg/kg	140J mg/kg	High duplicate and MS/MSD RPD
KCP4-SO-407-S-110627	metals	Copper	130 mg/kg	130J mg/kg	High duplicate RPD
		Zinc	450 mg/kg	450J mg/kg	High duplicate RPD
KCP4-SO-408-S-110627	metals	Copper	510 mg/kg	510J mg/kg	High duplicate RPD
		Zinc	2100 mg/kg	2100J mg/kg	High duplicate RPD
KCP4-SO-409-S-110627	metals	Copper	290 mg/kg	290J mg/kg	High duplicate RPD
		Zinc	640 mg/kg	640J mg/kg	High duplicate RPD
KCP4-SO-410-S-110627	metals	Copper	120 mg/kg	120J mg/kg	High duplicate RPD
		Zinc	710 mg/kg	710J mg/kg	High duplicate RPD
KCP4-SO-411-B-110627	metals	Copper	21 mg/kg	21J mg/kg	High duplicate RPD
		Zinc	60 mg/kg	60J mg/kg	High duplicate RPD
KCP4-SO-412-B-110627	metals	Copper	26 mg/kg	26J mg/kg	High duplicate RPD
		Zinc	45 mg/kg	45J mg/kg	High duplicate RPD

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO-413-D-110627	metals	Copper	21 mg/kg	21J mg/kg	High duplicate RPD
		Zinc	36 mg/kg	36J mg/kg	High duplicate RPD
KCP4-SO-414-B-110627	metals	Copper	17 mg/kg	17J mg/kg	High duplicate RPD
		Zinc	33 mg/kg	33J mg/kg	High duplicate RPD
KCP4-SO-415-B-110627	metals	Copper	58 mg/kg	58J mg/kg	High duplicate RPD
		Zinc	170 mg/kg	170J mg/kg	High duplicate RPD
KCP4-SO-416-B-110627	metals	Copper	28 mg/kg	28J mg/kg	High duplicate RPD
		Zinc	160 mg/kg	160J mg/kg	High duplicate RPD
KCP4-SO-417-S-110627	metals	Copper	61 mg/kg	61J mg/kg	High duplicate RPD
		Zinc	180 mg/kg	180J mg/kg	High duplicate RPD
KCP4-SO-418-S-110627	metals	Copper	37 mg/kg	37J mg/kg	High duplicate RPD
		Zinc	110 mg/kg	110J mg/kg	High duplicate RPD
KCP4-SO-419-D-110627	metals	Copper	34 mg/kg	34J mg/kg	High duplicate RPD
		Zinc	130 mg/kg	130J mg/kg	High duplicate RPD
KCP4-SO-420-S-110627	metals	Copper	31 mg/kg	31J mg/kg	High duplicate RPD
		Zinc	55 mg/kg	55J mg/kg	High duplicate RPD
KCP4-SO-421-S-110627	metals	Copper	91 mg/kg	91J mg/kg	High duplicate RPD
		Zinc	220 mg/kg	220J mg/kg	High duplicate RPD
KCP4-SO-422-S-110627	metals	Copper	86 mg/kg	86J mg/kg	High duplicate RPD
		Zinc	670 mg/kg	670J mg/kg	High duplicate RPD
KCP4-SO-423-S-110627	metals	Copper	72 mg/kg	72J mg/kg	High duplicate RPD
		Zinc	180 mg/kg	180J mg/kg	High duplicate RPD
KCP4-SO-425-D-110627	metals	Copper	29 mg/kg	29J mg/kg	High duplicate RPD
		Zinc	33 mg/kg	33J mg/kg	High duplicate RPD

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
KCP4-SO-426-B-110627	metals	Copper	16 mg/kg	16J mg/kg	High duplicate RPD
		Zinc	31 mg/kg	31J mg/kg	High duplicate RPD
KCP4-SO-457-D-110712	metals	Mercury	0.69 mg/kg	0.69J mg/kg	Low MS/MSD %R
KCP4-SO-458-B-110712	metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD %R
KCP4-SO-459-B-110712	metals	Mercury	0.26U mg/kg	0.26UJ mg/kg	Low MS/MSD %R
KCP4-SO-460-S-110712	metals	Mercury	0.26U mg/kg	0.26UJ mg/kg	Low MS/MSD %R
KCP4-SO-461-S-110712	metals	Mercury	0.25U mg/kg	0.25UJ mg/kg	Low MS/MSD %R
KCP4-SO-462-S-110712	metals	Mercury	0.25U mg/kg	0.25UJ mg/kg	Low MS/MSD %R
KCP4-SO-463-B-110712	metals	Mercury	0.26U mg/kg	0.26UJ mg/kg	Low MS/MSD %R
KCP4-SO-465-B-110712	metals	Mercury	0.26 mg/kg	0.26J mg/kg	Low MS/MSD %R
KCP4-SO-466-B-110712	metals	Mercury	0.26U mg/kg	0.26UJ mg/kg	Low MS/MSD %R
KCP4-SO-467-B-110712	metals	Mercury	0.27U mg/kg	0.27UJ mg/kg	Low MS/MSD %R

REFERENCES

USEPA. 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency, Office of Emergency Response. EPA 540/R-99/008. October.

USEPA. 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. USEPA 540-R-08-01. June.

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DATA VALIDATION REVIEW REPORT – EPA LEVEL 2

Project:	Kimberly Clark
Project Number:	000105-01.09
Date:	August 23, 2011

This report summarizes the review of analytical results for one sediment sample and one field duplicate collected July 28, 2011. The samples were collected by Anchor QEA, LLC, and submitted to Analytical Resources, Inc. (ARI) in Tukwila, Washington. The samples were analyzed for the following parameters:

- Total metals by USEPA methods 6010B and 7471A

OnSite sample data group (SDG) number 1107-214 was reviewed in this report. Samples reviewed in this report are presented in Table 1.

Table 1
Samples Reviewed

Sample ID	Lab ID	Matrix	Analyses Requested
KCP4-SO-468-B-110728	1107-214-01	Soil	metals
KCP4-SO-469-D-110728	1107-214-02	Soil	metals

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP). Laboratory results were reviewed using the following guidelines:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA 2004)

Laboratory and method QC criteria were also used as stated in USEPA 1986 (SW-846, Third Edition), *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, update 1, August 1993; update II, January 1995; update IIA, February 1994; update IIB, August 1995; update III, June 1997; update IIIA, May 1999; update IIIB, June 2008; update IVA and IVB,

January 2008. Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody forms were signed by OnSite at the time of sample receipt; the samples were received in good condition.

Holding Times and Sample Preservation and Analytical Methods

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes.

Field Quality Control

Field Duplicates

One field duplicate was collected in association with this sample set. Detected results are summarized in Table 2.

Table 2
Field Duplicate Summary

Analyte	KCP4-SO-468-B-110728	KCP4-SO-469-D-110728	RPD
Chromium	33 mg/kg	24 mg/kg	32%
Copper	23 mg/kg	23 mg/kg	0%
Lead	5.4 mg/kg	5.3U mg/kg	200%
Nickel	64 mg/kg	58 mg/kg	10%
Zinc	48 mg/kg	50 mg/kg	4%

Results at or near the reporting limit (RL) may have exaggerated relative percent difference (RPD) values. The RPD value is calculated using zero (0) as the value for all results reported with a "U" flag. No data were qualified based on field duplicate results.

Laboratory Control Sample

A laboratory control sample (LCS) was analyzed at the required frequency. The LCS analysis yielded percent recovery (%R) values within laboratory control limits.

Matrix Spike and Matrix Spike Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were analyzed at the required frequency. All MS/MSD analyses yielded %R and RPD values within laboratory control limits.

Laboratory Replicates

A laboratory replicate was analyzed at the required frequency and all results were within required limits.

Method Reporting Limits

Reporting limits were deemed acceptable as reported. All values were reported using the laboratory reporting limits. Values were reported as undiluted, or when reported as diluted, the reporting limit accurately reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the LCS, and MS/MSD %R values. Precision was also acceptable as demonstrated by the laboratory duplicate and MS/MSD RPD values. Data were deemed acceptable as reported.

REFERENCES

USEPA (U.S. Environmental Protection Agency), 1986. Test methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA, 2004. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-04-004. October.

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Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101
ATTN: Ms. Delaney Peterson

June 23, 2011

SUBJECT: Kim Clark, Data Validation

Dear Ms. Peterson,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on June 7, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 25616:

SDG #	Fraction
1012-243B, 1102-058 1103-131, 1104-097	Polynuclear Aromatic Hydrocarbons, Metals, TPH as Extractables

The data validation was performed under EPA Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Data Validation Operations Manager/Senior Chemist

Attachment 1

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LDC #25616 (Anchor Environmental-Seattle WA / Kim Clark)

Project #000105-01.09

LDC	SDG#	DATE REC'D	(3) DATE DUE	PAH (8270D-SIM)		Metals (6020B)		TCLP Lead (6010B)		TPH-E (NWTPH-HCID)																											
Matrix:	Waste/Sediment			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	1012-243B	06/07/11	06/28/11	0	1	0	3	-	-	-	-																										
B	1102-058	06/07/11	06/28/11	-	-	0	0	0	2	0	3																										
B	1102-058	06/07/11	06/28/11	-	-	0	10	0	0	0	0																										
C	1103-131	06/07/11	06/28/11	-	-	0	3	-	-	0	3																										
D	1104-097	06/07/11	06/28/11	0	1	0	2	0	1	-	-																										
Total	A/SC			0	2	0	18	0	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS, MSD, or DUP's.

25616ST.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: December 28, 2010

LDC Report Date: June 14, 2011

Matrix: Soil

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level IV

Laboratory: OnSite Environmental, Inc.

Sample Delivery Group (SDG): 1012-243B

Sample Identification

HR-5-1R
HR-5-1RMS
HR-5-1RMSD

Introduction

This data review covers 3 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per a modification of EPA SW 846 Method 8270D using Selected Ion Monitoring (SIM) for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag	A or P
HR-5-1R HR-5-1RMS HR-5-1RMSD	All TCL compounds	63	14	J (all detects) R (all non-detects)	P

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
HR-5-1RMS/MSD (HR-5-1R)	Benzo(a)anthracene	252 (70-130)	54 (70-130)	83 (≤30)	J (all detects) UJ (all non-detects)	A
	Chrysene	254 (70-130)	52 (70-130)	78 (≤30)		
	Benzo(b)fluoranthene	202 (70-130)	57 (70-130)	59 (≤30)		
	Benzo(k)fluoranthene	243 (70-130)	54 (70-130)	77 (≤30)		
	Benzo(a)pyrene	220 (70-130)	56 (70-130)	65 (≤30)		
	Indeno(1,2,3-cd)pyrene	158 (70-130)	68 (70-130)	42 (≤30)		

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to extraction holding time and MS/MSD %R and RPD problems, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level IV data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 1012-243B

SDG	Sample	Compound	Flag	A or P	Reason
1012-243B	HR-5-1R	All TCL compounds	J (all detects) R (all non-detects)	P	Technical holding times
1012-243B	HR-5-1R	Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)

Kim Clark
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 1012-243B

No Sample Data Qualified in this SDG

LDC #: 25616A2b

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 6/14/11

SDG #: 1012-243B

Page: 1 of 1

Laboratory: OnSite Environmental Inc.

Reviewer: FT

2nd Reviewer: M

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/28/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

Soil

1	HR-5-1R	11	MB030151	21		31	
2	HR-5-1RMS	12		22		32	
3	HR-5-1RMSD	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 25616A2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: M

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.		✓		
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples (LCS)				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25616A26

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: K

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 25616A2b

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: FT
2nd Reviewer: [illegible]

All circled dates have exceeded the technical holding times.
Y N N/A Were all cooler temperatures within validation criteria?

METHOD : GC/MS BNA (EPA SW 846 Method 8270)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
1 - 3	soil		12/28/10	3/1/11	3/2/11	63	J/R/P

TECHNICAL HOLDING TIME CRITERIA

Water: Extracted within 7 days, analyzed within 40 days.
Soil: Extracted within 14 days, analyzed within 40 days.

LDC #: 25616A2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: SC
2nd Reviewer: Q

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

(Y) N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		2/3		See attached	( )	( )	1	J/UJ/A
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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Date of Report: March 4, 2011
Samples Submitted: December 29, 2010
Laboratory Reference: 1012-243B
Project: 5147-007-15-T100

PAHs by EPA 8270D/SIM
(with silica gel clean-up)
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-243-10							70-130 ≤30			
	MS	MSD	MS	MSD		MS	MSD				
CCC Benzo[a]anthracene	**0.282**	**0.117**	0.0833	0.0833	0.0718	252	54	43 - 127	83	~~21~~	I,L
DDD Chrysene	**0.299**	**0.131**	0.0833	0.0833	0.0873	254	52	41 - 133	78	19	I,L
GGG Benzo[b]fluoranthene	**0.267**	**0.146**	0.0833	0.0833	0.0987	202	57	40 - 132	59	25	I,L
HHH Benzo[k]fluoranthene	**0.285**	**0.127**	0.0833	0.0833	0.0824	243	54	35 - 132	77	25	I,L
III Benzo[a]pyrene	**0.277**	**0.141**	0.0833	0.0833	0.0940	220	56	37 - 131	65	26	I,L
JJJ Indeno(1,2,3-c,d)pyrene	**0.215**	**0.140**	0.0833	0.0833	0.0836	158	68	39 - 134	42	~~23~~	I,L
Dibenz[a,h]anthracene	**0.116**	**0.103**	0.0833	0.0833	0.0300	103	88	40 - 137	12	21	
Surrogate:											
2-Fluorobiphenyl						*77*	*84*	*43 - 109*			
Pyrene-d10						*89*	*91*	*38 - 128*			
Terphenyl-d14						*78*	*82*	*33 - 119*			

LDC #: 25616A2b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (20U std)	Recalculated RRF (20U std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	3/01/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)						
			~~Fluorene (3rd internal standard)~~						
			~~Pentachlorophenol~~ Chrysene (4th internal standard)	1.0848	1.0848	1.1170	1.1170	5.62	5.62
			~~Bis(2-ethylhexyl)phthalate~~ Benzo(g)perylene (5th internal standard)	1.40245	1.40245	1.4675	1.4675	4.72	4.72
			~~Benzo(a)pyrene (6th internal standard)~~						
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616A26

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: K

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	3/2/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)					
			~~Fluorene (3rd internal standard)~~					
			~~Pentachlorophenol (4th internal standard)~~ Chrysene	1.117	1.092	1.092	2.2	2.2
			~~Bis(2-ethylhexyl)phthalate (5th internal standard)~~ Benzo(a)pyrene	1.468	1.400	1.400	4.6	4.6
			~~Benzo(a)pyrene (6th internal standard)~~					
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616A2b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: n/a

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~ Pyrene-d10	1000	892.08	89	89	0
2-Fluorobiphenyl	↓	821.19	82	82	↓
Terphenyl-d14	↓	788.30	79	79	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25616A2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 2 + 3

Compound	Spike Added (mg/kg)		Sample Concentration (mg/kg)	Spiked Sample Concentration (mg/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol / Chrysene	0.0833	0.0833	0.0873	0.299	0.131	254	254	52	52	78	78
N-Nitroso-di-n-propylamine / Benzo(a)pyrene	↓	↓	0.0940	0.277	0.141	220	220	56	56	65	65
4-Chloro-3-methylphenol											
Acenaphthene											
Pentachlorophenol											
Pyrene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616A0b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: lcs 10

Compound	Spike Added (mg/kg)		Spike Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
~~Phenol~~ Chrysene	0.0833	0.0833	0.0757	0.0709	91	91	85	85	7	7
~~N-Nitroso-di-n-propylamine~~ Benzo(a) pyrene	↓	↓	0.0748	0.0701	90	90	84	84	6	6
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
~~Pyrene~~										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616A2b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, Chrysene

Conc. = $\frac{(25378)(2000)(4)(\quad)(\quad)}{(86607)(1.1170)(24)(0.95)(1000)}$

= 0.092 mg/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Kim Clark
Collection Date:	December 28, 2010
LDC Report Date:	June 17, 2011
Matrix:	Soil
Parameters:	Metals
Validation Level:	EPA Level IV
Laboratory:	OnSite Environmental, Inc.
Sample Delivery Group (SDG):	1012-243B

Sample Identification

HR-4-2R
HR-4-3R
HR-4-5R
HR-4-2RMS
HR-4-2RMSD
HR-4-2RDUP

Introduction

This data review covers 6 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B for Metals. The metals analyzed were Arsenic and Chromium.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS was not utilized in this SDG.

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

ICP-MS was not utilized in this SDG.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level IV data validation all results are considered valid and usable for all purposes.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Metals - Data Qualification Summary - SDG 1012-243B

No Sample Data Qualified in this SDG

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1012-243B

No Sample Data Qualified in this SDG

LDC #: 25616A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6-16-11

SDG #: 1012-243B Level IV Page: 1 of 1

Laboratory : OnSite Environmental Inc. gmM Reviewer: MG

2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/~~7000~~)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-28-10
II.	ICP/MS Tune	N	not utilized
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	A	MS/MSD
VII.	Duplicate Sample Analysis	A	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	not utilized
X.	Furnace Atomic Absorption QC	N	" "
XI.	ICP Serial Dilution	N	not performed
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: all soil

1	HR-4-2R	11		21		31	
2	HR-4-3R	12		22		32	
3	HR-4-5R	13		23		33	
4	HR-4-2RMS	14		24		34	
5	HR-4-2RMSD	15		25		35	
6	HR-4-2RDUP	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	PBS	30		40	

Notes:

LDC #: 25616A4

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: MG
2nd Reviewer: W

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?			✓	
Were %RSD of isotopes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25616A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: V

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1, 2	S	Al, Sb, As, Ba, Be, Cd, Ca, **Cr**, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
3	↓	Al, Sb, **As**, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
QC 4→6	↓	Al, Sb, **As**, Ba, Be, Cd, Ca, **Cr**, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
Analysis Method		
ICP	S	Al, Sb, **As**, Ba, Be, Cd, Ca, **Cr**, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,

Comments: Mercury by CVAA if performed

LDC #: 25616A4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
1150 ICV	ICP (Initial calibration)	As	1012.1	1000	1.2 %D	-1.2 %D	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
1455 CCV	ICP (Continuing calibration)	Cr	999.74	1000	0 %D	0 %D	
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616A4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1211 ICSAB	ICP interference check	As	2427.1 (µg/L)	2500 (µg/L)	97	not reported	Y
1602 LCS	Laboratory control sample	Cr	102.12 (mg/kg)	100 (mg/kg)	102	102	
1617 4	Matrix spike	As	wet weight (SSR-SR) 87.78 (mg/kg)	wet wt. 100 (mg/kg)	88	88	
1605/1609 6	Duplicate	Cr	wet weight 40.31 (mg/kg)	wet wt. 42.62 (mg/kg)	6	6	
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616A4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer: LA

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for # 1, Cr were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(806.24\ \mu g/L)(0.100\ L)}{(2\ g)(0.92)} = 43.817\ \mu g/g \text{ or } mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	1	Cr	44	44	Y

Note:

Kim Clark - LDC 25616

SDG: 12-243

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
HR-4-2R	1012-243-17	Chromium	3/2/2011	44	Yes	Y				0.54		mg/kg
HR-4-3R	1012-243-18	Chromium	3/2/2011	43	Yes	Y				0.54		mg/kg
HR-4-5R	1012-243-20	Arsenic	3/2/2011	11	Yes	N	U			11		mg/kg

Analytical Method SW8270

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
HR-5-1R	1012-243-10	Benzo(a)anthracene	3/2/2011	0.076	Yes	Y		J	1,8,9	0.007		mg/kg
HR-5-1R	1012-243-10	Dibenzo(a,h)anthracene	3/2/2011	0.032	Yes	Y		J	1	0.007		mg/kg
HR-5-1R	1012-243-10	Benzo(a)pyrene	3/2/2011	0.099	Yes	Y		J	1,8,9	0.007		mg/kg
HR-5-1R	1012-243-10	Chrysene	3/2/2011	0.092	Yes	Y		J	1,8,9	0.007		mg/kg
HR-5-1R	1012-243-10	Benzo(k)fluoranthene	3/2/2011	0.087	Yes	Y		J	1,8,9	0.007		mg/kg
HR-5-1R	1012-243-10	Benzo(b)fluoranthene	3/2/2011	0.1	Yes	Y		J	1,8,9	0.007		mg/kg
HR-5-1R	1012-243-10	Indeno(1,2,3-c,d)pyrene	3/2/2011	0.088	Yes	Y		J	1,8,9	0.007		mg/kg

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Kim Clark
Collection Date:	February 8, 2011
LDC Report Date:	June 23, 2011
Matrix:	Soil
Parameters:	Metals
Validation Level:	EPA Level III & IV
Laboratory:	OnSite Environmental, Inc.
Sample Delivery Group (SDG):	1102-058

Sample Identification

KCP4-SO214-S-110208**
KCP4-SO215-S-110208**
KCP4-SO216-S-110208**
KCP4-SO217-B-110208**
KCP4-SO218-S-110208**
KCP4-SO219-S-110208**
KCP4-SO220-S-1102008**
KCP4-SO221-B-110208**
KCP4-SO222-B-110208**
KCP4-SO223-BK-110208TCLP
KCP4-SO224-BK-110208TCLP
KCP4-SO217-D-110208**
KCP4-SO215-S-110208MS
KCP4-SO215-S-110208MSD
KCP4-SO215-S-110208DUP
KCP4-SO223-BK-110208TCLPMS
KCP4-SO223-BK-110208TCLPMSD
KCP4-SO223-BK-110208TCLPDUP

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 18 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Thallium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Samples indicated by a double asterisk on the front cover underwent an EPA Level IV review. An EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
KCP4-SO215-S-110208MS/MSD (KCP4-SO214-S-110208** KCP4-SO215-S-110208** KCP4-SO216-S-110208** KCP4-SO217-B-110208** KCP4-SO218-S-110208** KCP4-SO219-S-110208** KCP4-SO220-S-1102008** KCP4-SO221-B-110208** KCP4-SO222-B-110208** KCP4-SO217-D-110208**)	Mercury	160 (75-125)	-	38 (≤20)	J (all detects) UJ (all non-detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard data were reviewed and within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and RPD problems, mercury results were qualified as estimated in ten samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level III and Level IV data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples KCP4-SO217-B-110208** and KCP4-SO217-D-110208** were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO217-B-110208**	KCP4-SO217-D-110208**	
Antimony	19	20	5 (≤50)
Chromium	32	34	6 (≤50)
Copper	520	550	6 (≤50)
Lead	770	2100	93 (≤50)
Nickel	54	53	2 (≤50)
Zinc	360	480	29 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Metals - Data Qualification Summary - SDG 1102-058

SDG	Sample	Analyte	Flag	A or P	Reason
1102-058	KCP4-SO214-S-110208** KCP4-SO215-S-110208** KCP4-SO216-S-110208** KCP4-SO217-B-110208** KCP4-SO218-S-110208** KCP4-SO219-S-110208** KCP4-SO220-S-1102008** KCP4-SO221-B-110208** KCP4-SO222-B-110208** KCP4-SO217-D-110208**	Mercury	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1102-058

No Sample Data Qualified in this SDG

LDC #: 25616B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6-16-11

SDG #: 1102-058 Level III/IV Page: 1 of 1

Laboratory : OnSite Environmental Inc. Reviewer: MG

2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/7000)/6020 MG

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2-8-11
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	SW	MS/MSD
VII.	Duplicate Sample Analysis	A	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	not utilized
XI.	ICP Serial Dilution	N	not performed
XII.	Sample Result Verification	A	Not reviewed for Level III validation.
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	D = 4+12
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation (all soil)

1 1	KCP4-SO214-S-110208**	11 2	KCP4-SO224-BK-110208TCLP	21		31	
2 1	KCP4-SO215-S-110208**	12 1	KCP4-SO217-D-110208**	22		32	
3 1	KCP4-SO216-S-110208**	13 1	KCP4-SO215-S-110208MS	23		33	
4 1	KCP4-SO217-B-110208**	14 1	KCP4-SO215-S-110208MSD	24		34	
5 1	KCP4-SO218-S-110208**	15 1	KCP4-SO215-S-110208DUP	25		35	
6 1	KCP4-SO219-S-110208**	16 2	KCP4-SO223-BK-110208MS TCLP	26		36	
7 1	KCP4-SO220-S-1102008**	17 2	KCP4-SO223-BK-110208MSD TCLP	27		37	
8 1	KCP4-SO221-B-110208**	18 2	KCP4-SO223-BK-110208DUP TCLP	28		38	
9 1	KCP4-SO222-B-110208**	19		29 1	PBS	39	
10 2	KCP4-SO223-BK-110208TCLP	20		30 2	PBW	40	

Notes:

LDC #: 25616 B4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer:

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.		✓		
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25616B4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1→9, 12	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
10, 11	TCLP	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
QC 13→15	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
↓ 16→18	TCLP	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Analysis Method
ICP	S/TCLP	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
ICP-MS	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,

Comments: Mercury by CVAA if performed

LDC #: 25616B4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: MG
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	13/14	soil	Hg	160 (75-125)		38 (≤20)	1→9, 12	J/UJ/A

Comments:

LDC#: 25616B4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer: LA

METHOD: Metals (EPA Method 6010B/7000)

(Y)N NA Were field duplicate pairs identified in this SDG?
(Y)N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	4	12		
Antimony	19	20	5	
Chromium	32	34	6	
Copper	520	550	6	
Lead	770	2100	93	
Nickel	54	53	2	
Zinc	360	480	29	

V:\FIELD DUPLICATES\FD_inorganic\25616B4.WPD

LDC #: 25616 B4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
0946 ICV	ICP (Initial calibration)	Ni	974.66	1000	-2.5 %D	2.5 %D	Y
1034 ICV	ICP/MS (Initial calibration)	Tl	50.89	50.00	1.8 %D	-1.8 %D	
1144 ICV	CVAA (Initial calibration)	Hg	4.847	5.00	-3.1 %D	3.0 %D	
0954 CCV	ICP (Continuing calibration)	As	956.52	1000	-4.3 %D	4.3 %D	
1108 CCV	ICP/MS (Continuing calibration)	Tl	39.99	40.00	0 %D	0 %D	
1148 CCV	CVAA (Continuing calibration)	Hg	4.974	5.00	-0.52 %D	0.60 %D	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616B4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1005 ICSAB	ICP interference check	Zn	902.68 (µg/L)	1000 (µg/L)	90.3	not reported	Y
1014 LCS	Laboratory control sample	Cr	88.00 (mg/kg)	100 (mg/kg)	88	NR 46 V	
1029 13	Matrix spike	Sb	wet weight (SSR-SR) 85.30 (mg/kg)	wet weight 100 (mg/kg)	85	85	Y
1018/1022 15	Duplicate	Pb	wet weight 14.64 (mg/kg)	wet weight 15.83 (mg/kg)	8	8	Y
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616B4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for # 2, Cr were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(439.18\ \mu g/L)(0.100\ L)}{(2\ g)(0.89)} = 24.67\ \mu g/g \text{ or } mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	2	Cr	25	25	Y
		Cu	15	15	↓
		Pb	16	16	↓
		Ni	43	42	↓
		Zn	26	26	↓

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Kim Clark
Collection Date:	February 8, 2011
LDC Report Date:	June 23, 2011
Matrix:	Soil
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	EPA Level III
Laboratory:	OnSite Environmental, Inc.
Sample Delivery Group (SDG):	1102-058

Sample Identification

KCP4-SO218-S-110208
KCP4-SO221-B-110208
KCP4-SO222-B-110208
KCP4-SO222-B-110208DUP

Introduction

This data review covers 4 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method NWTPH-HCID for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

III. Continuing Calibration

Continuing calibration was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were not required by the method.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level III data validation all results are considered valid and usable for all purposes.

XII. Field Duplicates

No field duplicates were identified in this SDG.

XIII. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 1102-058

No Sample Data Qualified in this SDG

Kim Clark
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 1102-058

No Sample Data Qualified in this SDG

LDC #: 25616B8
SDG #: 1102-058
Laboratory: OnSite Environmental Inc.

VALIDATION COMPLETENESS WORKSHEET
Level III

Date: 6/14/11
Page: 1 of 1
Reviewer: FT
2nd Reviewer: M

METHOD: GC TPH as Extractables (NWTPH-HCID)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/8/11
II	Initial calibration	A	r2
III.	Calibration verification/ICV	A	CCV ±20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates / DUP	N/A	
VII.	Laboratory control samples	N	analyzed for identification only. Not required
VIII.	Target compound identification	N	
IX.	Compound Quantitation and CRQLs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

SOIL

1	KCP4-SO218-S-110208	11	MB020952	21		31	
2	KCP4-SO221-B-110208	12		22		32	
3	KCP4-SO222-B-110208	13		23		33	
4	#3 Dup	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

Kim Clark - LDC 25616

SDG: 02-058

Analytical Method NWTPHHCID

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO218-S-110208	1102-058-05	Residual Range Hydrocarbons	2/9/2011		Yes	Y				190		mg/kg
KCP4-SO218-S-110208	1102-058-05	Diesel #2 Range	2/9/2011	97	Yes	N	U			97		mg/kg
KCP4-SO218-S-110208	1102-058-05	Gasoline Range Hydrocarbons	2/9/2011	39	Yes	N	U			39		mg/kg
KCP4-SO221-B-110208	1102-058-08	Residual Range Hydrocarbons	2/9/2011		Yes	Y				190		mg/kg
KCP4-SO221-B-110208	1102-058-08	Gasoline Range Hydrocarbons	2/9/2011	37	Yes	N	U			37		mg/kg
KCP4-SO221-B-110208	1102-058-08	Diesel #2 Range	2/9/2011		Yes	Y				93		mg/kg
KCP4-SO222-110208	1102-058-09	Residual Range Hydrocarbons	2/9/2011		Yes	Y				150		mg/kg
KCP4-SO222-110208	1102-058-09	Diesel #2 Range	2/9/2011		Yes	Y				74		mg/kg
KCP4-SO222-110208	1102-058-09	Gasoline Range Hydrocarbons	2/9/2011	30	Yes	N	U			30		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-S0223-BK-110208	1102-058-10	Lead	2/9/2011	7.5	Yes	Y				0.2		mg/L
KCP4-S0223-BK-110208	1102-058-10	Copper	2/9/2011	0.02	Yes	N	U			0.02		mg/L
KCP4-S0224-BK-110208	1102-058-11	Copper	2/9/2011	0.02	Yes	N	U			0.02		mg/L
KCP4-S0224-BK-110208	1102-058-11	Lead	2/9/2011	0.2	Yes	N	U			0.2		mg/L
KCP4-SO214-S-110208	1102-058-01	Copper	2/9/2011	52	Yes	Y				1.2		mg/kg
KCP4-SO214-S-110208	1102-058-01	Chromium	2/9/2011	20	Yes	Y				0.58		mg/kg
KCP4-SO214-S-110208	1102-058-01	Arsenic	2/9/2011	12	Yes	N	U			12		mg/kg
KCP4-SO214-S-110208	1102-058-01	Antimony	2/9/2011	5.8	Yes	N	U			5.8		mg/kg
KCP4-SO214-S-110208	1102-058-01	Nickel	2/9/2011	19	Yes	Y				2.9		mg/kg
KCP4-SO214-S-110208	1102-058-01	Lead	2/9/2011	7.9	Yes	Y				5.8		mg/kg
KCP4-SO214-S-110208	1102-058-01	Zinc	2/9/2011	57	Yes	Y				2.9		mg/kg
KCP4-SO215-S-110208	1102-058-02	Copper	2/9/2011	15	Yes	Y				1.1		mg/kg
KCP4-SO215-S-110208	1102-058-02	Zinc	2/9/2011	26	Yes	Y				2.8		mg/kg

SDG: 02-058

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO215-S-110208	1102-058-02	Arsenic	2/9/2011	11	Yes	N	U			11		mg/kg
KCP4-SO215-S-110208	1102-058-02	Antimony	2/9/2011	5.6	Yes	N	U			5.6		mg/kg
KCP4-SO215-S-110208	1102-058-02	Nickel	2/9/2011	43	Yes	Y				2.8		mg/kg
KCP4-SO215-S-110208	1102-058-02	Lead	2/9/2011	16	Yes	Y				5.6		mg/kg
KCP4-SO215-S-110208	1102-058-02	Chromium	2/9/2011	25	Yes	Y				0.56		mg/kg
KCP4-SO216-S-110208	1102-058-03	Copper	2/9/2011	36	Yes	Y				1.2		mg/kg
KCP4-SO216-S-110208	1102-058-03	Chromium	2/9/2011	28	Yes	Y				0.58		mg/kg
KCP4-SO216-S-110208	1102-058-03	Lead	2/9/2011	930	Yes	Y				5.8		mg/kg
KCP4-SO216-S-110208	1102-058-03	Zinc	2/9/2011	33	Yes	Y				2.9		mg/kg
KCP4-SO216-S-110208	1102-058-03	Arsenic	2/9/2011	12	Yes	N	U			12		mg/kg
KCP4-SO216-S-110208	1102-058-03	Antimony	2/9/2011	5.8	Yes	N	U			5.8		mg/kg
KCP4-SO216-S-110208	1102-058-03	Nickel	2/9/2011	51	Yes	Y				2.9		mg/kg
KCP4-SO217-B-110208	1102-058-04	Nickel	2/9/2011	54	Yes	Y				6.2		mg/kg
KCP4-SO217-B-110208	1102-058-04	Chromium	2/9/2011	32	Yes	Y				1.2		mg/kg
KCP4-SO217-B-110208	1102-058-04	Arsenic	2/9/2011	25	Yes	N	U			25		mg/kg
KCP4-SO217-B-110208	1102-058-04	Copper	2/9/2011	520	Yes	Y				2.5		mg/kg
KCP4-SO217-B-110208	1102-058-04	Lead	2/9/2011	770	Yes	Y				12		mg/kg
KCP4-SO217-B-110208	1102-058-04	Antimony	2/9/2011	19	Yes	Y				12		mg/kg
KCP4-SO217-B-110208	1102-058-04	Zinc	2/9/2011	360	Yes	Y				6.2		mg/kg
KCP4-SO217-D-110208	1102-058-12	Antimony	2/9/2011	20	Yes	Y				12		mg/kg
KCP4-SO217-D-110208	1102-058-12	Arsenic	2/9/2011	23	Yes	N	U			23		mg/kg
KCP4-SO217-D-110208	1102-058-12	Chromium	2/9/2011	34	Yes	Y				1.2		mg/kg
KCP4-SO217-D-110208	1102-058-12	Copper	2/9/2011	550	Yes	Y				2.3		mg/kg
KCP4-SO217-D-110208	1102-058-12	Zinc	2/9/2011	480	Yes	Y				5.9		mg/kg
KCP4-SO217-D-110208	1102-058-12	Lead	2/9/2011	2100	Yes	Y				12		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO217-D-110208	1102-058-12	Nickel	2/9/2011	53		Yes	Y				5.9		mg/kg
KCP4-SO218-S-110208	1102-058-05	Copper	2/9/2011	59		Yes	Y				1.9		mg/kg
KCP4-SO218-S-110208	1102-058-05	Lead	2/9/2011	27		Yes	Y				9.7		mg/kg
KCP4-SO218-S-110208	1102-058-05	Nickel	2/9/2011	38		Yes	Y				4.9		mg/kg
KCP4-SO218-S-110208	1102-058-05	Antimony	2/9/2011	9.7		Yes	N	U			9.7		mg/kg
KCP4-SO218-S-110208	1102-058-05	Chromium	2/9/2011	34		Yes	Y				0.97		mg/kg
KCP4-SO218-S-110208	1102-058-05	Zinc	2/9/2011	140		Yes	Y				4.9		mg/kg
KCP4-SO218-S-110208	1102-058-05	Arsenic	2/9/2011	19		Yes	N	U			19		mg/kg
KCP4-SO219-S-110208	1102-058-06	Lead	2/9/2011	49		Yes	Y				9.6		mg/kg
KCP4-SO219-S-110208	1102-058-06	Zinc	2/9/2011	17		Yes	Y				4.8		mg/kg
KCP4-SO219-S-110208	1102-058-06	Copper	2/9/2011	290		Yes	Y				1.9		mg/kg
KCP4-SO219-S-110208	1102-058-06	Chromium	2/9/2011	40		Yes	Y				0.96		mg/kg
KCP4-SO219-S-110208	1102-058-06	Arsenic	2/9/2011	19		Yes	N	U			19		mg/kg
KCP4-SO219-S-110208	1102-058-06	Antimony	2/9/2011	9.6		Yes	N	U			9.6		mg/kg
KCP4-SO219-S-110208	1102-058-06	Nickel	2/9/2011	11		Yes	Y				4.8		mg/kg
KCP4-SO220-S-110208	1102-058-07	Lead	2/9/2011	30		Yes	Y				6		mg/kg
KCP4-SO220-S-110208	1102-058-07	Antimony	2/9/2011	6		Yes	N	U			6		mg/kg
KCP4-SO220-S-110208	1102-058-07	Arsenic	2/9/2011	12		Yes	N	U			12		mg/kg
KCP4-SO220-S-110208	1102-058-07	Copper	2/9/2011	24		Yes	Y				1.2		mg/kg
KCP4-SO220-S-110208	1102-058-07	Chromium	2/9/2011	43		Yes	Y				0.6		mg/kg
KCP4-SO220-S-110208	1102-058-07	Zinc	2/9/2011	58		Yes	Y				3		mg/kg
KCP4-SO220-S-110208	1102-058-07	Nickel	2/9/2011	56		Yes	Y				3		mg/kg
KCP4-SO221-B-110208	1102-058-08	Nickel	2/9/2011	13		Yes	Y				4.6		mg/kg
KCP4-SO221-B-110208	1102-058-08	Zinc	2/9/2011	79		Yes	Y				4.6		mg/kg
KCP4-SO221-B-110208	1102-058-08	Lead	2/9/2011	67		Yes	Y				9.3		mg/kg

SDG: 02-058

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO221-B-110208	1102-058-08	Copper	2/9/2011	82		Yes	Y				1.9		mg/kg
KCP4-SO221-B-110208	1102-058-08	Antimony	2/9/2011	9.3		Yes	N	U			9.3		mg/kg
KCP4-SO221-B-110208	1102-058-08	Arsenic	2/9/2011	19		Yes	N	U			19		mg/kg
KCP4-SO221-B-110208	1102-058-08	Chromium	2/9/2011	9.5		Yes	Y				0.93		mg/kg
KCP4-SO222-B-110208	1102-058-09	Nickel	2/9/2011	23		Yes	Y				3.7		mg/kg
KCP4-SO222-B-110208	1102-058-09	Lead	2/9/2011	280		Yes	Y				7.4		mg/kg
KCP4-SO222-B-110208	1102-058-09	Antimony	2/9/2011	7.4		Yes	Y				7.4		mg/kg
KCP4-SO222-B-110208	1102-058-09	Arsenic	2/9/2011	15		Yes	N	U			15		mg/kg
KCP4-SO222-B-110208	1102-058-09	Chromium	2/9/2011	44		Yes	Y				0.74		mg/kg
KCP4-SO222-B-110208	1102-058-09	Copper	2/9/2011	1600		Yes	Y				15		mg/kg
KCP4-SO222-B-110208	1102-058-09	Zinc	2/9/2011	39		Yes	Y				3.7		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO214-S-110208	1102-058-01	Thallium	2/9/2011	1.4		Yes	N	U			1.4		mg/kg
KCP4-SO215-S-110208	1102-058-02	Thallium	2/9/2011	1.4		Yes	N	U			1.4		mg/kg
KCP4-SO216-S-110208	1102-058-03	Thallium	2/9/2011	1.4		Yes	N	U			1.4		mg/kg
KCP4-SO217-B-110208	1102-058-04	Thallium	2/9/2011	3.1		Yes	N	U			3.1		mg/kg
KCP4-SO217-D-110208	1102-058-12	Thallium	2/9/2011	2.9		Yes	N	U			2.9		mg/kg
KCP4-SO218-S-110208	1102-058-05	Thallium	2/9/2011	2.4		Yes	N	U			2.4		mg/kg
KCP4-SO219-S-110208	1102-058-06	Thallium	2/9/2011	2.4		Yes	N	U			2.4		mg/kg
KCP4-SO220-S-110208	1102-058-07	Thallium	2/9/2011	1.5		Yes	N	U			1.5		mg/kg
KCP4-SO221-B-110208	1102-058-08	Thallium	2/9/2011	2.3		Yes	N	U			2.3		mg/kg
KCP4-SO222-B-110208	1102-058-09	Thallium	2/9/2011	1.9		Yes	N	U			1.9		mg/kg

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units

SDG: 02-058

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO214-S-110208	1102-058-01	Mercury	2/9/2011	0.29	Yes	N	U	UJ	9	0.29		mg/kg
KCP4-SO215-S-110208	1102-058-02	Mercury	2/9/2011	0.28	Yes	N	U	UJ	9	0.28		mg/kg
KCP4-SO216-S-110208	1102-058-03	Mercury	2/9/2011	2.4	Yes	Y		J	8,9	1.4		mg/kg
KCP4-SO217-B-110208	1102-058-04	Mercury	2/9/2011	0.62	Yes	N	U	UJ	9	0.62		mg/kg
KCP4-SO217-D-110208	1102-058-12	Mercury	2/9/2011	0.59	Yes	N	U	UJ	9	0.59		mg/kg
KCP4-SO218-S-110208	1102-058-05	Mercury	2/9/2011	0.49	Yes	N	U	UJ	9	0.49		mg/kg
KCP4-SO219-S-110208	1102-058-06	Mercury	2/9/2011	0.48	Yes	N	U	UJ	9	0.48		mg/kg
KCP4-SO220-S-110208	1102-058-07	Mercury	2/9/2011	0.3	Yes	N	U	UJ	9	0.3		mg/kg
KCP4-SO221-B-110208	1102-058-08	Mercury	2/9/2011	0.46	Yes	N	U	UJ	9	0.46		mg/kg
KCP4-SO222-B-110208	1102-058-09	Mercury	2/9/2011	0.37	Yes	N	U	UJ	9	0.37		mg/kg

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Kim Clark
Collection Date:	March 15, 2011
LDC Report Date:	June 17, 2011
Matrix:	Soil
Parameters:	Metals
Validation Level:	EPA Level IV
Laboratory:	OnSite Environmental, Inc.
Sample Delivery Group (SDG):	1103-131

Sample Identification

KCP4-SO245-B-150311
KCP4-SO245-D-150311
KCP4-SO246-S-150311
KCP4-SO246-S-150311MS
KCP4-SO246-S-150311MSD
KCP4-SO246-S-150311DUP

Introduction

This data review covers 6 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Thallium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
KCP4-SO246-S-150311DUP (All samples in SDG 1103-131)	Zinc	23 (≤20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard data were reviewed and within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to DUP sample RPD problems, zinc results were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level IV data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples KCP4-SO245-B-150311 and KCP4-SO245-D-150311 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO245-B-150311	KCP4-SO245-D-150311	
Chromium	30	33	10 (≤50)
Copper	400	470	16 (≤50)

Analyte	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO245-B-150311	KCP4-SO245-D-150311	
Lead	520	380	31 (≤50)
Nickel	35	42	18 (≤50)
Zinc	160	190	17 (≤50)

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Metals - Data Qualification Summary - SDG 1103-131

SDG	Sample	Analyte	Flag	A or P	Reason
1103-131	KCP4-SO245-B-150311 KCP4-SO245-D-150311 KCP4-SO246-S-150311	Zinc	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD)

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1103-131

No Sample Data Qualified in this SDG

LDC #: 25616C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6-16-11
SDG #: 1103-131 Level IV Page: 1 of 1
Laboratory : OnSite Environmental Inc. MG. Reviewer: MG
2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/7000)/6020

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3-15-11
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	A	MS/MSD
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)		LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	not utilized
XI.	ICP Serial Dilution	N	not performed
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	D = 1+2
XV	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: all soil

1	KCP4-SO245-B-150311	11		21		31	
2	KCP4-SO245-D-150311	12		22		32	
3	KCP4-SO246-S-150311	13		23		33	
4	KCP4-SO246-S-150311MS	14		24		34	
5	KCP4-SO246-S-150311MSD	15		25		35	
6	KCP4-SO246-S-150311DUP	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20	PBS	30		40	

Notes: Pb in #6 (DUP) ok by diff.

LDC #: 25616C4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: [illegible]

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.		✓		
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?				

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25616C4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1→3	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
QC 4→6	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,
Analysis Method		
ICP	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
ICP-MS	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ____
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻

Comments: Mercury by CVAA if performed

LDC #: 25616C4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L. for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
1		6	Soil	Zn	23 (≤ 20)	~~0~~	all	J/UJ/A

Comments:

LDC#: 25616C4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Metals (EPA Method 6010B/7000)

(Y)N NA Were field duplicate pairs identified in this SDG?
(Y)N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	1	2		
Chromium	30	33	10	
Copper	400	470	16	
Lead	520	380	31	
Nickel	35	42	18	
Zinc	160	190	17	

V:\FIELD DUPLICATES\FD_inorganic\25616C4.WPD

LDC #: 25616C4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
0941 ICV	ICP (Initial calibration)	Zn	976.15	1000	-2.4 %D	2.4 %D	Y
1241 ICV	ICP/MS (Initial calibration)	Tl	51.22	50.00	2.4 %D	-2.4 %D	
1104 ICV	CVAA (Initial calibration)	Hg	4.999	5.0	0 %D	0 %D	
1038 CCV	ICP (Continuing calibration)	Pb	9998.2	10000	0 %D	0 %D	
1326 CCV	ICP/MS (Continuing calibration)	Tl	39.15	40.00	-2.1 %D	2.0 %D	
1108 CCV	CVAA (Continuing calibration)	Hg	5.053	5.0	1.1 %D	-1.0 %D	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616C4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1000 ICSAB	ICP interference check	Cr	453.77 (µg/L)	500 (µg/L)	91	not reported	Y
1109 LCS	Laboratory control sample	As	98.34 (mg/kg)	100 (mg/kg)	98	✓ ~~2~~ NR	
1036 4	Matrix spike	Ni	wet weight (SSR-SR) 100.08 (mg/kg)	wet weight 100 (mg/kg)	100	100	Y
1015 / 1019 6	Duplicate	Zn	wet weight 51.34 (mg/kg)	wet weight 64.46 (mg/kg)	23	23	↓
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616C4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for #3, Cr were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(339.78\ \mu g/L)(0.100L)}{(2\ g)\ (0.87)} = 19.53\ \mu g/g \text{ or } mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	3	Cr	20	20	Y
		Cu	20	20	↓
		Pb	8.3	8.3	↓
		Ni	20	20	↓
		Zn	59	59	↓

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Kim Clark
Collection Date:	March 15, 2011
LDC Report Date:	June 17, 2011
Matrix:	Soil
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	EPA Level IV
Laboratory:	OnSite Environmental, Inc.
Sample Delivery Group (SDG):	1103-131

Sample Identification

KCP4-SO245-B-150311
KCP4-SO245-D-150311
KCP4-SO246-S-150311
KCP4-SO246-S-150311DUP

Introduction

This data review covers 4 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method NWTPH-DX for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

III. Continuing Calibration

Continuing calibration was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level IV data validation all results are considered valid and usable for all purposes.

XII. Field Duplicates

Samples KCP4-SO245-B-150311 and KCP4-SO245-D-150311 were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD (Limits)
	KCP4-SO245-B-150311	KCP4-SO245-D-150311	
TPH as lube oil	1800	1600	12 (≤50)

XIII. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 1103-131

No Sample Data Qualified in this SDG

Kim Clark
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 1103-131

No Sample Data Qualified in this SDG

LDC #: 25616C8

SDG #: 1103-131

Laboratory: OnSite Environmental Inc.

VALIDATION COMPLETENESS WORKSHEET

Level ~~IV~~ ~~IV~~ IV

Date: 6/14/11

Page: 1 of 1

Reviewer: EJ

2nd Reviewer: M

METHOD: GC TPH as Extractables (NWTPH-~~HCID~~) ~~HCID~~ ~~Dx~~ Dx

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/15/11
II	Initial calibration	A	~~%RSD ≤ 20~~ r2
III.	Calibration verification/~~ICV~~	A	CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates /DUP	N/A	client specified
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	~~A~~ ~~N~~	
IX.	Compound Quantitation and CRQLs	~~A~~ ~~N~~	
X.	System Performance	~~A~~ ~~N~~	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 1, 2
XIII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1†	KCP4-SO245-B-150311	11	MB031752	21		31	
2†	KCP4-SO245-D-150311	12		22		32	
3	KCP4-SO246-S-150311	13		23		33	
4	#3 DUP	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25616 CS
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: M

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25616C8
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25616G

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were field duplicate pairs identified in this SDG?

Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (mg/kg)		%RPD Limit ≤50	Qualification Parent only / All Samples
	1	2		
Lube Oil	1800	1600	12	

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC # 25616 C8
SDG# pc cour

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: NWTPH-dx

Parameter: Lube Oil

Date	Instrument	Compound	Y	X	
08/20/2010	Rear column	Lube Oil	113797399.00000	40.00000	
			245040429.00000	100.00000	
			1168750675.00000	500.00000	
			2286148013.00000	1000.00000	
			5598028123.00000	2500.00000	

Regression Output:		Regression Output:	**Reported**	
Constant		36906022.57337		2.445E+006
Std Err of Y Est		20068839.75602		
R Squared		0.99994		0.99989
No. of Observations		5.00000		
Degrees of Freedom		3.00000		
X Coefficient(s)	2.229E+006	2.32150E-007	2.244E+006	
Std Err of Coef.	9931.078475	0.00		

LDC # 25616c8
SDG# all coul

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: NWTPH-dx

Parameter: Diesel

Date	Instrument	Compound	Y	X	
08/12/2010	Rear column	Diesel	39652432.00000	10.00000	
			60798273.00000	20.00000	
			248537042.00000	100.00000	
			1188673055.00000	500.00000	
			2324736145.00000	1000.00000	
			5887154963.00000	2500.00000	
			11845492287.0	5000.00000	

Regression Output:		Regression Output:	Reported	
Constant		359733.78641		2.33E+006
Std Err of Y Est		25705244.99150		
R Squared		0.99997		0.99956
No. of Observations		7.00000		
Degrees of Freedom		5.00000		
X Coefficient(s)	2.365E+006	2.32150E-007	2.330E+006	
Std Err of Coef.	5663.216193	0.00		

LDC #: 25616C8
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: F2
2nd Reviewer:

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV0318R-V1	3/18/11	Diesel	100	103	103	3	3
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 51616C8
SDG #: see cover

METHOD: ✓ GC __ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
o-Terphenyl	NS	50	52.402	105	105	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25616C8
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
2nd Reviewer: [illegible]

METHOD: __GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: WC5

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)	100	NA	117	NA	117	117	NA			
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 256/6C y
SDG #: *see cover*

Reviewer: *[initials]*
2nd Reviewer: *[initials]*

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: ✓ GC ___ HPLC

(Y) N N/A Were all reported results recalculated and verified for all level IV samples?
(Y) N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration = $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name Lube Oil

Concentration = ______

$y = mx + b$

$= 2.44\times10^{6}(x) + 2.445\times10^{7}$

$715613810 = 2.44\times10^{6}(x) + 2.445\times10^{7}$

$x = 308$

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications
		final conc =	$\frac{(308)(20)}{(20)(0.17)}$		
		=	~~18~~ 1811 mg/kg		

Comments: ______

SAMPCALew.wpd

Kim Clark - LDC 25616

SDG: 03-131

Analytical Method NWTPHDx

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO245-B-150311	1103-131-01	Residual Range Hydrocarbons	3/18/2011	1800	Yes	Y				300		mg/kg
KCP4-SO245-B-150311	1103-131-01	Diesel Range Hydrocarbons	3/18/2011	400	Yes	N	"U,U1"			400		mg/kg
KCP4-SO245-D-150311	1103-131-02	Residual Range Hydrocarbons	3/18/2011	1600	Yes	Y				290		mg/kg
KCP4-SO245-D-150311	1103-131-02	Diesel Range Hydrocarbons	3/18/2011	420	Yes	N	"U,U1"			420		mg/kg
KCP4-SO246-S-150311	1103-131-03	Diesel Range Hydrocarbons	3/18/2011	29	Yes	N	U			29		mg/kg
KCP4-SO246-S-150311	1103-131-03	Residual Range Hydrocarbons	3/18/2011	58	Yes	N	U			58		mg/kg

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO245-B-150311	1103-131-01	Antimony	3/16/2011	30	Yes	N	U			30		mg/kg
KCP4-SO245-B-150311	1103-131-01	Nickel	3/16/2011	35	Yes	Y				15		mg/kg
KCP4-SO245-B-150311	1103-131-01	Chromium	3/16/2011	30	Yes	Y				3		mg/kg
KCP4-SO245-B-150311	1103-131-01	Lead	3/16/2011	520	Yes	Y				30		mg/kg
KCP4-SO245-B-150311	1103-131-01	Copper	3/16/2011	400	Yes	Y				6		mg/kg
KCP4-SO245-B-150311	1103-131-01	Zinc	3/16/2011	160	Yes	Y		J	9	15		mg/kg
KCP4-SO245-D-150311	1103-131-02	Lead	3/16/2011	380	Yes	Y				29		mg/kg
KCP4-SO245-D-150311	1103-131-02	Antimony	3/16/2011	29	Yes	N	U			29		mg/kg
KCP4-SO245-D-150311	1103-131-02	Chromium	3/16/2011	33	Yes	Y				2.9		mg/kg
KCP4-SO245-D-150311	1103-131-02	Copper	3/16/2011	470	Yes	Y				5.9		mg/kg
KCP4-SO245-D-150311	1103-131-02	Zinc	3/16/2011	190	Yes	Y		J	9	15		mg/kg
KCP4-SO245-D-150311	1103-131-02	Nickel	3/16/2011	42	Yes	Y				15		mg/kg
KCP4-SO246-S-150311	1103-131-03	Copper	3/16/2011	20	Yes	Y				1.1		mg/kg
KCP4-SO246-S-150311	1103-131-03	Lead	3/16/2011	8.3	Yes	Y				5.7		mg/kg
KCP4-SO246-S-150311	1103-131-03	Nickel	3/16/2011	20	Yes	Y				2.9		mg/kg
KCP4-SO246-S-150311	1103-131-03	Chromium	3/16/2011	20	Yes	Y				0.57		mg/kg

SDG: 03-131

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO246-S-150311	1103-131-03	Zinc	3/16/2011	59	Yes	Y		J	9	2.9		mg/kg
KCP4-SO246-S-150311	1103-131-03	Antimony	3/16/2011	5.7	Yes	N	U			5.7		mg/kg

Analytical Method SW6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO245-B-150311	1103-131-01	Thallium	3/16/2011	3.7	Yes	N	U			3.7		mg/kg
KCP4-SO245-B-150311	1103-131-01	Arsenic	3/16/2011	15	Yes	N	U			15		mg/kg
KCP4-SO245-D-150311	1103-131-02	Arsenic	3/16/2011	15	Yes	N	U			15		mg/kg
KCP4-SO245-D-150311	1103-131-02	Thallium	3/16/2011	3.7	Yes	N	U			3.7		mg/kg
KCP4-SO246-S-150311	1103-131-03	Thallium	3/16/2011	0.72	Yes	N	U			0.72		mg/kg
KCP4-SO246-S-150311	1103-131-03	Arsenic	3/16/2011	2.9	Yes	N	U			2.9		mg/kg

Analytical Method SW7471A

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO245-B-150311	1103-131-01	Mercury	3/16/2011	1.5	Yes	N	U			1.5		mg/kg
KCP4-SO245-D-150311	1103-131-02	Mercury	3/16/2011	1.5	Yes	N	U			1.5		mg/kg
KCP4-SO246-S-150311	1103-131-03	Mercury	3/16/2011	0.29	Yes	N	U			0.29		mg/kg

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Kim Clark

Collection Date: April 11, 2011

LDC Report Date: June 15, 2011

Matrix: Soil

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level IV

Laboratory: OnSite Environmental, Inc.

Sample Delivery Group (SDG): 1104-097

Sample Identification

KCP4-SO248-B-110414
KCP4-SO248-B-110414MS
KCP4-SO248-B-110414MSD

Introduction

This data review covers 3 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per a modification of EPA SW 846 Method 8270D using Selected Ion Monitoring (SIM) for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were not performed.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

The analysis was conducted within all specifications of the method with the exception noted in Section VIII. Since the MS/MSD %Rs and RPDs were within QC limits, no data were qualified due to the absence of an LCS.

No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the Level IV data validation all results are considered valid and usable for all purposes.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 1104-097

No Sample Data Qualified in this SDG

Kim Clark
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 1104-097

No Sample Data Qualified in this SDG

LDC #: 25616D2b

SDG #: 1104-097

Laboratory: OnSite Environmental Inc.

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 6/14/11

Page: 1 of 1

Reviewer: EJ

2nd Reviewer: M

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 4/4/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%D ≤ 30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	N	not performed
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	KCP4-SO248-B-110414	11	MB041551	21		31	
2	KCP4-SO248-B-110414MS	12		22		32	
3	KCP4-SO248-B-110414MSD	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 35616D2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: [illegible]

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
[illegible]				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
[illegible]				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
[illegible]				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
[illegible]				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
[illegible]				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
[illegible]				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
[illegible]				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
[illegible]				
Was an LCS analyzed for this SDG?		✓		LCS not performed

LDC #: 25616D2h

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: M

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	#	✓		
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	#		✓	
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within + 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 25616026

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (200std)	Recalculated RRF (200std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	4/5/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	1.29422	1.294	1.3661	1.366	8.03	8.03
			~~Fluorene~~ Acenaphthene (3rd internal standard)	1.6027	1.603	1.6826	1.6826	7.70	7.70
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.3603	1.360	1.4305	1.4305	5.49	5.49
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.3093	1.309	1.3543	1.3543	5.86	5.86
			Benzo(a)pyrene (6th internal standard)	1.4882	1.488	1.5848	1.5848	6.31	6.31
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616D2-6

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	4/18/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.3661	1.259	1.259	7.8	7.8
			~~Fluorene~~ Acenaphthene (3rd internal standard)	1.6826	1.624	1.624	3.5	3.5
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.4305	1.358	1.358	5.0	5.0
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.3543	1.171	1.171	13.5	13.5
			Benzo(a)pyrene (6th internal standard)	1.584K	1.439	1.439	9.2	9.2
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616D26

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~					
2-Fluorobiphenyl	1000	867.36	87	87	0
~~Terphenyl-d14~~ Pyrene d10	↓	992.77	89	89	↓
~~Phenol-d5~~ Terphenyl-d14	↓	882.02	88	88	↓
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25616p2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 2 + 3

Compound	Spike Added (mg/kg)		Sample Concentration (mg/kg)	Spiked Sample Concentration (mg/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	0.0833	0.0833	ND	0.0701	0.0671	84	84	81	81	4	4
Pentachlorophenol											
Pyrene	↓	↓	0.00875	0.0727	0.0713	77	77	75	75	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616D2b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_t	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, pyrene

Conc. = (6313)(2000)(5)( )( )( )
(~~154790~~ 145042)(1.6587)(0.92)(30)(1000)
=

0.0095 mg/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Kim Clark
Collection Date:	April 14, 2011
LDC Report Date:	June 22, 2011
Matrix:	Soil
Parameters:	Metals
Validation Level:	EPA Level III & IV
Laboratory:	OnSite Environmental, Inc.
Sample Delivery Group (SDG):	1104-097

Sample Identification

KCP4-SO249-B-110414**
KCP4-SO250-B-110414**
KCP4-SO251-BK-110414TCLP
KCP4-SO249-B-110414MS
KCP4-SO249-B-110414MSD
KCP4-SO249-B-110414DUP

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 6 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B for Metals. The metals analyzed were Chromium and Lead.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Samples indicated by a double asterisk on the front cover underwent an EPA Level IV review. An EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS was not utilized in this SDG.

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
KCP4-SO249-B-110414DUP (KCP4-SO249-B-110414 KCP4-SO250-B-110414)	Chromium	27 (≤20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

ICP-MS was not utilized in this SDG.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XII. Sample Result Verification

All sample result verifications were acceptable for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to DUP sample RPD problems, chromium results were qualified as estimated in two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Level III and Level IV data validation all other results are considered valid and usable for all purposes.

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Kim Clark
Metals - Data Qualification Summary - SDG 1104-097

SDG	Sample	Analyte	Flag	A or P	Reason
1104-097	KCP4-SO249-B-110414** KCP4-SO250-B-110414**	Chromium	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD)

Kim Clark
Metals - Laboratory Blank Data Qualification Summary - SDG 1104-097

No Sample Data Qualified in this SDG

LDC #: 25616D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6-16-11
SDG #: 1104-097 Level IV / III Page: 1 of 1
Laboratory : OnSite Environmental Inc. MG. Reviewer: MG
2nd Reviewer: L

METHOD: Metals (EPA SW 846 Method 6010B/~~7000~~)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 4-14-11
II.	ICP/MS Tune	N	not utilized
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	A	
VI.	Matrix Spike Analysis	A	MS/MSD
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	not utilized
X.	Furnace Atomic Absorption QC	N	" "
XI.	ICP Serial Dilution	N	not performed
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: all soil ** Level IV

1	KCP4-SO249-B-110414 **	11		21		31	
2	KCP4-SO250-B-110414 **	12		22		32	
3 2	KCP4-SO251-BK-110414TCLP	13		23		33	
4	KCP4-SO249-B-110414MS	14		24		34	
5	KCP4-SO249-B-110414MSD	15		25		35	
6	KCP4-SO249-B-110414DUP	16		26		36	
7		17		27		37	
8		18		28		38	
9		19 1	PBS	29		39	
10		20 2	PBW	30		40	

Notes:

LDC #: 25616D4

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: MV

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?			✓	
Were %RSD of isotopes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.		✓		
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25616D4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MG
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1, 2	S	Al, Sb, As, Ba, Be, Cd, Ca, **Cr**, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
3	TCLP	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, **Pb**, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
QC 4→6	S	Al, Sb, As, Ba, Be, Cd, Ca, **Cr**, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
Analysis Method		
ICP	S/TCLP	Al, Sb, As, Ba, Be, Cd, Ca, **Cr**, Co, Cu, Fe, **Pb**, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN^-

Comments: Mercury by CVAA if performed

LDC #: 25616D4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Reviewer: MG
2nd Reviewer: [signature]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L. for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
1		6	soil	Cr	27 (≤ 20)		1, 2	J / UJ / A

Comments:

LDC #: 25616D4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
0851 ICV	ICP (Initial calibration)	Cr	1062.2	1000.0	6.2 %D	-6.0 %D	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
1110 CCV	ICP (Continuing calibration)	Cr	1042.2	1000.0	4.2 %D	-4.0 %D	
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616D4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
0917 ICSAB	ICP interference check	Cr	476.49 (µg/L)	500 (µg/L)	95	not reported	Y
1039 LCS	Laboratory control sample	Cr	104.02 (mg/kg)	100 (mg/kg)	104	104	
1054 4	Matrix spike	Cr	wet weight (SSR-SR) 82.57 (mg/kg)	wet weight 100 (mg/kg)	83	83	
1042 / 1046 6	Duplicate	Cr	wet weight 55.68 (mg/kg)	wet weight 42.57 (mg/kg)	27	27	
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25616 D4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for #1, Cr were recalculated and verified using the following equation:

Concentration = (RD)(FV)(Dil) / (In. Vol.)

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(1113.6\ \mu g/L)(0.100\ L)}{(2\ g)(0.92)} = 60.52\ \mu g/g \text{ or } mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
1	1	Cr	62	61	Y

Note:

Kim Clark - LDC 25616

SDG: 04-097

Analytical Method SW6010B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO249-B-110414	1104-097-02	Chromium	4/18/2011	62		Yes	Y		J	9	0.56		mg/kg
KCP4-SO250-B-110414	1104-097-03	Chromium	4/18/2011	56		Yes	Y		J	9	0.57		mg/kg
KCP4-SO251-BK-110414	1104-097-04	Lead	4/19/2011	0.2		Yes	N	U			0.2		mg/L

Analytical Method SW8270DSIM

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Mod Res	Report	Detect	Lab Qual	Val Qual	Reason	RL	MDL	Units
KCP4-SO248-B-110414	1104-097-01	Benzo(a)pyrene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Anthracene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Pyrene	4/18/2011	0.0096		Yes	Y				0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Benzo(g,h,i)perylene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Indeno(1,2,3-c,d)pyrene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Benzo(b)fluoranthene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Fluoranthene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Benzo(k)fluoranthene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Chrysene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Dibenzo(a,h)anthracene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Benzo(a)anthracene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Acenaphthene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Phenanthrene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Fluorene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	1-Methylnaphthalene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Naphthalene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	2-Methylnaphthalene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg
KCP4-SO248-B-110414	1104-097-01	Acenaphthylene	4/18/2011	0.0073		Yes	N	U			0.0073		mg/kg

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Hydrocarbon Data Report

Client Name: Concrete Nor West
PO BOX 280
Mount Vernon, WA 98273

Reference Number: **09-08638**
Project: Scott Paper Mill, POA
Report Date: 6/17/09
Date Received: 6/15/09
Peer Review:

Sample Description: Pit Run Screenings - Boulder Hill Site
Lab Number: 18129
Date 6/16/09

Sample Date: 6/15/09
Collected By: Unknown
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
GASOLINE (C8 - C12)	**ND**		1	100	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_09061€	
DIESEL (C12 - C24)	**ND**		1	2000	100	50	mg/Kg	NWTPH-HCID/3550B	HCIDS_09061€	
HEAVY HYDROCARBONS (>C24)	**ND**		1	2000	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_09061€	

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.
Form: cHCID.rpt

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-08638
Report Date: 06/17/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
HCIDS_090616						
18129	O-TERPHENYL	99		%	NWTPH-HCID	

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

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Data Report

Client Name: Concrete Nor West
PO BOX 280
Mount Vernon, WA 98273

Reference Number: **09-08638**
Project: Scott Paper Mill, POA
Report Date: 6/17/09
Date Received: 6/15/09
Peer Review:

Sample Description: Pit Run Screenings - Boulder Hill Site
Lab Number: 18129
Sample Date: 6/15/09
Collected By: Unknown

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
7440-41-7	**BERYLLIUM**	ND	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-47-3	**CHROMIUM**	25.0	10.9		mg/Kg	10	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-02-0	**NICKEL**	36.1	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-50-8	**COPPER**	16.9	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-66-6	**ZINC**	26.4	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-38-2	**ARSENIC**	ND	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7782-49-2	**SELENIUM**	ND	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-22-4	**SILVER**	ND	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-43-9	**CADMIUM**	ND	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-36-0	**ANTIMONY**	ND	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7440-28-0	**THALLIUM**	ND	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7439-92-1	**LEAD**	2.11	1.09		mg/Kg	1	6010B/3051	6/16/09	BJ	6010B-090616A	
7439-97-6	**MERCURY**	0.01	0.01		mg/Kg	1	7471A	6/16/09	CCN	HG_090616	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: cRslt_2.rpt

Letter of Transmittal

TO: Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA
98101

Date:	12-17-2009
Project:	Former Scott Paper Mill - Phase #4A
ATTN:	John Laplante, PE
RE:	Submittals

We are sending you the following: ☒ Attached ☐ Under Separate Cover

The following items: ☐ Shop drawings ☐ Prints ☐ Plans ☒ Request for Approval of Material ☐ Requisitions ☐ Change Orders ☐ Samples ☐ _____

Copies	Date	No.	Description
1		002D	Concrete Nor'West -Pipe Bedding (3/8" Pea Gravel) -WSDOT Pit #M145
			Concrete Nor'West Chemical Analysis (Source Material)

These are transmitted as indicated below:

☐ For your use ☐ Approval as noted ☒ For Approval ☐ As requested
☐ Approved for Construction ☐ For review and comment ☐ Returned for corrections
☐ For payment ☐ Return ☐ Corrected Prints ☐ For bids due: _____

Received By: _____ Date: _____

From: Lou Ivcevic

Title: Project Manager

Copy to: _____

☐ Recipient's Copy
☐ Sign & Return
☐ File Copy

Washington State Department of Transportation

WSDOT MATERIALS LAB 12/17/2009

Aggregate Source Approval Report

Owner:
Leasee:
Located in: NW1/4 NW1/4 Section 16 T35N R4E

Aggregate Source: PS-M-145
Known as: Butler Pit
County: Skagit

Remarks:

Pit Run Materials:
Prior to incorporating any of the following into a job, Gradation and Sand Equivalent tests shall be performed to determine if the material does in fact meet specification for the intended use:

Backfill for Rock Wall	Backfill for Sand Drains	Bedding Material for Rigid Pipe
Bedding Material for Thermoplastic Pipe	Blending Sand	Foundation Material for Classes A, B or C
Gravel Backfill for Drains and Drywells	Gravel Backfill for Foundation Class B	Gravel Backfill for Pipe Zone Bedding
Gravel Backfill for Walls	Gravel Borrow	Sand Drainage Blanket
Select or Common Borrow		

No Preliminary Tests are required to be performed by the State Materials Lab

Gravel Base: Test Date: 06/22/2001 Expiration Date: 06/22/2006

Drainage: Free | R Value: 72 | Swell Pressure: 0

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of GRAVEL BASE is required prior to use.

Mineral Agg. and Surfacing: Test Date: 05/21/2009 Expiration Date: 05/21/2014

Absorption:	Apparent Sp. G.:	Bulk Sp. G. (SSD): 2.698	Bulk Sp. G.:
Deg: 69	LA: 19		

Currently approved as a source of aggregate for:

ATB	Ballast	BST Crushed Cover Stone
BST Crushed Screenings	Crushed Surfacing Base Course	Crushed Surfacing Key Stone
Crushed Surfacing Top Course	Gravel Backfill for Foundation Class A	HMA Other Courses
HMA Wearing Course	Maintenance Rock	Shoulder Ballast

Acceptance tests need to be performed as necessary.

Portland Cement Concrete Aggregates: Test Date: 06/10/2009 Expiration Date: 06/10/2014

ASR - 14 Day : 0.36	ASR - One Year:	CCA Absorption: 0.83	CCA Sp.G: 2.7
FCA Absorption: 1.42	FCA Organics: 2	FCA Sp. G: 2.655	LA: 18
Mortar Strength:	Petrographic Analysis:		

Currently approved for:
Coarse Concrete Aggregates
Fine Concrete Aggregates

ASR MITIGATION MEASURES ARE REQUIRED PER WSDOT STD. SPEC. 9-03.1(1), WHEN USING AGGREGATE FROM THIS SOURCE FOR PORTLAND CEMENT CONCRETE.
Acceptance tests need to be performed as necessary

Riprap and Quarry Spalls: Test Date: 05/21/2009 Expiration Date:

Absorption:	Apparent Sp. G.:	Bulk Sp. G. (SSD): 2.698	Bulk Sp. G.:
Deg: 69	LA: 19		

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of RIP RAP AND QUARRY SPALLS is required prior to use.

Butler Bedding Pea Gl.

LEHIGH
HEIDELBERGCEMENT Group

Lehigh Northwest Cement Company
5225 E.Marginal Way South
Seattle, WA 98134
Phone: (206) 763-2525

3/8" x #8
ASTM C 136 and C 117 (Washed Grading)

Customer : *Concrete Nor'West*
Date : *05/15/09*
Agg. / Pit I.D : *Butler Pit*

Initial Dry Wt.: 13.33 Lbs.

Seive Sizes		Accum. Wt.	Accum. %	Accum. %	ASTM C-33(#8)
Metric	**U.S.**	**Retained**	**Retained**	**Passing**	**Specification**
12.5	**1/2"**	0.00	0.0	*100.0*	**100**
9.5	**3/8"**	0.02	0.2	*99.8*	**85 to 100**
6.4	**1/4"**	6.51	48.8	*51.2*	
4.75	**#4**	11.83	88.7	*11.3*	**10 to 30**
2.36	**#8**	12.98	97.4	*2.6*	**0 to 10**
1.2	**#16**	13.12	98.4	*1.6*	**0 to 5**
75um	**#200**	13.30	99.8	*0.23*	**0 to 1**

Specific Gravity : **2.66**
Absorbtion : **1.60**
Wash 200 : **0.23**

90020502

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Microbiology | 360.671.0688 • 360.671.1577fax

Data Report

Client Name: Concrete Nor West
PO BOX 280
Mount Vernon, WA 98273

Reference Number: **09-10025**
Project: Paper Mill Cleanup Phase 1
Report Date: 7/15/09
Date Received: 7/8/09
Peer Review:

Sample Description: Bank Run Mtl - Butler Pit
Lab Number: 21130
Sample Date: 7/8/09
Collected By: Dave Enders

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
7440-41-7	**BERYLLIUM**	ND	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-47-3	**CHROMIUM**	38.8	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-02-0	**NICKEL**	59.9	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-50-8	**COPPER**	19.1	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-66-6	**ZINC**	39.9	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-38-2	**ARSENIC**	1.79	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7782-49-2	**SELENIUM**	ND	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-22-4	**SILVER**	ND	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-43-9	**CADMIUM**	ND	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-36-0	**ANTIMONY**	ND	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7440-28-0	**THALLIUM**	ND	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7439-92-1	**LEAD**	2.72	0.92		mg/Kg	1	6010B/3051	7/13/09	BJ	6010B-090713A	
7439-97-6	**MERCURY**	0.02	0.03		mg/Kg	1	7471A	7/10/09	CCN	hg_090710	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: cRslt_2.rpt

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Hydrocarbon Data Report

Client Name: Concrete Nor West
PO BOX 280
Mount Vernon, WA 98273

Reference Number: **09-10025**
Project: Paper Mill Cleanup Phase 1
Report Date: 7/15/09
Date Received: 7/8/09
Peer Review:

Sample Description: Bank Run Mtl - Butler Pit
Lab Number: 21130
Date 7/13/09

Sample Date: 7/8/09
Collected By: Dave Enders
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	**ND**		1	0.03	0.025	0.01	mg/Kg	8260B/5030B	GXS_090713	
TOLUENE	**ND**		1	7.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_090713	
ETHYLBENZENE	**ND**		1	6.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_090713	
TOTAL XYLENES	**ND**		1	9.0	0.20	0.01	mg/Kg	8260B/5030B	GXS_090713	
GAS Range Organics	**ND**		1	100/30*	25	15	mg/Kg	8260B/5035A	GXS_090713	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.
Form: cHCID.rpt

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Hydrocarbon Data Report

Client Name: Concrete Nor West
PO BOX 280
Mount Vernon, WA 98273

Reference Number: **09-10025**
Project: Paper Mill Cleanup Phase 1
Report Date: 7/15/09
Date Received: 7/8/09
Peer Review:

Sample Description: Bank Run Mtl - Butler Pit
Lab Number: 21130
Date 7/14/09

Sample Date: 7/8/09
Collected By: Dave Enders
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
GASOLINE (C8 - C12)	**ND**		1	100	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_090706	
DIESEL (C12 - C24)	**ND**		1	2000	100	50	mg/Kg	NWTPH-HCID/3550B	HCIDS_090706	
HEAVY HYDROCARBONS (>C24)	**ND**		1	2000	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_090706	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.
Form: cHCID.rpt

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WSDOE Lab C1251

DATA REPORT

Client Name: Concrete Nor West
PO BOX 280
Mount Vernon, WA 98273

Reference Number: **09-10025**
Project: Paper Mill Cleanup Phase 1

Lab Number: 21130
Field ID: Bank Run Mtl
Sample Description: Butler Pit
Matrix: Soil
Sample Date: 7/8/09
Extraction Date: 7/8/09
Extraction Method: 3540C

Report Date: 7/15/09
Date Analyzed: 7/10/09
Analyst: BCW
Peer Review:
Analytical Method: 8270C
Batch: PAH_090708

CAS	Compound	RESULT	Flag	UNITS	PQL	MDL	D.F.	COMMENT
90-12-0	1-METHYLNAPHTHALENE	ND		mg/Kg	0.05		1.00	
91-57-6	2-METHYLNAPHTHALENE	ND		mg/Kg	0.05		1.00	
208-96-8	ACENAPHTHYLENE	ND		mg/kg	0.05		1.00	
83-32-9	ACENAPTHENE	ND		mg/kg	0.05		1.00	
120-12-7	ANTHRACENE	ND		mg/kg	0.05		1.00	
56-55-3	BENZ[A]ANTHRACENE	ND		mg/kg	0.05		1.00	
50-32-8	BENZO[A]PYRENE	ND		mg/kg	0.05		1.00	
205-99-2	BENZO[B]FLUORANTHENE	ND		mg/kg	0.05		1.00	
191-24-2	BENZO[G,H,I]PERYLENE	ND		mg/kg	0.05		1.00	
207-08-9	BENZO[K]FLUORANTHENE	ND		mg/kg	0.05		1.00	
218-01-9	CHRYSENE	ND		mg/kg	0.05		1.00	
53-70-3	DIBENZ[A,H]ANTHRACENE	ND		mg/kg	0.05		1.00	
206-44-0	FLUORANTHENE	ND		mg/kg	0.05		1.00	
86-73-7	FLUORENE	ND		mg/kg	0.05		1.00	
193-39-5	INDENO[1,2,3,C,D]PYRENE	ND		mg/kg	0.05		1.00	
91-20-3	NAPTHALENE	ND		mg/kg	0.05		1.00	
85-01-8	PHENANTHRENE	ND		mg/kg	0.05		1.00	
129-00-0	PYRENE	ND		mg/kg	0.05		1.00	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

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WSDDE Lab C1251

DATA REPORT

Client Name: Concrete Nor West
PO BOX 280
Mount Vernon, WA 98273

Reference Number: **09-10025**
Project: Paper Mill Cleanup Phase 1

Lab Number: 21130
Field ID: Bank Run Mtl
Sample Description: Butler Pit
Matrix: Soil
Sample Date: 7/8/09
Extraction Date: 7/8/09
Extraction Method: 3540C

Report Date: 7/13/09
Date Analyzed: 7/10/09
Analyst: GEB
Peer Review:
Analytical Method: 8082
Batch: 8082_090708

CAS	Compound	RESULT	Flag	UNITS	PQL	MDL	D.F.	COMMENT
12674-11-	AROCLOR 1016	ND		mg/Kg	0.1	0.1	1.00	
11104-28-	AROCLOR 1221	ND		mg/Kg	0.1	0.1	1.00	
11141-16-	AROCLOR 1232	ND		mg/Kg	0.1	0.1	1.00	
53469-21-	AROCLOR 1242	ND		mg/Kg	0.1	0.1	1.00	
12672-29-	AROCLOR 1248	ND		mg/Kg	0.1	0.1	1.00	
11097-69-	AROCLOR 1254	ND		mg/Kg	0.1	0.1	1.00	
11096-82-	AROCLOR 1260	ND		mg/Kg	0.1	0.1	1.00	
11100-14-	AROCLOR 1268	ND		mg/Kg	0.1	0.1	1.00	
1336-36-3	PCBS (Total Aroclors)	ND		mg/Kg	0.1	0.1	1.00	

Notes:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-10025
Report Date: 07/15/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
6010B-090713A	ANTIMONY	1	1	mg/L	6010B	100	70-130		LFB	
	ARSENIC	1	1	mg/L	6010B	100	70-130			
	BERYLLIUM	1	1	mg/L	6010B	100	70-130			
	CADMIUM	0.97	1	mg/L	6010B	97	70-130			
	CHROMIUM	1.02	1	mg/L	6010B	102	70-130			
	COPPER	0.99	1	mg/L	6010B	99	70-130			
	LEAD	0.98	1	mg/L	6010B	98	70-130			
	NICKEL	0.95	1	mg/L	6010B	95	70-130			
	SELENIUM	0.93	1	mg/L	6010B	93	70-130			
	SILVER	0.48	0.5	mg/L	6010B	96	70-130			
	THALLIUM	0.96	1	mg/L	6010B	96	70-130			
	ZINC	0.96	1	mg/L	6010B	96	70-130			
8082_090708	AROCLOR 1260	0.22	0.2	mg/Kg	8082	110	49-153		LFB	
	DECACHLOROBIPHENYL (Surr)	118		%	8082		22-161			
	TETRACHLORO-M-XYLENE (Surr)	120		%	6082		58-111			
GXS_090713	BENZENE	1.2	1	mg/Kg	6260B	120	70-130		LFB	
	d8-TOLUENE (Surr)	109		%	8260B					
	ETHYLBENZENE	1.0	1	mg/Kg	8260B	100	70-130			
	GAS Range Organics	100	125	mg/Kg	8260B	80	70-130			
	TOLUENE	1.2	1	mg/Kg	8260B	120	70-130			
	TOTAL XYLENES	3.1	3	mg/Kg	8260B	103	70-130			
hg_090710	MERCURY	0.00198	0.00200	mg/L	7471A	99	70-130		LFB	
PAH_090708	2 - FLUOROBIPHENYL (Surr)	67.8		%	8270C				LFB	
	ACENAPHTHYLENE	1.75	2	mg/kg	8270C	88	33-145			
	ACENAPTHENE	1.83	2	mg/kg	8270C	92	47-145			
	ANTHRACENE	1.73	2	mg/kg	8270C	87	27-133			
	BENZ[A]ANTHRACENE	1.59	2	mg/kg	8270C	80	33-143			
	BENZO[A]PYRENE	1.71	2	mg/kg	8270C	86	17-163			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-10025
Report Date: 07/15/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
PAH_090708	BENZO[B]FLUORANTHENE	1.64	2	mg/kg	8270C	82	24-159		LFB	
	BENZO[G,H,I]PERYLENE	1.22	2	mg/kg	8270C	61	1-219			
	BENZO[K]FLUORANTHENE	1.71	2	mg/kg	8270C	86	11-162			
	CHRYSENE	1.79	2	mg/kg	8270C	90	17-168			
	DIBENZ[A,H]ANTHRACENE	1.16	2	mg/kg	8270C	58	1-227			
	FLUORANTHENE	1.81	2	mg/kg	8270C	91	26-137			
	FLUORENE	1.81	2	mg/kg	8270C	91	59-121			
	INDENO[1,2,3,C,D]PYRENE	1.16	2	mg/kg	8270C	58	1-171			
	NAPTHALENE	1.61	2	mg/kg	8270C	81	21-133			
	PHENANTHRENE	1.72	2	mg/kg	8270C	86	54-120			
	p-TERPHENYL-d14 (Surr)	99.2		%	8270C					
	PYRENE	1.74	2	mg/kg	8270C	87	52-115			

*Notation:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 09-10025
Report Date: 07/15/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
6010B-090713A	ANTIMONY	ND		mg/L	6010B		0.01700		LRB	
	ARSENIC	ND		mg/L	6010B		0.01200			
	BERYLLIUM	ND		mg/L	6010B		0.00100			
	CADMIUM	ND		mg/L	6010B		0.00200			
	CHROMIUM	ND		mg/L	6010B		0.00100			
	COPPER	ND		mg/L	6010B		0.00300			
	LEAD	ND		mg/L	6010B		0.01000			
	NICKEL	ND		mg/L	6010B		0.00100			
	SELENIUM	ND		mg/L	6010B		0.00600			
	SILVER	ND		mg/L	6010B		0.00100			
	THALLIUM	ND		mg/L	6010B		0.00800			
	ZINC	ND		mg/L	6010B		0.00400			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

OCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-10025
Report Date: 07/15/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
6010B-090713A	ANTIMONY	ND		mg/L	6010B		0.00630		MB	
	ARSENIC	ND		mg/L	6010B		0.01000			
	BERYLLIUM	ND		mg/L	6010B		0.00130			
	CADMIUM	ND		mg/L	6010B		0.00300			
	CHROMIUM	ND		mg/L	6010B		0.00300			
	COPPER	ND		mg/L	6010B		0.00300			
	LEAD	ND		mg/L	6010B		0.01000			
	NICKEL	ND		mg/L	6010B		0.00300			
	SELENIUM	ND		mg/L	6010B		0.00630			
	SILVER	ND		mg/L	6010B		0.00063			
	THALLIUM	ND		mg/L	6010B		0.00630			
	ZINC	ND		mg/L	6010B		0.00300			
8082_090708	AROCLOR 1016	ND		mg/Kg	8082		0.02000		MB	
	AROCLOR 1221	ND		mg/Kg	8082		0.02000			
	AROCLOR 1232	ND		mg/Kg	8082		0.02000			
	AROCLOR 1242	ND		mg/Kg	8082		0.02000			
	AROCLOR 1248	ND		mg/Kg	8082		0.02000			
	AROCLOR 1254	ND		mg/Kg	8082		0.02000			
	AROCLOR 1260	ND		mg/Kg	8082		0.02000			
	DECACHLOROBIPHENYL (Surr)	124		%	8082					
	TETRACHLORO-M-XYLENE (Surr)	122		%	8082					
GXS_090713	BENZENE	ND		mg/Kg	8260B		0.06000		MB	
	d8-TOLUENE (Surr)	97		%	8260B					
	ETHYLBENZENE	ND		mg/Kg	8260B		0.06000			
	GAS Range Organics	ND		mg/Kg	8260B		5.00000			
	TOLUENE	ND		mg/Kg	8260B		0.06000			
	TOTAL XYLENES	ND		mg/Kg	8260B		0.06000			
HCIDS_090709	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-HCID		12.5000(		MB	
	GASOLINE (C8 - C12)	ND		mg/Kg	NWTPH-HCID		5.00000			
	HEAVY HYDROCARBONS (>C24)	ND		mg/Kg	NWTPH-HCID		25.0000(			

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-10025
Report Date: 07/15/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
HCIDS_090709	O-TERPHENYL	113		%	NWTPH-HCID		0.00000		MB	
hg_090710	MERCURY	ND		mg/L	7471A		0.00800		MB	
PAH_090708	1-METHYLNAPHTHALENE	ND		mg/kg	8270C		0.00200		MB	
	2 - FLUOROBIPHENYL (Surr)	68.9		%	8270C					
	2-METHYLNAPHTHALENE	ND		mg/kg	8270C		0.00200			
	ACENAPHTHYLENE	ND		mg/kg	8270C		0.00200			
	ACENAPTHENE	ND		mg/kg	8270C		0.00200			
	ANTHRACENE	ND		mg/kg	8270C		0.00200			
	BENZ[A]ANTHRACENE	ND		mg/kg	8270C		0.00200			
	BENZO[A]PYRENE	ND		mg/kg	8270C		0.00200			
	BENZO[B]FLUORANTHENE	ND		mg/kg	8270C		0.00200			
	BENZO[G,H,I]PERYLENE	ND		mg/kg	8270C		0.00200			
	BENZO[K]FLUORANTHENE	ND		mg/kg	8270C		0.00200			
	CHRYSENE	ND		mg/kg	8270C		0.00200			
	DIBENZ[A,H]ANTHRACENE	ND		mg/kg	8270C		0.00200			
	FLUORANTHENE	ND		mg/kg	8270C		0.00200			
	FLUORENE	ND		mg/kg	8270C		0.00200			
	INDENO[1,2,3,C,D]PYRENE	ND		mg/kg	8270C		0.00200			
	NAPTHALENE	ND		mg/kg	8270C		0.00200			
	PHENANTHRENE	ND		mg/kg	8270C		0.00200			
	p-TERPHENYL-d14 (Surr)	100		%	8270C					
	PYRENE	ND		mg/kg	8270C		0.00200			

*Notation:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 09-10025
Report Date: 07/15/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
6010B-090713A	ANTIMONY	1.05	1	mg/L	6010B	105	70-130		QCS	
	ARSENIC	1.03	1	mg/L	6010B	103	70-130			
	BERYLLIUM	0.99	1	mg/L	6010B	99	70-130			
	CADMIUM	1.04	1	mg/L	6010B	104	70-130			
	CHROMIUM	0.0419	0.04	mg/L	6010B	105	70-130			
	COPPER	1.04	1	mg/L	6010B	104	70-130			
	LEAD	1.04	1	mg/L	6010B	104	70-130			
	NICKEL	1.05	1	mg/L	6010B	105	70-130			
	SELENIUM	1.03	1	mg/L	6010B	103	70-130			
	SILVER	0.256	0.25	mg/L	6010B	102	70-130			
	THALLIUM	1.04	1	mg/L	6010B	104	70-130			
	ZINC	1.05	1	mg/L	6010B	105	70-130			
hg_090710	MERCURY	0.00316	0.00314	mg/L	7471A	101	70-130		QCS	

*Notation:

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QUALITY CONTROL REPORT

Duplicate and Matrix Spike/Matrix Spike Duplicate Report

Reference Number: 09-10025
Report Date: 7/15/2009

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
6010B-090713A									
	20280	CHROMIUM	25.5	23.9	mg/Kg	**6.5**	0-45		DUP
	20280	NICKEL	25.9	26.6	mg/Kg	**2.7**	0-45		DUP
	20280	COPPER	249	260	mg/Kg	**4.3**	0-45		DUP
	20280	ZINC	568	592	mg/Kg	**4.1**	0-45		DUP
	20280	LEAD	28.4	28.6	mg/Kg	**0.7**	0-45		DUP
	21130	CHROMIUM	38.8	41.8	mg/Kg	**7.4**	0-45		DUP
	21130	NICKEL	59.9	54.8	mg/Kg	**8.9**	0-45		DUP
	21130	COPPER	19.1	20.2	mg/Kg	**5.6**	0-45		DUP
	21130	ZINC	39.9	44.1	mg/Kg	**10.0**	0-45		DUP
	21130	ARSENIC	1.79	2.35	mg/Kg	**27.1**	0-45	NH	DUP
	21130	LEAD	2.72	2.88	mg/Kg	**5.7**	0-45		DUP
8082_090708									
	20281	DECACHLOROBIPHENYL (Surr)	128	132	%	**3.1**	0-30		DUP
	20281	TETRACHLORO-M-XYLENE (Surr)	114	122	%	**6.8**	0-30		DUP
GXS_090713									
	21130	d8-TOLUENE (Surr)	99	100	%	**1.0**			DUP
HCIDS_090709									
	21130	O-TERPHENYL	94	101	%	**7.2**	0-50		DUP
hg_090710									
	20451	MERCURY	1.17	0.36	mg/Kg	**105.9**	0-50	NH	DUP
TS_090710									
	20770	TOTAL SOLIDS FOR CALCULATION	97.2	97.3	%	**0.1**	0-45		DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

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Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier		Comments
6010B-090713A															
	20280	CHROMIUM	25.5	464	461	412	mg/Kg	**106**	**106**	70-130	**0.7**	0-50		LFM	
	20280	NICKEL	25.9	463	443	412	mg/Kg	**106**	**101**	70-130	**4.7**	0-50		LFM	
	20280	COPPER	249	713	713	412	mg/Kg	**113**	**113**	70-130	**0.0**	0-50		LFM	
	20280	ZINC	568	945	995	412	mg/Kg	**92**	**104**	70-130	**12.4**	0-50		LFM	
	20280	ARSENIC	ND	439	422	412	mg/Kg	**107**	**102**	70-130	**3.9**	0-50		LFM	
	20280	SELENIUM	ND	407	392	412	mg/Kg	**99**	**95**	70-130	**3.8**	0-50		LFM	
	20280	CADMIUM	ND	434	416	412	mg/Kg	**105**	**101**	70-130	**4.2**	0-50		LFM	
	20280	LEAD	28.4	468	440	412	mg/Kg	**107**	**100**	70-130	**6.6**	0-50		LFM	
	21130	BERYLLIUM	ND	112	101	104	mg/Kg	**108**	**97**	70-130	**10.3**	0-50		LFM	
	21130	CHROMIUM	38.8	138	129	104	mg/Kg	**95**	**87**	70-130	**9.5**	0-50		LFM	
	21130	NICKEL	59.9	161	152	104	mg/Kg	**97**	**89**	70-130	**9.3**	0-50		LFM	
	21130	COPPER	19.1	131	115	104	mg/Kg	**108**	**92**	70-130	**15.4**	0-50		LFM	
	21130	ZINC	39.9	161	145	104	mg/Kg	**116**	**101**	70-130	**14.1**	0-50		LFM	
	21130	ARSENIC	1.79	108	98.3	104	mg/Kg	**102**	**93**	70-130	**9.6**	0-50		LFM	
	21130	SELENIUM	ND	96.6	86.2	104	mg/Kg	**93**	**83**	70-130	**11.4**	0-50		LFM	
	21130	SILVER	ND	52.1	45.0	52.2	mg/Kg	**100**	**86**	70-130	**14.6**	0-50		LFM	
	21130	CADMIUM	ND	110	96.0	104	mg/Kg	**106**	**92**	70-130	**13.6**	0-50		LFM	
	21130	ANTIMONY	ND	56.5	45.3	104	mg/Kg	**54**	**44**	70-130	**22.0**	0-50	M	LFM	
	21130	THALLIUM	ND	106	91.1	104	mg/Kg	**102**	**88**	70-130	**15.1**	0-50		LFM	
	21130	LEAD	2.72	117	99.7	104	mg/Kg	**110**	**93**	70-130	**16.4**	0-50		LFM	
8082_090708															
	21130	AROCLOR 1260	ND	0.2		0.2	mg/Kg	**100**	**NA**	49-153	**NA**	0-60		LFM	
	21130	DECACHLOROBIPHENYL (Surr)	125	118			%		**NA**		**NA**			LFM	
	21130	TETRACHLORO-M-XYLENE (Surr)	117	120			%		**NA**		**NA**			LFM	
GXS_090713															
	21130	BENZENE	ND	1.1		1	mg/Kg	**110**	**NA**	70-130	**NA**	0-60		LFM	
	21130	TOLUENE	ND	1.1		1	mg/Kg	**110**	**NA**	70-130	**NA**	0-60		LFM	
	21130	ETHYLBENZENE	ND	0.9		1	mg/Kg	**90**	**NA**	70-130	**NA**	0-60		LFM	
	21130	TOTAL XYLENES	ND	2.8		3	mg/Kg	**93**	**NA**	70-130	**NA**	0-60		LFM	
	21130	d8-TOLUENE (Surr)	99	102			%		**NA**		**NA**			LFM	
hg_090710															
	20451	MERCURY	1.17	0.59	0.85	0.32	mg/Kg	**-181**	**-100**	70-130	**57.8**	0-50	NH	LFM	
PAH_090708															
	21130	ACENAPHTHYLENE	ND	1.76		2	mg/kg	**88**	**NA**	33-145	**NA**	0-30		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Reference Number: 09-10025
Report Date: 7/15/2009

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Comments
	21130	ACENAPTHENE	ND	1.82		2	mg/kg	91	NA	47-145	NA	0-50	LFM	
	21130	ANTHRACENE	ND	1.8		2	mg/kg	90	NA	27-133	NA	0-50	LFM	
	21130	BENZ[A]ANTHRACENE	ND	1.63		2	mg/kg	82	NA	33-143	NA	0-50	LFM	
	21130	BENZO[A]PYRENE	ND	1.76		2	mg/kg	88	NA	17-163	NA	0-30	LFM	
	21130	BENZO[B]FLUORANTHENE	ND	1.62		2	mg/kg	81	NA	24-159	NA	0-50	LFM	
	21130	BENZO[G,H,I]PERYLENE	ND	1.27		2	mg/kg	64	NA	1-219	NA	0-30	LFM	
	21130	BENZO[K]FLUORANTHENE	ND	1.79		2	mg/kg	90	NA	11-162	NA	0-50	LFM	
	21130	CHRYSENE	ND	1.8		2	mg/kg	90	NA	17-168	NA	0-50	LFM	
	21130	DIBENZ[A,H]ANTHRACENE	ND	1.22		2	mg/kg	61	NA	1-227	NA	0-50	LFM	
	21130	FLUORANTHENE	ND	1.83		2	mg/kg	92	NA	26-137	NA	0-30	LFM	
	21130	FLUORENE	ND	1.82		2	mg/kg	91	NA	59-121	NA	0-50	LFM	
	21130	INDENO[1,2,3,C,D]PYRENE	ND	1.21		2	mg/kg	61	NA	1-171	NA	0-50	LFM	
	21130	NAPTHALENE	ND	1.26		2	mg/kg	63	NA	21-133	NA	0-50	LFM	
	21130	PHENANTHRENE	ND	1.76		2	mg/kg	88	NA	54-120	NA	0-50	LFM	
	21130	PYRENE	ND	1.79		2	mg/kg	90	NA	52-115	NA	0-50	LFM	
	21130	2 - FLUOROBIPHENYL (Surr)	80.3	70			%		NA		NA	0-30	LFM	
	21130	p-TERPHENYL-d14 (Surr)	101.5	100.3			%		NA		NA	0-30	LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Qualifier Definitions

Reference Number: 09-10025
Report Date: 07/15/09

Qualifier	Definition
M	Matrix induced bias assumed.
NH	The sample was non-homogeneous.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SECTIONS)

REPORT TO: Concrete Nor'West	BILL TO: Same	FOR LAB USE ONLY
ADDRESS: PO Box 280	ADDRESS:	REF#
CITY: Mount Vernon STATE: WA ZIP: 98273	CITY: STATE: ZIP:	CHECK REGULATORY PROGRAM
ATTN: Dave Enders	PHONE: FAX:	☐ SAFE DRINKING WATER ACT
PHONE: 360-757-3121 FAX: 360-757-9757	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: davee@gravelpits.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☐ RCRA / CERCLA
PROJECT NAME: The Former Scott Paper Mill Cleanup Phase I	CARD#	☐ OTHER

ANALYTICAL LABORATORIES
Corporate
1620 S Walnut St
Burlington, WA 98233
1.800.755.9295
Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.
4. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☐ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☑ QUICKEST (100% SURCHARGE)
- ☐ OTHER

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	MATRIX	DATE	TIME	BTEX (soil) Method: EPA 8260 (5035)	PAH (soil) Method: EPA 8270SIM	PCB (soil) Method: EPA 8082	Dioxins & Furans (soil) Method: All 17 Dioxin/Furans EPA 8290	HCID (Soil) Method: NWTPH-HCID/3550B	PP Metals (Soil) Method: 6010B/3051 & 7471A		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	Bank Run Mtl	Butler Pit		Soil	7-8-09	9:00	☑	☑	☑	☑	☑	☑	☐		
2							☐	☐	☐	☐	☐	☐	☐		
3							☐	☐	☐	☐	☐	☐	☐		
4							☐	☐	☐	☐	☐	☐	☐		
5							☐	☐	☐	☐	☐	☐	☐		
6							☐	☐	☐	☐	☐	☐	☐		
7							☐	☐	☐	☐	☐	☐	☐		
8							☐	☐	☐	☐	☐	☐	☐		
9							☐	☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐	☐		
															◀TOTAL CONTAINERS

SAMPLED BY: Dave Enders PHONE: see above FAX:

09-10025
21130

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

Pat

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
				7/8/09	1000

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☑
SAMPLE TEMP 20 °C SATISFACTORY	☑	☐	☐
SAMPLES RECEIVED INTACT	☑	☐	
CHAIN OF CUSTODY & LABELS AGREE	☑	☐	

FORM: COC 9-22-2005

09-10025

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Fran McAdow
Edge Analytical
1620 S. Walnut Street
Burlington WA 98233

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 1098881
Sample Receipt Date: 07/09/2009
Client Project #: 09-10025
Client Sub PO #: N/A
State Cert #: C218

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Habte, your Pace Project Manager.

This report has been reviewed and prepared by:

Nate Habte, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
natnael.habte@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

Report of Laboratory Analysis

Report Prepared Date:
July 15, 2009

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on one sample submitted by a representative of Edge Analytical. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were based on signal-to-noise measurements. The sample was received outside of the recommended temperature range of 0-6 degrees Celsius.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 51-86%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" due to incorrect isotope ratios.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These were below the calibration range of the method. Sample levels less than ten times the background were flagged "B" on the results table and may be, at least partially, attributed to the background. In general, levels less than ten times the background are not considered to be statistically different from the background.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 85-105%. These results indicate a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

Appendix A

Sample Management

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 $ 360.757.1400 $ 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 $ 360.671.1577fax

1125 1098881

RUSH

Subcontract Work Order

Laboratory Name: PACE ANALYTICAL
1700 ELM STREET, SUITE 200
MINNEAPOLIS, MN 55414

Date: 7/8/2009
Reference Number: **09-10025**
Date Due: **7/15/2009**

Lab Number	Analytical Method	Matrix	Date Sampled	Analysis Fee
21130	~~1613~~ 8290	S	7/8/2009	001

Relinquished By
7/8/09 1300
Date Time

Received By
7/9/09 10:21
Date Time
T=17.8°

Subcontract Work Order
Parameter List

Analytical Method	CAS	Analyte Name	PQL	Units
~~1613~~ 8290	~~-41903-57-5~~	~~2,3,7,8 TCDD(DIOXIN)~~		mg/Kg

Sample Condition Upon Receipt

Pace Analytical

Client Name: Cape Analytical Project # 1098881

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 1Z-V93-0F6-01-4873-2108

[redacted]

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ____ No ✓

Thermometer Used 80344042, 179425 Type of Ice: Wet (Blue) None ☐ Samples on ice, cooling process has begun

Cooler Temperature 17.8 Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 7/9/09

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. 5 day
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☑No	Initial when completed — Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present —	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Ben Date/Time: 7/9/09

Comments/ Resolution: TAT waiver received

→ 8290, full scan rush 1wk TAT to arrive 7/9/09

→ Rec'd.

Project Manager Review: MAH Date: 7/9/09

REV 7/9/09 SH

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003rev.5, 6Aug2008

Appendix B

Sample Analysis Summary

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Edge Analytical

Client's Sample ID	21130		
Lab Sample ID	1098881001		
Filename	R90714B_11		
Injected By	SMT		
Total Amount Extracted	10.7 g	Matrix	Solid
% Moisture	3.1	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	07/08/2009
ICAL ID	R90512GC2	Received	07/09/2009 10:21
CCal Filename(s)	R90714B_01 & R90714B_16	Extracted	07/10/2009 20:00
Method Blank ID	BLANK-20565	Analyzed	07/14/2009 23:05

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.110		2,3,7,8-TCDF-13C	2.00	51
Total TCDF	ND	—	0.110		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	ND	—	0.180		2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	ND	—	0.180		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	61
1,2,3,7,8-PeCDF	ND	—	0.099		1,2,3,6,7,8-HxCDF-13C	2.00	61
2,3,4,7,8-PeCDF	ND	—	0.061		2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	ND	—	0.080		1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	—	0.110		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	—	0.110		1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	ND	—	0.058		1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	—	0.063		OCDD-13C	4.00	83
2,3,4,6,7,8-HxCDF	ND	—	0.059				
1,2,3,7,8,9-HxCDF	ND	—	0.065		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	—	0.061		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	—	0.077		2,3,7,8-TCDD-37Cl4	0.20	66
1,2,3,6,7,8-HxCDD	ND	—	0.088				
1,2,3,7,8,9-HxCDD	ND	—	0.096				
Total HxCDD	ND	—	0.087				
1,2,3,4,6,7,8-HpCDF	—	0.11	0.099	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.098		Equivalence: 0.19 ng/Kg		
Total HpCDF	ND	—	0.099		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.34	—	0.150	J			
Total HpCDD	0.34	—	0.150	J			
OCDF	0.26	—	0.140	BJ			
OCDD	1.60	—	0.210	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range
B = Less than 10x higher than method blank level
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-20565	Matrix	Solid
Filename	R90714B_09	Dilution	NA
Total Amount Extracted	10.0 g	Extracted	07/10/2009 20:00
ICAL ID	R90512GC2	Analyzed	07/14/2009 21:19
CCal Filename(s)	R90714B_01 & R90714B_16	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.17	—	0.120	J	2,3,7,8-TCDF-13C	2.00	57
Total TCDF	0.17	—	0.120	J	2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	ND	—	0.130		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	—	0.130		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	ND	—	0.086		1,2,3,6,7,8-HxCDF-13C	2.00	63
2,3,4,7,8-PeCDF	ND	—	0.054		2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	ND	—	0.070		1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	—	0.098		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	—	0.098		1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	—	0.080		1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	—	0.086		OCDD-13C	4.00	86
2,3,4,6,7,8-HxCDF	ND	—	0.083				
1,2,3,7,8,9-HxCDF	ND	—	0.095		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	—	0.086		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	—	0.110		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	—	0.150				
1,2,3,7,8,9-HxCDD	ND	—	0.120				
Total HxCDD	ND	—	0.130				
1,2,3,4,6,7,8-HpCDF	0.15	—	0.120	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.120		Equivalence: 0.18 ng/Kg		
Total HpCDF	0.15	—	0.120	J	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	—	0.28	0.150	I			
Total HpCDD	ND	—	0.150				
OCDF	0.29	—	0.180	J			
OCDD	2.50	—	0.170	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-20566		
Filename	R90714B_04	Matrix	Solid
Total Amount Extracted	10.2 g	Dilution	NA
ICAL ID	R90512GC2	Extracted	07/10/2009 20:00
CCal Filename(s)	R90714B_01 & R90714B_16	Analyzed	07/14/2009 16:53
Method Blank ID	BLANK-20565	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	101	2,3,7,8-TCDF-13C	2.00	59
Total TCDF				2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	0.20	0.19	93	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	1.00	1.02	102	1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	1.00	0.93	93	2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	69
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	1.00	0.85	85	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	66
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	1.00	0.98	98	1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	1.00	1.02	102	OCDD-13C	4.00	89
2,3,4,6,7,8-HxCDF	1.00	1.01	101			
1,2,3,7,8,9-HxCDF	1.00	0.99	99	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.00	100	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	1.00	0.94	94			
1,2,3,7,8,9-HxCDD	1.00	1.01	101			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.02	102			
1,2,3,4,7,8,9-HpCDF	1.00	1.02	102			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.95	95			
Total HpCDD						
OCDF	2.00	1.91	96			
OCDD	2.00	2.10	105			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Letter of Transmittal

TO: Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA
98101

Date:	12-17-2009
Project:	Former Scott Paper Mill - Phase #4A
ATTN:	John Laplante, PE
RE:	Submittals

We are sending you the following: ☒ Attached ☐ Under Separate Cover

The following items: ☐ Shop drawings ☐ Prints ☐ Plans ☒ Request for Approval of Material ☐ Requisitions ☐ Change Orders ☐ Samples ☐ _____

Copies	Date	No.	Description
1		002E	Lakeside Industries -Crushed Surfacing Base Course (For Use as Base Course & Pipe Zone Bedding) -WSDOT Pit #M131
			Lakeside Industries Chemical Analysis (Source Material)

These are transmitted as indicated below:

☐ For your use ☐ Approval as noted ☒ For Approval ☐ As requested
☐ Approved for Construction ☐ For review and comment ☐ Returned for corrections
☐ For payment ☐ Return ☐ Corrected Prints ☐ For bids due: _____

Received By: _____ Date: _____

From: Lou Ivcevic

Title: Project Manager

Copy to: _____

☐ Recipient's Copy
☐ Sign & Return
☐ File Copy

Washington State Department of Transportation

Record of Field Test

Contract Number	Material	Sample No./IA No.	Quantity to Date
7532	CSBC	10	

Pit No./Aggregate Source	Time/Date Sampled	Initial Sample Mass (Prior to splitting, See AASHTO T2)
M-131	11:00 AM 5/5/2009	64#

Moisture Content - AASHTO T255

[1] Mass (Wt) Initial Sample	[2] Mass (Wt) Dried Sample (See FOP for Max. Temp.)	[3] Mass (Wt) of Moisture = [1] - [2]	[4] Percent of Moisture = ([3] / [2]) x 100
6089.90	6008.30	81.60	1.4

Sand Equivalent - AASHTO T176

[5] SE#1	70
[6] SE#2	71
[7] SE Averaget	71
[8] SE Specification	40.00 Min.

Fracture

Wt. of Fractured Particles (gm)	2500
Wt. of Unfractured Particles (gm)	
Wt. of Questionable Particles (gm)	
Percent Fracture	100%
Fracture Specification	75 Min.

Aggregate Gradation - AASHTO T27/T11 and WAQTC TM 1

[9] Initial Dry Mass 6008.3 [10] Washed Dry Mass 5803.1 [11] C = Mass of 0.075mm (#200) Washed Out ([C] = [9] - [10]) 205.2

Sieve Size mm (in)	Cummulative Mass Retained (g)	Cummulative Percent Retained	Percent Passing	Specifications (Percent Passing)
6"				
4				
3				
2 1/2				
2				
1 1/2"				
1 1/4	0.0		100	100
1	200.1	3.3	97	80-100
3/4	797.6	13.3	87	
5/8	1460.2	24.3	76	50-80
1/2	2186.2	36.4	64	
3/8	2892.0	48.1	52	
1/4	3903.9	65.0	35	
#4 (M_3)	4335.9	72.2	28	25-45
Pan (M_1)	1466.9			

M_2 = Split of 4.75 mm Material 738.60

M_1 / M_2 = (f) = Gradation Adjustment Factor 1466.9 / 738.60 = (f) 1.986

DOT Form 422-020 EF
Revised 05/2008

Aggregate Gradation - AASHTO T27/T11 and WAQTC TM 1 Method B

Sieve Size mm (in)	Mass Retained	x	(f)	+	M_3	Cum. Mass Retained (g)	Cum. % Retained	Reported Percent Passing	Specifications (% Passing)
#6		x (f)		+					
#8	322.4	x (f)	1.986	+	4335.9	4976.2	82.8	17	
#10		x (f)		+					
#16	492.6	x (f)	1.986	+	4335.9	5314.2	88.4	12	
#20		x (f)		+					
#30	589.1	x (f)	1.986	+	4335.9	5505.9	91.6	8	
#40	622.7	x (f)	1.986	+	4335.9	5572.6	92.7	7	3-18
#50	647.6	x (f)	1.986	+	4335.9	5622.1	93.6	6	
#80		x (f)		+					
#100	691.3	x (f)	1.986	+	4335.9	5708.9	95.0	5.0	
#200	727.0	x (f)	1.986	+	4335.9	5779.8	96.2	3.8	7.5 MAX
Pan	739.2	x (f)	1.986	+	4335.9	5804.0			

Wood Waste _____ % _____ & Max.

Dust Ratio - 0.075 mm / 0.425 mm = _____

Notes

(1) FM = Fineness Modulus (See AASHTO T27)

Comments

Tested By: Warren Holden
3.2/4.6=70 S/E#2 3.1/4.4=71
Fractured Shot rock Quarry
pile

S/E #1
100%
North stock

Acceptance Action ☐ Conditionally Accepted ☐ Substandard Material ☐ Rejected

Contractor's Representative	Date	Tested By	Date

DOT Form 422-020 EF
Revised 05/2008

EDGE ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

Hydrocarbon Data Report

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I
Report Date: 6/29/09
Date Received: 6/25/09
Peer Review:

Sample Description: 3/8 Minus - M-131
Lab Number: 19710
Date 6/26/09

Sample Date: 6/25/09
Collected By: Unknown
Analyzed By: HY/B\

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
GASOLINE (C8 - C12)	ND		1	100	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_060826	
DIESEL (C12 - C24)	ND		1	2000	100	50	mg/Kg	NWTPH-HCID/3550B	HCIDS_060826	
HEAVY HYDROCARBONS (>C24)	ND		1	2000	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_060826	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL - Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: cHCID.rpt

EDGE ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 - 360.671.1577fax

Hydrocarbon Data Report

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I
Report Date: 6/29/09
Date Received: 6/25/09
Peer Review:

Sample Description: 3/8 Minus - M-131
Lab Number: 19710
Date 6/26/09

Sample Date: 6/25/09
Collected By: Unknown
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.01	mg/Kg	8260B/5030B	GXS_000020	
TOLUENE	ND		1	7.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_000020	
ETHYLBENZENE	ND		1	6.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_000020	
TOTAL XYLENES	ND		1	9.0	0.20	0.01	mg/Kg	8260B/5030B	GXS_000020	
GAS Range Organics	ND		1	100/30*	25	15	mg/Kg	8260B/5030A	GXS_000020	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number
Form: chCID.rpt

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

WSDOE Lab C1251

DATA REPORT

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I

Lab Number: 19710
Field ID: 3/8 Minus
Sample Description: M-131
Matrix: Soil
Sample Date: 6/25/09
Extraction Date: 6/25/09
Extraction Method: 3540C

Report Date: 7/1/09
Date Analyzed: 6/29/09
Analyst: GEB
Peer Review:
Analytical Method: 8082
Batch: 8082_090625

CAS	Compound	RESULT	Flag	UNITS	PQL	MDL	D.F.	COMMENT
12674-11-	AROCLOR 1016	ND		mg/Kg	0.1	0.1	1.00	
11104-28-	AROCLOR 1221	ND		mg/Kg	0.1	0.1	1.00	
11141-16-	AROCLOR 1232	ND		mg/Kg	0.1	0.1	1.00	
53469-21-	AROCLOR 1242	ND		mg/Kg	0.1	0.1	1.00	
12672-29-	AROCLOR 1248	ND		mg/Kg	0.1	0.1	1.00	
11097-69-	AROCLOR 1254	ND		mg/Kg	0.1	0.1	1.00	
11096-82-	AROCLOR 1260	ND		mg/Kg	0.1	0.1	1.00	
11100-14-	AROCLOR 1268	ND		mg/Kg	0.1	0.1	1.00	
1336-36-3	PCBS (Total Aroclors)	ND		mg/Kg	0.1	0.1	1.00	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - Indicates the compound was not detected above the PQL or MDL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

EDGE ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 - 360.671.1577fax

WSDOE Lab C1251

DATA REPORT

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I

Lab Number: 19710
Field ID: 3/8 Minus
Sample Description: M-131
Matrix: Soil
Sample Date: 6/25/09
Extraction Date: 6/25/09
Extraction Method: 3540C

Report Date: 7/1/09
Date Analyzed: 6/29/09
Analyst: CO
Peer Review: JG
Analytical Method: 8270C
Batch: PAH_S090625

CAS	Compound	RESULT	Flag	UNITS	PQL	MDL	D.F.	COMMENT
90-12-0	1-METHYLNAPHTHALENE	ND		mg/Kg	0.05		1.00	
91-57-6	2-METHYLNAPHTHALENE	ND		mg/Kg	0.05		1.00	
208-96-8	ACENAPHTHYLENE	ND		mg/Kg	0.05		1.00	
83-32-9	ACENAPTHENE	ND		mg/Kg	0.05		1.00	
120-12-7	ANTHRACENE	ND		mg/Kg	0.05		1.00	
56-55-3	BENZ[A]ANTHRACENE	ND		mg/Kg	0.05		1.00 cPAH	
50-32-8	BENZO[A]PYRENE	ND		mg/Kg	0.05		1.00 cPAH	
205-99-2	BENZO[B]FLUORANTHENE	ND		mg/Kg	0.05		1.00 cPAH	
191-24-2	BENZO[G,H,I]PERYLENE	ND		mg/Kg	0.05		1.00	
207-08-9	BENZO[K]FLUORANTHENE	ND		mg/Kg	0.05		1.00 cPAH	
218-01-9	CHRYSENE	ND		mg/Kg	0.05		1.00 cPAH	
53-70-3	DIBENZ[A,H]ANTHRACENE	ND		mg/Kg	0.05		1.00 cPAH	
206-44-0	FLUORANTHENE	ND		mg/Kg	0.05		1.00	
86-73-7	FLUORENE	ND		mg/Kg	0.05		1.00	
193-39-5	INDENO[1,2,3,C,D]PYRENE	ND		mg/Kg	0.05		1.00 cPAH	
91-20-3	NAPTHALENE	ND		mg/Kg	0.05		1.00	
85-01-8	PHENANTHRENE	ND		mg/Kg	0.05		1.00	
129-00-0	PYRENE	ND		mg/Kg	0.05		1.00	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - Indicates the compound was not detected above the PQL or MDL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: d008.rpt

EDGE ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-09384
Report Date: 07/01/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8082_090625						
19710	DECACHLOROBIPHENYL (Surr)	120		%	8082	Acceptance Limits 40-139%
	TETRACHLORO-M-XYLENE (Surr)	96		%		Acceptance Limits 38-137%
GXS_090626						
19710	d8-TOLUENE (Surr)	102		%	8260B	Acceptance Range: 50-150%
HCIDS_090626						
19710	O-TERPHENYL	89		%	NWTPH-HCID	
PAH_S090625						
19710	2 - FLUOROBIPHENYL (Surr)	98		%	8270C	Acceptance Limits 28-130%
	p-TERPHENYL-d14 (Surr)	102		%		Acceptance Limits 32-138%
	d5-NITROBENZENE (Surr)	90		%		Acceptance Limits 43-127%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Pace Analytical™

www.pacelabs.com

Report Prepared for:

Fran McAdow
Edge Analytical
1620 S. Walnut Street
Burlington WA 98233

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 1098066
Sample Receipt Date: 06/26/2009
Client Project #: 09-09384
Client Sub PO #: N/A
State Cert #: C218

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Habte, your Pace Project Manager.

This report has been reviewed and prepared by:

Nate Habte, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
natnael.habte@pacelabs.com

Report Prepared Date:
July 6, 2009

ACCREDITED IN ACCORDANCE WITH nelac

Report of Laboratory Analysis

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on one sample submitted by a representative of Edge Analytical. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were based on signal-to-noise measurements.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 65-100%. With the exception of one low value in the method blank, which was flagged "P" on the results table, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In several cases, interfering substances impacted the determination of a PCDD/PCDF congener. The affected values were flagged "I" due to incorrect isotope ratios.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These levels were below the calibration range of the method. The sample contained these analytes at levels over ten times the levels found in the method blank. In general, levels less than ten times the background are not generally considered to be statistically different from the background. This indicates that the sample processing procedures did not significantly contribute to the levels found in the field sample.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 87-101%. These results indicate a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

Appendix A

Sample Management

Sub to: Pace 1700 Elm St. SE Suite 200 / Minneapolis, MN 55414

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SECTIONS)

REPORT TO: Edge Analytical	BILL TO: Same
ADDRESS: 1620 S. Walnut St.	ADDRESS:
CITY: Burlington STATE: WA ZIP: 98233	CITY: STATE: ZIP:
ATTN: Fran McAdow	PHONE: FAX:
PHONE: 360-757-1400 FAX: 757-1402	P.O.#: ATTN:
EMAIL: fmcadow@edgeanalytical.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /
PROJECT NAME: 09-09384	CARD#

FOR LAB USE ONLY

REF#

CHECK REGULATORY PROGRAM

- ☐ SAFE DRINKING WATER ACT
- ☐ CLEAN WATER ACT
- ☐ RCRA / CERCLA
- ☑ OTHER

CCC ANALYTICAL LABORATORIES
Corporate
1620 S Walnut St
Burlington, WA 98233
1.800.755.9295
Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.
4. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☐ STANDARD
- ☐ HALF-TIME (~~5396 SURCHARGE~~)
- ☑ QUICKEST (~~100% SURCHARGE~~) 5 day TAT
- ☐ OTHER

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	MATRIX	DATE	TIME	Dioxins & Furans (soil) Method: All 17 Dioxin/Furans EPA 8290							NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	19710	09-09384		Soil	6/25/09	3:23pm	☑	☐	☐	☐	☐	☐	☐		Rush 001 5 DAY T/A
2							☐	☐	☐	☐	☐	☐	☐		
3							☐	☐	☐	☐	☐	☐	☐		
4							☐	☐	☐	☐	☐	☐	☐		
5							☐	☐	☐	☐	☐	☐	☐		
6							☐	☐	☐	☐	☐	☐	☐		
7							☐	☐	☐	☐	☐	☐	☐		
8							☐	☐	☐	☐	☐	☐	☐		
9							☐	☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: PHONE: FAX: EMAIL: ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	06/25/09	1600	[signature] Pace TC	6/26	0943
				1.2	

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP ____ °C SATISFACTORY	☐	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

FORM: CCC 3-23-2005

Report No: 1098066_8290

07/07/2009 12:15 13607571402 EDGE ANALYTICAL PAGE 11/17

Sample Condition Upon Receipt

Pace Analytical

Client Name: Edge Analytical Project # 1098066

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other ______

Tracking #: 1ZV930F6 1348570127

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other ______ Temp Blank: Yes ____ No ☒

Thermometer Used: 80344042 179425 Type of Ice: Wet (Blue) None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.2

Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 62609

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 5 day
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Fran McAdams Date/Time: 6/26/09

Comments/ Resolution: Due 7/6 will be fine

Project Manager Review: MAH Date: 6/26/09

KCN 6/25/09 8h

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Report No.....1098066_8290

F-ALLC003rev.5, 5Aug2008

Appendix B

Sample Analysis Summary

Pace Analytical™
Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Sample Analysis Results

Client - Edge Analytical

Client's Sample ID	19710		
Lab Sample ID	1098066001-R		
Filename	R90704A_12		
Injected By	BAL		
Total Amount Extracted	11.1 g	Matrix	Soil
% Moisture	4.0	Dilution	NA
Dry Weight Extracted	10.7 g	Collected	06/25/2009
ICAL ID	R90512GC2	Received	06/26/2009
CCal Filename(s)	R90704A_04 & R90704A_26	Extracted	06/30/2009
Method Blank ID	BLANK-20508	Analyzed	07/04/2009 21:14

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	---	0.180	0.079	I	2,3,7,8-TCDF-13C	2.00	65
Total TCDF	ND	---	0.079		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	0.110		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	---	0.110		1,2,3,7,8-PeCDD-13C	2.00	100
					1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	ND	---	0.077		1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	---	0.063		2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	---	0.070		1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	---	0.130		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	---	0.130		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	---	0.077	0.065	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	---	0.064		OCDD-13C	4.00	92
2,3,4,6,7,8-HxCDF	---	0.098	0.065	I			
1,2,3,7,8,9-HxCDF	0.150	---	0.068	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.250	---	0.065	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	0.058		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	0.082	---	0.066	J			
1,2,3,7,8,9-HxCDD	---	0.067	0.059	I			
Total HxCDD	0.082	---	0.061	J			
1,2,3,4,6,7,8-HpCDF	0.230	---	0.078	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	0.087		Equivalence: 0.19 ng/Kg		
Total HpCDF	0.610	---	0.083	J	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.910	---	0.120	J			
Total HpCDD	0.910	---	0.120	J			
OCDF	---	0.590	0.180	I			
OCDD	6.600	---	0.250	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-20508	Matrix	Solid
Filename	F90702A_03	Dilution	NA
Total Amount Extracted	20.1 g	Extracted	06/30/2009
ICAL ID	F90501	Analyzed	07/02/2009 09:43
CCal Filename(s)	F90701A_16 & F90702A_09	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.049	----	0.035 J	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	0.049	----	0.035 J	2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	----	0.037	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	----	0.037	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	----	0.024	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	----	0.023	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	----	0.023	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	----	0.025	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	----	0.025	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	----	0.018	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	----	0.016	OCDD-13C	4.00	39 P
2,3,4,6,7,8-HxCDF	ND	----	0.019			
1,2,3,7,8,9-HxCDF	ND	----	0.025	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.019	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.022	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	----	0.029			
1,2,3,7,8,9-HxCDD	ND	----	0.032			
Total HxCDD	ND	----	0.026			
1,2,3,4,6,7,8-HpCDF	ND	----	0.021	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.031	Equivalence: 0.048 ng/Kg		
Total HpCDF	ND	----	0.026	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	----	0.054	0.040 I			
Total HpCDD	ND	----	0.040			
OCDF	0.180	----	0.082 J			
OCDD	0.590	----	0.140 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range
P = Recovery outside target range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-20509		
Filename	F90702A_01	Matrix	Solid
Total Amount Extracted	20.4 g	Dilution	NA
ICAL ID	F90501	Extracted	06/30/2009
CCal Filename(s)	F90701A_16 & F90702A_09	Analyzed	07/02/2009 08:09
Method Blank ID	BLANK-20508	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.
2,3,7,8-TCDF	0.20	0.20	98
Total TCDF			
2,3,7,8-TCDD	0.20	0.19	94
Total TCDD			
1,2,3,7,8-PeCDF	1.00	0.99	99
2,3,4,7,8-PeCDF	1.00	0.93	93
Total PeCDF			
1,2,3,7,8-PeCDD	1.00	0.87	87
Total PeCDD			
1,2,3,4,7,8-HxCDF	1.00	0.92	92
1,2,3,6,7,8-HxCDF	1.00	0.97	97
2,3,4,6,7,8-HxCDF	1.00	0.95	95
1,2,3,7,8,9-HxCDF	1.00	0.95	95
Total HxCDF			
1,2,3,4,7,8-HxCDD	1.00	0.93	93
1,2,3,6,7,8-HxCDD	1.00	0.95	95
1,2,3,7,8,9-HxCDD	1.00	0.94	94
Total HxCDD			
1,2,3,4,6,7,8-HpCDF	1.00	1.01	101
1,2,3,4,7,8,9-HpCDF	1.00	0.98	98
Total HpCDF			
1,2,3,4,6,7,8-HpCDD	1.00	0.92	92
Total HpCDD			
OCDF	2.00	2.02	101
OCDD	2.00	2.02	101

Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF-13C	2.00	89
2,3,7,8-TCDD-13C	2.00	96
1,2,3,7,8-PeCDF-13C	2.00	91
2,3,4,7,8-PeCDF-13C	2.00	99
1,2,3,7,8-PeCDD-13C	2.00	110
1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,6,7,8-HxCDF-13C	2.00	92
1,2,3,7,8,9-HxCDF-13C	2.00	88
1,2,3,4,7,8-HxCDD-13C	2.00	96
1,2,3,6,7,8-HxCDD-13C	2.00	94
1,2,3,4,6,7,8-HpCDF-13C	2.00	86
1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,6,7,8-HpCDD-13C	2.00	88
OCDD-13C	4.00	52
1,2,3,4-TCDD-13C	2.00	NA
1,2,3,7,8,9-HxCDD-13C	2.00	NA
2,3,7,8-TCDD-37Cl4	0.20	96

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SECTIONS)

PAGE ____ OF ____

EDGE ANALYTICAL LABORATORIES
Corporate
1620 S Walnut St
Burlington, WA 98233
1.800.755.9295
Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

REPORT TO: Lakeside Industries
ADDRESS: PO Box 729
CITY: Anacortes STATE: WA ZIP: 98221
ATTN: Billy Campbell
PHONE: 360-293-2168 FAX: 293-9784
EMAIL: billyc@lakesideind.com
PROJECT NAME: ~~[illegible]~~ Scott Paper Mill
Include All per ← Fax & Email Report

BILL TO: Same
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
P.O.#: ATTN:
☐ VISA ☐ M/C ☐ A/E EXPIRES /
CARD#

FOR LAB USE ONLY
REF#

CHECK REGULATORY PROGRAM
☐ SAFE DRINKING WATER ACT
☐ CLEAN WATER ACT
☐ RCRA / CERCLA
☐ OTHER

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.
4. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
☐ STANDARD
☐ HALF-TIME (50% SURCHARGE)
☑ QUICKEST (100% SURCHARGE) 5 DAY
☐ OTHER

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/COMP.	MATRIX	DATE	TIME	BTEX (soil) Method: EPA 8260	PAH (soil) Method: EPA 8270SIM	PCB (soil) Method: EPA 8082	Dioxins & Furans (soil)	HCID (Soil)	PP Metals (Soil)		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	3/8 minus	m-131	G	Soil	6/25	3:23 pm	☑	☑	☑	☑	☑	☑	☐		
2							☐	☐	☐	☐	☐	☐	☐		
3							☐	☐	☐	☐	☐	☐	☐		
4							☐	☐	☐	☐	☐	☐	☐		
5							☐	☐	☐	☐	☐	☐	☐		
6							☐	☐	☐	☐	☐	☐	☐		
7							☐	☐	☐	☐	☐	☐	☐		
8							☐	☐	☐	☐	☐	☐	☐		
9							☐	☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐	☐		

09-09384
19710

SAMPLED BY: PHONE: FAX: EMAIL: ◄TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[illegible signature]	6/25	3:23 pm			
			[illegible signature]	6/25/09	3:23

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP ____ °C SATISFACTORY	☑	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

Letter of **Transmittal**

TO: Anchor QEA
1423 Third Avenue, Suite 300
Seattle, WA
98101

Date:	12-2-2009
Project:	Former Scott Paper Mill - Phase #4A
ATTN:	John Laplante, PE
RE:	Submittals

We are sending you the following: ☒ Attached ☐ Under Separate Cover

The following items: ☐ Shop drawings ☐ Prints ☐ Plans ☒ Request for Approval of Material ☐ Requisitions ☐ Change Orders ☐ Samples ☐ _____

Copies	Date	No.	Description
1		5	Lakeside Industries (Aggregate Sieves) -Quarry Spalls, CSBC -WSDOT Pit #M131
1		16	Lakeside Industries Chemical Analysis (Source Material)

These are transmitted as indicated below:

☐ For your use ☐ Approval as noted ☒ For Approval ☐ As requested
☐ Approved for Construction ☐ For review and comment ☐ Returned for corrections
☐ For payment ☐ Return ☐ Corrected Prints ☐ For bids due: _____

Received By: _____ Date: _____

From: Lou Ivcevic

Title: Project Manager

Copy to: _____

☐ Recipient's Copy
☐ Sign & Return
☐ File Copy

LAKESIDE INDUSTRIES
P.O. Box 729, Anacortes, WA 98221 (360) 293-2168 (360) 293-9784/ Fax

6/24/09

To whom it may concern,

Lakeside Industries will be the supplier for 4" – 8" quarry spalls for the Scott Paper Mill project. The pit number is M131.

Source ID: M 131

Click here for Approval Report

Gravel Base: Test Date: 10/01/1983 Expiration
Date: 10/01/1993
Drainage:
R Value: 75
Swell Pressure: 0

Mineral Agg. and Surfacing: Test Date: 08/01/2008 Expiration
Date: 08/01/2013
Absorption: 0.42
Apparent Sp. G.: 2.819
Bulk Sp. G. (SSD): 2.798
Bulk Sp. G.: 2.786
Deg: 73
LA: 16

Riprap and Quarry Spalls: Test Date: 08/01/2008 Expiration
Date: 08/01/2009
Absorption:
Apparent Sp. G.:
Bulk Sp. G. (SSD):
Bulk Sp. G.:
Deg:
LA:

Washington State Department of Transportation

WSDOT MATERIALS LAB

06/23/2009

Aggregate Source Approval Report

Owner: Lakeside Industries
Leasee:
Located in: NW1/4 SE1/4 Section 35 T35N R1E

Aggregate Source: QS-M-131
Known as:
County: Skagit

Remarks:

Pit Run Materials:
Prior to incorporating any of the following into a job, Gradation and Sand Equivalent tests shall be performed to determine if the material does in fact meet specification for the intended use:

Backfill for Rock Wall	Backfill for Sand Drains	Bedding Material for Rigid Pipe
Bedding Material for Thermoplastic Pipe	Blending Sand	Foundation Material for Classes A, B or C
Gravel Backfill for Drains and Drywells	Gravel Backfill for Foundation Class B	Gravel Backfill for Pipe Zone Bedding
Gravel Backfill for Walls	Gravel Borrow	Sand Drainage Blanket
Select or Common Borrow		

No Preliminary Tests are required to be performed by the State Materials Lab

Gravel Base: Test Date: 10/01/1983 Expiration Date: 10/01/1993
Drainage: R Value: 75 Swell Pressure: 0

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of GRAVEL BASE is required prior to use.

Mineral Agg. and Surfacing: Test Date: 08/01/2008 Expiration Date: 08/01/2013

Absorption: 0.42	Apparent Sp. G.: 2.819	Bulk Sp. G. (SSD): 2.798	Bulk Sp. G.: 2.786
Deg: 73	LA: 16		

Currently approved as a source of aggregate for:

ATB	Ballast	BST Crushed Cover Stone
BST Crushed Screenings	Crushed Surfacing Base Course	Crushed Surfacing Key Stone
Crushed Surfacing Top Course	Gravel Backfill for Foundation Class A	HMA Other Courses
HMA Wearing Course	Maintenance Rock	Shoulder Ballast

Acceptance tests need to be performed as necessary.

Portland Cement Concrete Aggregates: Test Date: Expiration Date:

ASR - 14 Day :	ASR - One Year:	CCA Absorption:	CCA Sp.G:
FCA Absorption:	FCA Organics:	FCA Sp. G:	LA:
Mortar Strength:	Petrographic Analysis:		

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of AGGREGATES for PCC is required prior to use.

Riprap and Quarry Spalls: Test Date: 08/01/2008 Expiration Date: 08/01/2009

Absorption: 0.42	Apparent Sp. G.: 2.819	Bulk Sp. G. (SSD): 2.798	Bulk Sp. G.: 2.786
Deg: 73	LA: 16		

Currently approved as a source of aggregate for:

Backfill for Rock Wall	Quarry Spalls	RipRap
Rock for Rock Wall and Chinking Material	Stone for Gabion Cribbing	

Distribution: Physical Testing_____ Project Engineer_____ Region Operations_____ Region Materials_____

Aggregate Source Approval System

Materials Testing & Consulting, Inc.

Remember.... One test is worth a thousand expert opinions

Geotechnical Engineering ▪Special Inspection ▪ Materials Testing

ACCREDITED

Certificate #1366.01 & 1366.02

Soundness of Aggregate by use of Sodium Sulfate
(AASHTO T104, ASTM C-88)

Project: Q.C. - Lakeside - Anacortes

Project #: 09B077

Location: Lakeside - Anacortes

Lab#: 091274

Description: 1 1/4" minus crushed

Client: Lakeside Industries

Sampled by: Client

Date Sampled: June 18, 2009

Tested by: V Duran

Date Tested: June 22, 2009

Equipment Used: 33, 61, 23, 34

Data

Sieve Size		Grading of Original Sample, %	Weight of Test Fractions, Before Test, g	Percentage Passing Designated Sieve After Test	Weighted Percentage Lost
3/8"		25.9%	329.7	3.5%	0.91%
#4		25.1%	302.3	1.5%	0.38%
#8		10.5%	101.2	4.8%	0.5%
#16		5.7%	101.1	4.3%	0.25%
#30		2.7%	100.5	3.7%	0.10%
#50		2.0%	100.3	4.1%	0.08%
Total		-	-	-	2.22%

Remarks:

Reviewed by: Victor Duran

Digitally signed by Victor Duran
DN: CN = Victor Duran, C = US, O = Materials Testing & Consulting, Inc., OU = Laboratory
Reason: I have reviewed this document
Date: 2009.07.02 16:06:10 -07'00'

Corporate Office ~ 777 Chrysler Drive • Burlington, WA 98233 • Phone (360) 755-1990 • Fax (360) 755-1980

2118 Black Lake Blvd. SW • Olympia, WA 98512 • Phone (360) 534-9777 • Fax (360) 534-9779

2126 East Bakerview, #101 • Bellingham, WA 98226 • Phone (360) 647-6061 • Fax (360) 647-8111

Website Address: www.mtc-inc.net

Washington State Department of Transportation

Record of Field Test

Contract Number	Material	Sample No./IA No.	Quantity to Date
7532	CSBC	10	
Pit No./Aggregate Source	**Time/Date Sampled**	**Initial Sample Mass (Prior to splitting, See AASHTO T2)**	
M-131	11:00 AM 5/5/2009	64#	

Moisture Content - AASHTO T255

[1] Mass (Wt) Initial Sample	[2] Mass (Wt) Dried Sample (See FOP for Max. Temp.)	[3] Mass (Wt) of Moisture = [1] - [2]	[4] Percent of Moisture = ([3] / [2]) x 100
6089.90	6008.30	81.60	1.4

Sand Equivalent - AASHTO T176

[5] SE#1	70
[6] SE#2	71
[7] SE Averaget	71
[8] SE Specification	40.00 Min.

Fracture

Wt. of Fractured Particles (gm)	2500
Wt. of Unfractured Particles (gm)	
Wt. of Questionable Particles (gm)	
Percent Fracture	100%
Fracture Specification	75 Min.

Aggregate Gradation - AASHTO T27/T11 and WAQTC TM 1

[9] Initial Dry Mass 6008.3 [10] Washed Dry Mass 5803.1 [11] C = Mass of 0.075mm (#200) Washed Out ([C] = [9] - [10]) 205.2

Sieve Size mm (in)	Cummulative Mass Retained (g)	Cummulative Percent Retained	Percent Passing	Specifications (Percent Passing)
6"				
4				
3				
2 1/2				
2				
1 1/2"				
1 1/4	0.0		100	100
1	200.1	3.3	97	80-100
3/4	797.6	13.3	87	
5/8	1460.2	24.3	76	50-80
1/2	2186.2	36.4	64	
3/8	2892.0	48.1	52	
1/4	3903.9	65.0	35	
#4 (M_3)	4335.9	72.2	28	25-45
Pan (M_1)	1466.9			

M_2 = Split of 4.75 mm Material 738.60

M_1 / M_2 = (f) = Gradation Adjustment Factor 1466.9 / 738.60 = (f) 1.986

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 - 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

Data Report

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I
Report Date: 7/7/09
Date Received: 6/25/09
Peer Review: JKO

Sample Description: 3/8 Minus - M-131
Lab Number: 19710
Sample Date: 6/25/09
Collected By: Unknown

CAS ID#	Parameter	Result	POL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
7440-41-7	BERYLLIUM	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-47-3	CHROMIUM	68.2	11.4		mg/Kg	10	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-02-0	NICKEL	62.6	11.4		mg/Kg	10	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-50-8	COPPER	42.9	11.4		mg/Kg	10	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-66-6	ZINC	17.3	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-38-2	ARSENIC	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7782-49-2	SELENIUM	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-22-4	SILVER	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-43-9	CADMIUM	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-36-0	ANTIMONY	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7440-28-0	THALLIUM	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7439-92-1	LEAD	ND	1.14		mg/Kg	1	6010B/3051	6/26/09	BJ	6010B-090626A	
7439-97-6	MERCURY	0.02	0.01		mg/Kg	1	7471A	6/26/09	CON	HG_090626	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: cRall_2.rpt

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Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

Hydrocarbon Data Report

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I
Report Date: 6/29/09
Date Received: 6/25/09
Peer Review:

Sample Description: 3/8 Minus - M-131
Lab Number: 19710
Date 6/26/09

Sample Date: 6/25/09
Collected By: Unknown
Analyzed By: HY/B\

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
GASOLINE (C8 - C12)	ND		1	100	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_060826	
DIESEL (C12 - C24)	ND		1	2000	100	50	mg/Kg	NWTPH-HCID/3550B	HCIDS_060826	
HEAVY HYDROCARBONS (>C24)	ND		1	2000	100	100	mg/Kg	NWTPH-HCID/3550B	HCIDS_060826	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL - Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: cHCID.rpt

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Hydrocarbon Data Report

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I
Report Date: 6/29/09
Date Received: 6/25/09
Peer Review:

Sample Description: 3/8 Minus - M-131
Lab Number: 19710
Date 6/26/09

Sample Date: 6/25/09
Collected By: Unknown
Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.01	mg/Kg	8260B/5030B	GXS_000020	
TOLUENE	ND		1	7.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_000020	
ETHYLBENZENE	ND		1	6.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_000020	
TOTAL XYLENES	ND		1	9.0	0.20	0.01	mg/Kg	8260B/5030B	GXS_000020	
GAS Range Organics	ND		1	100/30*	25	15	mg/Kg	8260B/5030A	GXS_000020	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number
Form: chCID.rpt

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Microbiology | 360.671.0688 • 360.671.1577fax

WSDOE Lab C1251

DATA REPORT

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I

Lab Number: 19710
Field ID: 3/8 Minus
Sample Description: M-131
Matrix: Soil
Sample Date: 6/25/09
Extraction Date: 6/25/09
Extraction Method: 3540C

Report Date: 7/1/09
Date Analyzed: 6/29/09
Analyst: GEB
Peer Review:
Analytical Method: 8082
Batch: 8082_090625

CAS	Compound	RESULT	Flag	UNITS	PQL	MDL	D.F.	COMMENT
12674-11-	AROCLOR 1016	ND		mg/Kg	0.1	0.1	1.00	
11104-28-	AROCLOR 1221	ND		mg/Kg	0.1	0.1	1.00	
11141-16-	AROCLOR 1232	ND		mg/Kg	0.1	0.1	1.00	
53469-21-	AROCLOR 1242	ND		mg/Kg	0.1	0.1	1.00	
12672-29-	AROCLOR 1248	ND		mg/Kg	0.1	0.1	1.00	
11097-69-	AROCLOR 1254	ND		mg/Kg	0.1	0.1	1.00	
11096-82-	AROCLOR 1260	ND		mg/Kg	0.1	0.1	1.00	
11100-14-	AROCLOR 1268	ND		mg/Kg	0.1	0.1	1.00	
1336-36-3	PCBS (Total Aroclors)	ND		mg/Kg	0.1	0.1	1.00	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - Indicates the compound was not detected above the PQL or MDL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

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WSDOE Lab C1251

DATA REPORT

Client Name: Lakeside Industries
PO BOX 729
Anacortes, WA 98221

Reference Number: **09-09384**
Project: Scott Paper Mill Boulder Hill I

Lab Number: 19710
Field ID: 3/8 Minus
Sample Description: M-131
Matrix: Soil
Sample Date: 6/25/09
Extraction Date: 6/25/09
Extraction Method: 3540C

Report Date: 7/1/09
Date Analyzed: 6/29/09
Analyst: CO
Peer Review: JG
Analytical Method: 8270C
Batch: PAH_S090625

CAS	Compound	RESULT	Flag	UNITS	PQL	MDL	D.F.	COMMENT
90-12-0	1-METHYLNAPHTHALENE	ND		mg/Kg	0.05		1.00	
91-57-6	2-METHYLNAPHTHALENE	ND		mg/Kg	0.05		1.00	
208-96-8	ACENAPHTHYLENE	ND		mg/Kg	0.05		1.00	
83-32-9	ACENAPTHENE	ND		mg/Kg	0.05		1.00	
120-12-7	ANTHRACENE	ND		mg/Kg	0.05		1.00	
56-55-3	BENZ[A]ANTHRACENE	ND		mg/Kg	0.05		1.00 cPAH	
50-32-8	BENZO[A]PYRENE	ND		mg/Kg	0.05		1.00 cPAH	
205-99-2	BENZO[B]FLUORANTHENE	ND		mg/Kg	0.05		1.00 cPAH	
191-24-2	BENZO[G,H,I]PERYLENE	ND		mg/Kg	0.05		1.00	
207-08-9	BENZO[K]FLUORANTHENE	ND		mg/Kg	0.05		1.00 cPAH	
218-01-9	CHRYSENE	ND		mg/Kg	0.05		1.00 cPAH	
53-70-3	DIBENZ[A,H]ANTHRACENE	ND		mg/Kg	0.05		1.00 cPAH	
206-44-0	FLUORANTHENE	ND		mg/Kg	0.05		1.00	
86-73-7	FLUORENE	ND		mg/Kg	0.05		1.00	
193-39-5	INDENO[1,2,3,C,D]PYRENE	ND		mg/Kg	0.05		1.00 cPAH	
91-20-3	NAPTHALENE	ND		mg/Kg	0.05		1.00	
85-01-8	PHENANTHRENE	ND		mg/Kg	0.05		1.00	
129-00-0	PYRENE	ND		mg/Kg	0.05		1.00	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - Indicates the compound was not detected above the PQL or MDL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: d008.rpt

EDGE ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-09384
Report Date: 07/01/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8082_090625						
19710	DECACHLOROBIPHENYL (Surr)	120		%	8082	Acceptance Limits 40-139%
	TETRACHLORO-M-XYLENE (Surr)	96		%		Acceptance Limits 38-137%
GXS_090626						
19710	d8-TOLUENE (Surr)	102		%	8260B	Acceptance Range: 50-150%
HCIDS_090626						
19710	O-TERPHENYL	89		%	NWTPH-HCID	
PAH_S090625						
19710	2 - FLUOROBIPHENYL (Surr)	98		%	8270C	Acceptance Limits 28-130%
	p-TERPHENYL-d14 (Surr)	102		%		Acceptance Limits 32-138%
	d5-NITROBENZENE (Surr)	90		%		Acceptance Limits 43-127%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Pace Analytical™

www.pacelabs.com

Report Prepared for:

Fran McAdow
Edge Analytical
1620 S. Walnut Street
Burlington WA 98233

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 1098066
Sample Receipt Date: 06/26/2009
Client Project #: 09-09384
Client Sub PO #: N/A
State Cert #: C218

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Habte, your Pace Project Manager.

This report has been reviewed and prepared by:

Nate Habte, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
natnael.habte@pacelabs.com

Report Prepared Date:
July 6, 2009

ACCREDITED IN ACCORDANCE WITH nelac

Report of Laboratory Analysis

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on one sample submitted by a representative of Edge Analytical. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were based on signal-to-noise measurements.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 65-100%. With the exception of one low value in the method blank, which was flagged "P" on the results table, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In several cases, interfering substances impacted the determination of a PCDD/PCDF congener. The affected values were flagged "I" due to incorrect isotope ratios.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These levels were below the calibration range of the method. The sample contained these analytes at levels over ten times the levels found in the method blank. In general, levels less than ten times the background are not generally considered to be statistically different from the background. This indicates that the sample processing procedures did not significantly contribute to the levels found in the field sample.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 87-101%. These results indicate a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

Appendix A

Sample Management

Sub to: Pace 1700 Elm St. SE Suite 200 / Minneapolis, MN 55414

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SECTIONS)

REPORT TO: Edge Analytical	BILL TO: Same
ADDRESS: 1620 S. Walnut St.	ADDRESS:
CITY: Burlington STATE: WA ZIP: 98233	CITY: STATE: ZIP:
ATTN: Fran McAdow	PHONE: FAX:
PHONE: 360-757-1400 FAX: 757-1402	P.O.#: ATTN:
EMAIL: fmcadow@edgeanalytical.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /
PROJECT NAME: 09-09384	CARD#

FOR LAB USE ONLY

REF#

CHECK REGULATORY PROGRAM

- ☐ SAFE DRINKING WATER ACT
- ☐ CLEAN WATER ACT
- ☐ RCRA / CERCLA
- ☑ OTHER

CCC ANALYTICAL LABORATORIES
Corporate
1620 S Walnut St
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Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.
4. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☐ STANDARD
- ☐ HALF-TIME (~~5396 SURCHARGE~~)
- ☑ QUICKEST (~~100% SURCHARGE~~) 5 day TAT
- ☐ OTHER

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	MATRIX	DATE	TIME	Dioxins & Furans (soil) Method: All 17 Dioxin/Furans EPA 8290							NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	19710	09-09384		Soil	6/25/09	3:23pm	☑	☐	☐	☐	☐	☐	☐		Rush 001 5 DAY T/A
2							☐	☐	☐	☐	☐	☐	☐		
3							☐	☐	☐	☐	☐	☐	☐		
4							☐	☐	☐	☐	☐	☐	☐		
5							☐	☐	☐	☐	☐	☐	☐		
6							☐	☐	☐	☐	☐	☐	☐		
7							☐	☐	☐	☐	☐	☐	☐		
8							☐	☐	☐	☐	☐	☐	☐		
9							☐	☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: PHONE: FAX: EMAIL: ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	06/25/09	1600	[signature] Pace TC	6/26	0943
				1.2	

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP ____ °C SATISFACTORY	☐	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

FORM: CCC 3-23-2005

Report No: 1098066_8290

07/07/2009 12:15 13607571402 EDGE ANALYTICAL PAGE 11/17

Sample Condition Upon Receipt

Pace Analytical

Client Name: Edge Analytical **Project #** 1098066

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other ______

Tracking #: 1ZV930F6134857012 7

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other ______ Temp Blank: Yes ____ No ☒

Thermometer Used: 80344042 179425 Type of Ice: Wet (Blue) None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.2

Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 62609

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 5 day
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Person Contacted: Fran McAdam Date/Time: 6/26/09 Field Data Required? Y / N

Comments/ Resolution: Due 7/6 will be fine

Project Manager Review: MAH Date: 6/26/09

Rev 6/25/09 ...

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Report No.....1098066_8290

Appendix B

Sample Analysis Summary

Pace Analytical™
Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Sample Analysis Results

Client - Edge Analytical

Client's Sample ID	19710		
Lab Sample ID	1098066001-R		
Filename	R90704A_12		
Injected By	BAL		
Total Amount Extracted	11.1 g	Matrix	Soil
% Moisture	4.0	Dilution	NA
Dry Weight Extracted	10.7 g	Collected	06/25/2009
ICAL ID	R90512GC2	Received	06/26/2009
CCal Filename(s)	R90704A_04 & R90704A_26	Extracted	06/30/2009
Method Blank ID	BLANK-20508	Analyzed	07/04/2009 21:14

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	---	0.180	0.079	I	2,3,7,8-TCDF-13C	2.00	65
Total TCDF	ND	---	0.079		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	0.110		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	---	0.110		1,2,3,7,8-PeCDD-13C	2.00	100
					1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	ND	---	0.077		1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	---	0.063		2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	---	0.070		1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	---	0.130		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	---	0.130		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	---	0.077	0.065	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	---	0.064		OCDD-13C	4.00	92
2,3,4,6,7,8-HxCDF	---	0.098	0.065	I			
1,2,3,7,8,9-HxCDF	0.150	---	0.068	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.250	---	0.065	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	0.058		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	0.082	---	0.066	J			
1,2,3,7,8,9-HxCDD	---	0.067	0.059	I			
Total HxCDD	0.082	---	0.061	J			
1,2,3,4,6,7,8-HpCDF	0.230	---	0.078	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	0.087		Equivalence: 0.19 ng/Kg		
Total HpCDF	0.610	---	0.083	J	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.910	---	0.120	J			
Total HpCDD	0.910	---	0.120	J			
OCDF	---	0.590	0.180	I			
OCDD	6.600	---	0.250	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-20508	Matrix	Solid
Filename	F90702A_03	Dilution	NA
Total Amount Extracted	20.1 g	Extracted	06/30/2009
ICAL ID	F90501	Analyzed	07/02/2009 09:43
CCal Filename(s)	F90701A_16 & F90702A_09	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.049	----	0.035 J	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	0.049	----	0.035 J	2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	----	0.037	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	----	0.037	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	----	0.024	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	----	0.023	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	----	0.023	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	----	0.025	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	----	0.025	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	----	0.018	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	----	0.016	OCDD-13C	4.00	39 P
2,3,4,6,7,8-HxCDF	ND	----	0.019			
1,2,3,7,8,9-HxCDF	ND	----	0.025	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.019	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.022	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	----	0.029			
1,2,3,7,8,9-HxCDD	ND	----	0.032			
Total HxCDD	ND	----	0.026			
1,2,3,4,6,7,8-HpCDF	ND	----	0.021	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.031	Equivalence: 0.048 ng/Kg		
Total HpCDF	ND	----	0.026	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	----	0.054	0.040 I			
Total HpCDD	ND	----	0.040			
OCDF	0.180	----	0.082 J			
OCDD	0.590	----	0.140 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range
P = Recovery outside target range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-20509		
Filename	F90702A_01	Matrix	Solid
Total Amount Extracted	20.4 g	Dilution	NA
ICAL ID	F90501	Extracted	06/30/2009
CCal Filename(s)	F90701A_16 & F90702A_09	Analyzed	07/02/2009 08:09
Method Blank ID	BLANK-20508	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.
2,3,7,8-TCDF	0.20	0.20	98
Total TCDF			
2,3,7,8-TCDD	0.20	0.19	94
Total TCDD			
1,2,3,7,8-PeCDF	1.00	0.99	99
2,3,4,7,8-PeCDF	1.00	0.93	93
Total PeCDF			
1,2,3,7,8-PeCDD	1.00	0.87	87
Total PeCDD			
1,2,3,4,7,8-HxCDF	1.00	0.92	92
1,2,3,6,7,8-HxCDF	1.00	0.97	97
2,3,4,6,7,8-HxCDF	1.00	0.95	95
1,2,3,7,8,9-HxCDF	1.00	0.95	95
Total HxCDF			
1,2,3,4,7,8-HxCDD	1.00	0.93	93
1,2,3,6,7,8-HxCDD	1.00	0.95	95
1,2,3,7,8,9-HxCDD	1.00	0.94	94
Total HxCDD			
1,2,3,4,6,7,8-HpCDF	1.00	1.01	101
1,2,3,4,7,8,9-HpCDF	1.00	0.98	98
Total HpCDF			
1,2,3,4,6,7,8-HpCDD	1.00	0.92	92
Total HpCDD			
OCDF	2.00	2.02	101
OCDD	2.00	2.02	101

Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF-13C	2.00	89
2,3,7,8-TCDD-13C	2.00	96
1,2,3,7,8-PeCDF-13C	2.00	91
2,3,4,7,8-PeCDF-13C	2.00	99
1,2,3,7,8-PeCDD-13C	2.00	110
1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,6,7,8-HxCDF-13C	2.00	92
1,2,3,7,8,9-HxCDF-13C	2.00	88
1,2,3,4,7,8-HxCDD-13C	2.00	96
1,2,3,6,7,8-HxCDD-13C	2.00	94
1,2,3,4,6,7,8-HpCDF-13C	2.00	86
1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,6,7,8-HpCDD-13C	2.00	88
OCDD-13C	4.00	52
1,2,3,4-TCDD-13C	2.00	NA
1,2,3,7,8,9-HxCDD-13C	2.00	NA
2,3,7,8-TCDD-37Cl4	0.20	96

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SECTIONS)

PAGE ____ OF ____

EDGE ANALYTICAL LABORATORIES

Corporate
1620 S Walnut St
Burlington, WA 98233
1.800.755.9295

Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

REPORT TO: Lakeside Industries	BILL TO: Same
ADDRESS: PO Box 729	ADDRESS:
CITY: Anacortes STATE: WA ZIP: 98221	CITY: STATE: ZIP:
ATTN: Billy Campbell	PHONE: FAX:
PHONE: 360-293-2168 FAX: 293-9784	P.O.#: ATTN:
EMAIL: billyc@lakesideind.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /
PROJECT NAME: ~~[illegible]~~ Scott Paper Mill	CARD#

Include All per & Fax & Email Request

FOR LAB USE ONLY

REF#

CHECK REGULATORY PROGRAM

- ☐ SAFE DRINKING WATER ACT
- ☐ CLEAN WATER ACT
- ☐ RCRA / CERCLA
- ☐ OTHER

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.
4. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- ☐ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☑ QUICKEST (100% SURCHARGE) 5 DAY
- ☐ OTHER

ANALYSIS REQUESTED

#	SAMPLE ID	LOCATION	GRAB/ COMP.	MATRIX	DATE	TIME	BTEX (soil) Method: EPA 8260 (5035)	PAH (soil) Method: EPA 8270SIM	PCB (soil) Method: EPA 8082	Dioxins & Furans (soil)	HCID (Soil) Method: NWTPH-HCID	PP Metals (Soil)		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	3/B [illegible]	M-131	G	Soil	6/25	3:23 pm	☑	☑	☑	☑	☑	☑	☐		
2							☐	☐	☐	☐	☐	☐	☐		
3							☐	☐	☐	☐	☐	☐	☐		
4							☐	☐	☐	☐	☐	☐	☐		
5							☐	☐	☐	☐	☐	☐	☐		
6							☐	☐	☐	☐	☐	☐	☐		
7							☐	☐	☐	☐	☐	☐	☐		
8							☐	☐	☐	☐	☐	☐	☐		
9							☐	☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐	☐		

09-09384
19710

SAMPLED BY: PHONE: FAX: EMAIL: ◄TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	6/25	3:23 pm			
			[signature]	6/26/09	3:23

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP ____ °C SATISFACTORY	☑	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

FORM: COC 9-23-2005

APPENDIX G
DISPOSAL DOCUMENTATION

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418761	000000

WEIGHTMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	6:44 am

DATE OUT	TIME OUT
2 August 2010	7:05 am

VEHICLE	ROLL OFF
11	TOLU459325

REFERENCE	ORIGIN
TOLU459325	Anacortes

1 Gross Weight 113,280.00 LB
Tare Weight 40,180.00 LB
Net Weight 73,100.00 LB 36.55 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
36.55	TN	34 [B8] PCS 34 07/29/10 Inbound - RAIL TICKET BNSF231074 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418766	000000

WEIGHTMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	6:56 am

DATE OUT	TIME OUT
2 August 2010	7:15 am

VEHICLE	ROLL OFF
121	GCEU425230

REFERENCE	ORIGIN
GCEU425230	

1 Gross Weight 96,500.00 LB
Tare Weight 36,700.00 LB
Net Weight 59,800.00 LB 29.90 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
29.90	TN	34 [B8] PCS 34 07/29/10 Inbound - RAIL TICKET BNSF231074 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418777	000000

WEIGHMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	7:10 am

DATE OUT	TIME OUT
2 August 2010	7:37 am

VEHICLE	ROLL OFF
7329	GCEU425935

REFERENCE	ORIGIN
GCEU425935	

1 Gross Weight 112,920.00 LB
Tare Weight 47,220.00 LB
Net Weight 65,700.00 LB 32.85 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
32.85	TN	34 [B8] PCS 34 07/29/10 Inbound - RAIL TICKET DTTX655855 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418778	000000

WEIGHTMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	7:19 am

DATE OUT	TIME OUT
2 August 2010	7:39 am

VEHICLE	ROLL OFF
9951	TOLU455138

REFERENCE	ORIGIN
TOLU455138	

1 Gross Weight 119,900.00 LB
Tare Weight 45,160.00 LB
Net Weight 74,740.00 LB 37.37 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
37.37	TN	34 [B8] PCS 34				
		07/29/10				
		Inbound - RAIL TICKET				
		DTTX655855				
		Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	419624	000000

GH00036 GAIL H WEIGHMASTER

DATE IN	TIME IN
5 August 2010	5:35 am

DATE OUT	TIME OUT
5 August 2010	7:00 am

VEHICLE	ROLL OFF
3450	TOLU465647

REFERENCE	ORIGIN
TOLU465647	

1 Gross Weight 123,760.00 LB
Tare Weight 47,480.00 LB
Net Weight 76,280.00 LB 38.14 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
38.14	TN	34 [B8] PCS 34				
		08/02/10 Inbound - RAIL TICKET BNSF231044 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

SITE	TICKET	GRID
42	419626	000000

GH00036 GAIL H — WEIGHMASTER

DATE IN	TIME IN
5 August 2010	5:40 am

DATE OUT	TIME OUT
5 August 2010	7:05 am

VEHICLE	ROLL OFF
7351	TOLU456590

REFERENCE	ORIGIN
TOLU456590	

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

1 Gross Weight 113,300.00 LB
Tare Weight 43,840.00 LB
Net Weight 69,460.00 LB 34.73 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
34.73	TN	34 [B8] PCS 34				
		08/02/10				
		Inbound - RAIL TICKET				
		BNSF231044				
		Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

Criteria: 09/20/2010 12:00 AM to 09/29/2010 11:59 PM
Waste Management / AK St Reload and Recycle Facility
Customer Name: RAMCONST (RAM CONSTRUCTION)
Profile# 102137WA

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (lb)	Net Tons
9/20/2010 10:04	22521	R51	107060	40900	66160	33.08
9/20/2010 10:09	22524	KS23	108260	37800	70460	35.23
9/20/2010 10:11	22525	BW3	109880	41220	68660	34.33
9/20/2010 10:34	22528	K03	105400	38680	66720	33.36
9/20/2010 10:37	22529	W10	118560	39900	78660	39.33
9/20/2010 10:42	22530	DT02	113840	37900	75940	37.97
9/20/2010 12:22	22540	BW2	109340	38380	70960	35.48
9/20/2010 13:17	22545	W8	95640	36860	58780	29.39
9/20/2010 13:39	22547	R51	106360	40900	65460	32.73
9/20/2010 13:45	22548	KS23	106520	37800	68720	34.36
9/20/2010 14:08	22549	BW3	106080	41220	64860	32.43
9/20/2010 15:02	22552	DT02	100680	37900	62780	31.39
9/20/2010 15:03	22553	K03	107100	38680	68420	34.21
9/21/2010 7:02	22554	W10	106160	39900	66260	33.13
9/21/2010 7:27	22555	W14	108760	39100	69660	34.83
9/21/2010 9:46	22558	KS23	105980	37800	68180	34.09
9/21/2010 10:00	22561	K2	104020	39060	64960	32.48
9/21/2010 10:03	22562	K01	106480	38900	67580	33.79
9/21/2010 9:50	22559	K6	106680	37860	68820	34.41
9/21/2010 10:11	22563	F02	106080	40680	65400	32.70
9/21/2010 9:54	22560	K4	108460	38540	69920	34.96
9/21/2010 10:20	22565	N8	105800	41140	64660	32.33
9/21/2010 10:23	22566	R51	107020	40900	66120	33.06
9/21/2010 10:26	22567	DT02	104180	37900	66280	33.14
9/21/2010 10:29	22568	VZ6	86400	36220	50180	25.09
9/21/2010 10:38	22570	R101	97840	37600	60240	30.12
9/21/2010 10:42	22571	R26	104760	39600	65160	32.58
9/21/2010 10:50	22573	W10	107820	39900	67920	33.96
9/21/2010 10:33	22569	A01	103100	40820	62280	31.14
9/21/2010 13:32	22576	KS23	107500	37800	69700	34.85
9/21/2010 13:49	22578	K6	105880	37860	68020	34.01
9/21/2010 13:52	22579	K4	106320	38540	67780	33.89
9/21/2010 13:59	22580	K2	106580	39060	67520	33.76
9/21/2010 14:02	22581	K01	105640	38900	66740	33.37
9/21/2010 14:16	22582	F02	106000	40680	65320	32.66
9/21/2010 14:22	22583	DT02	102180	37900	64280	32.14
9/21/2010 15:02	22585	R26	105400	39600	65800	32.90
9/21/2010 15:08	22586	A01	105260	40820	64440	32.22
9/21/2010 15:11	22587	R101	102540	37600	64940	32.47
9/22/2010 8:31	22589	VZ6	95120	36220	58900	29.45
9/22/2010 8:58	22591	R51	104600	40900	63700	31.85
9/22/2010 9:09	22592	KS23	109280	37800	71480	35.74
9/22/2010 9:12	22593	R26	106200	39600	66600	33.30
9/22/2010 9:15	22594	R101	107100	37600	69500	34.75
9/22/2010 9:19	22595	A01	107740	40820	66920	33.46
9/22/2010 9:35	22596	K2	100460	39060	61400	30.70
9/22/2010 9:38	22597	K01	106740	38900	67840	33.92
9/22/2010 9:43	22598	KS171	92260	37600	54660	27.33
9/22/2010 9:46	22599	W14	113260	39100	74160	37.08
9/22/2010 9:50	22600	H99	106860	39600	67260	33.63
9/22/2010 9:56	22601	H88T	103900	41400	62500	31.25

9/22/2010 10:00	22602	F02	103540	40680	62860	31.43
9/22/2010 10:07	22603	K03	111460	38680	72780	36.39
9/22/2010 10:12	22604	K4	103880	38540	65340	32.67
9/22/2010 10:18	22605	KS207	112100	40500	71600	35.80
9/22/2010 10:22	22606	W12	103840	40540	63300	31.65
9/22/2010 10:29	22607	W8	99120	36860	62260	31.13
9/22/2010 10:34	22608	KS235	106520	38660	67860	33.93
9/22/2010 10:39	22609	N8	105000	41140	63860	31.93
9/22/2010 10:41	22610	W10	111820	39900	71920	35.96
9/22/2010 11:11	22611	K6	105280	37860	67420	33.71
9/22/2010 13:05	22616	R26	105080	39600	65480	32.74
9/22/2010 13:24	22618	A01	106460	40820	65640	32.82
9/22/2010 13:48	22620	R101	104480	37600	66880	33.44
9/22/2010 13:56	22622	K2	104240	39060	65180	32.59
9/22/2010 13:58	22623	K01	107680	38900	68780	34.39
9/22/2010 14:00	22624	KS171	91000	37600	53400	26.70
9/22/2010 14:02	22625	W14	108480	39100	69380	34.69
9/22/2010 14:07	22626	H88T	106260	41400	64860	32.43
9/22/2010 14:10	22627	H99	100140	39600	60540	30.27
9/22/2010 14:12	22628	K4	106040	38540	67500	33.75
9/22/2010 14:41	22630	F02	108020	40680	67340	33.67
9/22/2010 14:44	22631	W12	110160	40540	69620	34.81
9/22/2010 14:47	22632	K03	99700	38680	61020	30.51
9/22/2010 15:26	22635	KS207	106240	40500	65740	32.87
9/22/2010 15:32	22636	KS235	105100	38660	66440	33.22
9/22/2010 15:37	22637	K6	104240	37860	66380	33.19
9/23/2010 7:01	22638	W8	101120	36860	64260	32.13
9/23/2010 7:04	22639	W10	110980	39900	71080	35.54
9/23/2010 7:06	22640	W4	106180	38880	67300	33.65
9/23/2010 7:13	22642	A01	105600	40820	64780	32.39
9/23/2010 7:16	22643	R101	101900	37600	64300	32.15
9/23/2010 7:18	22644	R26	107440	39600	67840	33.92
9/23/2010 7:21	22645	N8	106940	41140	65800	32.90
9/23/2010 8:22	22655	VZ6	100040	36220	63820	31.91
9/23/2010 9:10	22665	K6	105800	37860	67940	33.97
9/23/2010 9:13	22666	K4	104340	38540	65800	32.90
9/23/2010 9:15	22667	M669	105220	39800	65420	32.71
9/23/2010 9:21	22668	BW2	108360	38380	69980	34.99
9/23/2010 9:23	22669	BW3	106680	41220	65460	32.73
9/23/2010 10:53	22686	W8	93480	36860	56620	28.31
9/23/2010 10:56	22687	W10	105640	39900	65740	32.87
9/23/2010 11:10	22691	A01	107920	40820	67100	33.55
9/23/2010 11:21	22693	N8	104100	41140	62960	31.48
9/23/2010 11:23	22694	R101	101560	37600	63960	31.98
9/23/2010 11:28	22696	R26	105240	39600	65640	32.82
9/24/2010 7:02	22743	K6	104680	37860	66820	33.41
9/24/2010 7:05	22744	K4	108040	38540	69500	34.75
9/24/2010 7:07	22745	BW3	107860	41220	66640	33.32
9/24/2010 7:09	22746	BW2	110020	38380	71640	35.82
9/24/2010 7:11	22747	A01	106060	40820	65240	32.62
9/24/2010 7:13	22748	R101	108640	37600	71040	35.52
9/24/2010 7:17	22749	R26	106340	39600	66740	33.37
9/24/2010 7:33	22750	W4	103220	38880	64340	32.17
9/24/2010 7:43	22751	N8	106040	41140	64900	32.45
9/24/2010 7:46	22752	W10	110240	39900	70340	35.17
9/24/2010 7:50	22753	W8	100680	36860	63820	31.91
9/24/2010 7:54	22754	M669	106440	39800	66640	33.32
Total	**108**					**3573.25**

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22521

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51 Volume
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/20/2010 10:04:17	SCALE 1	lmercer		Gross	107060 lb
Out	09/20/2010 10:04:17		lmercer		Tare	40900 lb
					Net	66160 lb
					Tons	33.08

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.08	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.08	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.08	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22524

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K533 Volume
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/20/2010 10:09:43	SCALE 1	lmercer		Gross	108260 lb
Out	09/20/2010 10:09:43		lmercer		Tare	37800 lb
					Net	70460 lb
					Tons	35.23

Comments K & S TRUCKING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.23	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.23	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.23	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22525

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 10:11:22	SCALE 1	lmercer		Gross	109880 lb
Out	09/20/2010 10:11:22		lmercer		Tare	41220 lb
					Net	68660 lb
					Tons	34.33

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.33	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.33	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.33	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22528

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver GLEN NELSON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 10:34:26	SCALE 1	lmercer		Gross	105400 lb
Out	09/20/2010 10:34:26		lmercer		Tare	38680 lb
					Net	66720 lb
					Tons	33.36

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.36	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.36	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.36	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22529

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 10:37:50	SCALE 1	lmercer		Gross	118560 lb
Out	09/20/2010 10:37:50		lmercer		Tare	39900 lb
					Net	78660 lb
					Tons	39.33

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.33	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.33	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	39.33	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22530

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# DT02
Container
Driver DAN SCHLICK
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 10:42:49	SCALE 1	lmercer		Gross	113840 lb
Out	09/20/2010 10:42:49		lmercer		Tare	37900 lb
					Net	75940 lb
					Tons	37.97

Comments MRC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.97	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.97	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	37.97	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22540

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver MUD FLAP / KENT SMITH
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/20/2010 12:22:43	SCALE 1	lmercer		Gross	109340 lb
Out	09/20/2010 12:22:43		lmercer		Tare	38380 lb
					Net	70960 lb
					Tons	35.48

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.48	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.48	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.48	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22545

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8 Volume
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/20/2010 13:17:56	SCALE 1	lmercer		Gross	95640 lb
Out	09/20/2010 13:17:56		lmercer		Tare	36860 lb
					Net	58780 lb
					Tons	29.39

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.39	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.39	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.39	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22547

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 13:39:45	SCALE 1	lmercer		Gross	106360 lb
Out	09/20/2010 13:39:45		lmercer		Tare	40900 lb
					Net	65460 lb
					Tons	32.73

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.73	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.73	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.73	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22548

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS23
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 13:45:30	SCALE 1	lmercer		Gross	106520 lb
Out	09/20/2010 13:45:30		lmercer		Tare	37800 lb
					Net	68720 lb
					Tons	34.36

Comments K & S TRUCKING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.36	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.36	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.36	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22549
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 14:08:29	SCALE 1	lmercer		Gross	106080 lb
Out	09/20/2010 14:08:29		lmercer		Tare	41220 lb
					Net	64860 lb
					Tons	32.43

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.43	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.43	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.43	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22552
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# DT02
Container
Driver DAN SCHLICK
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 15:02:00	SCALE 1	lmercer		Gross	100680 lb
Out	09/20/2010 15:02:00		lmercer		Tare	37900 lb
					Net	62780 lb
					Tons	31.39

Comments MRC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.39	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.39	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.39	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22553

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/20/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver GLEN NELSON
Check#
Billing# 0000110
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/20/2010 15:03:55	SCALE 1	lmercer		Gross	107100 lb
Out	09/20/2010 15:03:55		lmercer		Tare	38680 lb
					Net	68420 lb
					Tons	34.21

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.21	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.21	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.21	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22554

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000110
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 07:02:51	SCALE 1	lmercer		Gross	106160 lb
Out	09/21/2010 07:02:51		lmercer		Tare	39900 lb
					Net	66260 lb
					Tons	33.13

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.13	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.13	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.13	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 22555

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 07:27:16	SCALE 1	lmercer		Gross	108760 lb
Out	09/21/2010 07:27:16		lmercer		Tare	39100 lb
					Net	69660 lb
					Tons	34.83

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.83	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.83	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.83	Tons				SKAGIT

Total Tax
Total Ticket

Driver s Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 22558

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS23
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 09:46:20	SCALE 1	lmercer		Gross	105980 lb
Out	09/21/2010 09:46:20		lmercer		Tare	37800 lb
					Net	68180 lb
					Tons	34.09

Comments K & S TRUCKING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.09	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.09	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.09	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22559

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K6 Volume
Container
Driver ANTHONY PEARL
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 09:50:40	SCALE 1	lmercer		Gross	106680 lb
Out	09/21/2010 10:06:17	SCALE 1	lmercer		Tare	37860 lb
					Net	68820 lb
					Tons	34.41

Comments KISSLER ENT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.41	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.41	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.41	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22560

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K4 Volume
Container
Driver JOSH GRAY
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 09:54:28	SCALE 1	lmercer		Gross	108460 lb
Out	09/21/2010 10:17:08	SCALE 1	lmercer		Tare	38540 lb
					Net	69920 lb
					Tons	34.96

Comments KISSLER NET - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.96	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.96	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.96	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22561
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:00:57	SCALE 1	lmercer		Gross	104020 lb
Out	09/21/2010 10:00:57		lmercer		Tare	39060 lb
					Net	64960 lb
					Tons	32.48

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.48	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.48	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.48	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22562
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver RANDY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:03:47	SCALE 1	lmercer		Gross	106480 lb
Out	09/21/2010 10:03:47		lmercer		Tare	38900 lb
					Net	67580 lb
					Tons	33.79

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.79	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.79	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.79	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22563
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver DARWIN PITTMAN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:11:30	SCALE 1	lmercer		Gross	106080 lb
Out	09/21/2010 10:11:30		lmercer		Tare	40680 lb
					Net	65400 lb
					Tons	32.70

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.70	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.70	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.70	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22565
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N8
Container
Driver MIKEY ROSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:20:25	SCALE 1	lmercer		Gross	105800 lb*
Out	09/21/2010 10:20:25		lmercer		Tare	41140 lb*
			* Manual Weight		Net	64660 lb
					Tons	32.33

Comments NEWSOM BROS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.33	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.33	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.33	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22566

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51 Volume
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:23:27	SCALE 1	lmercer		Gross	107020 lb
Out	09/21/2010 10:23:27		lmercer		Tare	40900 lb
					Net	66120 lb
					Tons	33.06

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.06	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.06	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.06	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22567

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# DT02 Volume
Container
Driver DAN SCHLICK
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:26:01	SCALE 1	lmercer		Gross	104180 lb
Out	09/21/2010 10:26:01		lmercer		Tare	37900 lb
					Net	66280 lb
					Tons	33.14

Comments MRC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.14	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.14	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.14	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22568

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver LANCE MCLEAN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:29:05	SCALE 1	lmercer		Gross	86400 lb
Out	09/21/2010 10:29:05		lmercer		Tare	36220 lb
					Net	50180 lb
					Tons	25.09

Comments VAN ZANTEN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	25.09	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	25.09	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	25.09	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22569

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# A01
Container
Driver BROCK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:33:47	SCALE 1	lmercer		Gross	103100 lb
Out	09/21/2010 10:53:22	SCALE 1	lmercer		Tare	40820 lb
					Net	62280 lb
					Tons	31.14

Comments ADVENTURE - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.14	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.14	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.14	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22570
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R101 Volume
Container
Driver ROSS ADAMS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:38:09	SCALE 1	lmercer		Gross	97840 lb*
Out	09/21/2010 10:38:09		lmercer		Tare	37600 lb*
			* Manual Weight		Net	60240 lb
					Tons	30.12

Comments ROSS ADAMS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.12	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.12	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.12	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22571
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26 Volume
Container
Driver KEVIN EAGLES
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:42:15	SCALE 1	lmercer		Gross	104760 lb
Out	09/21/2010 10:42:15		lmercer		Tare	39600 lb
					Net	65160 lb
					Tons	32.58

Comments RON WATSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.58	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.58	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.58	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22573

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10 Volume
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 10:50:31	SCALE 1	lmercer		Gross	107820 lb
Out	09/21/2010 10:50:31		lmercer		Tare	39900 lb
					Net	67920 lb
					Tons	33.96

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.96	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.96	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.96	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22576

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS23 Volume
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 13:32:15	SCALE 1	lmercer		Gross	107500 lb
Out	09/21/2010 13:32:15		lmercer		Tare	37800 lb
					Net	69700 lb
					Tons	34.85

Comments K & S TRUCKING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.85	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.85	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.85	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22578

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K6 Volume
Container
Driver ANTHONY PEARL
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 13:49:42	SCALE 1	lmercer		Gross	105880 lb
Out	09/21/2010 13:49:42		lmercer		Tare	37860 lb
					Net	68020 lb
					Tons	34.01

Comments KISSLER ENT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.01	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.01	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.01	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22579

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K4 Volume
Container
Driver JOSH GRAY
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 13:52:30	SCALE 1	lmercer		Gross	106320 lb
Out	09/21/2010 13:52:30		lmercer		Tare	38540 lb
					Net	67780 lb
					Tons	33.89

Comments KISSLER ENT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.89	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.89	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.89	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22580

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 13:59:43	SCALE 1	lmercer		Gross	106580 lb
Out	09/21/2010 13:59:43		lmercer		Tare	39060 lb
					Net	67520 lb
					Tons	33.76

Comments KODY- LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.76	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.76	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.76	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22581

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver RANDY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 14:02:17	SCALE 1	lmercer		Gross	105640 lb
Out	09/21/2010 14:02:17		lmercer		Tare	38900 lb
					Net	66740 lb
					Tons	33.37

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.37	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.37	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.37	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22582

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver DARWIN PITTMAN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 14:16:22	SCALE 1	lmercer		Gross	106000 lb
Out	09/21/2010 14:16:22		lmercer		Tare	40680 lb
					Net	65320 lb
					Tons	32.66

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.66	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.66	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.66	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22583

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# DT02
Container
Driver DAN SCHLICK
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 14:22:26	SCALE 1	lmercer		Gross	102180 lb
Out	09/21/2010 14:22:26		lmercer		Tare	37900 lb
					Net	64280 lb
					Tons	32.14

Comments MRC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.14	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.14	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.14	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22585

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26 Volume
Container
Driver KEVIN EAGLES
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 15:02:54	SCALE 1	lmercer		Gross	105400 lb
Out	09/21/2010 15:02:54		lmercer		Tare	39600 lb
					Net	65800 lb
					Tons	32.90

Comments RON WATSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.90	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.90	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.90	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22586

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# A01 Volume
Container
Driver BROCK CHANDLER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/21/2010 15:08:12	SCALE 1	lmercer		Gross	105260 lb
Out	09/21/2010 15:08:12		lmercer		Tare	40820 lb
					Net	64440 lb
					Tons	32.22

Comments ADVENTURE - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.22	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.22	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.22	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22587
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/21/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R101
Container
Driver ROSS ADAMS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/21/2010 15:11:18	SCALE 1	lmercer		Gross	102540 lb
Out	09/21/2010 15:11:18		lmercer		Tare	37600 lb
					Net	64940 lb
					Tons	32.47

Comments ROSS ADAMS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.47	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.47	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.47	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22589
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver LANCE MCLEAN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 08:31:32	SCALE 1	lmercer		Gross	95120 lb
Out	09/22/2010 08:31:32		lmercer		Tare	36220 lb
					Net	58900 lb
					Tons	29.45

Comments VAN ZANTEN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.45	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.45	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.45	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22591
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51 Volume
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 08:58:11	SCALE 1	lmercer		Gross	104600 lb
Out	09/22/2010 08:58:11		lmercer		Tare	40900 lb
					Net	63700 lb
					Tons	31.85

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.85	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.85	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.85	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22592
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS23 Volume
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:09:36	SCALE 1	lmercer		Gross	109280 lb
Out	09/22/2010 09:09:36		lmercer		Tare	37800 lb
					Net	71480 lb
					Tons	35.74

Comments K & S - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.74	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.74	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.74	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22593
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26 Volume
Container
Driver KEVIN EAGLES
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:12:49	SCALE 1	lmercer		Gross	106200 lb
Out	09/22/2010 09:12:49		lmercer		Tare	39600 lb
					Net	66600 lb
					Tons	33.30

Comments RON WATSON - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.30	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.30	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.30	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22594
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R101 Volume
Container
Driver ROSS ADAMS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:15:45	SCALE 1	lmercer		Gross	107100 lb
Out	09/22/2010 09:15:45		lmercer		Tare	37600 lb
					Net	69500 lb
					Tons	34.75

Comments ROSS ADAMS - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.75	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.75	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.75	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22595

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# A01
Container
Driver BROCK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:19:15	SCALE 1	lmercer		Gross	107740 lb
Out	09/22/2010 09:19:15		lmercer		Tare	40820 lb
					Net	66920 lb
					Tons	33.46

Comments ADVENTURE - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.46	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.46	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.46	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22596

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:35:19	SCALE 1	lmercer		Gross	100460 lb
Out	09/22/2010 09:35:19		lmercer		Tare	39060 lb
					Net	61400 lb
					Tons	30.70

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.70	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.70	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.70	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22597

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver RANDY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:38:34	SCALE 1	lmercer		Gross	106740 lb
Out	09/22/2010 09:38:34		lmercer		Tare	38900 lb
					Net	67840 lb
					Tons	33.92

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.92	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.92	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.92	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22598

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS171
Container
Driver CRAIG KRUEGER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:43:30	SCALE 1	lmercer		Gross	92260 lb*
Out	09/22/2010 09:43:30		lmercer		Tare	37600 lb*
			* Manual Weight		Net	54660 lb
					Tons	27.33

Comments K & S MCCANN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	27.33	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	27.33	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	27.33	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22599
Ph: 206 763 5025 .

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:46:27	SCALE 1	lmercer		Gross	113260 lb
Out	09/22/2010 09:46:27		lmercer		Tare	39100 lb
					Net	74160 lb
					Tons	37.08

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.08	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.08	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	37.08	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22600
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# H99
Container
Driver MARK HARDING
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:50:43	SCALE 1	lmercer		Gross	106860 lb*
Out	09/22/2010 09:50:43		lmercer		Tare	39600 lb*
			* Manual Weight		Net	67260 lb
					Tons	33.63

Comments MD HARDING AND SONS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.63	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.63	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.63	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22601
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# H88T
Container
Driver RON CAREY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 09:56:26	SCALE 1	lmercer		Gross	103900 lb*
Out	09/22/2010 09:56:26		lmercer		Tare	41400 lb*
			* Manual Weight		Net	62500 lb
					Tons	31.25

Comments MD HARDING AND SONS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.25	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.25	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.25	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22602
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver DARWIN PITTMAN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:00:58	SCALE 1	lmercer		Gross	103540 lb
Out	09/22/2010 10:00:58		lmercer		Tare	40680 lb
					Net	62860 lb
					Tons	31.43

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.43	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.43	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.43	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22603

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver JOHN KOOY SR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:07:04	SCALE 1	lmercer		Gross	111460 lb
Out	09/22/2010 10:07:04		lmercer		Tare	38680 lb
					Net	72780 lb
					Tons	36.39

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.39	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.39	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.39	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22604

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K4
Container
Driver JOSH GRAY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:12:33	SCALE 1	lmercer		Gross	103880 lb
Out	09/22/2010 10:12:33		lmercer		Tare	38540 lb
					Net	65340 lb
					Tons	32.67

Comments KISSLER ENT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.67	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.67	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.67	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22605
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS207 Volume
Container
Driver PAUL RAUCH
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:18:47	SCALE 1	lmercer		Gross	112100 lb*
Out	09/22/2010 10:18:47		lmercer		Tare	40500 lb*
			* Manual Weight		Net	71600 lb
					Tons	35.80

Comments K & S MCCANN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.80	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.80	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.80	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22606
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12 Volume
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:22:58	SCALE 1	lmercer		Gross	103840 lb
Out	09/22/2010 10:22:58		lmercer		Tare	40540 lb
					Net	63300 lb
					Tons	31.65

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.65	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.65	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.65	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22607

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8 Volume
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:29:58	SCALE 1	lmercer		Gross	99120 lb
Out	09/22/2010 10:29:58		lmercer		Tare	36860 lb
					Net	62260 lb
					Tons	31.13

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.13	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.13	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.13	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22608

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS235 Volume
Container
Driver LEROY RAUCH
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:34:43	SCALE 1	lmercer		Gross	106520 lb
Out	09/22/2010 10:34:43		lmercer		Tare	38660 lb
					Net	67860 lb
					Tons	33.93

Comments K & S MCCANN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.93	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.93	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.93	Tons				SKAGIT

Leroy Rauch

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22609

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N8 Volume
Container
Driver MIKEY ROSE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:39:37	SCALE 1	lmercer		Gross	105000 lb
Out	09/22/2010 10:39:37		lmercer		Tare	41140 lb
					Net	63860 lb
					Tons	31.93

Comments NEWSOM BROS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.93	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.93	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.93	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22610

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10 Volume
Container
Driver JOHN KODY JR.
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 10:41:44	SCALE 1	lmercer		Gross	111820 lb
Out	09/22/2010 10:41:44		lmercer		Tare	39900 lb
					Net	71920 lb
					Tons	35.96

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.96	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.96	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.96	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22611
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K6 Volume
Container
Driver ANTHONY PEARL
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 11:11:25	SCALE 1	lmercer		Gross	105280 lb
Out	09/22/2010 11:11:25		lmercer		Tare	37860 lb
					Net	67420 lb
					Tons	33.71

Comments KISSLER YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.71	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.71	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.71	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22616
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26 Volume
Container
Driver KEVIN EAGLES
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 13:05:47	SCALE 1	lmercer		Gross	105080 lb
Out	09/22/2010 13:05:47		lmercer		Tare	39600 lb
					Net	65480 lb
					Tons	32.74

Comments RON WATSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.74	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.74	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.74	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22618

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# A01
Container
Driver BROCK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 13:24:47	SCALE 1	lmercer		Gross	106460 lb
Out	09/22/2010 13:24:47		lmercer		Tare	40820 lb
					Net	65640 lb
					Tons	32.82

Comments ADVENTURE - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.82	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.82	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22620

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R101
Container
Driver ROSS ADAMS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 13:48:26	SCALE 1	lmercer		Gross	104480 lb
Out	09/22/2010 13:48:26		lmercer		Tare	37600 lb
					Net	66880 lb
					Tons	33.44

Comments ROSS ADAMS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.44	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.44	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.44	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22622

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 13:56:28	SCALE 1	lmercer		Gross	104240 lb
Out	09/22/2010 13:56:28		lmercer		Tare	39060 lb
					Net	65180 lb
					Tons	32.59

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.59	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.59	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.59	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22623

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver RANDY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 13:58:47	SCALE 1	lmercer		Gross	107680 lb
Out	09/22/2010 13:58:47		lmercer		Tare	38900 lb
					Net	68780 lb
					Tons	34.39

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.39	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.39	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.39	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22624
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS171
Container
Driver CRAIG KRUEGER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 14:00:54	SCALE 1	lmercer		Gross	91000 lb
Out	09/22/2010 14:00:54		lmercer		Tare	37600 lb
					Net	53400 lb
					Tons	26.70

Comments K & S MCCANN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	26.70	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	26.70	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	26.70	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22625
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 14:02:56	SCALE 1	lmercer		Gross	108480 lb
Out	09/22/2010 14:02:56		lmercer		Tare	39100 lb
					Net	69380 lb
					Tons	34.69

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.69	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.69	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.69	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22626

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# H88T
Container
Driver RON CAREY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 14:07:33	SCALE 1	lmercer		Gross	106260 lb
Out	09/22/2010 14:07:33		lmercer		Tare	41400 lb
					Net	64860 lb
					Tons	32.43

Comments MD HRADING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.43	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.43	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.43	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22627

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# H99
Container
Driver MARK HARDING
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 14:10:13	SCALE 1	lmercer		Gross	100140 lb
Out	09/22/2010 14:10:13		lmercer		Tare	39600 lb
					Net	60540 lb
					Tons	30.27

Comments MD HARDING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.27	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.27	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.27	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22628
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K4 Volume
Container
Driver JOSH GRAY
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 14:12:41	SCALE 1	lmercer		Gross	106040 lb
Out	09/22/2010 14:12:41		lmercer		Tare	38540 lb
					Net	67500 lb
					Tons	33.75

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.75	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.75	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.75	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22630
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02 Volume
Container
Driver DARWIN PITTMAN
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 14:41:02	SCALE 1	lmercer		Gross	108020 lb
Out	09/22/2010 14:41:02		lmercer		Tare	40680 lb
					Net	67340 lb
					Tons	33.67

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.67	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.67	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.67	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22631

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

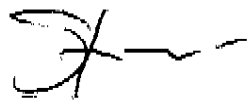
	Time	Scale	Operator	Inbound		
In	09/22/2010 14:44:08	SCALE 1	lmercer		Gross	110160 lb
Out	09/22/2010 14:44:08		lmercer		Tare	40540 lb
					Net	69620 lb
					Tons	34.81

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.81	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.81	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.81	Tons				SKAGIT

Total Tax
Total Ticket

20[illegible]Driver's Signature



WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22632

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

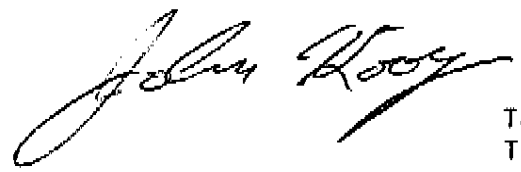
Carrier SELF HAULER *
Vehicle# K03
Container
Driver JOHN KOOY SR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 14:47:23	SCALE 1	lmercer		Gross	99700 lb
Out	09/22/2010 14:47:23		lmercer		Tare	38680 lb
					Net	61020 lb
					Tons	30.51

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.51	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.51	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.51	Tons				SKAGIT



Total Tax
Total Ticket

20[illegible]Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22635
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS207
Container
Driver PAUL RAUCH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 15:26:19	SCALE 1	lmercer		Gross	106240 lb
Out	09/22/2010 15:26:19		lmercer		Tare	40500 lb
					Net	65740 lb
					Tons	32.87

Comments K & S MCCANN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.87	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.87	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.87	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22636
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS235
Container
Driver LEROY RAUCH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/22/2010 15:32:14	SCALE 1	lmercer		Gross	105100 lb
Out	09/22/2010 15:32:14		lmercer		Tare	38660 lb
					Net	66440 lb
					Tons	33.22

Comments K & S MCCANN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.22	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.22	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.22	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22637
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/22/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K6 Volume
Container
Driver ANTHONY PEARL
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/22/2010 15:37:42	SCALE 1	lmercer		Gross	104240 lb
Out	09/22/2010 15:37:42		lmercer		Tare	37860 lb
					Net	66380 lb
					Tons	33.19

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.19	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.19	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.19	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22638
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8 Volume
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 07:01:20	SCALE 1	lmercer		Gross	101120 lb
Out	09/23/2010 07:01:20		lmercer		Tare	36860 lb
					Net	64260 lb
					Tons	32.13

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.13	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.13	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.13	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22639

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10 Volume
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 07:04:04	SCALE 1	lmercer		Gross	110980 lb
Out	09/23/2010 07:04:04		lmercer		Tare	39900 lb
					Net	71080 lb
					Tons	35.54

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.54	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.54	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.54	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22640

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4 Volume
Container
Driver JOHN ELWOOD
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 07:06:46	SCALE 1	lmercer		Gross	106180 lb
Out	09/23/2010 07:06:46		lmercer		Tare	38880 lb
					Net	67300 lb
					Tons	33.65

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.65	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.65	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.65	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22642
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# A01 Volume
Container
Driver BROCK CHANDLER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 07:13:47	SCALE 1	lmercer		Gross	105600 lb
Out	09/23/2010 07:13:47		lmercer		Tare	40820 lb
					Net	64780 lb
					Tons	32.39

Comments ADVENTURE - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.39	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.39	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.39	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22643
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R101 Volume
Container
Driver ROSS ADAMS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 07:16:00	SCALE 1	lmercer		Gross	101900 lb
Out	09/23/2010 07:16:00		lmercer		Tare	37600 lb
					Net	64300 lb
					Tons	32.15

Comments ROSS ADAMS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.15	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.15	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.15	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22644

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26 Volume
Container
Driver KEVIN EAGLES
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 07:18:44	SCALE 1	lmercer		Gross	107440 lb
Out	09/23/2010 07:18:44		lmercer		Tare	39600 lb
					Net	67840 lb
					Tons	33.92

Comments RON WATSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.92	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.92	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.92	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22645

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N8 Volume
Container
Driver MIKEY ROSE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 07:21:43	SCALE 1	lmercer		Gross	106940 lb
Out	09/23/2010 07:21:43		lmercer		Tare	41140 lb
					Net	65800 lb
					Tons	32.90

Comments NEWSOM BROS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.90	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.90	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.90	Tons				SKAGIT

Total Tax
Total Ticket

20 Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22655

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6 Volume
Container
Driver LANCE MCLEAN
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 08:22:04	SCALE 1	lmercer		Gross	100040 lb
Out	09/23/2010 08:22:04		lmercer		Tare	36220 lb
					Net	63820 lb
					Tons	31.91

Comments VAN ZANTEN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.91	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.91	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.91	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22665

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K6 Volume
Container
Driver ANTHONY PEARL
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 09:10:03	SCALE 1	lmercer		Gross	105800 lb
Out	09/23/2010 09:10:03		lmercer		Tare	37860 lb
					Net	67940 lb
					Tons	33.97

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.97	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.97	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.97	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22666

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K4
Container
Driver JOSH GRAY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/23/2010 09:13:12	SCALE 1	lmercer		Gross	104340 lb
Out	09/23/2010 09:13:12		lmercer		Tare	38540 lb
					Net	65800 lb
					Tons	32.90

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.90	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.90	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.90	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22667

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/23/2010 09:15:46	SCALE 1	lmercer		Gross	105220 lb
Out	09/23/2010 09:15:46		lmercer		Tare	39800 lb
					Net	65420 lb
					Tons	32.71

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.71	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.71	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.71	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22668

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver MUD FLUP / KENT SMITH
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 09:21:02	SCALE 1	lmercer		Gross	108360 lb
Out	09/23/2010 09:21:02		lmercer		Tare	38380 lb
					Net	69980 lb
					Tons	34.99

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.99	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.99	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.99	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22669

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3 Volume
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 09:23:38	SCALE 1	lmercer		Gross	106680 lb
Out	09/23/2010 09:23:38		lmercer		Tare	41220 lb
					Net	65460 lb
					Tons	32.73

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.73	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.73	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.73	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22686
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/23/2010 10:53:48	SCALE 1	lmercer		Gross	93480 lb
Out	09/23/2010 10:53:48		lmercer		Tare	36860 lb
					Net	56620 lb
					Tons	28.31

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	28.31	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	28.31	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	28.31	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22687
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

Volume

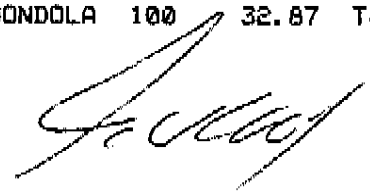
	Time	Scale	Operator	Inbound		
In	09/23/2010 10:56:01	SCALE 1	lmercer		Gross	105640 lb
Out	09/23/2010 10:56:01		lmercer		Tare	39900 lb
					Net	65740 lb
					Tons	32.87

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.87	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.87	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.87	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature



203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22691
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# A01
Container
Driver BROCK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/23/2010 11:10:32	SCALE 1	lmercer		Gross	107920 lb
Out	09/23/2010 11:10:32		lmercer		Tare	40820 lb
					Net	67100 lb
					Tons	33.55

Comments ADVENTURE
YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.55	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.55	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.55	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22693
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N8
Container
Driver MIKEY ROSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/23/2010 11:21:34	SCALE 1	lmercer		Gross	104100 lb
Out	09/23/2010 11:21:34		lmercer		Tare	41140 lb
					Net	62960 lb
					Tons	31.48

Comments NEWSOME YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.48	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.48	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.48	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22694
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R101 Volume
Container
Driver ROSS ADAMS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 11:23:53	SCALE 1	lmercer		Gross	101560 lb
Out	09/23/2010 11:23:53		lmercer		Tare	37600 lb
					Net	63960 lb
					Tons	31.98

Comments ROSS ADAMS
YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.98	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.98	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.98	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22696
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/23/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26 Volume
Container
Driver KEVIN EAGLES
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/23/2010 11:28:11	SCALE 1	lmercer		Gross	105240 lb
Out	09/23/2010 11:28:11		lmercer		Tare	39600 lb
					Net	65640 lb
					Tons	32.82

Comments RON WATSON YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.82	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.82	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22743

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K6
Container
Driver ANTHONY PEARL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	09/24/2010 07:02:48	SCALE 1	lmercer
Out	09/24/2010 07:02:48		lmercer

Inbound

Gross	104680 lb
Tare	37860 lb
Net	66820 lb
Tons	33.41

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.41	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.41	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.41	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22744

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K4
Container
Driver JOSH GRAY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	09/24/2010 07:05:28	SCALE 1	lmercer
Out	09/24/2010 07:05:28		lmercer

Inbound

Gross	108040 lb
Tare	38540 lb
Net	69500 lb
Tons	34.75

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.75	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.75	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.75	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 22745
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3 Volume
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:07:35	SCALE 1	lmercer		Gross	107860 lb
Out	09/24/2010 07:07:35		lmercer		Tare	41220 lb
					Net	66640 lb
					Tons	33.32

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.32	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.32	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.32	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 22746
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver MUDFLAP / KENT SMITH
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:09:28	SCALE 1	lmercer		Gross	110020 lb
Out	09/24/2010 07:09:28		lmercer		Tare	38380 lb
					Net	71640 lb
					Tons	35.82

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.82	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.82	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 22747

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# A01 Volume
Container
Driver BROCK CHANDLER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:11:32	SCALE 1	lmercer		Gross	106060 lb
Out	09/24/2010 07:11:32		lmercer		Tare	40820 lb
					Net	65240 lb
					Tons	32.62

Comments ADVENTURE - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.62	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.62	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.62	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 22748

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R101 Volume
Container
Driver ROSS ADAMS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:13:06	SCALE 1	lmercer		Gross	108640 lb
Out	09/24/2010 07:13:06		lmercer		Tare	37600 lb
					Net	71040 lb
					Tons	35.52

Comments ROSS ADAMS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.52	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.52	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.52	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 22749

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26
Container
Driver KEVIN EAGLES
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:17:46	SCALE 1	lmercer		Gross	106340 lb
Out	09/24/2010 07:17:46		lmercer		Tare	39600 lb
					Net	66740 lb
					Tons	33.37

Comments RON WATSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.37	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.37	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.37	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 22750

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver JOHN ELWOOD
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:33:51	SCALE 1	lmercer		Gross	103220 lb
Out	09/24/2010 07:33:51		lmercer		Tare	38880 lb
					Net	64340 lb
					Tons	32.17

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.17	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.17	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.17	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22751
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N8 Volume
Container
Driver SCOTT MCRAE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:43:38	SCALE 1	lmercer		Gross	106040 lb
Out	09/24/2010 07:43:38		lmercer		Tare	41140 lb
					Net	64900 lb
					Tons	32.45

Comments NEWSOM BROS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.45	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.45	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.45	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature Scott McRae

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22752
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10 Volume
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:46:58	SCALE 1	lmercer		Gross	110240 lb
Out	09/24/2010 07:46:58		lmercer		Tare	39900 lb
					Net	70340 lb
					Tons	35.17

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.17	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.17	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.17	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22753
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:50:23	SCALE 1	lmercer		Gross	100680 lb
Out	09/24/2010 07:50:23		lmercer		Tare	36860 lb
					Net	63820 lb
					Tons	31.91

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.91	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.91	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.91	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 22754
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 09/24/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/24/2010 07:54:33	SCALE 1	lmercer		Gross	106440 lb
Out	09/24/2010 07:54:33		lmercer		Tare	39800 lb
					Net	66640 lb
					Tons	33.32

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.32	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.32	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.32	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

Waste Management / AK St Reload and Recycle Facility
Customer Name: Ram Construction
Generator: Kimberly - Clark Corporation - Phase 4
Profile # 102137WA
January 4, 2010 Loads

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (Lb)	Net (Tons)	Driver	Carrier
1/4/2010 10:16	15111	M669	105680	39800	65880	32.94	Tye Lee	MAJESTIK
1/4/2010 10:23	15115	M569	106960	40480	66480	33.24	Jeff DeHart	MAJESTIK
1/4/2010 10:31	15116	BW3	109220	41220	68000	34.00	Bud Winter	BUD WINTER
1/4/2010 10:44	15117	BW2	104760	38380	66380	33.19	Peter Vanderende	BUD WINTER
1/4/2010 10:54	15122	W4	130020	38880	91140	45.57	Sharon Jordan	WALKER
1/4/2010 10:56	15123	W14	125400	39100	86300	43.15	Rick Myers	WALKER
1/4/2010 11:08	15124	F01	107200	40700	66500	33.25	Dave Fischer	FISCHER
1/4/2010 11:34	15125	F02	104620	40080	64540	32.27	Jay Horton	FISCHER
1/4/2010 11:42	15126	K2	105740	39060	66680	33.34	Gary Benthin	KOOY
1/4/2010 11:44	15127	W12	114420	41480	72940	36.47	Stan Close	WALKER
1/4/2010 12:04	15129	K01	116580	38900	77680	38.84	Dave DelRe	KOOY
1/4/2010 12:14	15130	W10	112700	39900	72800	36.40	John Kooy Jr.	WALKER
1/4/2010 12:40	15131	VZ8	104200	36220	67980	33.99	Don Dooyema	VAN ZANTEN
1/4/2010 13:29	15132	W8	119360	36860	82500	41.25	John Kooy Sr.	KOOY
1/4/2010 14:08	15136	M669	104960	39800	65160	32.58	Tye Lee	MAJESTIK
1/4/2010 14:28	15137	BW2	99040	38380	60660	30.33	Peter Vanderende	BUD WINTER
1/4/2010 14:44	15138	BW3	100940	41220	59720	29.86	Bud Winter	BUD WINTER
1/4/2010 14:55	15139	F01	101260	40700	60560	30.28	Dave Fischer	FISCHER
1/4/2010 15:12	15140	W14	118180	39100	79080	39.54	Rick Myers	WALKER
1/4/10 Totals	19 loads					670.49		

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15111
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669 Volume
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound	Gross	105680 lb*
In	01/04/2010 10:16:49	SCALE 1	lmercer		Tare	39800 lb*
Out	01/04/2010 10:16:49		lmercer		Net	65880 lb
			* Manual Weight		Tons	32.94

Comments MAJESTIK (REPLACES VOIDED #14923, 15015 & 15023) LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.94	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.94	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.94	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15115
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569 Volume
Container
Driver JEFF DE HART
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound	Gross	106960 lb*
In	01/04/2010 10:23:06	SCALE 1	lmercer		Tare	40480 lb*
Out	01/04/2010 10:23:06		lmercer		Net	66480 lb
			* Manual Weight		Tons	33.24

Comments MAJESTIK - REPLACES VOIDED # 15026 & 14924) LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.24	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.24	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.24	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15116

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 10:31:35	SCALE 1	lmercer		Gross	109220 lb*
Out	01/04/2010 10:31:35		lmercer		Tare	41220 lb*
			* Manual Weight		Net	68000 lb
					Tons	34.00

Comments BUD WINTER - REPLACES VOIDED # 15027 & 14926)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.00	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.00	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.00	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15117

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver CPETER VANDERENDE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 10:44:56	SCALE 1	lmercer		Gross	104760 lb*
Out	01/04/2010 10:44:56		lmercer		Tare	38380 lb*
			* Manual Weight		Net	66380 lb
					Tons	33.19

Comments BUD WINTER - REPLACES VOIDED # 15028 & 14927) LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.19	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.19	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.19	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15122

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver SHANON JORDAN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 10:54:23	SCALE 1	lmercer		Gross	130020 lb*
Out	01/04/2010 11:02:29		lmercer		Tare	38880 lb*
			* Manual Weight		Net	91140 lb
					Tons	45.57

Comments WALKER - REPLACES VOIDED # 14929 & 15029- LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	45.57	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	45.57	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	45.57	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15123

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 10:56:19	SCALE 1	lmercer		Gross	125400 lb*
Out	01/04/2010 11:09:33		lmercer		Tare	39100 lb*
			* Manual Weight		Net	86300 lb
					Tons	43.15

Comments WALKER - REPLACES VOIDED # 14930 & 15030 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	43.15	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	43.15	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	43.15	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15124
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 11:08:11	SCALE 1	lmercer		Gross	107200 lb*
Out	01/04/2010 11:08:11		lmercer		Tare	40700 lb*
			* Manual Weight		Net	66500 lb
					Tons	33.25

Comments FISCHER - REPLACES VOIDED # 14931 & 15031 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.25	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.25	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.25	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15125
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 11:34:33	SCALE 1	lmercer		Gross	104620 lb*
Out	01/04/2010 11:34:33		lmercer		Tare	40080 lb*
			* Manual Weight		Net	64540 lb
					Tons	32.27

Comments FISCHER - REPLACES VOIDED # 14933 & 15032 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.27	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.27	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.27	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15126
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 11:42:30	SCALE 1	lmercer		Gross	105740 lb*
Out	01/04/2010 11:55:58		lmercer		Tare	39060 lb*
			* Manual Weight		Net	66680 lb
					Tons	33.34

Comments KOOY - REPLACES VOIDED # 14934 & 15033 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.34	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.34	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.34	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15127
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 11:44:39	SCALE 1	lmercer		Gross	114420 lb*
Out	01/04/2010 11:59:23		lmercer		Tare	41480 lb*
			* Manual Weight		Net	72940 lb
					Tons	36.47

Comments WALKER - REPLACES VOIDED # 14935 & 15034 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.47	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.47	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.47	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15129

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver DAVE DEL RE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	116580 lb*
In	01/04/2010 12:04:32	SCALE 1	lmercer		Tare	38900 lb*
Out	01/04/2010 12:20:46		lmercer		Net	77680 lb
			* Manual Weight		Tons	38.84

Comments KOOY - REPLACES VOIDED # 14936 & 15035 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.84	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.84	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.84	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203-WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15130

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	112700 lb*
In	01/04/2010 12:14:12	SCALE 1	lmercer		Tare	39900 lb*
Out	01/04/2010 12:29:07		lmercer		Net	72800 lb
			* Manual Weight		Tons	36.40

Comments KOOY - REPLACES VOIDED # 14937 & 15036

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.40	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.40	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.40	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203-WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15131
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 12:40:38	SCALE 1	lmercer		Gross	104200 lb*
Out	01/04/2010 12:40:38		lmercer		Tare	36220 lb*
			* Manual Weight		Net	67980 lb
					Tons	33.99

Comments VAN ZANTEN - REPLACES VOIDED # 14939 & 15037 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.99	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.99	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.99	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15132
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8
Container
Driver JOHN KOOY SR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 13:29:29	SCALE 1	lmercer		Gross	119360 lb*
Out	01/04/2010 13:51:33		lmercer		Tare	36860 lb*
			* Manual Weight		Net	82500 lb
					Tons	41.25

Comments KOOY - REPLACES VOIDED # 14941 & 15038

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	41.25	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	41.25	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	41.25	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15136
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 14:08:34	SCALE 1	lmercer		Gross	104960 lb*
Out	01/04/2010 14:08:34		lmercer		Tare	39800 lb*
			* Manual Weight		Net	65160 lb
					Tons	32.58

Comments MAJESTIK - REPLACES VOIDED # 14943 & 15039 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.58	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.58	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.58	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15137

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/04/2010 14:28:11	SCALE 1	lmercer		Gross	99040 lb*
Out	01/04/2010 14:28:11		lmercer		Tare	38380 lb*
			* Manual Weight		Net	60660 lb
					Tons	30.33

Comments BUD WINTER - REPLACES VOIDED # 14944 & 15040 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.33	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.33	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.33	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15138

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3 Volume
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/04/2010 14:44:46	SCALE 1	lmercer		Gross	100940 lb*
Out	01/04/2010 14:44:46		lmercer		Tare	41220 lb*
			* Manual Weight		Net	59720 lb
					Tons	29.86

Comments BUD WINTER - REPLACES VOIDED # 14946 & 15041 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.86	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.86	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.86	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

208 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15139

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 14:55:03	SCALE 1	lmercer		Gross	101260 lb*
Out	01/04/2010 14:55:03		lmercer		Tare	40700 lb*
			* Manual Weight		Net	60560 lb
					Tons	30.28

Comments FISCHER - REPLACES VOIDED # 14947 & 15042 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.28	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.28	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.28	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15140

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/04/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/04/2010 15:12:52	SCALE 1	lmercer		Gross	118180 lb*
Out	01/04/2010 15:12:52		lmercer		Tare	39100 lb*
			* Manual Weight		Net	79080 lb
					Tons	39.54

Comments WALKER - REPLACES VOIDED # 14948 & 15043 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.54	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.54	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	39.54	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

Waste Management / AK St Reload and Recycle Facility
Customer Name: Ram Construction
Generator: Kimberly - Clark Corporation - Phase 4
Profile # 102137WA
January 5, 2010 Loads

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (Lb)	Net (Tons)	Driver	Carrier
1/5/2010 7:02	15141	VZ6	90020	36220	53800	26.90	Don Dooyema	VAN ZANTEN
1/5/2010 7:04	15142	W12	100400	41480	58920	29.46	Stan Close	WALKER
1/5/2010 7:06	15143	K2	104080	39060	65020	32.5*	Gary Benthin	KOOY
1/5/2010 7:09	15144	F02	101440	40080	61360	30.68	Jay Horton	FISCHER
1/5/2010 7:14	15145	W10	110940	39900	71040	35.52	John Kooy Jr.	KOOY
1/5/2010 8:43	15146	K01	113140	38900	74240	37.12	Dave DelRe	KOOY
1/5/2010 9:54	15147	BW3	106160	41220	64940	32.47	Bud Winter	BUD WINTER
1/5/2010 10:11	15148	M569	110580	39800	70780	35.39	Tye Lee	MAJESTIK
1/5/2010 10:13	15149	C18	100340	39600	60740	30.37	Peter Vanderende	CELORIE BROS
1/5/2010 10:28	15150	F01	100060	40700	59360	29.68	Dave Fischer	FISCHER
1/5/2010 10:30	15151	BW2	97940	38380	59560	29.78	Peter Vanderende	BUD WINTER
1/5/2010 10:50	15152	M569	111380	40480	70900	35.45	Jeff DeHart	MAJESTIK
1/5/2010 10:53	15153	C26	104220	40700	63520	31.76	Ron Watson	RON WATSON
1/5/2010 11:11	15154	M369	104200	40480	63720	31.86	Tom DeHart	MAJESTIK
1/5/2010 11:15	15155	R25	109320	39920	69400	34.70	Josh Sizemore	RON WATSON
1/5/2010 11:17	15156	W14	118300	39100	79200	39.60	Rick Myers	WALKER
1/5/2010 11:33	15157	W2	102920	37780	65140	32.57	Glen Nelson	WALKER
1/5/2010 11:39	15158	VZ6	92220	36220	56000	28.00	Don Dooyema	VAN ZANTEN
1/5/2010 11:54	15159	W12	105880	41480	64400	32.20	Stan Close	WALKER
1/5/2010 12:04	15160	K2	111040	39060	71980	35.99	Gary Benthin	KOOY
1/5/2010 12:17	15161	F02	106560	40080	66480	33.24	Jay Horton	FISCHER
1/5/2010 13:57	15163	BW3	106120	41220	64900	32.45	Bud Winter	BUD WINTER
1/5/2010 14:01	15164	C18	103220	39600	63620	31.81	Peter Vanderende	CELORIE BROS
1/5/2010 14:03	15165	M669	99540	39800	59740	29.87	Tye Lee	MAJESTIK
1/5/2010 14:19	15166	F01	103660	40700	62960	31.48	Dave Fischer	FISCHER
1/5/2010 14:47	15167	M569	102480	40480	62000	31.00	Jeff DeHart	MAJESTIK
1/5/2010 14:58	15168	M369	104120	40480	63640	31.82	Tom DeHart	MAJESTIK
1/5/2010 15:03	15169	W14	105240	39100	66140	33.07	Rick Myers	WALKER
1/5/2010 15:06	15170	R26	103240	40700	62540	31.27	Ron Watson	RON WATSON
1/5/2010 15:23	15171	R25	101960	39920	62040	31.02	Josh Sizemore	RON WATSON
1/5/2010 15:25	15172	W2	93420	37780	55640	27.82	Glen Nelson	WALKER
1/5/10 Totals	31 loads					996.86		

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15141
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid
Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 07:02:15	SCALE 1	lmercer		Gross	90020 lb*
Out	01/05/2010 07:02:15		lmercer		Tare	36220 lb*
			* Manual Weight		Net	53800 lb
					Tons	26.90

Comments VAN ZANTEN - REPLACES VOIDED # 14949 & 15044 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	26.90	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	26.90	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	26.90	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15142
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid
Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 07:04:22	SCALE 1	lmercer		Gross	100400 lb*
Out	01/05/2010 07:04:22		lmercer		Tare	41480 lb*
			* Manual Weight		Net	58920 lb
					Tons	29.46

Comments WALKER - REPLACES VOIDED # 14950 & 15045 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.46	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.46	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.46	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15143

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 07:06:38	SCALE 1	lmercer		Gross	104080 lb*
Out	01/05/2010 07:06:38		lmercer		Tare	39060 lb*
			* Manual Weight		Net	65020 lb
					Tons	32.51

Comments KOOY - REPLACES VOIDED # 14951 & 15046 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.51	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.51	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.51	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15144

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 07:09:06	SCALE 1	lmercer		Gross	101440 lb*
Out	01/05/2010 07:09:06		lmercer		Tare	40080 lb*
			* Manual Weight		Net	61360 lb
					Tons	30.68

Comments FISCHER - REPLACES VOIDED # 14952 & 15047 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.68	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.68	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.68	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15145

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 07:14:40	SCALE 1	lmercer		Gross	110940 lb*
Out	01/05/2010 07:14:40		lmercer		Tare	39900 lb*
			* Manual Weight		Net	71040 lb
					Tons	35.52

Comments KOOY - REPLACES VOIDED # 14953 & 15048 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.52	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.52	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.52	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15146

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver DAVE DEL RE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 08:43:21	SCALE 1	lmercer		Gross	113140 lb*
Out	01/05/2010 08:43:21		lmercer		Tare	38900 lb*
			* Manual Weight		Net	74240 lb
					Tons	37.12

Comments KOOY - REPLACES VOIDED # 14957 & 15049 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.12	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.12	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	37.12	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15147
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 09:54:56	SCALE 1	lmercer		Gross	106160 lb*
Out	01/05/2010 09:54:56		lmercer		Tare	41220 lb*
			* Manual Weight		Net	64940 lb
					Tons	32.47

Comments BUD WINTER - REPLACES VOIDED # 14962 & 15050 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.47	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.47	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.47	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15148
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 10:11:15	SCALE 1	lmercer		Gross	110580 lb*
Out	01/05/2010 10:11:15		lmercer		Tare	39800 lb*
			* Manual Weight		Net	70780 lb
					Tons	35.39

Comments MAJESTIK - REPLACES VOIDED # 14963 & 15051 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.39	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.39	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.39	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15149

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# C18
Container
Driver JOHN MOORE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 10:13:41	SCALE 1	lmercer		Gross	100340 lb*
Out	01/05/2010 10:13:41		lmercer		Tare	39600 lb*
			* Manual Weight		Net	60740 lb
					Tons	30.37

Comments CELORIE BROS - REPLACES VOIDED # 14964 & 15052 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.37	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.37	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.37	Tons				SKAGIT

Total Tax
Total Ticket

203 WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15150

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 10:28:05	SCALE 1	lmercer		Gross	100060 lb*
Out	01/05/2010 10:28:05		lmercer		Tare	40700 lb*
			* Manual Weight		Net	59360 lb
					Tons	29.68

Comments FISCHER - REPLACES VOIDED # 14966 & 15053 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.68	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.68	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.68	Tons				SKAGIT

Total Tax
Total Ticket

203 WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15151

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver PETER VANDERENDE
Check#
Billing# 0000110
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 10:30:19	SCALE 1	lmercer		Gross	97940 lb*
Out	01/05/2010 10:30:19		lmercer		Tare	38380 lb*
			* Manual Weight		Net	59560 lb
					Tons	29.78

Comments BUD WINTER - REPLACES VOIDED # 14867 & 15054 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.78	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.78	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.78	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

303 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15152

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569
Container
Driver JEFF DE HART
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 10:50:18	SCALE 1	lmercer		Gross	111380 lb*
Out	01/05/2010 10:50:18		lmercer		Tare	40480 lb*
			* Manual Weight		Net	70900 lb
					Tons	35.45

Comments MAJESTIK - REPLACES VOIDED # 14971 & 15055 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.45	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.45	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.45	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15153
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# C26 Volume
Container
Driver RON WATSON
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 10:53:07	SCALE 1	lmercer		Gross	104220 lb*
Out	01/05/2010 11:05:18		lmercer		Tare	40700 lb*
			* Manual Weight		Net	63520 lb
					Tons	31.76

Comments RON WATSON - REPLACES VOIDED # 14972 & 15056 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.76	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.76	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.76	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15154
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M369 Volume
Container
Driver TOM DE HART
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 11:11:59	SCALE 1	lmercer		Gross	104200 lb*
Out	01/05/2010 11:11:59		lmercer		Tare	40480 lb*
			* Manual Weight		Net	63720 lb
					Tons	31.86

Comments MAJESTIK - REPLACES VOIDED # 14974 & 15057 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.86	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.86	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.86	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15155
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R25 Volume
Container
Driver JOSH SIZEMORE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 11:15:10	SCALE 1	lmercer		Gross	109320 lb*
Out	01/05/2010 11:28:11		lmercer		Tare	39920 lb*
			* Manual Weight		Net	69400 lb
					Tons	34.70

Comments RON WATSON - REPLACES VOIDED # 14975 & 15058 - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.70	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.70	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.70	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15156
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14 Volume
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 11:17:01	SCALE 1	lmercer		Gross	118300 lb*
Out	01/05/2010 11:17:01		lmercer		Tare	39100 lb*
			* Manual Weight		Net	79200 lb
					Tons	39.60

Comments WALKER - REPLACES VOIDED # 14976 & 15059 - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.60	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.60	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	39.60	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15157
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W2 Volume
Container
Driver GLEN NELSON
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 11:33:10	SCALE 1	lmercer		Gross	102920 lb*
Out	01/05/2010 11:43:38		lmercer		Tare	37780 lb*
			* Manual Weight		Net	65140 lb
					Tons	32.57

Comments WALKER - REPLACES VOIDED # 14978 & 15060 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.57	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.57	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.57	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15158
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6 Volume
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 11:39:42	SCALE 1	lmercer		Gross	92220 lb*
Out	01/05/2010 11:39:42		lmercer		Tare	36220 lb*
			* Manual Weight		Net	56000 lb
					Tons	28.00

Comments VAN ZANTEN - REPLACES VOIDED # 14979 & 15061 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	28.00	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	28.00	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	28.00	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15159
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12 Volume
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 11:54:59	SCALE 1	lmercer		Gross	105880 lb*
Out	01/05/2010 11:54:59		lmercer		Tare	41480 lb*
			* Manual Weight		Net	64400 lb
					Tons	32.20

Comments WALKER - REPLACES VOIDED # 14980 & 15062 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.20	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.20	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.20	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15160
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2 Volume
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 12:04:19	SCALE 1	lmercer		Gross	111040 lb*
Out	01/05/2010 12:04:19		lmercer		Tare	39060 lb*
			* Manual Weight		Net	71980 lb
					Tons	35.99

Comments KOOY- REPLACES VOIDED # 14983 & 15063 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.99	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.99	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.99	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15161
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02 Volume
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 12:17:05	SCALE 1	lmercer		Gross	106560 lb*
Out	01/05/2010 12:17:05		lmercer		Tare	40080 lb*
			* Manual Weight		Net	66480 lb
					Tons	33.24

Comments FISCHER - REPLACES VOIDED # 14984 & 15064 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.24	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.24	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.24	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

703 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15163
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3 Volume
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 13:57:00	SCALE 1	lmercer		Gross	106120 lb*
Out	01/05/2010 13:57:00		lmercer		Tare	41220 lb*
			* Manual Weight		Net	64900 lb
					Tons	32.45

Comments BUD WINTER - REPLACES VOIDED # 14990 & 15066 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.45	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.45	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.45	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

703 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15164
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# C18
Container
Driver JOHN MOORE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 14:01:40	SCALE 1	lmercer		Gross	103220 lb*
Out	01/05/2010 14:01:40		lmercer		Tare	39600 lb*
			* Manual Weight		Net	63620 lb
					Tons	31.81

Comments CELORIE BROS - REPLACES VOIDED # 14991 & 15068 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.81	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.81	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.81	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15165
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 14:03:16	SCALE 1	lmercer		Gross	99540 lb*
Out	01/05/2010 14:03:16		lmercer		Tare	39800 lb*
			* Manual Weight		Net	59740 lb
					Tons	29.87

Comments MAJESTIK - REPLACES VOIDED # 14992 & 15069 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.87	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.87	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.87	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15166
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01 Volume
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 14:19:37	SCALE 1	lmercer		Gross	103660 lb*
Out	01/05/2010 14:19:37		lmercer		Tare	40700 lb*
			* Manual Weight		Net	62960 lb
					Tons	31.48

Comments FISCHER - REPLACES # 14995 & 15070 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.48	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.48	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.48	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
03 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15167
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569 Volume
Container
Driver JEFF DE HART
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 14:47:10	SCALE 1	lmercer		Gross	102480 lb*
Out	01/05/2010 14:47:10		lmercer		Tare	40480 lb*
			* Manual Weight		Net	62000 lb
					Tons	31.00

Comments MAJESTIK - REPLACES VOIDED # 14997 & 15071 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.00	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.00	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.00	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
03 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15168
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M369
Container
Driver TOM DE HART
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 14:58:46	SCALE 1	lmercer		Gross	104120 lb*
Out	01/05/2010 14:58:46		lmercer		Tare	40480 lb*
			* Manual Weight		Net	63640 lb
					Tons	31.82

Comments MAJESTIK - REPLACES VOIDED # 14999 & 15072 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.82	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.82	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

703 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15169
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/05/2010 15:03:54	SCALE 1	lmercer		Gross	105240 lb*
Out	01/05/2010 15:03:54		lmercer		Tare	39100 lb*
			* Manual Weight		Net	66140 lb
					Tons	33.07

Comments WALKER - REPLACES VOIDED # 15000 & 15073 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.07	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.07	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.07	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

703 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15170
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R26
Container
Driver RON WATSON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	103240 lb*
In	01/05/2010 15:06:18	SCALE 1	lmercer		Tare	40700 lb*
Out	01/05/2010 15:06:18		lmercer		Net	62540 lb
			* Manual Weight		Tons	31.27

Comments RON WATSON - REPLACES VOIDED # 15001 & 15074 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.27	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.27	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.27	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15171
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R25
Container
Driver JOSH SIZEMORE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	101960 lb*
In	01/05/2010 15:23:38	SCALE 1	lmercer		Tare	39920 lb*
Out	01/05/2010 15:23:38		lmercer		Net	62040 lb
			* Manual Weight		Tons	31.02

Comments RON WATSON - REPLACES VOIDED # 15002 & 15075 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.02	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.02	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.02	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15172
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W2 Volume
Container
Driver GLEN NELSON
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/05/2010 15:25:52	SCALE 1	lmercer		Gross	93420 lb*
Out	01/05/2010 15:25:52		lmercer		Tare	37780 lb*
			* Manual Weight		Net	55640 lb
					Tons	27.82

Comments WALKER - REPLACES VOIDED # 15003 & 15076 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	27.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	27.82	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	27.82	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

Waste Management / AK St Reload and Recycle Facility
Customer Name: Ram Construction
Generator: Kimberly - Clark Corporation - Phase 4
Profile # 102137WA
January 6, 2010 Loads

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (Lb)	Net (Tons)	Driver	Carrier
1/6/2010 1[illegible]:00	15106	W20	100760	37620	63140	31.57	Willy Russell	WALKER
1/6/2010 11:19	15112	F02	108560	40080	68480	34.24	Jay Horton	FISCHER
1/6/2010 11:25	15113	VZ6	101880	36220	65660	32.83	Don Dooyema	VAN ZANTEN
1/6/2010 13:33	15174	M669	104380	39800	64580	32.29	Tye Lee	MAJESTIK
1/6/2010 13:36	15175	C18	105520	39600	65920	32.96	Peter Vanderende	CELORIE BROS
1/6/2010 14:00	15176	BW2	100160	38380	61780	30.89	Peter Vanderende	BUD WINTER
1/6/2010 14:04	15177	M369	106620	40480	66140	33.07	Tom DeHart	MAJESTIK
1/6/2010 14:16	15178	W14	107400	39100	68300	34.15	Rick Myers	WALKER
1/6/2010 7:00	15179	W12	103900	41480	62420	31.21	Stan Close	WALKER
1/6/2010 7:03	15180	K2	109080	39060	70020	35.01	Gary Benthin	KOOY
1/6/2010 7:05	15181	VZ6	102520	36220	66300	33.15	Don Dooyema	VAN ZANTEN
1/6/2010 7:08	15182	F02	108080	40080	68000	34.00	Jay Horton	FISCHER
1/6/2010 9:40	15183	C18	104420	39600	64820	32.41	Peter Vanderende	CELORIE BROS
1/6/2010 9:43	15184	M669	103380	39800	63580	31.79	Tye Lee	MAJESTIK
1/6/2010 10:02	15185	BW2	101260	38380	62880	31.44	Peter Vanderende	BUD WINTER
1/6/2010 10:05	15186	M369	104100	40480	63620	31.81	Tom DeHart	MAJESTIK
1/6/2010 14:24	15187	BW3	107100	41220	65880	32.94	Bud Winter	BUD WINTER
1/6/2010 10:13	15188	BW3	106740	41220	65520	32.76	Bud Winter	BUD WINTER
1/6/2010 10:15	15189	W14	115280	39100	76180	38.09	Rick Myers	WALKER
1/6/2010 10:40	15190	F01	110400	40700	69700	34.85	Dave Fischer	FISCHER
1/6/2010 10:58	15191	K01	114120	38900	75220	37.61	Dave DelRe	KOOY
1/6/2010 11:10	15192	W12	105020	41480	63540	31.77	Stan Close	WALKER
1/6/2010 11:11	15193	K2	109340	39060	70280	35.14	Gary Benthin	KOOY
1/6/2010 14:36	15194	F01	108760	40700	68060	34.03	Dave Fischer	FISCHER
1/6/2010 14:48	15195	K01	107820	38900	68920	34.46	Dave DelRe	KOOY
1/6/2010 14:55	15197	W20	101920	37620	64300	32.15	Willy Russell	WALKER
1/6/2010 15:20	15199	W12	102660	41480	61180	30.59	Stan Close	WALKER
1/6/2010 15:31	15200	K2	101060	39060	62000	31.00	Gary Benthin	KOOY
1/6/2010 15:34	15201	F02	103580	40080	63500	31.75	Jay Horton	FISCHER
1/6/10 Totals.	29 loads					959.96		

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15106

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W20
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 11:00:20	SCALE 1	lmercer		Gross	100760 lb*
Out	01/06/2010 11:16:06		lmercer		Tare	37620 lb*
			* Manual Weight		Net	63140 lb
					Tons	31.57

Comments WALKER - REPLACES VOIDED # 15020) LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.57	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.57	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.57	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15112

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 11:19:13	SCALE 1	lmercer		Gross	108560 lb*
Out	01/06/2010 11:19:13		lmercer		Tare	40080 lb*
			* Manual Weight		Net	68480 lb
					Tons	34.24

Comments FISCHER - REPLACES VOIDED # 15024 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.24	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.24	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.24	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15113

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	101880 lb*
In	01/06/2010 11:25:48	SCALE 1	lmercer		Tare	36220 lb*
Out	01/06/2010 11:25:48		lmercer		Net	65660 lb
			* Manual Weight		Tons	32.83

Comments VAN ZANTEN - REPLACES VOIDED # 15025 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.83	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.83	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.83	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15174

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	104380 lb*
In	01/06/2010 13:33:52	SCALE 1	lmercer		Tare	39800 lb*
Out	01/06/2010 13:33:52		lmercer		Net	64580 lb
			* Manual Weight		Tons	32.29

Comments MAJESTIK - REPLACES VOIDED # 15065 & 15173 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.29	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.29	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.29	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15175

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# C18
Container
Driver JOHN MOORE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 13:36:56	SCALE 1	lmercer		Gross	105520 lb*
Out	01/06/2010 13:36:56		lmercer		Tare	39600 lb*
			* Manual Weight		Net	65920 lb
					Tons	32.96

Comments CELORIE BROS - REPLACES VOIDED # 15067 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.96	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.96	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.96	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15176

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 14:00:00	SCALE 1	lmercer		Gross	100160 lb*
Out	01/06/2010 14:00:00		lmercer		Tare	38380 lb*
			* Manual Weight		Net	61780 lb
					Tons	30.89

Comments BUD WINTER - REPLACES VOIDED # 15077 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.89	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.89	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.89	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15177

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M369
Container
Driver TOM DE HART
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 14:04:36	SCALE 1	lmercer		Gross	106620 lb*
Out	01/06/2010 14:04:36		lmercer		Tare	40480 lb*
			* Manual Weight		Net	66140 lb
					Tons	33.07

Comments MAJESTIK - REPLACES VOIDED # 15079 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.07	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.07	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.07	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15178

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 14:16:30	SCALE 1	lmercer		Gross	107400 lb*
Out	01/06/2010 14:16:30		lmercer		Tare	39100 lb*
			* Manual Weight		Net	68300 lb
					Tons	34.15

Comments WALKER - REPLACES VOIDED # 15080 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.15	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.15	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.15	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15179
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 07:00:34	SCALE 1	lmercer		Gross	103900 lb*
Out	01/06/2010 07:00:34		lmercer		Tare	41480 lb*
			* Manual Weight		Net	62420 lb
					Tons	31.21

Comments WALKER - REPLACED VOIDED # 15004 & 15081 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.21	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.21	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.21	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15180
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 07:03:18	SCALE 1	lmercer		Gross	109080 lb*
Out	01/06/2010 07:03:18		lmercer		Tare	39060 lb*
			* Manual Weight		Net	70020 lb
					Tons	35.01

Comments KOOY - REPLACES VOIDED # 15005 & 15082 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.01	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.01	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.01	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15181
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 07:05:21	SCALE 1	lmercer		Gross	102520 lb*
Out	01/06/2010 07:05:21		lmercer		Tare	36220 lb*
			* Manual Weight		Net	66300 lb
					Tons	33.15

Comments VAN ZANTEN - REPLACES VOIDED # 15006 & 15083 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.15	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.15	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.15	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15182
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 07:08:41	SCALE 1	lmercer		Gross	108080 lb*
Out	01/06/2010 07:08:41		lmercer		Tare	40080 lb*
			* Manual Weight		Net	68000 lb
					Tons	34.00

Comments FISCHER - REPLACES VOIDED # 15007 & 15084 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.00	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.00	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.00	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15183
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# C18 Volume
Container
Driver JOHN MOORE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 09:40:42	SCALE 1	lmercer		Gross	104420 lb*
Out	01/06/2010 09:40:42		lmercer		Tare	39600 lb*
			* Manual Weight		Net	64820 lb
					Tons	32.41

Comments CELORIE BROS - REPLACES VOIDED # 15009 & 15085 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.41	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.41	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.41	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15184
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669 Volume
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 09:43:10	SCALE 1	lmercer		Gross	103380 lb*
Out	01/06/2010 09:43:10		lmercer		Tare	39800 lb*
			* Manual Weight		Net	63580 lb
					Tons	31.79

Comments MAJESTIK - REPLACES VOIDED # 15010 & 15086 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.79	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.79	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.79	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15185
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:02:45	SCALE 1	lmercer		Gross	101260 lb*
Out	01/06/2010 10:02:45		lmercer		Tare	38380 lb*
			* Manual Weight		Net	62880 lb
					Tons	31.44

Comments BUD WINTER - REPLACES VOIDED # 15011 & 15087 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.44	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.44	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.44	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15186
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M369 Volume
Container
Driver TOM DE HART
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:05:48	SCALE 1	lmercer		Gross	104100 lb*
Out	01/06/2010 10:05:48		lmercer		Tare	40480 lb*
			* Manual Weight		Net	63620 lb
					Tons	31.81

Comments MAJESTIK - REPLACES VOIDED # 15012 & 15088 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.81	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.81	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.81	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15187
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 14:24:35	SCALE 1	lmercer		Gross	107100 lb*
Out	01/06/2010 14:24:35		lmercer		Tare	41220 lb*
			* Manual Weight		Net	65880 lb
					Tons	32.94

Comments BUD WINTER - REPLACES VOIDED # 15089 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.94	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.94	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.94	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15188
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:13:56	SCALE 1	lmercer		Gross	106740 lb*
Out	01/06/2010 10:13:56		lmercer		Tare	41220 lb*
			* Manual Weight		Net	65520 lb
					Tons	32.76

Comments BUD WINTER - REPLACES VOIDED # 15013 & 15090 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.76	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.76	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.76	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15189
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:15:29	SCALE 1	lmercer		Gross	115280 lb*
Out	01/06/2010 10:15:29		lmercer		Tare	39100 lb*
			* Manual Weight		Net	76180 lb
					Tons	38.09

Comments WALKER - REPLACES VOIDED # 15014 & 15091 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.09	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.09	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.09	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15190
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:40:30	SCALE 1	lmercer		Gross	110400 lb*
Out	01/06/2010 10:40:30		lmercer		Tare	40700 lb*
			* Manual Weight		Net	69700 lb
					Tons	34.85

Comments FISCHER - REPLACES VOIDED # 15017 & 15092 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.85	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.85	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.85	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15191
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver DAVE DEL RE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:58:06	SCALE 1	lmercer		Gross	114120 lb*
Out	01/06/2010 10:58:06		lmercer		Tare	38900 lb*
			* Manual Weight		Net	75220 lb
					Tons	37.61

Comments KOOY- REPLACES VOIDED # 15019 & 15093 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.61	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.61	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	37.61	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15192
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 11:10:11	SCALE 1	lmercer		Gross	105020 lb*
Out	01/06/2010 11:10:11		lmercer		Tare	41480 lb*
			* Manual Weight		Net	63540 lb
					Tons	31.77

Comments WALKER - REPLACES VOIDED # 15021 & 15094 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.77	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.77	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.77	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15193
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 11:11:39	SCALE 1	lmercer		Gross	109340 lb*
Out	01/06/2010 11:11:39		lmercer		Tare	39060 lb*
			* Manual Weight		Net	70280 lb
					Tons	35.14

Comments KOOY - REPLACES VOIDED # 15022 & 15095 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.14	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.14	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.14	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15194
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 14:36:11	SCALE 1	lmercer		Gross	108760 lb*
Out	01/06/2010 14:36:11		lmercer		Tare	40700 lb*
			* Manual Weight		Net	68060 lb
					Tons	34.03

Comments FISCHER - REPLACES VOIDED # 15096 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.03	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.03	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.03	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15195
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver DAVE DEL RE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 14:48:38	SCALE 1	lmercer		Gross	107820 lb*
Out	01/06/2010 14:48:38		lmercer		Tare	38900 lb*
			* Manual Weight		Net	68920 lb
					Tons	34.46

Comments KOOY - REPLACES VOIDED # 15097 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.46	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.46	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.46	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15197
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W20
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/06/2010 14:55:30	SCALE 1	lmercer		Gross	101920 lb*
Out	01/06/2010 14:55:30		lmercer		Tare	37620 lb*
			* Manual Weight		Net	64300 lb
					Tons	32.15

Comments WALKER - REPLACES VOIDED # 15098 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.15	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.15	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.15	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15199
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12 Volume
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 15:20:59	SCALE 1	lmercer		Gross	102660 lb*
Out	01/06/2010 15:20:59		lmercer		Tare	41480 lb*
			* Manual Weight		Net	61180 lb
					Tons	30.59

Comments WALKER - REPLACES VOIDED # 15100 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.59	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.59	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.59	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15200
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2 Volume
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 15:31:18	SCALE 1	lmercer		Gross	101060 lb*
Out	01/06/2010 15:31:18		lmercer		Tare	39060 lb*
			* Manual Weight		Net	62000 lb
					Tons	31.00

Comments KOOY - REPLACES VOIDED # 15101 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.00	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.00	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.00	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15201
Ph: 206 763 5025

Customer Name	RAMCONST RAM CONSTRUCTION	Carrier	SELF HAULER *		
Ticket Date	01/06/2010	Vehicle#	F02	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver	JAY HORTON		
Route	AK	Check#			
Hauling Ticket#		Billing#	0000118		
Destination		Grid			
PO#	102137WA				

	Time	Scale	Operator	Inbound		
In	01/06/2010 15:34:33	SCALE 1	lmercer		Gross	103580 lb*
Out	01/06/2010 15:34:33		lmercer		Tare	40080 lb*
			* Manual Weight		Net	63500 lb
					Tons	31.75

Comments FISCHER - REPLACES VOIDED # 15102 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.75	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.75	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.75	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

703 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15185
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:02:45	SCALE 1	lmercer		Gross	101260 lb*
Out	01/06/2010 10:02:45		lmercer		Tare	38380 lb*
			* Manual Weight		Net	62880 lb
					Tons	31.44

Comments BUD WINTER - REPLACES VOIDED # 15011 & 15087 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.44	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.44	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.44	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

01 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15186
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/06/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M369 Volume
Container
Driver TOM DE HART
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/06/2010 10:05:48	SCALE 1	lmercer		Gross	104100 lb*
Out	01/06/2010 10:05:48		lmercer		Tare	40480 lb*
			* Manual Weight		Net	63620 lb
					Tons	31.81

Comments MAJESTIK - REPLACES VOIDED # 15012 & 15088 - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.81	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.81	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.81	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03 WM

Waste Management / AK St Reload and Recycle Facility
Customer Name: Ram Construction
Generator: Kimberly - Clark Corporation - Phase 4
Profile # 102137WA
January 7, 2010 Loads

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (Lb)	Net (Tons)	Driver	Carrier
1/7/2010 7:01	15103	VZ6	99700	36220	63480	31.74	Don Dooyema	VAN ZANTEN
1/7/2010 7:03	15104	C18	105280	39600	65680	32.84	Peter Vanderende	CELORIE BROS
1/7/2010 10:00	15108	M669	104080	39800	64280	32.14	Tye Lee	MAJESTIK
1/7/2010 10:02	15109	M569	104140	40480	63660	31.83	Jeff DeHart	MAJESTIK
1/7/2010 10:05	15110	BW3	107260	41220	66040	33.02	Bud Winter	BUD WINTER
1/7/2010 10:15	15114	BW2	104420	38380	66040	33.02	Peter Vanderende	BUD WINTER
1/7/2010 10:21	15118	F01	109800	40700	69100	34.55	Dave Fischer	FISCHER
1/7/2010 10:23	15119	F02	111620	40080	71540	35.77	Jay Horton	FISCHER
1/7/2010 10:27	15120	W12	103680	41480	62200	31.10	Stan Close	WALKER
1/7/2010 10:38	15121	W14	113340	39100	74240	37.12	Rick Myers	WALKER
1/7/2010 10:51	15128	W20	101800	37620	64180	32.09	Willy Russell	WALKER
1/7/2010 10:56	15133	K01	106880	38900	67980	33.99	Dave DelRe	KOOY
1/7/2010 11:10	15134	VZ6	105680	36220	69460	34.73	Don Dooyema	VAN ZANTEN
1/7/2010 11:13	15135	C18	105120	39600	65520	32.76	Peter Vanderende	CELORIE BROS
1/7/2010 12:26	15162	M369	104220	40480	63740	31.87	Tom DeHart	MAJESTIK
1/7/2010 13:58	15196	M669	104380	39800	64580	32.29	Tye Lee	MAJESTIK
1/7/2010 14:00	15198	M569	105600	40480	65120	32.56	Jeff DeHart	MAJESTIK
1/7/2010 14:16	15202	BW3	106640	41220	65420	32.71	Bud Winter	BUD WINTER
1/7/2010 14:28	15203	BW2	102380	38380	64000	32.00	Peter Vanderende	BUD WINTER
1/7/2010 14:30	15204	F02	105640	40080	65560	32.78	Jay Horton	FISCHER
1/7/2010 14:52	15205	W12	104280	41480	62800	31.40	Stan Close	WALKER
1/7/2010 15:04	15207	W14	115020	39100	75920	37.96	Rick Myers	WALKER
1/7/2010 15:06	15208	W20	104320	37620	66700	33.35	Willy Russell	WALKER
1/7/2010 15:21	15209	F01	108880	40700	68180	34.09	Dave Fischer	FISCHER
1/7/10 Totals	24 loads					797.71		

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15103

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 07:01:05	SCALE 1	lmercer		Gross	99700 lb
Out	01/07/2010 07:01:05		lmercer		Tare	36220 lb
					Net	63480 lb
					Tons	31.74

Comments VAN ZANTEN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.74	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.74	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.74	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15104

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# C18
Container
Driver JOHN MOORE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 07:03:21	SCALE 1	lmercer		Gross	105280 lb
Out	01/07/2010 07:03:21		lmercer		Tare	39600 lb
					Net	65680 lb
					Tons	32.84

Comments CELORIE BROS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.84	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.84	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.84	Tons				SKAGIT

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15108

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:00:12	SCALE 1	lmercer		Gross	104080 lb
Out	01/07/2010 10:00:12		lmercer		Tare	39800 lb
					Net	64280 lb
					Tons	32.14

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.14	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.14	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.14	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15109

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569
Container
Driver JEFF DE HART
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:02:30	SCALE 1	lmercer		Gross	104140 lb
Out	01/07/2010 10:02:30		lmercer		Tare	40480 lb
					Net	63660 lb
					Tons	31.83

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.83	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.83	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.83	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15110
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3 Volume
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:05:36	SCALE 1	lmercer		Gross	107260 lb
Out	01/07/2010 10:05:36		lmercer		Tare	41220 lb
					Net	66040 lb
					Tons	33.02

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.02	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.02	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.02	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203-WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15114
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:15:48	SCALE 1	lmercer		Gross	104420 lb
Out	01/07/2010 10:15:48		lmercer		Tare	38380 lb
					Net	66040 lb
					Tons	33.02

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.02	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.02	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.02	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203-WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15118
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:21:02	SCALE 1	lmercer		Gross	109800 lb
Out	01/07/2010 10:21:02		lmercer		Tare	40700 lb
					Net	69100 lb
					Tons	34.55

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.55	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.55	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.55	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15119
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:23:30	SCALE 1	lmercer		Gross	111620 lb
Out	01/07/2010 10:23:30		lmercer		Tare	40080 lb
					Net	71540 lb
					Tons	35.77

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.77	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.77	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.77	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15120
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:27:19	SCALE 1	lmercer		Gross	103680 lb
Out	01/07/2010 10:27:19		lmercer		Tare	41480 lb
					Net	62200 lb
					Tons	31.10

Comments WALKER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.10	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.10	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.10	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

208 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15121
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:38:08	SCALE 1	lmercer		Gross	113340 lb
Out	01/07/2010 10:38:08		lmercer		Tare	39100 lb
					Net	74240 lb
					Tons	37.12

Comments WALKER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.12	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.12	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	37.12	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

208 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15128
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W20
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:51:12	SCALE 1	lmercer		Gross	101800 lb
Out	01/07/2010 10:51:12		lmercer		Tare	37620 lb
					Net	64180 lb
					Tons	32.09

Comments WALKER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.09	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.09	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.09	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15133
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver DAVE DEL RE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 10:56:03	SCALE 1	lmercer		Gross	106880 lb
Out	01/07/2010 10:56:03		lmercer		Tare	38900 lb
					Net	67980 lb
					Tons	33.99

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.99	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.99	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.99	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15134
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 11:10:34	SCALE 1	lmercer		Gross	105680 lb
Out	01/07/2010 11:10:34		lmercer		Tare	36220 lb
					Net	69460 lb
					Tons	34.73

Comments VAN ZANTEN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.73	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.73	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.73	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15135
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# C18
Container
Driver JOHN MOORE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 11:13:02	SCALE 1	lmercer		Gross	105120 lb
Out	01/07/2010 11:13:02		lmercer		Tare	39600 lb
					Net	65520 lb
					Tons	32.76

Comments CELORIE BROS - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.76	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.76	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.76	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15162
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M369
Container
Driver TOM DE HART
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 12:26:05	SCALE 1	lmercer		Gross	104220 lb
Out	01/07/2010 12:26:05		lmercer		Tare	40480 lb
					Net	63740 lb
					Tons	31.87

Comments MAJESTIK LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.87	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.87	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.87	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15196
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 13:58:43	SCALE 1	lmercer		Gross	104380 lb
Out	01/07/2010 13:58:43		lmercer		Tare	39800 lb
					Net	64580 lb
					Tons	32.29

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.29	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.29	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.29	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15198

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569
Container
Driver JEFF DE HART
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 14:00:32	SCALE 1	lmercer		Gross	105600 lb
Out	01/07/2010 14:00:32		lmercer		Tare	40480 lb
					Net	65120 lb
					Tons	32.56

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.56	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.56	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.56	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15202

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 14:16:24	SCALE 1	lmercer		Gross	106640 lb
Out	01/07/2010 14:16:24		lmercer		Tare	41220 lb
					Net	65420 lb
					Tons	32.71

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.71	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.71	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.71	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15203
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/07/2010 14:28:15	SCALE 1	lmercer		Gross	102380 lb
Out	01/07/2010 14:28:15		lmercer		Tare	38380 lb
					Net	64000 lb
					Tons	32.00

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.00	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.00	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.00	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15204
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02 Volume
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	01/07/2010 14:30:27	SCALE 1	lmercer		Gross	105640 lb
Out	01/07/2010 14:30:27		lmercer		Tare	40080 lb
					Net	65560 lb
					Tons	32.78

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.78	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.78	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.78	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15205
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 14:52:22	SCALE 1	lmercer		Gross	104280 lb
Out	01/07/2010 14:52:22		lmercer		Tare	41480 lb
					Net	62800 lb
					Tons	31.40

Comments WALKER LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.40	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.40	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.40	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

03 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15207
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver RICK MYERS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 15:04:50	SCALE 1	lmercer		Gross	115020 lb
Out	01/07/2010 15:04:50		lmercer		Tare	39100 lb
					Net	75920 lb
					Tons	37.96

Comments WALKER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.96	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.96	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	37.96	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15208
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W20
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 15:06:48	SCALE 1	lmercer		Gross	104320 lb
Out	01/07/2010 15:06:48		lmercer		Tare	37620 lb
					Net	66700 lb
					Tons	33.35

Comments WALKER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.35	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.35	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.35	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15209
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/07/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver DAVE FISCHER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2010 15:21:43	SCALE 1	lmercer		Gross	108880 lb
Out	01/07/2010 15:21:43		lmercer		Tare	40700 lb
					Net	68180 lb
					Tons	34.09

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.09	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.09	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.09	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

Waste Management / AK St Reload and Recycle Facility
Customer Name: Ram Construction
Generator: Kimberly - Clark Corporation - Phase 4
Profile # 102137WA
January 8, 2010 Loads

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (Lb)	Net (Tons)	Driver	Carrier
1/8/2010 7:02	15210	VZ6	108720	36220	72500	36.25	Don Dooyema	VAN ZANTEN
1/8/2010 9:31	15213	M669	104420	39800	64620	32.31	Tye Lee	MAJESTIK
1/8/2010 9:33	15214	M569	110020	40480	69540	34.77	Jeff DeHart	MAJESTIK
1/8/2010 9:52	15215	F02	104480	40080	64400	32.20	Jay Horton	FISCHER
1/8/2010 9:57	15216	F01	106560	40700	65860	32.93	Bod Gott	FISCHER
1/8/2010 10:10	15217	W20	102420	37620	64800	32.40	Willy Russell	WALKER
1/8/2010 10:43	15218	K01	105300	38900	66400	33.20	Dave DeRe	KOOY
1/8/2010 10:45	15219	W12	103460	41480	61980	30.99	Bob Obrien	WALKER
1/8/2010 10:56	15220	VZ6	101500	36220	65280	32.64	Don Dooyema	VAN ZANTEN
1/8/2010 13:21	15221	M669	103940	39800	64140	32.07	Tye Lee	MAJESTIK
Total	10 Loads					329.76		

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15210

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 07:02:55	SCALE 1	lmercer		Gross	108720 lb
Out	01/08/2010 07:02:55		lmercer		Tare	36220 lb
					Net	72500 lb
					Tons	36.25

Comments VAN ZANTEN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.25	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.25	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.25	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15213

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 09:31:04	SCALE 1	lmercer		Gross	104420 lb
Out	01/08/2010 09:31:04		lmercer		Tare	39800 lb
					Net	64620 lb
					Tons	32.31

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.31	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.31	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.31	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15214
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569
Container
Driver JEFF DE HART
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 09:33:30	SCALE 1	lmercer		Gross	110020 lb
Out	01/08/2010 09:33:30		lmercer		Tare	40480 lb
					Net	69540 lb
					Tons	34.77

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.77	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.77	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.77	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15215
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F02
Container
Driver JAY HORTON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 09:52:03	SCALE 1	lmercer		Gross	104480 lb
Out	01/08/2010 09:52:03		lmercer		Tare	40080 lb
					Net	64400 lb
					Tons	32.20

Comments FISCHER LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.20	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.20	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.20	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15216

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# F01
Container
Driver BUD GOTT
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 09:57:03	SCALE 1	lmercer		Gross	106560 lb
Out	01/08/2010 09:57:03		lmercer		Tare	40700 lb
					Net	65860 lb
					Tons	32.93

Comments FISCHER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.93	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.93	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.93	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15217

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W20
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 10:10:05	SCALE 1	lmercer		Gross	102420 lb
Out	01/08/2010 10:10:05		lmercer		Tare	37620 lb
					Net	64800 lb
					Tons	32.40

Comments WALKER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.40	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.40	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.40	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15218

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver DAVE DEL RE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 10:43:06	SCALE 1	lmercer		Gross	105300 lb
Out	01/08/2010 10:43:06		lmercer		Tare	38900 lb
					Net	66400 lb
					Tons	33.20

Comments KOOY LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.20	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.20	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.20	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15219

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver BOB OBRIEN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 10:45:41	SCALE 1	lmercer		Gross	103460 lb
Out	01/08/2010 10:45:41		lmercer		Tare	41480 lb
					Net	61980 lb
					Tons	30.99

Comments WALKER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.99	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.99	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.99	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15220

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# VZ6
Container
Driver DON DOOYEMA
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 10:56:05	SCALE 1	lmercer		Gross	101500 lb
Out	01/08/2010 10:56:05		lmercer		Tare	36220 lb
					Net	65280 lb
					Tons	32.64

Comments VAN ZANTEN - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pct	100	32.64	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.64	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.64	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15221

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/08/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2010 13:21:25	SCALE 1	lmercer		Gross	103940 lb
Out	01/08/2010 13:21:25		lmercer		Tare	39800 lb
					Net	64140 lb
					Tons	32.07

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pct	100	32.07	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.07	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.07	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature
203 WM

Waste Management / AK St Reload and Recycle Facility
Customer Name: Ram Construction
Generator: Kimberly - Clark Corporation - Phase 4
Profile # 102137WA
January 11, 2010 Loads

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (Lb)	Net (Tons)	Driver	Carrier
1/11/2010 10:27	15229	BW3	106660	41220	65440	32 72	Peter Vanderande	Bud Winter
Total	1 Load					32.72		

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 15229

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/11/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver PETER VANDERANDE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/11/2010 10:27:18	SCALE 1	lmercer		Gross	106660 lb
Out	01/11/2010 10:27:18		lmercer		Tare	41220 lb
					Net	65440 lb
					Tons	32.72

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.72	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.72	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.72	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 15397

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/28/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BWE
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	01/28/2010 10:09:38	SCALE 1	lmercer
Out	01/28/2010 10:09:38		lmercer

Inbound

Gross	107040 lb
Tare	38300 lb
Net	68660 lb
Tons	34.33

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.33	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.33	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.33	Tons				SKAGIT

Driver's Signature P. Vanderende

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 15399

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 01/28/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	01/28/2010 10:03:16	SCALE 1	lmercer
Out	01/28/2010 10:03:16		lmercer

Inbound

Gross	106600 lb
Tare	41220 lb
Net	65380 lb
Tons	32.69

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.69	Tons				SKAGIT
2	ENVFEE$3.20 Env Fee $3.2	100	32.69	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.69	Tons				SKAGIT

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 15489
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 02/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW3
Container
Driver PETER VANDERENDE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/05/2010 10:14:12	SCALE 1	lmercer		Gross	103360 lb
Out	02/05/2010 10:14:12		lmercer		Tare	41220 lb
					Net	62140 lb
					Tons	31.07

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.07	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.07	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.07	Tons				SKAGIT

Driver's Signature P. Vanderende

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 15491
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 02/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/05/2010 10:37:39	SCALE 1	lmercer		Gross	99060 lb
Out	02/05/2010 10:37:39		lmercer		Tare	39900 lb
					Net	59160 lb
					Tons	29.58

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.58	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.58	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.58	Tons				SKAGIT

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 15492

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 02/05/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver DAVE DEL RE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/05/2010 10:41:49	SCALE 1	lmercer		Gross	99700 lb
Out	02/05/2010 10:41:49		lmercer		Tare	38900 lb
					Net	60800 lb
					Tons	30.40

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.40	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.40	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.40	Tons				SKAGIT

Dave

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 27509

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	03/07/2011 10:04:59	SCALE 1	LMERCER
Out	03/07/2011 10:04:59		LMERCER

Inbound

Gross	106560 lb
Tare	40900 lb
Net	65660 lb
Tons	32.83

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.83	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.83	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.83	Tons				SKAGIT
4	RECERT35-Recert Fee $35	100	1	Each				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 27510

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R52
Container
Driver MARK EHELER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	03/07/2011 10:12:12	SCALE 1	LMERCER
Out	03/07/2011 10:12:12		LMERCER

Inbound

Gross	105000 lb
Tare	41580 lb
Net	63420 lb
Tons	31.71

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.71	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.71	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.71	Tons				SKAGIT

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 27511

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver KURTIS ALSKOG
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	03/07/2011 10:28:31	SCALE 1	LMERCER
Out	03/07/2011 10:59:56	SCALE 1	LMERCER

Inbound

Gross	109400 lb
Tare	39760 lb
Net	69640 lb
Tons	34.82

Comments R TRASNP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.82	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.82	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 27513

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver BUD WINTER JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	03/07/2011 10:35:24	SCALE 1	LMERCER
Out	03/07/2011 10:35:24		LMERCER

Inbound

Gross	104860 lb
Tare	42180 lb
Net	62680 lb
Tons	31.34

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.34	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.34	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.34	Tons				SKAGIT

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 27700

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/15/2011
Payment Type Credit Account
Original Ticket#
Route AR
Transfer Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver KURTIS ALSKOG
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	03/15/2011 10:03:01	SCALE 1	Imercer		Gross	98860 lb
Out	03/15/2011 10:03:01		Imercer		Tare	39760 lb
					Net	59100 lb
					Tons	29.55

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.55	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.55	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.55	Tons				SKAGIT

Total Tax
Total Ticket

Customer's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 27791

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/15/2011
Payment Type Credit Account
Original Ticket#
Route AR
Transfer Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver MARTIN AMADOR
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	03/15/2011 11:09:04	SCALE 1	Imercer		Gross	101720 lb
Out	03/15/2011 11:09:04		Imercer		Tare	41960 lb
					Net	59760 lb
					Tons	29.88

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.88	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.88	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.88	Tons				SKAGIT

Total Tax
Total Ticket

Customer's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 27793

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/15/2011
Payment Type Credit Account
Manual Ticket#
Route RK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K5
Container
Driver JERROD HARWOOD
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
Tare	03/15/2011 11:06:48	SCALE 1	lmercer		Gross	105260 lb
Gross	03/15/2011 11:26:48		lmercer		Tare	38020 lb
					Net	67240 lb
					Tons	33.62

Comments KISSLER YE

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.62	Tons				SKAGIT
2 ENVFEE$3.20-Env Fee $3.2	100	33.62	Tons				SKAGIT
3 GONDOLA 16.10/TN-GONDOLA	100	33.62	Tons				SKAGIT

Total Tax
Total Ticket

Customer's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 27796

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/15/2011
Payment Type Credit Account
Manual Ticket#
Route RK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K4
Container
Driver JAY DELOSREYES
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
Tare	03/15/2011 11:40:45	SCALE 1	lmercer		Gross	100000 lb
Gross	03/15/2011 11:42:45		lmercer		Tare	38540 lb
					Net	61460 lb
					Tons	30.73

Comments KISSLER YE

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.73	Tons				SKAGIT
2 ENVFEE$3.20-Env Fee $3.2	100	30.73	Tons				SKAGIT
3 GONDOLA 16.10/TN-GONDOLA	100	30.73	Tons				SKAGIT

TK4

Total Tax
Total Ticket

Customer's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 27797

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 03/15/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
Job 100137WA

Carrier SELF HAULER *
Vehicle# K6
Container
Driver ANTHONY PEARL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	106400 lb*
In	03/15/2011 11:23:44	SCALE 1	lmercer		Tare	37860 lb*
Out	03/15/2011 11:23:44		lmercer		Net	68540 lb
			* Manual Weight		Tons	34.27

Comments KISSLER - LM (REPLACES VOIDED # 27792)

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Daily Cover-PCS-Tons-Pet	100	34.27	Tons				SKAGIT
ENVFEE$3.20-Env Fee $3.2	100	34.27	Tons				SKAGIT
GONDOLA 16.10/TN-GONDOLA	100	34.27	Tons				SKAGIT

Total Tax
Total Ticket

Driver = Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 28657
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/14/2011 09:39:57	SCALE 1	lmercer		Gross	107780 lb
Out	04/14/2011 09:39:57		lmercer		Tare	40900 lb
					Net	66880 lb
					Tons	33.44

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.44	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.44	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.44	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 28693
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/14/2011 13:45:05	SCALE 1	lmercer		Gross	109080 lb
Out	04/14/2011 13:45:05		lmercer		Tare	40900 lb
					Net	68180 lb
					Tons	34.09

Comments R TRANSPORT /BE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.09	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.09	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.09	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29317

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 09:23:27	SCALE 1	lmercer		Gross	99920 lb
Out	04/29/2011 09:23:27		lmercer		Tare	40600 lb
					Net	59320 lb
					Tons	29.66

Comments R TRANSP - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.66	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.66	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.66	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29318

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver KURTIS ALSKOG
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 09:40:04	SCALE 1	lmercer		Gross	106740 lb
Out	04/29/2011 09:40:04		lmercer		Tare	39760 lb
					Net	66980 lb
					Tons	33.49

Comments R TRANSP - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.49	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.49	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.49	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29320

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver MARTIN AMADOR
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 10:02:42	SCALE 1	lmercer		Gross	105560 lb
Out	04/29/2011 10:02:42		lmercer		Tare	41960 lb
					Net	63600 lb
					Tons	31.80

Comments RTRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.80	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.80	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.80	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29323

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 10:40:36	SCALE 1	lmercer		Gross	109140 lb
Out	04/29/2011 10:40:36		lmercer		Tare	39060 lb
					Net	70080 lb
					Tons	35.04

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.04	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.04	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.04	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29324
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 10:43:09	SCALE 1	lmercer		Gross	108420 lb
Out	04/29/2011 10:43:09		lmercer		Tare	38300 lb
					Net	70120 lb
					Tons	35.06

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.06	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.06	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.06	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29325
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 10:51:29	SCALE 1	lmercer		Gross	116940 lb
Out	04/29/2011 10:51:29		lmercer		Tare	39100 lb
					Net	77840 lb
					Tons	38.92

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.92	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.92	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.92	Tons				SKAGIT

Total Tax
Total Ticket

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29327

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 11:08:34	SCALE 1	lmercer		Gross	111060 lb
Out	04/29/2011 11:08:34		lmercer		Tare	38900 lb
					Net	72160 lb
					Tons	36.08

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.08	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.08	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.08	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29332

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 13:12:39	SCALE 1	lmercer		Gross	101900 lb
Out	04/29/2011 13:12:39		lmercer		Tare	40600 lb
					Net	61300 lb
					Tons	30.65

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.65	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.65	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.65	Tons				SKAGIT

Total Tax
Total Ticket

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29333

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver KURTIS ALSKOG
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/29/2011 13:16:34	SCALE 1	lmercer		Gross	107080 lb
Out	04/29/2011 13:16:34		lmercer		Tare	39760 lb
					Net	67320 lb
Comments	R TRANSP - LM				Tons	33.66

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.66	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.66	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.66	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29841

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R52
Container
Driver MARK EHELER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	05/25/2011 09:23:48	SCALE 1	lmercer
Out	05/25/2011 09:23:48		lmercer

Inbound

Gross	105920 lb
Tare	41580 lb
Net	64340 lb
Tons	32.17

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.17	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	32.17	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.17	Tons				

203WM

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29842

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	05/25/2011 09:27:36	SCALE 1	lmercer
Out	05/25/2011 09:27:36		lmercer

Inbound

Gross	105360 lb
Tare	41960 lb
Net	63400 lb
Tons	31.70

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.70	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	31.70	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.70	Tons				

203WM

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29843

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/25/2011 09:31:09	SCALE 1	lmercer		Gross	101120 lb
Out	05/25/2011 09:31:09		lmercer		Tare	40600 lb
					Net	60520 lb
					Tons	30.26

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.26	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.26	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.26	Tons				SKAGIT

203WM

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29844

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/25/2011 09:50:53	SCALE 1	lmercer		Gross	106120 lb
Out	05/25/2011 09:50:53		lmercer		Tare	42180 lb
					Net	63940 lb
					Tons	31.97

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.97	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.97	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.97	Tons				

203WM

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29854

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	05/25/2011 13:12:39	SCALE 1	lmercer
Out	05/25/2011 13:12:39		lmercer

Inbound

Gross	104360 lb
Tare	40600 lb
Net	63760 lb
Tons	31.88

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.88	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.88	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.88	Tons				

203WM

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29855

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	05/25/2011 13:18:16	SCALE 1	lmercer
Out	05/25/2011 13:18:16		lmercer

Inbound

Gross	105060 lb
Tare	41960 lb
Net	63100 lb
Tons	31.55

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.55	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.55	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.55	Tons				

203WM

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29857

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R52
Container
Driver MARK EHELER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator			
In	05/25/2011 13:25:44	SCALE 1	lmercer	Inbound	Gross	105980 lb
Out	05/25/2011 13:25:44		lmercer		Tare	41580 lb
					Net	64400 lb
					Tons	32.20

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.20	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	32.20	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.20	Tons				

203WM

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 29861

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator			
In	05/25/2011 14:41:48	SCALE 1	lmercer	Inbound	Gross	104980 lb
Out	05/25/2011 14:41:48		lmercer		Tare	42180 lb
					Net	62800 lb
					Tons	31.40

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.40	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	31.40	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.40	Tons				

203WM

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 29862

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/25/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver BUD WINTER JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	05/25/2011 15:39:11	SCALE 1	lmercer
Out	05/25/2011 15:39:11		lmercer

Inbound

Gross	104600 lb
Tare	38380 lb
Net	66220 lb
Tons	33.11

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.11	Tons				
2	CNVFEE$3.20-Env Fee $3.2	100	33.11	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.11	Tons				

P03WM

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29503

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/06/2011 09:43:12	SCALE 1	lmercer		Gross	103780 lb
Out	05/06/2011 09:43:12		lmercer		Tare	38880 lb
					Net	64900 lb
					Tons	32.45

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.45	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.45	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.45	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29505

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/06/2011 09:51:09	SCALE 1	lmercer		Gross	107580 lb
Out	05/06/2011 09:51:09		lmercer		Tare	38300 lb
					Net	69280 lb
					Tons	34.64

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.64	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.64	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.64	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29506

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/06/2011 10:08:44	SCALE 1	lmercer		Gross	111440 lb
Out	05/06/2011 10:08:44		lmercer		Tare	39060 lb
					Net	72380 lb
					Tons	36.19

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.19	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.19	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.19	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29510

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/06/2011 10:30:57	SCALE 1	lmercer		Gross	104480 lb
Out	05/06/2011 10:30:57		lmercer		Tare	39100 lb
					Net	65380 lb
					Tons	32.69

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.69	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.69	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.69	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29534

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/06/2011 13:48:27	SCALE 1	lmercer		Gross	105700 lb
Out	05/06/2011 13:48:27		lmercer		Tare	38880 lb
					Net	66820 lb
					Tons	33.41

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.41	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.41	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.41	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29538

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	05/06/2011 14:20:31	SCALE 1	lmercer		Gross	120620 lb
Out	05/06/2011 14:20:31		lmercer		Tare	38300 lb
					Net	82320 lb
					Tons	41.16

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	41.16	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	41.16	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	41.16	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29540

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	05/06/2011 14:42:44	SCALE 1	lmercer
Out	05/06/2011 14:42:44		lmercer

Inbound

Gross	105100 lb
Tare	39060 lb
Net	66040 lb
Tons	33.02

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.02	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.02	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.02	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29541

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	05/06/2011 14:55:16	SCALE 1	lmercer
Out	05/06/2011 14:55:16		lmercer

Inbound

Gross	108100 lb
Tare	39100 lb
Net	69000 lb
Tons	34.50

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.50	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.50	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.50	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29499
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2 Volume
Container
Driver BUD WINTER JR.
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	05/06/2011 09:13:59	SCALE 1	lmercer		Gross	106460 lb*
Out	05/06/2011 09:13:59		lmercer		Tare	38380 lb*
			* Manual Weight		Net	68080 lb
					Tons	34.04

Comments BUD WNTR - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.04	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.04	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.04	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29501
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10 Volume
Container
Driver JAMES GREENWOOD
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	05/06/2011 09:37:44	SCALE 1	lmercer		Gross	105700 lb
Out	05/06/2011 09:37:44		lmercer		Tare	42180 lb
					Net	63520 lb
					Tons	31.76

Comments BUD WNTR - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.76	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.76	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.76	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29526

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier R TRANSPORT R TRANSPORT
Vehicle# BW2 Volume
Container
Driver MUDFLAP-KENT SMITH
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	05/06/2011 13:02:44	SCALE 1	lmercer		Gross	104320 lb
Out	05/06/2011 13:02:44		lmercer		Tare	38380 lb
					Net	65940 lb
					Tons	32.97

Comments RAM CONST /BE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.97	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.97	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.97	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 29531

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 05/06/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10 Volume
Container
Driver JAMES GREENWOOD
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	05/06/2011 13:29:26	SCALE 1	lmercer		Gross	103300 lb
Out	05/06/2011 13:29:26		lmercer		Tare	42180 lb
					Net	61120 lb
					Tons	30.56

Comments BUD WNTR - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.56	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.56	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.56	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30197

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# JK5
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 09:52:37	SCALE 1	lmercer
Out	06/07/2011 10:02:45	SCALE 1	lmercer

Inbound

Gross	108640 lb
Tare	40620 lb
Net	68020 lb
Tons	34.01

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.01	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.01	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.01	Tons				SKAGIT

©WM
Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30198

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver BUD WINTER JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 09:44:12	SCALE 1	lmercer
Out	06/07/2011 09:44:12		lmercer

* Manual Weight

Inbound

Gross	104460 lb*
Tare	38380 lb*
Net	66080 lb
Tons	33.04

Comments REPLACES 30196
BUD WINTER YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.04	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.04	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.04	Tons				SKAGIT

©WM
Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30199
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver DENNIS SMITH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 09:58:07	SCALE 1	lmercer
Out	06/07/2011 09:58:07		lmercer

Inbound

Gross	110880 lb
Tare	42180 lb
Net	68700 lb
Tons	34.35

Comments BUD WINTER

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.35	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	34.35	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.35	Tons				

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30200
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K3T
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 10:06:28	SCALE 1	lmercer
Out	06/07/2011 10:14:42	SCALE 1	lmercer

Inbound

Gross	115640 lb
Tare	38360 lb
Net	77280 lb
Tons	38.64

Comments KODY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.64	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	38.64	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.64	Tons				SKAGIT
								SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30201

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 10:10:16	SCALE 1	lmercer
Out	06/07/2011 10:10:16		lmercer

Inbound

Gross	116080 lb
Tare	39060 lb
Net	77020 lb
Tons	38.51

Comments KODY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.51	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.51	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	38.51	Tons				

Driver's Signature 

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30202

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver STEVE FOLDVIK
Check#
Billing# 0000118
Grid

Volume

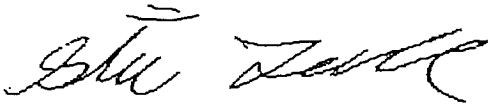
	Time	Scale	Operator
In	06/07/2011 10:16:18	SCALE 1	lmercer
Out	06/07/2011 10:16:18		lmercer

Inbound

Gross	100640 lb
Tare	38880 lb
Net	61760 lb
Tons	30.88

Comments KODY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.88	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.88	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	30.88	Tons				

Driver's Signature 

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30207
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N127
Container
Driver JACK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 10:55:15	SCALE 1	lmercer		Gross	109200 lb
Out	06/07/2011 10:55:15		lmercer		Tare	38080 lb
					Net	71120 lb
					Tons	35.56

Comments NOBACH YE

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.56	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.56	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.56	Tons				SKAGIT

WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30208
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N128
Container
Driver BRAD MARTINSON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 10:58:11	SCALE 1	lmercer		Gross	98000 lb
Out	06/07/2011 11:09:20	SCALE 1	lmercer		Tare	36320 lb
					Net	61680 lb
					Tons	30.84

Comments NOBACH YE

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.84	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.84	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.84	Tons				SKAGIT

WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30221
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# JK5
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 13:57:21	SCALE 1	lmercer		Gross	107640 lb*
Out	06/07/2011 13:57:21		lmercer		Tare	40620 lb*
			* Manual Weight		Net	67020 lb
					Tons	33.51

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.51	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.51	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	33.51	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30225
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver ~~MUDFLAP / KENT SMITH~~ TRAVIS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 14:18:30	SCALE 1	lmercer		Gross	114380 lb
Out	06/07/2011 14:18:30		lmercer		Tare	38300 lb
					Net	76080 lb
					Tons	38.04

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.04	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.04	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.04	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30226

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 14:20:49	SCALE 1	lmercer
Out	06/07/2011 14:20:49		lmercer

Inbound

Gross	117300 lb
Tare	39060 lb
Net	78240 lb
Tons	39.12

Comments KODY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.12	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.12	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	39.12	Tons				SKAGIT

DRWM

Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30230

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver JOHN KODY SR
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 14:51:52	SCALE 1	lmercer
Out	06/07/2011 14:51:52		lmercer

Inbound

Gross	118280 lb
Tare	38900 lb
Net	79380 lb
Tons	39.69

Comments KODY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.69	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.69	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	39.69	Tons				

John Kody

DRWM

Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30231

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 14:54:24	SCALE 1	lmercer
Out	06/07/2011 14:54:24		lmercer

Inbound

Gross	112620 lb
Tare	39100 lb
Net	73520 lb
Tons	36.76

Comments KODY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.76	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.76	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	36.76	Tons				

203WM
Driver's Signature Willy Russell

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30232

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N127
Container
Driver JACK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/07/2011 15:08:22	SCALE 1	lmercer
Out	06/07/2011 15:08:22		lmercer

Inbound

Gross	108120 lb
Tare	38080 lb
Net	70040 lb
Tons	35.02

Comments NOBACH YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.02	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.02	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	35.02	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30233

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N128
Container
Driver BRAD MARTINSON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 15:34:44	SCALE 1	lmercer		Gross	95640 lb
Out	06/07/2011 15:34:44		lmercer		Tare	36320 lb
					Net	59320 lb
					Tons	29.66

Comments NOBACH YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.66	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	29.66	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.66	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30265

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver JOHN KODY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 10:37:25	SCALE 1	lmercer		Gross	115940 lb*
Out	06/07/2011 10:37:25		lmercer		Tare	38900 lb*
			* Manual Weight		Net	77040 lb
					Tons	38.52

Comments KODY - LM (REPLACED VOIDED # 30204) WRONG CARRIER

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.52	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	38.52	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.52	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30266

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 10:43:19	SCALE 1	lmercer		Gross	115360 lb*
Out	06/07/2011 10:43:19		lmercer		Tare	39100 lb*
			* Manual Weight		Net	76260 lb
					Tons	38.13

Comments KODY - LM (REPLACED VOIDED 30205) WRONG CARRIER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.13	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	38.13	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.13	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30268

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver BUD WINTER JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 13:28:26	SCALE 1	lmercer		Gross	105080 lb*
Out	06/07/2011 13:28:26		lmercer		Tare	38380 lb*
			* Manual Weight		Net	66700 lb
					Tons	33.35

Comments REPLACES VOIDED # 30216 - WRONG CARRIER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.35	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	33.35	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.35	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30270
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver DENNIS SMITH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 13:34:00	SCALE 1	lmercer		Gross	111140 lb*
Out	06/07/2011 13:34:00		lmercer		Tare	42180 lb*
			* Manual Weight		Net	68960 lb
					Tons	34.48

Comments REPLACES VOIDED # 30217 (WRONG CARRIER) LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.48	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.48	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	34.48	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30271
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/07/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/07/2011 14:49:32	SCALE 1	lmercer		Gross	110000 lb*
Out	06/07/2011 14:49:32		lmercer		Tare	38880 lb*
			* Manual Weight		Net	71120 lb
					Tons	35.56

Comments REPLACES VOIDED # 30229 (WRONG CARRIER) LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.56	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.56	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.56	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30238

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/08/2011 09:11:55	SCALE 1	lmercer		Gross	104160 lb
Out	06/08/2011 09:11:55		lmercer		Tare	41960 lb
					Net	62200 lb
					Tons	31.10

Comments R TRANSPORT YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.10	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.10	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.10	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30240

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/08/2011 09:21:26	SCALE 1	lmercer		Gross	109660 lb
Out	06/08/2011 09:21:26		lmercer		Tare	42180 lb
					Net	67480 lb
					Tons	33.74

Comments BUD WINTER YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.74	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.74	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	33.74	Tons				

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30241
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver DENNIS SMITH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/08/2011 09:23:39	SCALE 1	lmercer
Out	06/08/2011 09:23:39		lmercer

Inbound

Gross	104620 lb
Tare	38380 lb
Net	66240 lb
Tons	33.12

Comments BUD WINTER YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.12	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.12	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	33.12	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30242
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/08/2011 09:25:44	SCALE 1	lmercer
Out	06/08/2011 09:25:44		lmercer

Inbound

Gross	102580 lb
Tare	40600 lb
Net	61980 lb
Tons	30.99

Comments R TRANSPORT YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.99	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.99	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	30.99	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30254
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator			
In	06/08/2011 12:57:39	SCALE 1	lmercer	Inbound	Gross	103700 lb
Out	06/08/2011 12:57:39		lmercer		Tare	41960 lb
					Net	61740 lb
					Tons	30.87

Comments R TRANSPORT YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.87	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.87	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.87	Tons				SKAGIT

219WM
Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30255
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator			
In	06/08/2011 13:01:27	SCALE 1	lmercer	Inbound	Gross	104640 lb
Out	06/08/2011 13:01:27		lmercer		Tare	40600 lb
					Net	64040 lb
					Tons	32.02

Comments R TRANSPORT YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.02	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.02	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.02	Tons				

223WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30257
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/08/2011 13:22:55	SCALE 1	lmercer
Out	06/08/2011 13:22:55		lmercer

Inbound

Gross	113280 lb
Tare	42180 lb
Net	71100 lb
Tons	35.55

Comments BUD WINTER YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.55	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.55	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	35.55	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30258
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/08/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver DENNIS SMITH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/08/2011 13:26:07	SCALE 1	lmercer
Out	06/08/2011 13:26:07		lmercer

Inbound

Gross	104020 lb
Tare	38380 lb
Net	65640 lb
Tons	32.82

Comments BUD WINTER YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.82	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.82	Tons				

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30262
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/09/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/09/2011 07:01:29	SCALE 1	lmercer
Out	06/09/2011 07:01:29		lmercer

Inbound

Gross	106080 lb
Tare	40600 lb
Net	65480 lb
Tons	32.74

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.74	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.74	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.74	Tons				

WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30263
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/09/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/09/2011 07:03:05	SCALE 1	lmercer
Out	06/09/2011 07:03:05		lmercer

Inbound

Gross	103320 lb
Tare	41960 lb
Net	61360 lb
Tons	30.68

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.68	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.68	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	30.68	Tons				

WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30269

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/09/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver DENNIS SMITH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/09/2011 07:36:52	SCALE 1	lmercer
Out	06/09/2011 07:36:52		lmercer

Inbound

Gross	107860 lb
Tare	38380 lb
Net	69480 lb
Tons	34.74

Comments BUD WINTER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.74	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.74	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	34.74	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30348
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 09:03:36	SCALE 1	lmercer
Out	06/14/2011 09:03:36		lmercer

Inbound

Gross	105480 lb
Tare	40600 lb
Net	64880 lb
Tons	32.44

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.44	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.44	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.44	Tons				

Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30350
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R52
Container
Driver MARK EHELER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 09:16:09	SCALE 1	lmercer
Out	06/14/2011 09:16:09		lmercer

Inbound

Gross	105200 lb
Tare	41580 lb
Net	63620 lb
Tons	31.81

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.81	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.81	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.81	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30351
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/14/2011 09:17:25	SCALE 1	lmercer		Gross	104340 lb
Out	06/14/2011 09:17:25		lmercer		Tare	41960 lb
					Net	62380 lb
					Tons	31.19

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.19	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.19	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.19	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30353
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver BUD WINTER JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/14/2011 09:26:47	SCALE 1	lmercer		Gross	105240 lb
Out	06/14/2011 09:26:47		lmercer		Tare	38380 lb
					Net	66860 lb
					Tons	33.43

Comments BUD WNTR - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.43	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.43	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	33.43	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 30359

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 09:54:34	SCALE 1	lmercer
Out	06/14/2011 09:54:34		lmercer

Inbound

Gross	105800 lb
Tare	42180 lb
Net	63620 lb
Tons	31.81

Comments BUD WNTR LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.81	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	31.81	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.81	Tons				

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 30361

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver GLEN NELSON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 10:03:14	SCALE 1	lmercer
Out	06/14/2011 10:03:14		lmercer

Inbound

Gross	107220 lb
Tare	38300 lb
Net	68920 lb
Tons	34.46

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.46	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	34.46	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.46	Tons				

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30376
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 12:39:16	SCALE 1	lmercer
Out	06/14/2011 12:39:16		lmercer

Inbound

Gross	106620 lb
Tare	40600 lb
Net	66020 lb
Tons	33.01

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.01	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	33.01	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.01	Tons				

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30380
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 12:57:26	SCALE 1	lmercer
Out	06/14/2011 12:57:26		lmercer

Inbound

Gross	103420 lb
Tare	41960 lb
Net	61460 lb
Tons	30.73

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.73	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	30.73	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.73	Tons				

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30383

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R52
Container
Driver MARK EHELER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 13:19:11	SCALE 1	lmercer
Out	06/14/2011 13:19:11		lmercer

Inbound

Gross	105920 lb
Tare	41580 lb
Net	64340 lb
Tons	32.17

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.17	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	32.17	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.17	Tons				

Total Tax
Total Ticket

WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30384

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW2
Container
Driver BUD WINTER JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 13:21:07	SCALE 1	lmercer
Out	06/14/2011 13:21:07		lmercer

Inbound

Gross	103760 lb
Tare	38380 lb
Net	65380 lb
Tons	32.69

Comments BUD WNTR - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.69	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	32.69	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.69	Tons				SKAGIT

Total Tax
Total Ticket

WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30388
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver BUD WINTER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 14:01:38	SCALE 1	lmercer
Out	06/14/2011 14:01:38		lmercer

Inbound

Gross	106540 lb
Tare	42180 lb
Net	64360 lb
Tons	32.18

Comments BUD WNTR - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.18	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	32.18	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.18	Tons				

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30390
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/14/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver GLEN NELSON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/14/2011 14:21:18	SCALE 1	lmercer
Out	06/14/2011 14:21:18		lmercer

Inbound

Gross	109520 lb
Tare	38300 lb
Net	71220 lb
Tons	35.61

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.61	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	35.61	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.61	Tons				SKAGIT
								SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134
Ph: 206 763 5025

Original
Ticket# 30544

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver JOHN KODY SR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 08:50:59	SCALE 1	lmercer		Gross	118240 lb
Out	06/27/2011 08:50:59		lmercer		Tare	38900 lb
					Net	79340 lb
					Tons	39.67

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.67	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.67	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	39.67	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134
Ph: 206 763 5025

Original
Ticket# 30547

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver DENNIS SMITH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 09:08:34	SCALE 1	lmercer		Gross	107560 lb
Out	06/27/2011 09:08:34		lmercer		Tare	42180 lb
					Net	65380 lb
					Tons	32.69

Comments BUD WNTR -LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.69	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.69	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.69	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30548

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53 Volume
Container
Driver JAMES GREENWOOD
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	06/27/2011 09:20:51	SCALE 1	lmercer		Gross	94780 lb
Out	06/27/2011 09:20:51		lmercer		Tare	39760 lb
					Net	55020 lb
					Tons	27.51

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	27.51	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	27.51	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	27.51	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30549

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14 Volume
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	06/27/2011 09:25:59	SCALE 1	lmercer		Gross	117060 lb
Out	06/27/2011 09:25:59		lmercer		Tare	39100 lb
					Net	77960 lb
					Tons	38.98

Comments KDOV - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.98	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.98	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.98	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30550

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569
Container
Driver SCOT WINSCHELL
Check#
Billing# 0000110
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 09:32:41	SCALE 1	lmercer		Gross	97040 lb
Out	06/27/2011 09:32:41		lmercer		Tare	40480 lb
					Net	56560 lb
					Tons	28.28

Comments MAJESTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	28.28	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	28.28	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	28.28	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30551

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 09:43:06	SCALE 1	lmercer		Gross	114040 lb
Out	06/27/2011 09:43:06		lmercer		Tare	39060 lb
					Net	74980 lb
					Tons	37.49

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.49	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.49	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	37.49	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30552

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver GARY JENSEN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/27/2011 09:47:31	SCALE 1	lmercer
Out	06/27/2011 09:47:31		lmercer

Inbound

Gross	104620 lb
Tare	38880 lb
Net	65740 lb
Tons	32.87

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.87	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.87	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.87	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30553

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# 604T
Container
Driver JOEY CLEAVE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/27/2011 10:04:28	SCALE 1	lmercer
Out	06/27/2011 10:13:07	SCALE 1	lmercer

Inbound

Gross	109320 lb
Tare	41260 lb
Net	68060 lb
Tons	34.03

Comments GIBSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.03	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.03	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.03	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Reprint
Ticket# 30554

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# G999T
Container
Driver MIKE DICKMEYER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/27/2011 10:08:05	SCALE 1	lmercer
Out	06/27/2011 10:18:10	SCALE 1	lmercer

Inbound

Gross	108880 lb
Tare	42040 lb
Net	66840 lb
Tons	33.42

Comments GIBSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.42	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.42	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.42	Tons				SKAGIT

203WM
Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 30558

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# SG009
Container
Driver JASON BRUNNER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	06/27/2011 10:35:05	SCALE 1	lmercer
Out	06/27/2011 10:35:05		lmercer

Inbound

Gross	106000 lb
Tare	37700 lb
Net	68300 lb
Tons	34.15

Comments GIBSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.15	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.15	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.15	Tons				SKAGIT

203WM
Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30561
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K8 Volume
Container
Driver ED DARWOOD .
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	06/27/2011 10:49:12	SCALE 1	lmercer		Gross	103000 lb
Out	06/27/2011 10:49:12		lmercer		Tare	41400 lb
					Net	61600 lb
					Tons	30.80

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.80	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.80	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	30.80	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30557
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# G909T Volume
Container
Driver CARSTIN CURRIE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	06/27/2011 10:32:55	SCALE 1	lmercer		Gross	104660 lb
Out	06/27/2011 10:50:49	SCALE 1	lmercer		Tare	38760 lb
					Net	65900 lb
					Tons	32.95

Comments GIBSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.95	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.95	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.95	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30568
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver JOHN KODY SR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 12:37:53	SCALE 1	lmercer		Gross	105860 lb
Out	06/27/2011 12:37:53		lmercer		Tare	38900 lb
					Net	66960 lb
					Tons	33.48

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.48	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.48	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	33.48	Tons				

Total Tax
Total Ticket

Driver s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30569
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# BW10
Container
Driver DENNIS SMITH
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 13:01:57	SCALE 1	lmercer		Gross	108040 lb
Out	06/27/2011 13:01:57		lmercer		Tare	42180 lb
					Net	65860 lb
					Tons	32.93

Comments BUD WNTR - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.93	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.93	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.93	Tons				

Total Tax
Total Ticket

Driver s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30570
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 13:06:59	SCALE 1	lmercer		Gross	115200 lb
Out	06/27/2011 13:06:59		lmercer		Tare	39100 lb
					Net	76100 lb
					Tons	38.05

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.05	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.05	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	38.05	Tons				

©WM
Driver s Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30571
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver JAMES GREENWOOD
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 13:24:42	SCALE 1	lmercer		Gross	103480 lb
Out	06/27/2011 13:24:42		lmercer		Tare	39760 lb
					Net	63720 lb
					Tons	31.86

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.86	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.86	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.86	Tons				

©WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30572
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 13:29:27	SCALE 1	lmercer		Gross	109380 lb
Out	06/27/2011 13:29:27		lmercer		Tare	39060 lb
					Net	70320 lb
					Tons	35.16

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.16	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	35.16	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.16	Tons				

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30573
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569
Container
Driver SCOT WINSCHELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 13:37:04	SCALE 1	lmercer		Gross	99800 lb
Out	06/27/2011 13:37:04		lmercer		Tare	40480 lb
					Net	59320 lb
					Tons	29.66

Comments MAJCSTIK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.66	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	29.66	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.66	Tons				

Scot

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30575

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver GARY JENSEN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 13:53:34	SCALE 1	lmercer		Gross	111260 lb
Out	06/27/2011 13:53:34		lmercer		Tare	38880 lb
					Net	72380 lb
					Tons	36.19

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.19	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.19	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.19	Tons				SKAGIT

Total Tax
Total Ticket

WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 30577

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/27/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K8
Container
Driver ED DARWOOD
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/27/2011 14:58:11	SCALE 1	lmercer		Gross	103260 lb
Out	06/27/2011 14:58:11		lmercer		Tare	41400 lb
					Net	61860 lb
					Tons	30.93

Comments KISSLER - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.93	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.93	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	30.93	Tons				

Total Tax
Total Ticket

WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30578

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/28/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/28/2011 07:00:29	SCALE 1	lmercer		Gross	117500 lb
Out	06/28/2011 07:00:29		lmercer		Tare	40600 lb
					Net	76900 lb
					Tons	38.45

Comments R TRANSP - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.45	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.45	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.45	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30580

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 06/28/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver ~~KURTIS ALSKOG~~ James Greenwood
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	06/28/2011 07:04:48	SCALE 1	lmercer		Gross	101320 lb
Out	06/28/2011 07:04:48		lmercer		Tare	39760 lb
					Net	61560 lb
					Tons	30.78

Comments R TRANSPORT - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.78	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.78	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.78	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 20239
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/27/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 1021137WA

Carrier SELF HAULER *
Vehicle# W8
Container
Driver JOHN KODY SR.
Check#
Billing# 0000118
Grid

Volume

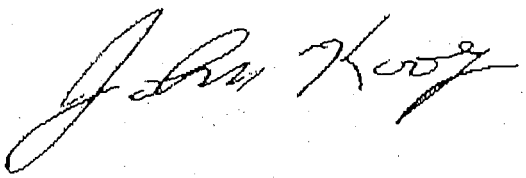
	Time	Scale	Operator	Inbound		
In	07/27/2010 10:43:58	SCALE 1	lmercer		Gross	116140 lb
Out	07/27/2010 10:43:58		lmercer		Tare	36860 lb
					Net	79280 lb
					Tons	39.64

Comments JOHN H KODY - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.64	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.64	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	39.64	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature



WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 20240
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/27/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 1021137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

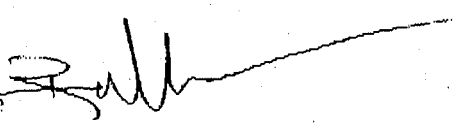
	Time	Scale	Operator	Inbound		
In	07/27/2010 10:47:11	SCALE 1	lmercer		Gross	118320 lb
Out	07/27/2010 10:47:11		lmercer		Tare	39100 lb
					Net	79220 lb
					Tons	39.61

Comments JOHN H KODY - LM

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS Tons Pet	100	39.61	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.61	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	39.61	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature



WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 20244

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/27/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KUOY JR.
Check#
Billing# 0000118
Grid

Volume

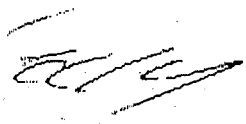
	Time	Scale	Operator	Inbound		
In	07/27/2010 11:01:51	SCALE 1	lmercer		Gross	124600 lb
Out	07/27/2010 11:01:51		lmercer		Tare	39900 lb
					Net	84700 lb
					Tons	42.35

Comments JOHN H KUOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	42.35	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	42.35	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	42.35	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature



WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 20265

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/27/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver PETER VANDERWENDE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/27/2010 14:11:43	SCALE 1	lmercer		Gross	123000 lb
Out	07/27/2010 14:11:43		lmercer		Tare	38600 lb
					Net	84400 lb
					Tons	42.20

Comments JOHN H KUOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	42.20	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	42.20	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	42.20	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver's Signature P. Vanderwende

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 23691
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 10/11/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	10/11/2010 09:43:12	SCALE 1	lmercer		Gross	112700 lb
Out	10/11/2010 09:43:12		lmercer		Tare	39060 lb
					Net	73640 lb
					Tons	36.82

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.82	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.82	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.82	Tons				SKAGIT

03WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 23692
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 10/11/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	10/11/2010 09:46:15	SCALE 1	lmercer		Gross	120200 lb
Out	10/11/2010 09:46:15		lmercer		Tare	39100 lb
					Net	81100 lb
					Tons	40.55

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	40.55	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	40.55	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	40.55	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 23694
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 10/11/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W12
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	10/11/2010 10:10:43	SCALE 1	lmercer		Gross	105260 lb
Out	10/11/2010 10:10:43		lmercer		Tare	40540 lb
					Net	64720 lb
					Tons	32.36

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.36	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.36	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.36	Tons				SKAGIT

203WM

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 23696
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 10/11/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03T
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	10/11/2010 10:17:29	SCALE 1	lmercer		Gross	103900 lb*
Out	10/11/2010 10:17:29		lmercer		Tare	38200 lb*
			* Manual Weight		Net	65700 lb
					Tons	32.85

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.85	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.85	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.85	Tons				SKAGIT

203WM

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 23697
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 10/11/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	10/11/2010 10:19:44	SCALE 1	lmercer		Gross	107300 lb
Out	10/11/2010 10:19:44		lmercer		Tare	39900 lb
					Net	67400 lb
					Tons	33.70

Comments KOOY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.70	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.70	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.70	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 23698
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 10/11/2010
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver MARTIN AMADOR
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	10/11/2010 10:23:20	SCALE 1	lmercer		Gross	120560 lb
Out	10/11/2010 10:23:20		lmercer		Tare	41960 lb
					Net	78600 lb
					Tons	39.30

Comments R TRANSPORT YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	39.30	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	39.30	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	39.30	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 14719

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 12/11/2009
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier CELORIE BROS CELORIE BROS
Vehicle# K1 Volume
Container
Driver DAVE DELRE
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	12/11/2009 12:38:49	SCALE 1	lmercer		Gross	105980 lb
Out	12/11/2009 12:58:55	SCALE 1	lmercer		Tare	39220 lb
					Net	66760 lb
					Tons	33.38

Comments KOOY TRUCKING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-Tons-C	100	33.38	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.38	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.38	Tons				SKAGIT
4	PROFILEF75-Profile Fee $	100	1	Each				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 14722

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 12/11/2009
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier CELORIE BROS CELORIE BROS
Vehicle# W10 Volume
Container
Driver GLEN NELSON
Check#
Billing# 0000118
Grid

	Time	Scale	Operator	Inbound		
In	12/11/2009 14:47:22	SCALE 1	lmercer		Gross	112680 lb
Out	12/11/2009 15:01:31	SCALE 1	lmercer		Tare	39860 lb
					Net	72820 lb
					Tons	36.41

Comments WALKER ENTERPRISES - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-Tons-C	100	36.41	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.41	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.41	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 14829

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 12/22/2009
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	12/22/2009 10:17:47	SCALE 1	lmercer		Gross	107960 lb
Out	12/22/2009 10:17:47		lmercer		Tare	39800 lb
					Net	68160 lb
					Tons	34.08

Comments MAJESTIC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-Tons-C	100	34.08	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.08	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.08	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 14842

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 12/22/2009
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M669
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	12/22/2009 14:23:44	SCALE 1	lmercer		Gross	72400 lb
Out	12/22/2009 14:23:44		lmercer		Tare	39800 lb
					Net	32600 lb
					Tons	16.30

Comments MAJESTIC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-Tons-C	100	16.30	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	16.30	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	16.30	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

203 WM

AK Street Reload Facility
70 South Alaska Street
Seattle, WA 98134
Phone: 206-763-5025

Customer: Ram Construction
Generator Name: Kimberly-Clark Corporation - Phase 4
Profile: 102137WA
July 2011 Summary

Date	No. of Loads	Net Tons
7/12/2011	18	599.24
7/13/2011	5	173.32
7/28/2011	2	71.33
7/29/2011	1	27.44
	26	**871.33**

Thank You,
Lori Mercer
Scale Attendant
Waste Management - ASRF

AK Street Reload Facility
70 South Alaska Street
Seattle, WA 98134
Phone: 206-763-5025

Customer: Ram Construction
Generator Name: Kimberly-Clark Corporation - Phase 4
Profile: 102137WA
Load Summary for July 12, 2011

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (lb)	Net (ton)
7/12/2011 9:10	30963	K03	110200	38200	72000	36.00
7/12/2011 9:31	30964	W14	110160	39100	71060	35.53
7/12/2011 9:36	30976	N127	107140	38080	69060	34.53
7/12/2011 9:39	30965	N121	98160	36760	61400	30.70
7/12/2011 9:41	30975	R53	110700	39760	70940	35.47
7/12/2011 10:15	30973	K8	105980	40480	65500	32.75
7/12/2011 13:01	30952	K03	109880	38200	71680	35.84
7/12/2011 13:10	30962	W14	105480	39100	66380	33.19
7/12/2011 13:19	30961	R9	105140	41960	63180	31.59
7/12/2011 13:24	30959	N127	103240	38080	65160	32.58
7/12/2011 13:41	30960	R53	95540	39760	55780	27.89
7/12/2011 13:43	30957	N121	96800	36760	60040	30.02
7/12/2011 13:45	30958	R51	109720	40600	69120	34.56
7/12/2011 13:52	30955	K2	109520	39060	70460	35.23
7/12/2011 14:07	30969	K8	107340	41400	65940	32.97
7/12/2011 14:34	30966	JK5	112700	40620	72080	36.04
7/12/2011 21:27	30968	R9	105200	41960	63240	31.62
7/12/2011 21:45	30972	R51	106060	40600	65460	32.73

18 Loads **599.24**

AK Street Reload Facility
70 South Alaska Street
Seattle, WA 98134
Phone: 206-763-5025

Customer: Ram Construction
Generator Name: Kimberly-Clark Corporation - Phase 4
Profile: 102137WA
Load Summary for July 13, 2011

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (lb)	Net (ton)
7/13/2011 1:13	30929	K01	110480	38900	71580	35.79
7/13/2011 7:03	30950	W14	112520	39100	73420	36.71
7/13/2011 7:07	30954	K03	110080	38200	71880	35.94
7/13/2011 7:16	30949	N127	109540	38080	71460	35.73
7/13/2011 10:33	30971	N121	95060	36760	58300	29.15

5 Loads 173.32

AK Street Reload Facility
70 South Alaska Street
Seattle, WA 98134
Phone: 206-763-5025

Customer: Ram Construction
Generator Name: Kimberly-Clark Corporation - Phase 4
Profile: 102137WA
Load Summary for July 28, 2011

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (lb)	Net (ton)
7/28/2011 9:33	31351	R53	106480	39760	66720	33.36
7/28/2011 13:57	31348	R53	115700	39760	75940	37.97

2 Loads 71.33

AK Street Reload Facility
70 South Alaska Street
Seattle, WA 98134
Phone: 206-763-5025

Customer: Ram Construction
Generator Name: Kimberly-Clark Corporation - Phase 4
Profile: 102137WA
Load Summary for July 29, 2011

Time In	Ticket No.	Vehicle ID	Gross (lb)	Tare (lb)	Net (lb)	Net (ton)
7/29/2011 10:05	31349	M569	95360	40480	54880	27.44

1 Load 27.44

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30963

Ph: 206 763 5025

Customer Name KAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver GLEN NELSON
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 09:10:40	SCALE 1	lmercer		Gross	110200 lb*
Out	07/12/2011 09:10:40		lmercer		Tare	38200 lb*
					Net	72000 lb
			* Manual Weight		Tons	36.00

Comments REPLACE#30783 PROFILE#102137WA KOOY JM

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.00	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.00	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	36.00	Tons				

Total Tax
Total Ticket

WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30964

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 09:31:51	SCALE 1	lmercer		Gross	110160 lb*
Out	07/12/2011 09:31:51		lmercer		Tare	39100 lb*
					Net	71060 lb
			* Manual Weight		Tons	35.53

Comments REPLACE#30785 PROFILE#102137WA KOOY JM

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.53	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.53	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	35.53	Tons				

Total Tax
Total Ticket

WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30976
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N127
Container
Driver JACK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 09:36:01	SCALE 1	lmercer		Gross	107140 lb*
Out	07/12/2011 09:36:41		lmercer		Tare	38080 lb*
					Net	69060 lb
			* Manual Weight		Tons	34.53

Comments REPLACE#30786 PROFILE#102137WA NOBACH JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.53	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.53	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	34.53	Tons				SKAGIT

Total Tax
Total Ticket

203WM Driver = Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30965
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N121
Container
Driver JERRY HOWATT
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 09:39:18	SCALE 1	lmercer		Gross	98160 lb*
Out	07/12/2011 09:39:18		lmercer		Tare	36760 lb*
					Net	61400 lb
			* Manual Weight		Tons	30.70

Comments REPLACE#30787 PROFILE#102137WA NOBACH JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.70	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.70	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	30.70	Tons				

Total Tax
Total Ticket

203WM Driver = Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Reprint
Ticket# 30975
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver KURTIS ALSKOG
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 09:41:50	SCALE 1	lmercer		Gross	110700 lb*
Out	07/12/2011 09:41:50		lmercer		Tare	39760 lb*
					Net	70940 lb
			* Manual Weight		Tons	35.47

Comments REPLACE#30788 PROFILE#102137WA R TRANS JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.47	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.47	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.47	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Reprint
Ticket# 30973
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K8
Container
Driver ED DARWOOD .
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 10:15:14	SCALE 1	lmercer		Gross	105980 lb*
Out	07/12/2011 10:15:14	SCALE 1	lmercer		Tare	40480 lb*
					Net	65500 lb
			* Manual Weight		Tons	32.75

Comments REPLACE#30795 PROFILE#102137WA KISSLER JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.75	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.75	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.75	Tons				

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30958

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver JOHN KOOY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 13:01:05	SCALE 1	lmercer		Gross	109880 lb*
Out	07/12/2011 13:01:05		lmercer		Tare	38200 lb*
			* Manual Weight		Net	71680 lb
					Tons	35.84

Comments REPLACES#30825 PROFILE#102137WA KOOY JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.84	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.84	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	35.84	Tons				

Total Tax
Total Ticket

Driver s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30962

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 13:10:48	SCALE 1	lmercer		Gross	105480 lb*
Out	07/12/2011 13:10:48		lmercer		Tare	39100 lb*
			* Manual Weight		Net	66380 lb
					Tons	33.19

Comments REPLACE#30807 PROFILE#102137WA KOOY JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.19	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.19	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	33.19	Tons				

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30961
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 13:19:35	SCALE 1	lmercer		Gross	105140 lb*
Out	07/12/2011 13:19:35		lmercer		Tare	41960 lb*
			* Manual Weight		Net	63180 lb
					Tons	31.59

Comments REPLACE#30809 PROFILE#102137WA R TRANS JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.59	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.59	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.59	Tons				

Total Tax
Total Ticket

WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30953
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N127
Container
Driver JACK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 13:24:58	SCALE 1	lmercer		Gross	103240 lb*
Out	07/12/2011 13:24:58		lmercer		Tare	38080 lb*
			* Manual Weight		Net	65160 lb
					Tons	32.58

Comments REPLACE#30810 PROFILE#102137WA NOBACH JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.58	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.58	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.58	Tons				

Total Tax
Total Ticket

WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30960
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER x
Vehicle# R53
Container
Driver KURTIS ALSKOG
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/12/2011 13:41:48	SCALE 1
Out	07/12/2011 13:41:48	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	95540 lb*
Tare	39760 lb*
Net	55780 lb
Tons	27.89

Comments REPLACE#30816 PROFILE#102137WA R TRANS JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	27.89	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	27.89	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	27.89	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30957
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER x
Vehicle# N121
Container
Driver JERRY HOWATT
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/12/2011 13:43:43	SCALE 1
Out	07/12/2011 13:43:43	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	96800 lb*
Tare	36760 lb*
Net	60040 lb
Tons	30.02

Comments REPLACE#30817 PROFILE 102137WA NOBACH JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.02	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.02	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	30.02	Tons				

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Reprint
Ticket# 30958

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# RS1
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/12/2011 13:45:27	SCALE 1
Out	07/12/2011 13:45:27	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	109720 lb*
Tare	40600 lb*
Net	69120 lb
Tons	34.56

Comments REPLACE#30818 PROFILE#102137WA RAM CON JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	34.56	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	34.56	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	34.56	Tons				

Total Tax
Total Ticket

703WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30955

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/12/2011 13:52:55	SCALE 1
Out	07/12/2011 13:52:55	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	109520 lb*
Tare	39060 lb*
Net	70460 lb
Tons	35.23

Comments REPLACE#30820 PROFILE 102137WA KODY JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.23	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.23	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	35.23	Tons				

Total Tax
Total Ticket

703WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Reprint
Ticket# 30969

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K8
Container
Driver ED DARWOOD .
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 14:07:07	SCALE 1	lmercer		Gross	107340 lb*
Out	07/12/2011 14:07:07		lmercer		Tare	41400 lb*
			* Manual Weight		Net	65940 lb
					Tons	32.97

Comments REPLACE#30021 PROFILE#102137WA KISSLER JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover PCS-Tons-Pet	100	32.97	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.97	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.97	Tons				

Total Tax
Total Ticket

03WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Reprint
Ticket# 30966

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# JK5
Container
Driver STAN CLOSE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/12/2011 14:34:54	SCALE 1	lmercer		Gross	112700 lb*
Out	07/12/2011 14:34:54		lmercer		Tare	40620 lb*
			* Manual Weight		Net	72080 lb
					Tons	36.04

Comments REPLACE#30822 PROFILE#102137WA KOOY JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.04	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.04	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	36.04	Tons				

Total Tax
Total Ticket

03WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30968
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R9
Container
Driver TYE LEE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/12/2011 21:27:08	SCALE 1
Out	07/12/2011 21:28:50	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	105200 lb*
Tare	41960 lb*
Net	63240 lb
Tons	31.62

Comments REPLACE#30784 PROFILE#102137WA R TRANS JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover PCS-Tons-Pet	100	31.62	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.62	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	31.62	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30970
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/12/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R51
Container
Driver RODNEY ROLLINS
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/12/2011 21:45:54	SCALE 1
Out	07/12/2011 21:45:54	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	106060 lb*
Tare	40600 lb*
Net	65460 lb
Tons	32.73

Comments REPLACE#30790 PROFILE#102137WA R TRANS JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.73	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.73	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	32.73	Tons				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30929
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/13/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver RANDY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/13/2011 01:13:12	SCALE 1
Out	07/13/2011 01:13:12	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	110480 lb*
Tare	38900 lb*
Net	71580 lb
Tons	35.79

Comments REPLACES 30882
KODY YE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.79	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.79	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.79	Tons				SKAGIT

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30950
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/13/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale
In	07/13/2011 07:03:36	SCALE 1
Out	07/13/2011 07:03:36	

Operator
lmercer
lmercer
* Manual Weight

Inbound

Gross	112520 lb*
Tare	39100 lb*
Net	73420 lb
Tons	36.71

Comments REPLACES#30823 PROFILE#102137WA KODY JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.71	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.71	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	36.71	Tons				

Total Tax
Total Ticket

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30954
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/13/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
POD 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver JOHN KOOY
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/13/2011 07:07:16	SCALE 1	lmercer		Gross	110080 lb*
Out	07/13/2011 07:07:16		lmercer		Tare	38200 lb*
			* Manual Weight		Net	71880 lb
					Tons	35.94

Comments REPLACES#~~30947~~ PROFILE#102137WA KOOY JM

30824 JM

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.94	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.94	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	35.94	Tons				

Total Tax
Total Ticket

WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30949
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/13/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
POD 102137WA

Carrier SELF HAULER *
Vehicle# N127
Container
Driver JACK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/13/2011 07:16:06	SCALE 1	lmercer		Gross	109540 lb*
Out	07/13/2011 07:16:06		lmercer		Tare	38080 lb*
			* Manual Weight		Net	71460 lb
					Tons	35.73

Comments REPLACES#30827 PROFILE 102137WA NOBACH JM

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.73	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.73	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	35.73	Tons				

Total Tax
Total Ticket

WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 30971
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/13/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N121
Container
Driver JERRY HOWATT
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/13/2011 10:33:16	SCALE 1	lmercer		Gross	95060 lb*
Out	07/13/2011 10:33:16		lmercer		Tare	36760 lb*
			* Manual Weight		Net	58300 lb
					Tons	29.15

Comments REPLACE#30078 PROFILE#102137WA NOBACH JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.15	Tons				
2	ENVFEE$3.20-Env Fee $3.2	100	29.15	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.15	Tons				

Total Tax
Total Ticket

WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 31351
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/28/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver JAMES GREENWOOD
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/28/2011 09:33:19	SCALE 1	yevans		Gross	106480 lb*
Out	07/28/2011 09:33:19		yevans		Tare	39760 lb*
			* Manual Weight		Net	66720 lb
					Tons	33.36

Comments REPLACE#31332 PROFILE#102137WA R TRANSPORT JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.36	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.36	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	33.36	Tons				

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 31348
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/28/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# R53
Container
Driver JAMES GREENWOOD
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/28/2011 13:57:58	SCALE 1	yevans		Gross	115700 lb*
Out	07/28/2011 13:57:58		yevans		Tare	39760 lb*
			* Manual Weight		Net	75940 lb
					Tons	37.97

Comments REPLACE#31302 PROFILE#102137WA R TRANSPORT JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.97	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.97	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	37.97	Tons				

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Reprint
Ticket# 31349

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 07/29/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# M569
Container
Driver
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/29/2011 10:05:09	SCALE 1	yevans		Gross	95360 lb*
Out	07/29/2011 10:05:09		yevans		Tare	40480 lb*
			* Manual Weight		Net	54880 lb
					Tons	27.44

Comments REPLACE#31347 PROFILE#10237WA MAJESTIK JM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	27.44	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	27.44	Tons				
3	GONDOLA 16.10/TN-GONDOLA	100	27.44	Tons				

Total Tax
Total Ticket

203WM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29037

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS23
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 08:54:19	SCALE 1	lmercer
Out	04/21/2011 08:54:19		lmercer

Inbound

Gross	104700 lb
Tare	38240 lb
Net	66460 lb
Tons	33.23

Comments K & S - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.23	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.23	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.23	Tons				SKAGIT

Total Tax
Total Ticket

CSWM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29039

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8T
Container
Driver JOHN KODY SR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 09:08:28	SCALE 1	lmercer
Out	04/21/2011 09:08:28		lmercer

Inbound

Gross	93200 lb
Tare	36860 lb
Net	56340 lb
Tons	28.17

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	28.17	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	28.17	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	28.17	Tons				SKAGIT

Total Tax
Total Ticket

CSWM
Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29046

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 09:35:33	SCALE 1	lmercer
Out	04/21/2011 09:45:33		lmercer

Inbound

Gross	105400 lb
Tare	39060 lb
Net	66340 lb
Tons	33.17

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.17	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.17	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.17	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29051

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N127
Container
Driver JACK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 09:48:42	SCALE 1	lmercer
Out	04/21/2011 09:48:42		lmercer

Inbound

Gross	98400 lb
Tare	38080 lb
Net	60320 lb
Tons	30.16

Comments RYAN NOBACH - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.16	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.16	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.16	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29052

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N121
Container
Driver JERRY HOWATT
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/21/2011 09:52:23	SCALE 1	lmercer		Gross	95460 lb
Out	04/21/2011 09:52:23		lmercer		Tare	36760 lb
					Net	58700 lb
					Tons	29.35

Comments RYAN NOBACK - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	29.35	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	29.35	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	29.35	Tons				SKAGIT

CSWM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29054

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/21/2011 09:58:57	SCALE 1	lmercer		Gross	101640 lb
Out	04/21/2011 09:58:57		lmercer		Tare	38880 lb
					Net	62760 lb
					Tons	31.38

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.38	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.38	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.38	Tons				SKAGIT

CSWM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29055

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 10:02:21	SCALE 1	lmercer
Out	04/21/2011 10:02:21		lmercer

Inbound

Gross	107040 lb
Tare	39100 lb
Net	67940 lb
Tons	33.97

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.97	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.97	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.97	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29056

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KODY JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 10:05:09	SCALE 1	lmercer
Out	04/21/2011 10:05:09		lmercer

Inbound

Gross	106520 lb
Tare	39900 lb
Net	66620 lb
Tons	33.31

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.31	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.31	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.31	Tons				SKAGIT

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29058

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/21/2011 10:14:33	SCALE 1	lmercer		Gross	99280 lb
Out	04/21/2011 10:14:33		lmercer		Tare	38900 lb
					Net	60380 lb
					Tons	30.16

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.16	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.16	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.16	Tons				SKAGIT

Driver's Signature Willy Russell

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29057

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/21/2011 10:09:19	SCALE 1	lmercer		Gross	103500 lb
Out	04/21/2011 10:09:19		lmercer		Tare	38300 lb
					Net	65220 lb
					Tons	32.61

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.61	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.61	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.61	Tons				SKAGIT

Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29095

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# KS23
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 12:50:22	SCALE 1	lmercer
Out	04/21/2011 12:50:22		lmercer

Inbound

Gross	103640 lb
Tare	38240 lb
Net	65400 lb
Tons	32.70

Comments R & S TRUCKING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.70	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.70	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.70	Tons				SKAGIT

203WM Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29099

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W8T
Container
Driver JOHN KOOY SR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 13:00:40	SCALE 1	lmercer
Out	04/21/2011 13:00:40		lmercer

Inbound

Gross	107800 lb
Tare	36860 lb
Net	70940 lb
Tons	35.47

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.47	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.47	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.47	Tons				SKAGIT

203WM Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29107
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K2
Container
Driver GARY BENTHIN
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 13:34:05	SCALE 1	lmercer
Out	04/21/2011 13:34:05		lmercer

Inbound

Gross	113160 lb
Tare	39060 lb
Net	74100 lb
Tons	37.05

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	37.05	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	37.05	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	37.05	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29122
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W4
Container
Driver JOEY CHECKEYE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 14:15:41	SCALE 1	lmercer
Out	04/21/2011 14:15:41		lmercer

Inbound

Gross	104060 lb
Tare	38880 lb
Net	65180 lb
Tons	32.59

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	32.59	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	32.59	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	32.59	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29124
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# N127
Container
Driver JACK CHANDLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/21/2011 14:21:27	SCALE 1	lmercer		Gross	110900 lb
Out	04/21/2011 14:21:27		lmercer		Tare	38080 lb
					Net	72820 lb
					Tons	36.41

Comments RYAN NOBACH - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	36.41	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	36.41	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	36.41	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA. 98134

Original
Ticket# 29126
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# W14
Container
Driver BEN WILKE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator	Inbound		
In	04/21/2011 14:27:48	SCALE 1	lmercer		Gross	102520 lb
Out	04/21/2011 14:27:48		lmercer		Tare	39100 lb
					Net	63420 lb
					Tons	31.71

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	31.71	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	31.71	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	31.71	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29127

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 10213/WA

Carrier SELF HAULER *
Vehicle# W10
Container
Driver JOHN KOOY JR.
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 14:31:00	SCALE 1	lmercer
Out	04/21/2011 14:31:00		lmercer

Inbound

Gross	106960 lb
Tare	39900 lb
Net	67060 lb
Tons	33.53

Comments KOOY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.53	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.53	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.53	Tons				SKAGIT

200WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29128

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 10213/WA

Carrier SELF HAULER *
Vehicle# N121
Container
Driver JERRY HOWATT
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 14:34:15	SCALE 1	lmercer
Out	04/21/2011 14:34:15		lmercer

Inbound

Gross	97500 lb
Tare	36760 lb
Net	60740 lb
Tons	30.37

Comments RYAN NOBACH - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	30.37	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	30.37	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	30.37	Tons				SKAGIT

200WM
Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29130
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K03
Container
Driver TRAVIS CHASE
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 15:01:50	SCALE 1	lmercer
Out	04/21/2011 15:01:50		lmercer

Inbound

Gross	105340 lb
Tare	38300 lb
Net	67040 lb
Tons	33.52

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	33.52	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	33.52	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	33.52	Tons				SKAGIT

202WM Driver's Signature

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29131
Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/21/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 102137WA

Carrier SELF HAULER *
Vehicle# K01
Container
Driver WILLY RUSSELL
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/21/2011 15:07:29	SCALE 1	lmercer
Out	04/21/2011 15:07:29		lmercer

Inbound

Gross	115320 lb
Tare	38900 lb
Net	76420 lb
Tons	38.21

Comments KODY - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	38.21	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	38.21	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	38.21	Tons				SKAGIT

203WM Driver's Signature Willy Russell

Total Tax
Total Ticket

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 29132

Ph: 206 763 5025

Customer Name RAMCONST RAM CONSTRUCTION
Ticket Date 04/22/2011
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 100137WA

Carrier SELF HAULER *
Vehicle# KS23
Container
Driver KIRBY WALLER
Check#
Billing# 0000118
Grid

Volume

	Time	Scale	Operator
In	04/22/2011 07:01:04	SCALE 1	lmercer
Out	04/22/2011 07:01:04		lmercer

Inbound

Gross	108820 lb
Tare	38240 lb
Net	70580 lb
Tons	35.29

Comments K & S TRUCKING - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	35.29	Tons				SKAGIT
2	ENVFEE$3.20-Env Fee $3.2	100	35.29	Tons				SKAGIT
3	GONDOLA 16.10/TN-GONDOLA	100	35.29	Tons				SKAGIT

203WM
Driver's Signature

Total Tax
Total Ticket

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418761	000000

WEIGHTMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	6:44 am

DATE OUT	TIME OUT
2 August 2010	7:05 am

VEHICLE	ROLL OFF
11	TOLU459325

REFERENCE	ORIGIN
TOLU459325	Anacortes

1 Gross Weight 113,280.00 LB
Tare Weight 40,180.00 LB
Net Weight 73,100.00 LB 36.55 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
36.55	TN	34 [B8] PCS 34 07/29/10 Inbound - RAIL TICKET BNSF231074 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418766	000000

WEIGHTMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	6:56 am

DATE OUT	TIME OUT
2 August 2010	7:15 am

VEHICLE	ROLL OFF
121	GCEU425230

REFERENCE	ORIGIN
GCEU425230	

1 Gross Weight 96,500.00 LB
Tare Weight 36,700.00 LB
Net Weight 59,800.00 LB 29.90 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
29.90	TN	34 [B8] PCS 34 07/29/10 Inbound - RAIL TICKET BNSF231074 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418777	000000

WEIGHMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	7:10 am

DATE OUT	TIME OUT
2 August 2010	7:37 am

VEHICLE	ROLL OFF
7329	GCEU425935

REFERENCE	ORIGIN
GCEU425935	

1 Gross Weight 112,920.00 LB
Tare Weight 47,220.00 LB
Net Weight 65,700.00 LB 32.85 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
32.85	TN	34 [B8] PCS 34 07/29/10 Inbound - RAIL TICKET DTTX655855 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	418778	000000

WEIGHTMASTER: GH00036 GAIL H

DATE IN	TIME IN
2 August 2010	7:19 am

DATE OUT	TIME OUT
2 August 2010	7:39 am

VEHICLE	ROLL OFF
9951	TOLU455138

REFERENCE	ORIGIN
TOLU455138	

1 Gross Weight 119,900.00 LB
Tare Weight 45,160.00 LB
Net Weight 74,740.00 LB 37.37 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
37.37	TN	34 [B8] PCS 34				
		07/29/10				
		Inbound - RAIL TICKET				
		DTTX655855				
		Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

SITE	TICKET	GRID
42	419624	000000

GH00036 GAIL H WEIGHMASTER

DATE IN	TIME IN
5 August 2010	5:35 am

DATE OUT	TIME OUT
5 August 2010	7:00 am

VEHICLE	ROLL OFF
3450	TOLU465647

REFERENCE	ORIGIN
TOLU465647	

1 Gross Weight 123,760.00 LB
Tare Weight 47,480.00 LB
Net Weight 76,280.00 LB 38.14 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
38.14	TN	34 [B8] PCS 34				
		08/02/10 Inbound - RAIL TICKET BNSF231044 Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

RABANCO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

SITE	TICKET	GRID
42	419626	000000

GH00036 GAIL H — WEIGHMASTER

DATE IN	TIME IN
5 August 2010	5:40 am

DATE OUT	TIME OUT
5 August 2010	7:05 am

VEHICLE	ROLL OFF
7351	TOLU456590

REFERENCE	ORIGIN
TOLU456590	

016134 - 0003
Ram Construction General Contracotrs Inc
Ram Construction General Contracotrs Inc

Contract: LW-10315

1 Gross Weight 113,300.00 LB
Tare Weight 43,840.00 LB
Net Weight 69,460.00 LB 34.73 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
34.73	TN	34 [B8] PCS 34				
		08/02/10				
		Inbound - RAIL TICKET				
		BNSF231044				
		Skagit Intermodal / Burlington				

0.00 YD

NET AMOUNT

APPENDIX H
SOIL TREATMENT PLAN AND PROCESS REPORT FOR RA-11

Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

March 16, 2011

Ken Pepperling
ADT Environmental Solutions LLC
386 NW 3rd Avenue
Canby, OR 97013

TEL: (503) 266-4237
FAX: (503) 266-4954

RE: ADT4570

Dear Ken Pepperling:

Order No.: 1103102

Specialty Analytical received 4 samples on 3/10/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Cindy Hillyard
Project Manager

Technical Review

Specialty Analytical

Date: *16-Mar-11*

CLIENT: ADT Environmental Solutions LLC
Project: ADT4570
Lab Order: 1103102

Lab ID: 1103102-01 **Collection Date:** 3/10/2011
Client Sample ID: 1036 **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Lead	2270	35.1		mg/Kg	20	3/15/2011 5:39:16 PM
TCLP METALS		**E1311/6010**				Analyst: **zau**
Lead, TCLP	0.168	0.100		mg/L	1	3/15/2011 11:45:04 AM
CORROSIVITY BY PH		**SW9045B**				Analyst: **en**
pH	5.79	1.00		pH Units	1	3/15/2011

Lab ID: 1103102-02 **Collection Date:** 3/10/2011
Client Sample ID: 1037 **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Lead	3880	29.4		mg/Kg	20	3/15/2011 5:44:21 PM
TCLP METALS		**E1311/6010**				Analyst: **zau**
Lead, TCLP	0.117	0.100		mg/L	1	3/15/2011 11:50:06 AM
CORROSIVITY BY PH		**SW9045B**				Analyst: **en**
pH	5.27	1.00		pH Units	1	3/15/2011

Lab ID: 1103102-03 **Collection Date:** 3/10/2011
Client Sample ID: 1038 **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Lead	1800	34.5		mg/Kg	20	3/15/2011 6:04:41 PM
TCLP METALS		**E1311/6010**				Analyst: **zau**
Lead, TCLP	1.71	0.100		mg/L	1	3/15/2011 11:55:09 AM
CORROSIVITY BY PH		**SW9045B**				Analyst: **en**
pH	3.48	1.00		pH Units	1	3/15/2011

Specialty Analytical

Date: *16-Mar-11*

CLIENT: ADT Environmental Solutions LLC
Project: ADT4570
Lab Order: 1103102

Lab ID: 1103102-04
Collection Date: 3/10/2011
Client Sample ID: 1039
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Lead	1590	36.4		mg/Kg	20	3/15/2011 6:09:43 PM
TCLP METALS		**E1311/6010**				Analyst: **zau**
Lead, TCLP	0.704	0.100		mg/L	1	3/15/2011 12:00:11 PM
CORROSIVITY BY PH		**SW9045B**				Analyst: **en**
pH	3.29	1.00		pH Units	1	3/15/2011

CLIENT: ADT Environmental Solutions LLC
Work Order: 1103102
Project: ADT4570

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MBLK-27948**	SampType: **MBLK**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	2.00									

Sample ID: **LCS-27948**	SampType: **LCS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	95.37	2.00	100	0	95.4	84.9	109	0	0		

Sample ID: **1103114-01AMS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	78.7	1.64	81.97	0	96	84.9	109	0	0		

Sample ID: **1103114-01AMSD**	SampType: **MSD**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	78.42	1.67	83.33	0	94.1	84.9	109	78.7	0.356	20	

Sample ID: **1103114-01ADUP**	SampType: **DUP**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.64	0	0	0	0	0	0	0	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: ADT Environmental Solutions LLC
Work Order: 1103102
Project: ADT4570

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **CCV**	SampType: **CCV**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date:	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	101.7	2.00	100	0	102	90	110	0	0		

Sample ID: **CCV**	SampType: **CCV**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date:	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104.2	2.00	100	0	104	90	110	0	0		

Sample ID: **CCV**	SampType: **CCV**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date:	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736448**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	103.5	2.00	100	0	104	90	110	0	0		

Sample ID: **CCV**	SampType: **CCV**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date:	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736451**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104.4	2.00	100	0	104	90	110	0	0		

Sample ID: **ICV**	SampType: **ICV**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date:	Run ID: **TJA IRIS_110315F**
Client ID: **ZZZZZ**	Batch ID: **27948**	TestNo: **E6010**		Analysis Date: **3/15/2011**	SeqNo: **736431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	102	2.00	100	0	102	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: ADT Environmental Solutions LLC
Work Order: 1103102
Project: ADT4570

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCLP

Sample ID: **MBLK-27946**	SampType: **MBLK**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	ND	0.0200									

Sample ID: **LCS-27946**	SampType: **LCS**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	1	0.0200	1	0	100	93.1	112	0	0		

Sample ID: **A1103105-02CMS**	SampType: **MS**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	0.9061	0.0200	1	0	90.6	91.9	112	0	0		S,RP

Sample ID: **A1103105-02CMSD**	SampType: **MSD**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	0.9365	0.0200	1	0	93.6	91.9	112	0.9061	3.30	20	

Sample ID: **A1103105-02CDUP**	SampType: **DUP**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date: **3/14/2011**	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736127**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	ND	0.0200	0	0	0	0	0	0	0	20	

Sample ID: **CCV**	SampType: **CCV**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date:	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: ADT Environmental Solutions LLC
Work Order: 1103102
Project: ADT4570

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCLP

Sample ID: **CCV**	SampType: **CCV**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date:	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	1.001	0.0200	1	0	100	90	110	0	0		

Sample ID: **CCV**	SampType: **CCV**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date:	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/15/2011**	SeqNo: **736151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	1.041	0.0200	1	0	104	90	110	0	0		

Sample ID: **ICV**	SampType: **ICV**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date:	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/14/2011**	SeqNo: **736123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	1.003	0.0200	1	0	100	90	110	0	0		

Sample ID: **ICV**	SampType: **ICV**	TestCode: **6010_TCLP**	Units: **mg/L**	Prep Date:	Run ID: **TJA IRIS_110314C**
Client ID: **ZZZZZ**	Batch ID: **27946**	TestNo: **E1311/6010**		Analysis Date: **3/15/2011**	SeqNo: **736146**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead, TCLP	1.02	0.0200	1	0	102	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: ADT Environmental Solutions LLC
Work Order: 1103102
Project: ADT4570

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_S

Sample ID: **1103102-01ADUP**	SampType: **DUP**	TestCode: **PH_S**	Units: **pH Units**	Prep Date:	Run ID: **PH ACCUMET_110315A**
Client ID: **1036**	Batch ID: **R65715**	TestNo: **SW9045B**		Analysis Date: **3/15/2011**	SeqNo: **736223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	5.82	1.00	0	0	0	0	0	5.79	0.517	20	

Sample ID: **1103125-01ADUP**	SampType: **DUP**	TestCode: **PH_S**	Units: **pH Units**	Prep Date:	Run ID: **PH ACCUMET_110315A**
Client ID: **ZZZZZ**	Batch ID: **R65715**	TestNo: **SW9045B**		Analysis Date: **3/15/2011**	SeqNo: **736228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.54	1.00	0	0	0	0	0	6.6	0.913	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
A4	The product appears to be aged or degraded diesel.
B	The blank exhibited a positive result great than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
G	Result may be biased high due to biogenic interferences. Clean up is recommended.
H	Sample was analyzed outside recommended holding time.
HT	At clients request, samples was analyzed outside of recommended holding time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits; post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

1103102

ADT ENVIRONMENTAL SOLUTIONS

Chain of Custody

Project Number ADT4570 Client Name ADT Environmental Solutions Client Contact Kenneth Pepperling

Address 386 3rd Street City Canby State Oregon 97013

Phone 503-266-4237 Fax 503-266-4954

Purpose of Sampling and Collection Determination of treatability for Lead

Sample ID	Date/Time Collected	Units	Media	Collected From or Location	Description	Test Parameters	Special Instructions
1036	3.10.10	1	Soil		Lead Impacted soils	TCLP Lead & Total lead + PH	Treated
1037	3.10.10	1	Soil		Lead Impacted soils	TCLP Lead & Total lead + PH	Treated
1038	3.10.10	1	Soil		Lead Impacted soils	TCLP Lead & Total lead + PH	Treated
1039	3.10.10	1	Soil		Lead Impacted soils	TCLP Lead & Total lead + PH	Treated

Collected by:

Additional Sample Information Client 4570

Relinquished By (Print and Sign)	Date/Time	Received By (Print and Sign)	Date/Time
	3.10.11 14:30	Cindy Hilyard	3.10.11 14:30

Chain of custody seals Y/N/NA

Shipped by: Ground/ADT X

Tracking No. ADT #4570

Domestic Sample X

Foreign Sample

Lead Treatment Process Description

April 12, 2011

Prepared For:

Ram Construction

Prepared By:

ADT Environmental Solutions LLC 386 NW 3rd Avenue
Canby, Oregon, 97013

ADT Project No. 4232 Lead Treatment at the Anacortes Site

1.0 Introduction

ADT will provide lead treatment reagents and services at the Anacortes project site. This project will treat up approximately 400 cubic yards (800 to 900 tons) of soil contaminated with lead. Ram Construction will provide chemical storage tanks, water tanks, power, water and heavy equipment for soil handling. The following describes the activities that will take place in association with the employment of ADT's Synthetic Metals Mineralization System (SMMS).

2.0 Treatment Equipment

ADT will mobilize our chemical pump & metering equipment to the project site as needed. ADT will perform the plumbing between the chemical, water and pump and metering system to include discharge to the blending unit or stockpile. Ram Construction will supply water, heavy equipment, operators, transport for treated soils on site and all other items as necessary.

2.1 Reagent Delivery and Storage

Liquid reagents will be delivered via bulk tanker truck. The reagents will then be pumped out of the transport truck and into 6500 gallon poly storage tanks. The reagent storage tanks will be placed in a secondary containment pad capable of holding the entire contents of the storage tank. A man will be stationed at this location at all times during operations to monitor the tanks. Should a leak occur operations will be shut down until the leak is repaired. A secondary pump will be on site to pump the materials back into the tank. In the event a spill occurs between the tank and soil stockpile (20-30 feet) those soils would be excavated and placed on the stockpile. This tank will be staged close to the soil stockpile area.

It should be noted on-site treatment operations will take one day. Reagents will only be in the storage tank for a few hours.

2.2 Soil Containment

The soils awaiting treatment will be stockpiled and stored within a containment bunker encased by a double layer of ecology blocks and lined with a 20 mil geomembrane. The stockpile will be covered with plastic sheeting and sandbags prior to and after the treatment process. At a minimum, containment bunker inspections will be conducted on a weekly basis and days when crews are present on-site.

2.3 Ex-Situ Soil Treatment

Once all reagents have been stored and all equipment staged ADT will begin treatment. Ram will spread out the soil, using an excavator, so that the piles are no taller than six feet. The liquid reagent will then be pumped onto the soil and continuously blended with the excavator bucket. The excavator used will be large enough to reach all of the soil from outside of the bunker area. Reagent will continue to be added and blended within the stockpile until the proper ratio (by weight) of reagent has been well blended into the soil stockpile. Soil blending will be completed taking care to maintain the geomembrane liner. The treated soil will then be allowed to react in the same stockpile prior to confirmation testing.

Reagent addition ratios for this project will be 1-2% by weight. These are quite small addition rates and are very manageable. Approximately 400 cubic yards of soil will be treated on site. Total metals and toxicity characteristic leaching procedure *(*TCLP*)* metals analyses were performed on the material to be treated. Total metals results for copper and lead ranged from 43 to 5,500 mg/kg and 82 to 3,300 mg/kg, respectively. TCLP results for copper were non-detect and for lead ranged from 7.5 to 9.2 mg/L. Therefore, lead is the chemical of concern requiring treatment prior to disposal.

2.4 Material Handling

The treated material will be taken to the soil stockpile area for staging and testing. The treated soil stockpile area will be lined with a 20 mil geomembrane. Should a rupture in the geomembrane beneath the stockpile occur soils in the area will be over excavated and samples from the area under the geomembrane will be sampled to prove the area is clean.

2.5 Sampling

Confirmation sampling will be performed by Anchor QEA, LLC in accordance with Waste Management profiling requirements and Appendix C (Quality Assurance Project Plan) of the Engineering Design Report (GeoEngineers 2009) except for the following revision. The final treated stockpile will be divided into three sections of approximately 135 cubic yards each. Five discrete samples will be collected from the each stock pile and composited into a single sample for TCLP analysis of lead.

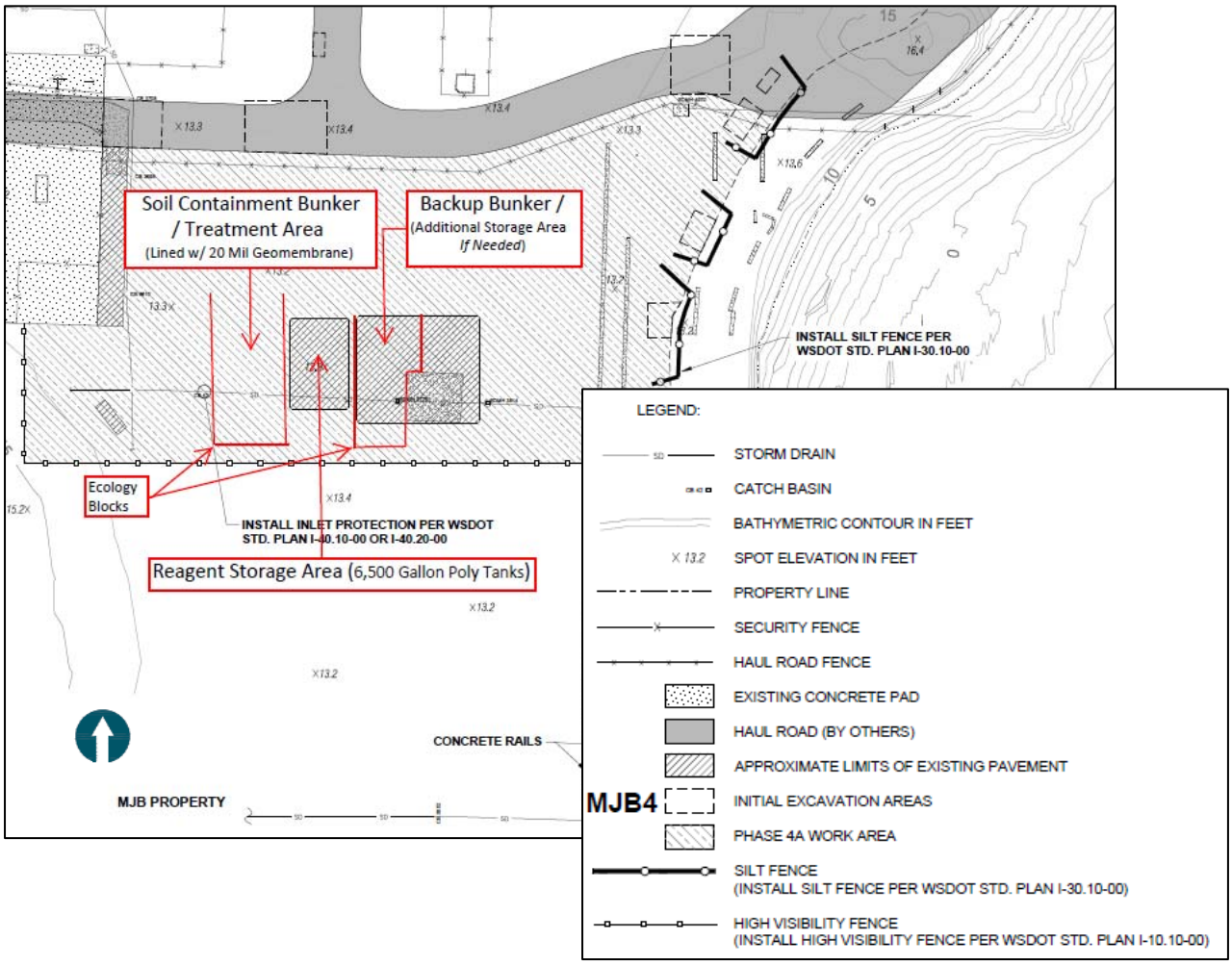
Once confirmation testing shows successful results the material can be shipped. The soils will continue to be stored within the containment bunker, covered with plastic sheeting and secured with sandbags at the end of each work day until all soils have been shipped off site. It should be noted on-site treatment operations will take approximately two days.

2.6 Bench Scale Testing Description

ADT received two samples from the soils on-site (to be treated) and performed bench testing. Using the technology described in the attached document describing apatite stabilization, ADT mixed each soil sample with 1 doses – 1 and 2 percent by weight. The pilot treated samples were then sent to Specialty Analytical for testing for TCLP lead, total lead and pH. The results in the table below. All reagent doses were effective in achieving the treatment goal of 5 mg/L as measured using the TCLP.

Reagent Dose	TCLP Metals (mg/L)	Total Metals (mg/kg)	pH
1%	0.168	2,270	5.79
2%	0.117	3,880	5.27
1%	1.71	1,800	3.48
2%	0.74	1,590	3.29

2.7 Site Plan



2.8 Spill Prevention/SPCC

The following sections discuss spill prevention procedures for the various classes of liquids that are associated with this project.

Reagents: All reagents will be kept in a poly storage tank with secondary containment. The storage tank will have a lid to prevent rainwater from entering the tank. A man will be staged at the tank/pump location at all times. All connections will be zip-tied.

Fuel & Oil: **All fueling and oiling of equipment will be accomplished with extreme caution to avoid any spillage. No fuel of any kind will be stored at the site outside of fuel tanks that are integral parts of vehicles or equipment other than approved 5-gallon or smaller containers for small hand operated equipment. Fuel for equipment will be delivered to the site in trucks. The filling of any liquid reservoir on equipment will be undertaken with extreme caution.**

2.9 Spill Clean Up

Copies of this Spill Prevention Plan and all Material Safety Data Sheets will be kept on file in the project office trailer on-site at all times. Subcontractors and equipment operators will be instructed on proper cleanup procedures detailed in Section 2.9. Spill cleanup materials and containers such as drums, drum liners, shovels, and absorbent wipes/pads will be available. The spill response equipment and supplies listed in the table below will be kept on hand in case of emergency.

Spill Response Equipment & Supplies

Item	Location	Minimum Quantity
First-Aid / Emergency Response		
Fire extinguisher	Attached to Equipment	1 each
Fire-aid kit	Crew Trucks	1 each
Eye wash and Safety Shower Location	In decontamination area	1 each
Respirators		
Half-Face Respirator	Crew Trucks	2 each
Organic Vapor/HEPA Cartridges		4 pairs
Tools		
Plastic Sheeting – 10' x 100'	In supply area of decontamination area	1 roll
Adjustable Wrench-Assorted		1 set
Retractable Razor		2 each
Pipe Wrench – 18"		1 each
Pliers – Channelock		1 each
Pry Bar		1 each
Shovel-Flat Nose		1 each
Screwdrivers – Assorted		1 set
Supplies		
Drum, Liners (roll) and Repair Kit	In supply area of decontamination area	1 each
"Do Not Enter" Barrier Tape		1 roll
Absorbent Booms		10 each
Hazsorb Pads		20 each
Plastic Bags – 20 Gallon		1 box
"Hazardous" Labels		10 each
Instructions – Drum Labeling		1 each
Markers – Paint and Indelible		2 each
Tyvek Coveralls		4 pair
Latex Boot Covers		4 pair
Face Shield or Safety Goggles		2 pair
Inner Latex Gloves		1 box (100 gloves)
Outer Latex Gloves		4 pair
Electrical Tape		1 roll
Decontamination Equipment		
Pails – Plastic with Lids	In supply area of decontamination area	2 each
Scrub Brushes		2 each
Paper Towels		4 rolls
Alconox		1 bottle
5-Gallon Drums		2 each

3.0 Spill Response

Should a spill of any size occur ADT will immediately initiate an investigation to document the identity, quantity, exact time and location of the spill, containment procedures, written statements of witnesses, photographs, and sampling results, as applicable. As quickly as possible, an assessment will be made as to the degree of hazard the spill creates and what, if any, emergency actions, such as evacuating personnel, should be taken. Cleanup activities will commence as early as possible and occur concurrently with the aforementioned activities.

In the event of a small spill (broken hydraulic line, etc.) as much free liquid as possible will be soaked up using absorbent materials. The contaminated soil will be excavated, containerized and disposed of at an approved facility. ADT will notify client Construction Manager immediately if a spill of a reportable quantity of fuel or any amount of any other petroleum hydrocarbon is experienced. Ram's Construction Manager will also be immediately notified in the event contaminated groundwater is released or suspected to be released to the adjacent surface waters.

In the event of a spill of any other hazardous material (paint, cleaner, etc.), the spill will be wiped up with absorbent wipes or pads and containerized in a lined drum along with any contaminated soils at the spill site. The drum will then be manifested for transportation and disposal at an approved treatment/disposal facility.

In the event of a spill, the contaminant material will be contained as stated above. Then all tools and equipment used in the containment process will be decontaminated using detergents and procedures appropriate to the contaminant involved. All personal protective equipment (PPE), decontamination water, and residues will be containerized and manifested for transportation and disposal at an approved treatment/disposal facility.

3.1 Emergency Response

In the event of a hazardous material spill-caused fire, medical emergency, or other mishap/accident, on-site and off-site emergency contacts are listed in the Site Safety and Health Plan.

Emergency Procedures and Responsibilities: In the event of an emergency situation during the course of field activities, personnel in the immediate vicinity of the incident will immediately notify the SSHO. The SSHO will implement field emergency procedures and notify the appropriate corporate and facility personnel in accordance with the Site Safety & Health Plan. The SSHO will be responsible for documenting the response activities conducted in the event of an emergency and preparing an accident investigation report. Emergency communication procedures are given below.

IN CASE OF EMERGENCY

Emergency Contacts:	Fire/Rescue: 911 Ambulance: 911
Poison Control Center:	(800) 452-7165
National Response Center Hotline:	(800) 424-8802
Off Site Medical Facility:	Island Hospital 1211 24th St, Anacortes WA 98221 (360)299-1300
ADT Site Safety and Health Officer:	Al Willis Work: Home:

3.2 Evacuation

In the event of an emergency situation, such as fire, explosion, significant release of toxic gases, etc., a vehicle horn will be sounded three times at five second intervals between blasts indicating the initiation of evacuation procedures. All personnel in the work area will evacuate and assemble at the office trailer and then exit the site in an upwind direction if possible. The SSHO will have authority to initiate proper action if outside services are required. Under no circumstances will incoming personnel or visitors be allowed to proceed into the work area once the emergency signal has been given. The SSHO must see that access for emergency equipment is provided and that all sources of combustion have been shut down once the alarm has been sounded. Once the safety of all personnel is established, client will be notified by telephone of the emergency. Wind direction will be monitored with a windsock or flag and will be taken into consideration in formulating daily evacuation plans. Evacuation plans will be discussed regularly with on-site personnel.

Kenneth Pepperling
ADT Environmental Solutions

Understanding Apatite Crystallization

ADT's SMMS (Synthetic Metals Mineralization System) process is the synthesis of a naturally occurring geologic phenomenon. Members of the apatite group of crystalline minerals exhibit the property of isomorphism, which may be defined as follows:

> *Isomorphism - A condition present when an ion at high dilution is incorporated by mixed crystal formation into a precipitate, even though such formation would not be predicted on the basis of crystallographic and ionic radii; an example is the co-precipitation of lead with calcium chloride. Any two or more crystalline mineral compounds having different chemical composition, but identical structure, such as the garnet series or the apatite group, are known as isomorphs.*

In an isomorphous mineral certain ions or molecules will enter into the crystal-lattice of a mineral solid without causing any marked change in crystal morphology or other physical properties. For simplicity, this is accomplished by the two ions having similar but not equal radii and the same charge, with the smaller ion radii being preferentially concentrated in early formed specimens of a crystallizing mineral series. For example, a Pb ion commonly co-precipitates with a Ca ion where Pb^{+2} substitutes for Ca^{+2} within a defined crystal lattice to form a common mineral solid. The Pb^{+2} substitution for Ca^{+2} usually occurs based on availability of the closest ion to a vacant crystal-lattice site and in the later stages of the crystallization event when available Ca^{+2} has been naturally depleted (or if the available Ca^{+2} can be manipulated out of the system).

The SMMS process initiates the formation of isomorphous minerals that are representative of the reaction-series association existing between a series of stable mineral solids with analogous chemical formulas and crystal forms. (Note - Analogous formulas possess an identical number of atoms and valences and analogous crystallographic forms are geometrically similar crystal-units in which an equal number of atoms are geometrically arranged in a similar manner). When the atoms have similar sizes and similar physical properties (e.g. specific gravity, optical properties, etc.) a stable isomorphous situation exists.

All precipitation/crystallization reactions tend to carry other constituents (ions) from the mother-solution. Actual precipitation/crystallization occurs in a succession of steps as the process seeks equilibrium. The driving force for precipitation/crystallization is coincident crystal nucleation and heat loss. Initial nucleation is characterized by expanded growth-rate, and greater opportunity for substitutions in the crystal's structure. This mechanism leads to the desired formation of co-precipitated isomorphous minerals in a reaction-series. As co-precipitation accelerates, the larger crystals grow at the expense of smaller crystals with the smaller crystals dissolving and re-precipitating on the surfaces of larger crystals.

The process continues until equilibrium is reached and the mother-solution is depleted by initial nucleation, co-precipitation, and post co-precipitation. Problematic heavy metal ions are effectively rendered stable, insoluble and non-hazardous within distinct new mineral species.

There are more than 300 apatite isomorphs. One of the most common is fluoroapatite, $CA_5(PO_4)_3Fl$; the principal constituent of bone and teeth. Another form is hydroxyapatite, which has the following formula:

$Ca_5(PO_4)_3OH$

Lead, strontium, zinc, and other metal ions will preferentially substitute for calcium within the hydroxyapatite crystal structure, leading to a formula such as the following:

$Ca_nPb_{5-n}(PO_4)_3OH \qquad n<= 5$

Other materials may substitute at other points in the crystal. Fl (fluorine) or Cl (chlorine) can substitute for OH (hydroxl), SO_4 (sulfate) or AsO_4 (arsenate) may substitute for PO_4 (phosphate), etc. Substitutions do not change physical structure and have minimal effects on physical properties. Substituted apatites are durable (Mohs hardness is 5.0), resist pH transients (2-13), and will stand up under elevated temperatures (>1000ºC). Exposed apatites exist largely unchanged in nature for millions of years.

Working at Contaminated Sites

During a site remediation the key question is whether or not apatite formation can be initiated synthetically, under field conditions. Fortunately, apatite synthesis at ambient conditions is simple and very rapid. Three things are required, as follows:

1. The appropriate reagent mixture.
2. Blending - to initiate and accelerate the formation reaction.
3. Nucleation points - to focus initial formation, and then be taken up in the new mineral.

In some instances, each of these requirements is met with a single reagent. In some cases, additional reagents will improve economic and technical performance.

Treatment involves distributing the required amount of reagent(s) within the contaminated media. The natural penetration characteristics of liquid/solid reagents reduce the necessity for very aggressive mixing. The reagent immediately initiates chemical reactions, which form microscopic apatite crystal forms, and the apatite crystals isomorphically substitute heavy metal contaminants within their structure, eliminating or reducing leachability drastically.

The Evolution from SMMS Ex Situ to SMMS In-Situ.

Many remediation project managers who have dealt with the logistical challenges of excavating, staging, processing, storing, and disposing of materials during ex situ treatment operations have desired the option of the potential simplicity of in-situ treatment. Most remediation processes do not lend themselves to in-situ operations, but the SMMS process does.

The SMMS process lends itself to control. Containment is not a problem because the required amount of reagent addition is almost always less than 5% of treated media (by weight) and all reagents are consumed during initial reactions. Control is enhanced by using reagents with excellent penetration and distribution properties and by the fact that precision is rarely critical. Penetration to depths vary with soil type with ranges of 12”-24” in soils, sediments, and sludge’s. If contamination goes to even greater depths, treatment is accomplished in lifts or by the use of injection equipment.

Reagent application during in-situ operations is simple. A defined area is staked out, perhaps 25’ square. The reagent mixture is applied evenly over the specified area. The use of various mixing/blending equipment can employed also, pugmills, tilling and Trommel units all are capable dependant upon the needs of the site. The reagent initiates the formation of apatite mineral crystals and the crystals do the rest.

Excavation for offsite disposal, or to provide access to a new layer of contaminated soil, can be effected immediately following treatment. Or, since the soil was treated in-situ without being moved, and therefore never became a RCRA hazardous waste (assuming it is not a listed waste, or local state Totals values do not preclude) the soils may be able stay on site as fill.

Treatability Studies

Standard format, methodically conducted, laboratory glassware treatability studies are an important first step in the implementation of any remediation technology. No scale-up issues are associated with our treatment process, so laboratory test results are suitable for defining full scale processing parameters and for providing contractual performance guarantees. Steps include the following:

1. Contaminated media characterization. Total metals, metal valence state (where appropriate), TCLP leachable metals, pH, moisture content, soil classification (standard system), etc.
2. Selection of 2 or 3 preliminary treatment protocols, based upon prior experience.
3. Conduct selected treatment protocols on samples. Test for post-treatment TCLP leachable metals.

4. Select a cost effective treatment regime, which also meets other performance goals established for the site.

We hope this is helpful in your understanding and evaluation of our service and please feel free to call at any time.

Kenneth Pepperling

Managing Member

ADT Environmental Solutions

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