Remedial Action Report

Former Cashmere Mill Site (Phase 2)
Cashmere, Washington

for
Washington State Department of Ecology

April 24, 2015

GeoEngineers
Earth Science + Technology

Remedial Action Report

Former Cashmere Mill Site (Phase 2)
Cashmere, Washington

for
Washington State Department of Ecology

April 24, 2015

GeoEngineers

523 East Second Avenue
Spokane, Washington 99202
509.363.3125

Remedial Action Report

Former Cashmere Mill Site (Phase 2)
Cashmere, Washington

File No. 18593-001-04

April 24, 2015

Prepared for:

Washington State Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902-3452

Attention: Mary Monahan

Prepared by:

GeoEngineers, Inc.
523 East Second Avenue
Spokane, Washington 99202
509.363.3125



4/24/15

Joshua M. Lee
Staff Environmental Engineer

David R. Lauder, PE
Project Engineer

Bruce D. Williams
Managing Principal

JML:DRL:BDW:tjh

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Table of Contents

EXECUTIVE SUMMARY **ES-1**

1.0 INTRODUCTION **1**

2.0 SCOPE OF SERVICES **1**

3.0 SITE CONDITIONS **2**

3.1. Location 2
3.2. Background and History 2
3.3. Geologic Setting 3
3.4. Hydrogeologic Setting 3
3.5. Previous Investigations 3
3.6. Contaminants of Concern and Cleanup Levels 3
3.6.1. Soil 4
3.6.2. Groundwater 4
3.6.3. Cleanup Levels 4

4.0 CORRECTIVE ACTION OBJECTIVES AND METHODS **4**

5.0 CORRECTIVE ACTION IMPLEMENTATION **5**

5.1. General 5
5.2. Site Preparation and TESC 6
5.3. Dewatering 6
5.4. Removal of Phase 1 PCS Stockpiles 6
5.5. Excavation of Contaminated Soil 7
5.5.1. Water Line Excavation (EX1, EX2 and EX11) 8
5.5.2. Area 3 Excavation (EX3) 9
5.5.3. Storm Line (Phase 1) Excavation (EX4) 9
5.5.4. North Hg Area (Phase 1) Excavation (EX5) 9
5.5.5. South PCS Area (Phase 2) Excavation (EX6) 9
5.5.6. North Hg Area (Phase 2) Excavation (EX7) 9
5.5.7. Middle Hg Area Excavation (EX8) 10
5.5.8. West Hg Area Excavation (EX9) 10
5.5.9. South Hg Area Excavation (EX10) 10
5.5.10. Area 4 Excavation (EX12) 11
5.5.11. South PCS Area (Phase 1) Excavation (EX13) 11
5.6. Wood Waste Excavation 11
5.7. Backfill and Site Grading 12

6.0 SUMMARY OF CONFIRMATION SAMPLE CHEMICAL ANALYTICAL RESULTS **13**

7.0 GROUNDWATER MONITORING **14**

7.1. Infiltration Area Water Sample 14
7.2. Post-Construction Groundwater Monitoring 14
7.3. Groundwater Elevation Monitoring 14
7.4. Groundwater Sampling 14

8.0 GROUNDWATER CHEMICAL ANALYTICAL RESULTS **15**

8.1. Groundwater Chemical Analytical Results 15
8.1.1. General 15
8.1.2. Water Quality Parameters 15
8.1.3. Chemical Analytical Results 15
9.0 CONCLUSIONS AND SUMMARY 16
10.0 REFERENCES 17

LIST OF TABLES

Table 1. Summary of Chemical Analytical Results – Confirmation Soil Samples
Table 2. Summary of Chemical Analytical Results – Infiltration Pond Water Sample
Table 3. Summary of Chemical Analytical Results – Cashmere Imported Fill
Table 4. Summary of Field Quality Parameters - Groundwater
Table 5. Summary of Chemical Analytical Test Results - Groundwater

LIST OF FIGURES

Figure 1. Vicinity Map
Figure 2. Site Plan
Figures 3 through 6. Phase 2 Final Remedial Excavation Extents
Figure 7. Remaining Confirmation Samples Exceeding Cleanup Levels
Figure 8. Arsenic Detection, December 2, 2014
Figures 9 through 17. Arsenic versus Groundwater Elevation

APPENDICES

Appendix A. Field Procedures
Appendix B. Laboratory Reports
Appendix C. Disposal Documentation (on attached CD)

ACRONYMS AND ABBREVIATIONS

ARI – Analytical Resources, Inc.

bgs – below ground surface

BTEX – benzene, toluene, ethylbenzene and xylene

COC – contaminants of concern

COPC – contaminants of potential concern

cPAH – carcinogenic polycyclic aromatic hydrocarbon

DO – dissolved oxygen

DOT – Department of Transportation

DRPH – diesel-range petroleum hydrocarbons

Ecology – Washington State Department of Ecology

EPA – Environmental Protection Agency

ev – electron volt

Filion – George Filion Landfill in Cashmere, Washington

GeoEngineers – GeoEngineers, Inc.

GPS – global positioning system

GRPH – gasoline-range petroleum hydrocarbons

GWRL – Greater Wenatchee Regional Landfill

HCID – hydrocarbon identification

LCS – laboratory control sample

LCSD – laboratory control sample duplicate

MFA – Maul Foster & Alongi, Inc.

mg/kg – milligrams per kilogram

µg/L – micrograms per liter

mg/L – milligrams per liter

ACRONYMS AND ABBREVIATIONS (CONTINUED)

MS – matrix spike

MSD – matrix spike duplicate

MTCA – Model Toxics Control Act

NTU – nephelometric turbidity units

ORP – oxygen-reduction potential

ORPH – oil-range petroleum hydrocarbons

PAHs – polycyclic aromatic hydrocarbons

PCS – petroleum-contaminated soil

PID – photoionization detector

Port – Port of Chelan County

ppm – parts per million

QA/QC – quality assurance/quality control

RH2 – RH2 Engineering

RPD – relative percent difference

SDGs – sample delivery groups

SVOCs – semivolatile organic compounds

TCLP – Toxicity Characteristic Leachate Procedure

TESC – temporary erosion and sediment controls

TestAmerica – TestAmerica Laboratories, Inc.

Tommer – Tommer Construction Company, Inc.

TPH – total petroleum hydrocarbons

VOCs – volatile organic compounds

EXECUTIVE SUMMARY

This report summarizes Phase 2 remedial excavation activities at the former Cashmere Mill property (site) in Cashmere, Washington. The goals for Phase 2 included: (1) removing petroleum- and mercury-contaminated soil from the site; and (2) removing non-contaminated wood waste from portions of the site to enhance the suitability of the site for future development. Multiple assessments at the Cashmere site identified areas of widespread and scattered soil and groundwater contamination. Contaminants of concern (COCs) identified in previous assessments included petroleum compounds, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) and mercury. Additionally, past use of the site as a mill resulted in placement of wood waste in most of the site, making the site generally unsuitable for development.

Phase 1 remedial excavation activities were conducted in 2013. The primary focus of Phase 1 was the removal of wood waste from select parcels located north of Mill Road. As part of those activities, some petroleum-contaminated soils (PCS) were excavated and stockpiled on-site in anticipation of future removal. A follow-up site assessment by GeoEngineers, Inc. (GeoEngineers) in 2013 and 2014 identified nine areas of contamination in addition to the Phase 1 stockpiles.

Phase 2 activities at the site were performed between July 16, 2014 and October 13, 2014 and included:

- Installation of dewatering wells to support excavation activities;
- Excavation and off-site disposal of contaminated soil;
- Collection and analysis of confirmation samples from the sidewalls and/or base of the remedial excavations;
- Excavation of general wood waste within a portion of the Phase 2 area; and
- Backfilling the excavations with both on-site and imported fill material after confirmation samples indicated concentration of COCs were less than established site cleanup levels, or the limits of the excavation reached property boundaries or site utilities.

Approximately 6,702 tons of contaminated soil were excavated from the site. The stockpiles generated from Phase 1 activities (approximately 9,113 tons) also were excavated and hauled from the site. Contaminated soil was taken to the Waste Management Greater Wenatchee Regional Landfill (GWRL) near Wenatchee, Washington for disposal.

Approximately 76,302 tons of general wood waste material were excavated from the site and processed (screened) for on-site reuse as backfill, storage at GWRL for future use, or off-site disposal. Of the approximately 76,302 tons, approximately 48,052 tons of 2-inch-minus wood waste material were transported to GWRL and stockpiled for future use as final cover for the landfill; approximately 27,711 tons of processed coarse gravel, cobbles and boulders were reused on-site as backfill. (Screened 6-inch plus material was crushed on-site before being reused as backfill.) Approximately 42 tons of wood debris and 233 tons of garbage were disposed at the GWRL. Approximately 211 tons of concrete debris were disposed offsite at the Filion Inert Landfill (5600 Nahahum Canyon Road). Approximately 53 tons of metal debris were taken offsite by the contractor for recycling.

Approximately 74,243 tons of imported backfill were placed in excavated areas. The northern area (Phase 1) of the site was graded to promote drainage away from Sunset Highway and the Wenatchee River.

GeoEngineers conducted field-screening of contaminated soil excavations, and collected soil confirmation samples. Results of field screening and confirmation sample analytical results indicated soil left at the limits of remedial excavations contained COCs at concentrations less than applicable cleanup levels, with the following exceptions. Two confirmation samples, collected along the eastern property boundary of Parcel 200 referred to as the "Water Line Excavation," contained total petroleum hydrocarbons (TPH) at concentrations exceeding the site-specific Model Toxics Control Act (MTCA) Method B cleanup level. However, that excavation was terminated because of the proximity of the excavation to the property boundary. One Phase 1 confirmation sample (A2-W38-S-4) collected within the South PCS Area also was left in place following Phase 1 and Phase 2 activities. This sample was located at the property boundary between Parcel 550 and Mill Road.

GeoEngineers conducted groundwater sampling in December 2014, after Phase 2 activities were completed. Arsenic was detected in groundwater samples from 6 of the 11 wells sampled at concentrations exceeding the MTCA Method A cleanup level for arsenic. Other site COCs were either not detected or detected at concentrations less than cleanup levels in the groundwater samples.

Remaining soil contamination along the eastern property boundary of Parcel 200 and near previous confirmation sample A2-W38-S-4, will require a restrictive covenant until the contaminated soil can be excavated and properly disposed offsite. Additionally, the presence of groundwater exceeding cleanup levels for arsenic also will require a restrictive covenant.

1.0 INTRODUCTION

GeoEngineers has prepared this report for the Washington State Department of Ecology (Ecology) in support of their Toxics Cleanup Program, describing remedial activities associated with Phase 2 remediation at the former Cashmere Mill site (site) located in Cashmere, Washington. The site is located approximately as shown on the Vicinity Map, Figure 1. Phase 1 activities were conducted at the site in 2013. Principal Phase 1 activities included:

- Removing approximately 300 truckloads of previously stockpiled debris and excavating approximately 428 truckloads of wood waste material and disposing the material off-site.
- Excavating approximately 3,670 cubic yards of PCS and stockpiling the material south of Mill Road.
- Excavating approximately 336 cubic yards of refuse and debris and disposing the material off-site.

Phase 2 remediation activities occurred from July 2014 to October 2014 and generally included:

- Removal and disposal of soil contaminated with mercury, polycyclic aromatic hydrocarbons (PAHs), and petroleum hydrocarbons identified as part of a data gap assessment conducted in 2013 and 2014;
- Removal of PCS stockpiles constructed as part of Phase 1 activities;
- Installation of dewatering wells and operation of a dewatering system to facilitate wood waste removal;
- Removal of wood waste material from designated portions of the site south of Mill Road;
- Placement of imported backfill into the excavations; and
- Regrading the Phase 1 area to promote drainage away from Sunset Highway and the Wenatchee River and encourage infiltration on-site.

Funding for the project was provided by Ecology and administered through the Port of Chelan County (Port). Construction work was conducted under a Public Works contract managed by the Port. RH2 Engineering (RH2) (under contract with the Port) provided design and construction management services for the duration of the project. Tommer Construction Company, Inc. (Tommer) of Ephrata, Washington was selected as the general contractor for the project and was contracted directly by the Port. GeoEngineers (under contract with Ecology) provided observation, documentation and sampling services during excavation of contaminated soils.

2.0 SCOPE OF SERVICES

Our services were conducted in general accordance with our Work Plan dated September 4, 2013, and Work Assignment No. C11145ZZ between GeoEngineers and the Ecology. GeoEngineers observed and documented the remedial excavation activities, and collected confirmation samples from the excavations. Our specific scope of services during the remedial action included:

- Observing and documenting remedial excavation activities.
- Field screening representative soil excavated from identified contaminated areas during the remedial action, and based on field screening results, working with the Engineer (RH2) and Contractor (Tommer)

to identify appropriate disposal for wastes removed from the site. Selected samples were field-screened using visual observations, water sheen methods, and headspace vapor measurements with a photoionization detector (PID) to assess possible presence of petroleum-related contaminants.

- Collecting soil confirmation samples from the limits of the contaminated soil remedial excavations and submitting the samples to TestAmerica Laboratories, Inc. (TestAmerica) located in Spokane Valley, Washington. Samples were analyzed for COCs based on identified or suspected contaminants from the data gap assessment.
- Collecting groundwater samples from existing groundwater monitoring wells after Phase 2 activities had been conducted and submitting chemicals for chemical analysis.
- Entering analytical data into Ecology's Environmental Information Management database upon project completion.

A summary of our field procedures during soil and groundwater sampling is presented in Appendix A. Copies of the analytical laboratory test reports are presented in Appendix B. Copies of truck scale tickets are presented in Appendix C.

Observation and documentation of the general wood waste excavation located throughout the Phase 2 area or documentation of backfilling activities was not part of the scope.

3.0 SITE CONDITIONS

3.1. Location

The site is located in the Wenatchee River valley in the town of Cashmere, Washington. The site occupies approximately 32.5 acres adjacent to Sunset Highway. The site is generally divided into two areas, bisected by Mill Road. Phase 1 is identified as the portion of the site on the north side of Mill Road and Phase 2 is located on the south side of Mill Road. Phase 2 is bounded on south, west and east Brender Creek. The Wenatchee River is located approximately 100 feet to the north on the opposite side of Sunset Highway, as shown on the Site Plan, Figure 2.

3.2. Background and History

The site operated as a lumber mill from the 1940s to the late 1970s and for a variety of commercial and light industrial uses thereafter. Activities during mill operations reportedly included manufacturing lumber for fruit boxes. Wood treating activities are not known to have occurred at the site. An accidental fire in 1990 damaged some mill buildings and a second fire in 2000 destroyed many of the remaining ones. The site is currently owned by Port of Chelan County.

During mill operations, a pond was located in the southeast portion of Phase 1, but was filled in the 1950s. Most of the Phase 2 area was used to store logs during mill operation. Low lying areas of both Phase 1 and Phase 2 were reportedly filled over several decades of mill operation with imported fill from various sources, which included wood waste from mill operations. (Note: the term "wood waste" as described in this report generally refers to wood material, mixed with varying amounts of silt, sand, gravel, cobble and boulders, generated during mill operations that was not commercially valuable and was utilized as fill material at the site; it does not indicate the wood designates as "waste" under Washington State regulations).

3.3. Geologic Setting

The site is situated within a former meander of the Wenatchee River. The meander was cut off by a railroad embankment when a railroad was constructed through the town of Cashmere around 1900. Brender Creek now borders the southern extents of the site and meander channel. Surficial geology consists of alluvial deposits of silt, sand, gravel, cobbles and boulders deposited by the Wenatchee River. Based on results of site explorations, alluvial deposits extend to depths of at least 40 feet below the site.

3.4. Hydrogeologic Setting

A detailed description of the hydrogeologic setting for the site is presented in the Dewatering Assessment report by GeoEngineers, dated July 31, 2013 (GeoEngineers, 2013a). The groundwater table within the shallow unconfined aquifer beneath the site is at a similar elevation to the nearby Wenatchee River, and the shallow aquifer likely is hydraulically connected with the river. In such systems, where an aquifer is hydraulically connected to a river, groundwater typically flows down-valley, roughly parallel to, but slightly toward, the river, but at a much slower velocity. Based on groundwater elevation measurements during the winter of 2013-2014, shallow groundwater at the site generally flows northeast, at depths less than 3 to 7 feet below site grade.

The Wenatchee River flows east-southeast through Cashmere and is located north of the site. Brender Creek travels along the east, south, and west portions of the site and discharges into Mission Creek north of Sunset Highway; Mission Creek then discharges into the Wenatchee River. No Name Creek flows east within a culvert along the south side of Mill Road through the Phase 2 area and in an exposed ditch bordering Mill Road directly east of the site, then re-enters a culvert and flows north-northeast beneath Mill Road and through Parcel 650.

3.5. Previous Investigations

Previous investigations and interim action activities have been conducted at the site to identify COCs. Activities conducted before 2013 are summarized in a report titled “Site Investigation Report, Former Cashmere Mill Site, Cashmere, Washington” by Maul Foster & Alongi, Inc. (MFA), dated March 20, 2013 (MFA, 2013). Phase 1 remedial activities were conducted in the spring and summer of 2013, and included removing and stockpiling wood waste and PCS from the Phase 1 area. Stockpiles developed from Phase 1 activities were constructed on the Phase 2 portion of the site. Stockpiles A through G are shown on Figure 2. The results of Phase 1 remedial activities are described in a report by MFA titled “Phase 1 Interim Action Report, Former Cashmere Mill Site,” dated May 6, 2014 (MFA, 2014).

Between September and December 2013, data gap assessment activities were conducted by GeoEngineers to further evaluate subsurface soil and groundwater conditions at the site. The results of the data gap assessment are provided in GeoEngineers’ report titled “Data Gap Assessment Report, Former Cashmere Mill Site, Cashmere, Washington,” dated May 7, 2014 (GeoEngineers, 2014). Approximate locations of previous explorations conducted by both GeoEngineers and others are shown on Phase 2 Final Remedial Excavation Extents, Figures 3 through 6.

3.6. Contaminants of Concern and Cleanup Levels

Based on previous site assessments, COCs were generally associated with historic storage and distribution of petroleum products and mercury contamination. COCs established for the site included the following constituents:

3.6.1. Soil

- TPH, including gasoline-range petroleum hydrocarbons (GRPH), diesel-range petroleum hydrocarbons (DRPH) and oil-range petroleum hydrocarbons (ORPH);
- VOCs including benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds and naphthalenes;
- SVOCs, including PAHs; and
- Mercury.

3.6.2. Groundwater

- GRPH, DRPH and ORPH
- BTEX
- Arsenic
- Mercury

3.6.3. Cleanup Levels

The following cleanup levels were established for the site:

3.6.3.1. Soil

- TPH – 3,400 milligrams per kilogram (mg/kg) (MTCA Method B cleanup level)
- BTEX – Applicable MTCA Method A cleanup levels for unrestricted land use
- SVOCs\PAHs – Applicable MTCA Method A cleanup levels for unrestricted land use, specifically 0.1 mg/kg for carcinogenic PAHs (cPAHs) based on toxic equivalency factors presented in Table 708-2 in Washington Administrative Code 173-340-9001
- Mercury – 2 mg/kg
- Naphthalene – 5 mg/kg

3.6.3.2. Groundwater

- Groundwater cleanup levels for the site were established in accordance with MTCA Method A.

4.0 CORRECTIVE ACTION OBJECTIVES AND METHODS

The remedial action was implemented to reduce the potential risk to human health and the environment as a result of exposure to identified COCs within the vadose-zone soil. The following activities were conducted at the site to reduce human health and ecological risks from exposure to site COCs:

- Excavating contaminated soil to approximately 1 to 3 feet below the groundwater surface and laterally until confirmation sample results indicated COC concentrations were less than established cleanup levels ("Section 3.6, Contaminants of Concern and Cleanup Levels"), or the excavation was limited by the property boundary or other site features;
- Removing and offsite disposal of existing stockpiles from the Phase 1 area located south of Mill Road;
- Disposing of excavated soils at regional landfills in accordance with Washington State Regulations;

- Excavating of general wood waste throughout the Phase 2 area; and
- Backfilling remedial excavations with imported soil and grade the surface to promote stormwater drainage away from Sunset Highway and the Wenatchee River and encourage infiltration on-site.

5.0 CORRECTIVE ACTION IMPLEMENTATION

5.1. General

RH2 provided on-site engineering oversight throughout the duration of the project. GeoEngineers personnel made periodic site visits, upon request from RH2, to observe excavation of contaminated soil and collect soil confirmation samples. RH2 documented quantities throughout the project, and provided GeoEngineers with a summary of Phase 2 earthwork quantities, which is presented in the table titled Phase 2 Earthwork Summary.

PHASE 2 EARTHWORK SUMMARY

Description	Quantity[1] (Tons)	Disposition
Excavation Quantities		
1. Contaminated Soil		
Contaminated Soil Excavation	6,702	GWRL
PCS Stockpiles from Phase 1	9,113	GWRL
Total Contaminated Soil Excavation and Disposal	15,815	GWRL
2. Non-contaminated Soil/General Wood Waste Excavation		
Class 1 Material (Garbage)	233	GWRL
Class 2 Material (<2 inch minus)	48,052	GWRL (stockpiled for future use as final cover)
Class 3 Material (wood)	42	GWRL
Class 4 Material (concrete debris)	211	Filion Inert Landfill
Class 4 Material (>6-inch rocks)	9,760	Crushed and reused as on-site backfill
Class 5 Material (2- to 6-inch rocks)	17,951	Reused as on-site backfill
Metal Disposal	53	Recycled by contractor
Total Non-contaminated Material Excavation	76,302	Varies
Import Quantities		
1. Common Borrow from GWRL	39,691	On-site Backfill
2. Common Borrow from Contractor-Supplied Source	34,552	On-site Backfill
Total Imported Common Borrow	72,243	On-site Backfill

Notes: [1]Quantities were provided by RH2 Engineering.

Tommer mobilized to the site on July 14, 2014 and began site preparation activities. Remedial excavation activities began on July 16, 2014 and continued intermittently until October 13, 2014. GeoEngineers made periodic site visits to observe and document excavation of contaminated soil, confirm compliance with project specifications, and collect remedial excavation confirmation samples. GeoEngineers was not on site to observe wood waste excavation and backfilling activities. Remedial excavation and confirmation sample locations are provided in Figures 3 through 6. The following sections provide details of remedial excavation activities.

5.2. Site Preparation and TESC

Tommer mobilized to the site on July 14, 2014, and set up temporary site facilities and temporary erosion and sediment controls (TESC). TESC consisted of silt fences along the property boundaries and between Phase 1 and Phase 2 areas of the site. Planned excavation boundaries as identified in the project drawings, were staked and marked with paint before initiating the excavation. Groundwater monitoring and dewatering wells were staked and flagged to minimize the potential for damage from construction equipment. Tommer conducted utility locates as part of site mobilization activities, which included a one-call utility locate request for the site and a meeting with John Payne of the City of Cashmere for water and sewer locates.

5.3. Dewatering

To accommodate wood waste excavation activities, Tommer's hydrogeologic consultant designed a dewatering system for the Phase 2 area. Tommer's subcontractor, Glacier Drilling and Dewatering of Olympia, Washington, mobilized to the site on July 21, 2014 to install 13 dewatering wells. Approximate locations of the wells are provided in Figure 2. Initial attempts to install the dewatering wells with a bucket auger rig were unsuccessful because of the presence of gravels and cobbles in the subsurface soil. The dewatering system installation was delayed until different drilling equipment could be mobilized to the site. On August 20, 2014, Tommer's subcontractor, O'Keefe Drilling of Butte, Montana, arrived on-site and began installing the dewatering wells using a DR-24 air rotary drill rig. Dewatering well installation was finished on September 4, 2014.

After the dewatering wells were installed, Tommer began pumping from four dewatering wells in the northeast corner of Phase 2 at a rate of about 150 gallons per minute each (based on information provided by Tommer). Water was discharged to a dewatering infiltration "pond" in the northwest corner of Phase 1 (Figure 2). At the conclusion of Phase 2 activities, Glacier Drilling decommissioned the dewatering wells. Tommer backfilled the infiltration "pond" with imported fill.

5.4. Removal of Phase 1 PCS Stockpiles

The Phase 1 contractor created stockpiles A through G during the Phase 1 remediation activities in the summer of 2013; locations of these stockpiles are shown in Figure 2. Tommer removed stockpiles A through G concurrently during Phase 2 remedial excavation activities. Stockpile G was designated as unsuitable material to be processed as waste material, but the material was disposed with Stockpiles A through F as PCS at the GWRL. Analytical data from pre-remedial excavation work is included in GeoEngineers' Data Gap Assessment Report dated May 7, 2014 (GeoEngineers, 2014).

5.5. Excavation of Contaminated Soil

Between July 16 and October 13, 2014, Tommer excavated contaminated soil from 13 areas (EX1 through EX13) at the site. Nine excavation areas were identified from the data gap assessment; however, during the relocation of a water line in the eastern portion on the site near Mill Road, additional hydrocarbon petroleum contamination was identified and four additional excavation areas were identified. Those four areas were identified as EX1, EX2, EX11 and EX13. As a result of contamination extents, excavations EX1, EX2 and EX11 located south of Mill Road were combined into a single excavation and are referenced as the "Water Line Excavation." Excavation EX13 was referenced as the "South PCS Area (Phase 1) Excavation."

Soil was excavated to depths approximately 1 to 3 feet below groundwater. Excavation depths ranged from approximately 5 to 10 feet below ground surface (bgs). Approximate depths of each remedial excavation are provided on Figures 3 through 6. Soil from the excavations ranged from brown and grey fine to medium sand with gravel, cobbles and boulders, to silt and silty fine sand. Wood and concrete debris also were present in the material in varying amounts. Concrete debris was segregated from excavated soil and hauled offsite for disposal at the Filion Inert Landfill located in Cashmere, Washington. Large wood debris was disposed at GWRL.

Contaminated soil excavated from the site was loaded directly into trucks and hauled offsite for disposal, except for some material removed from EX7, EX10 and EX13. Material removed from extensions of the EX7 excavation was temporarily stockpiled on plastic sheeting, sampled and tested for Toxicity Characteristic Leachate Procedure (TCLP)-mercury to further characterize the material, following initial elevated mercury concentrations in contaminated samples collected from sidewall samples. Materials excavated from the EX13 excavation were stockpiled on plastic sheeting pending analytical results at the request of RH2 to potentially reduce disposal costs. After analytical results were received, the material from these three excavations was disposed at GWRL.

Excavations were expanded until: (1) field screening and visual observation by GeoEngineers did not indicate the likely presence of COCs; or (2) the excavation was proximate to subsurface utilities or the site property boundaries.

After excavations were terminated, GeoEngineers collected confirmation samples from excavation sidewalls. One confirmation sample was collected from each sidewall on excavations with sidewalls smaller than 50 linear feet and approximately every 50 linear feet of excavation sidewall on larger excavations. Several confirmation samples also were collected from excavation bottoms, where excavations did not extend down to groundwater, or where excavations had been dewatered. Eighty-five confirmation samples were analyzed for one or more of the following analytes: hydrocarbon identification (HCID), GRPH, DRPH, ORPH, VOCs, SVOCs, PAHs, Metals, and/or TCLP-mercury. Seven stockpile samples also were analyzed.

TestAmerica conducted confirmation sample analysis using the following methods for soil:

- HCID using NWTPH-HCID;
- GRPH using Northwest Method NWTPH-Gx;
- DRPH and ORPH using Northwest Method NWTPH-Dx;
- VOCs using EPA Method 8260C;

- SVOCs using EPA Method 8270D;
- PAHs using EPA Method 8270D;
- Mercury using EPA 6010C/7000 Series Methods; and
- TCLP analyses for Mercury using EPA Method 200.8.

The weight of materials excavated was quantified using truck scales at GWRL. The weight of debris disposed at the local Filion Inert Landfill was quantified using truck scales at the Tree Top produce processing facility. Material excavated and reused on site was quantified using on-site scales provided by Tommer. Each truck was weighed before and after loading to calculate the weight removed from the site. The weights were totaled to obtain the total tonnage of contaminated soil removed from the site. Weight tickets were provided by RH2 as haulage documentation, and are provided in Appendix C, Disposal Documentation.

Approximate horizontal limits of each remedial excavation are shown in Figures 3 through 6. The excavation limits were mapped using a handheld global positioning system (GPS) device and field measurements. The GPS unit has an approximate horizontal accuracy of about 1 to 4 meters, depending on available satellites for relative positioning. The approximate locations of confirmation samples also are shown in Figures 3 through 6. Confirmation sample results are summarized in Summary of Chemical Analytical Results – Confirmation Soil Samples, Table 1. The following sections provide additional detail for each excavation.

5.5.1. Water Line Excavation (EX1, EX2 and EX11)

Tommer encountered unanticipated petroleum contaminated soil on July 15, 2014 while excavating a trench to relocate a water line near the northeast portion of the Phase 2 area. During excavation of the trench, Tommer personnel reportedly detected a strong petroleum odor and observed oil globules on water in the trench. On July 16, 2014, GeoEngineers sampled soil from the water line trench excavation (identified as EX1 and EX2). Samples collected and analyzed from areas near the petroleum odors (EX1-2-3 and EX2-1-3) and oil globules (EX1-3-3) contained petroleum hydrocarbon concentrations exceeding the TPH cleanup level for the site. Groundwater was encountered approximately 2 to 3 feet bgs in excavation EX1 and EX2; therefore, additional excavation was postponed until dewatering could occur.

On July 21, 2014, Tommer used an excavator in the location of the Water Line Excavation to facilitate temporary dewatering well installation. A test pit was excavated to approximately 15 feet bgs, and petroleum odors were present during excavation. Tommer backfilled the test pit with the excavated soil and further excavation at the Water Line Excavation was suspended until dewatering wells could be installed near the excavation but distant from contaminated soil and groundwater.

Dewatering wells were installed by O'Keefe Drilling on August 28, 2014, and excavation activities resumed after Tommer activated the dewatering system. Excavation activities (identified as EX11) resumed to the west and north, and continued until results of field screening and subsequent laboratory analysis did not indicate the presence of petroleum hydrocarbons greater than site cleanup levels. Excavation to the east and south was limited by the property boundary, and therefore the excavation was not expanded beyond the locations of confirmation samples EX1-2-3 and EX1-3-3, which contained TPH exceeding the site-specific Method B cleanup level. The total depth of the Water Line Excavation (EX1, EX2 and EX11) was approximately 8 feet to 10 feet bgs.

5.5.2. Area 3 Excavation (EX3)

The EX3 excavation was identified during the data gap assessment, with TPH as the COC. Tommer started excavating Area 3 on July 17, 2014 and extended the excavation to the north on July 22, 2014 as a result of positive field screening results for petroleum contamination. EX3 was excavated to approximately 6 to 7 feet bgs. Along a portion of the western sidewall, the excavation extended down about 3 feet until the existing cistern (identified during Phase 1 activities) was encountered. The excavation then extended deeper along the perimeter of the cistern and continued until field screening did not indicate the presence of petroleum contamination. The eastern section of the excavation bordered Parcel 650; however, field screening did not indicate petroleum contamination in this area. The excavation of EX3 also included removal of concrete pads with large wood foundation piles. Concrete removed from EX3 was disposed in the Filion landfill, and wood piles were disposed at the GWRL. Confirmation samples collected from EX3 after the July 22, 2014 excavation extension indicated remaining soil did not contain COCs at concentrations greater than site cleanup levels.

5.5.3. Storm Line (Phase 1) Excavation (EX4)

Soil represented by one sidewall confirmation sample exceeding site cleanup criteria for TPH was left in place at the conclusion of Phase 1 activities. Based on this, GeoEngineers identified this area in the data gap assessment with TPH as the COC. Tommer began excavating PCS at EX4 on July 21, 2014 to an approximate depth of about 7 feet bgs. Confirmation samples collected by GeoEngineers on July 21, 2014 from the excavation indicated remaining soil did not contain COCs at concentrations greater than applicable site cleanup levels.

5.5.4. North Hg Area (Phase 1) Excavation (EX5)

The North Hg Area was identified during the data gap assessment and was planned for excavation. COCs for this excavation included mercury and cPAHs. Tommer started excavating soil from EX5 on July 22, 2014 to an approximate depth of about 9 feet bgs. Field screening indicated possible petroleum contamination in the northwest sidewall of the excavation at the location of EX5-4-8; however, the excavation could not extend to the north because of the proximity to the sidewalk along Sunset Highway. Confirmation samples collected from the EX5 excavation (including EX5-4-8) indicated the soil did not contain COCs at concentrations greater than applicable site cleanup levels.

5.5.5. South PCS Area (Phase 2) Excavation (EX6)

The South PCS Area (Phase 2) was identified during the data gap assessment and was planned for excavation, with TPH as the COC. Tommer began excavating the area on July 23, 2014 to an approximate depth of about 8 feet bgs. Confirmation samples were collected and one sample (EX6-6-3) collected from the west side of the northern sidewall contained COCs at concentrations greater than cleanup levels. On July 31, 2014, the excavation was extended north until field screening did not indicate signs of contamination. Confirmation soil samples collected from the extended northern section did not contain COCs at concentrations greater than applicable cleanup levels.

5.5.6. North Hg Area (Phase 2) Excavation (EX7)

The North Hg Area (Phase 2) was identified during the data gap assessment with mercury as the COC. The EX7 excavation was extended several times because analytical results indicated mercury concentrations in sidewall samples were greater than cleanup levels. Excavation sidewalls were extended 5 feet laterally

after each set of sidewall samples contained COCs at concentrations exceeding site cleanup levels. The northwest sidewall was extended twice and the northeast sidewall was extended three times, as shown in Figure 4. The excavation contained building and wood debris, but material contaminated with mercury could not be identified through field screening.

Tommer began excavating EX7 on July 24, 2014 to an approximate depth of about 5 to 6 feet bgs. One confirmation sample (EX7-1-2) from the northeastern sidewall contained mercury concentrations greater than the cleanup level. On July 31, 2014, Tommer extended the excavation laterally approximately 5 feet to the northwest and the northeast. Confirmation sidewall samples EX7-9-3 and EX7-7-3, collected from the northwest and northeast sidewalls, respectively, contained mercury at concentrations greater than site cleanup levels.

On August 7, 2014, Tommer extended the excavation laterally approximately 5 feet to the northwest and the northeast. Confirmation samples from the northeast sidewall contained mercury at concentrations greater than the site cleanup level, but the confirmation samples collected from the northwest sidewall contained mercury at concentrations less than the site cleanup level.

On August 27, 2014, Tommer extended the excavation laterally approximately 5 feet to the northeast. Confirmation samples collected from the northeast sidewall after the August 27, 2014 excavation extension contained mercury at concentrations less than the site cleanup level.

Tommer stockpiled material excavated from EX7 on August 27, 2014 on plastic sheeting next to the excavation. Three samples were collected and analyzed for total mercury and TCLP-mercury. Analytical results indicated TCLP-mercury results were less than EPA D-list requirements (0.2 milligrams per liter [mg/L]); therefore, the stockpiled soil did not designate as dangerous waste and was disposed at the GWRL.

5.5.7. Middle Hg Area Excavation (EX8)

The Middle Hg Area was identified during the data gap assessment with mercury as the COC. Tommer began excavating EX8 on July 24, 2014 to an approximate depth of about 7 feet bgs. Confirmation sample EX8-4-5 from the north sidewall indicated concentrations of mercury greater than site cleanup levels. On July 31, 2014, Tommer extended the excavation laterally approximately 5 feet to the north. Confirmation samples from the north sidewall collected after the excavation extension contained mercury at concentrations less than site cleanup levels.

5.5.8. West Hg Area Excavation (EX9)

The West Hg Area was identified during the data gap assessment with mercury and TPH as the COCs. Tommer began excavating EX9 on July 24, 2014 to an approximate depth of about 5 feet bgs. Confirmation samples from the excavation did not contain COCs at concentrations exceeding site cleanup levels.

5.5.9. South Hg Area Excavation (EX10)

The South Hg Area was identified during the data gap assessment with mercury as the COC. Tommer began excavating EX10 on July 24, 2014 to a depth of about 6 feet bgs. Some of the material excavated from the EX10 excavation was saturated because of shallow groundwater. Tommer stockpiled the material on plastic sheeting next to the excavation until it was suitable for transport to GWRL. Confirmation samples from the excavation did not contain COCs at concentrations exceeding site cleanup levels.

5.5.10. Area 4 Excavation (EX12)

Area 4 was identified during the data gap assessment with TPH as the COC. Tommer began excavating EX12 on September 3, 2014 to an approximate depth of about 6 to 8 feet bgs. Because of a mechanical breakdown, Tommer completed initial excavation on September 4, 2014. GeoEngineers collected confirmation samples on September 4, 2014. Confirmation samples EX12-2-3 and EX12-1-2.5 from the west sidewall contained COCs at concentrations exceeding site cleanup levels. On September 12, 2014, Tommer extended the excavation laterally approximately 10 feet to the west. Confirmation samples from the extended west sidewall did not contain COCs at concentrations greater than site cleanup levels. Active dewatering occurred while excavating the EX12 excavation.

5.5.11. South PCS Area (Phase 1) Excavation (EX13)

In early October 2014, Tommer encountered soil believed to contain PCS during excavation for the water line replacement on the north side of Mill Road. Tommer began remedial excavation EX13 on October 13, 2014, and the excavation was completed to an approximate depth of 5 to 6 feet bgs. Confirmation samples from the excavation sidewalls did not contain COCs at concentrations exceeding site cleanup levels.

At the request of RH2, material excavated from the EX13 excavation was stockpiled on plastic sheeting next to the excavation and three samples were collected and analyzed for TPH. Field screening during excavation indicated that a layer of excavated soil approximately 2 inches to 4 inches thick was contaminated with petroleum hydrocarbons. Tommer mixed the stockpiled soil and GeoEngineers personnel collected stockpile samples. Analytical results of the stockpile samples indicated that TPH concentrations were less than the established site cleanup level. However, because of the variability of contaminant concentrations within the stockpile, the soil was disposed as PCS at GWRL.

5.6. Wood Waste Excavation

The Port and Waste Management negotiated terms for Waste Management to accept wood waste from the site for future use as final cover for GWRL. To accommodate this, Waste Management dedicated a portion of their GWRL facility as a stockpile location to store wood waste material delivered from the site until needed during closure of GWRL. To meet Waste Management's grain-size requirements for final cover material (soil and wood less than 2 inches in diameter), and to reduce the amount of material disposed, the project specifications included requirements for the contractor to process (screen and segregate) excavated wood waste material.

RH2, with assistance from GeoEngineers, established five classes of excavated wood waste mixed with soil. Class 1 material (garbage) was hauled directly to, and disposed at, GWRL. Class 2 material (excavated wood waste and soil, screened finer than 2 inches in diameter) was hauled to GWRL and stockpiled for future use. Class 3 material (excavated large pieces of wood) was disposed at GWRL. Class 4 material (rocks larger than 6 inches in diameter) was crushed and reused on-site as backfill. Class 4 material (large concrete debris) was disposed at the Filion Inert Landfill. Class 5 material (rocks between 2 inches and 6 inches in diameter) were reused on-site as backfill.

Tommer began general wood waste excavation activities after removing stockpiles A through G, starting removal of known areas of contaminated soil and activating the dewatering system. (Portions of the mercury-contaminated areas located outside of the planned wood waste excavation were conducted

simultaneously with the wood waste excavation). The Phase 2 wood waste excavation activities generally were located within the northeast portion of the Phase 2 area, and progressed from east to west until the project budget was reached. The approximate limits of the Phase 2 wood waste excavation is shown on Figure 2.

Approximately 76,302 tons of material was excavated from the Phase 2 wood waste excavation area. Of this, approximately 233 tons of Class 1 (garbage) material was disposed at GWRL. Approximately 76,016 tons of other wood waste material (Class 2 through Class 5) was excavated from the site and processed. Of this, approximately 48,052 tons of Class 2 material was transported and stockpiled at GWRL for use as a final cover; approximately 42 tons of Class 3 material was disposed at GWRL; approximately 27,711 tons of Class 4 and Class 5 rocks were reused as on-site backfill; and approximately 211 tons of Class 4 concrete debris was disposed at the Filion Inert Landfill. In addition, Tommer removed approximately 53 tons of metal debris for recycling. The Phase 2 Earthwork Summary table in "Section 5.1" presents a summary of wood waste excavation quantities.

5.7. Backfill and Site Grading

Site excavations were backfilled with imported borrow and excavated Class 4 and 5 rock material. Backfill was generally placed into the excavations as soon as the results of the confirmation samples were available. Remedial excavation conducted in the wood waste removal area of Phase 2 (EX6, EX7, EX8, EX9 and EX10) were generally left open until after the general wood waste excavation was conducted or backfilled as necessary to promote excavation stability or protect site utilities and fences. In addition to backfilling excavations with imported borrow, the northern portion of the site (Phase 1) was graded to direct surface water runoff away from Sunset Highway and the Wenatchee River and promote stormwater infiltration on-site.

Imported borrow consisted of sand from two sources: (1) the GWRL facility; and (2) a borrow source owned by Tommer. Seven samples of proposed borrow material were collected from the GWRL facility by representatives of RH2, and submitted to Analytical Resources, Inc. (ARI) for analytical testing in accordance with the project specifications. Tommer submitted six soil samples from their proposed borrow source to TestAmerica for analytical testing in accordance with the project specifications. Each soil sample submitted for use as backfill was analyzed for the following contaminants of potential concern (COPCs):

- VOCs using EPA Method 8260C.
- SVOCs using EPA Method 8270D.
- Pesticides using EPA Method 8081B.
- Metals (As, Cr, Cu and Pb) using EPA 6010/7000 Series Methods.

The borrow source samples did not contain metals at concentrations exceeding MTCA Method A cleanup levels. Pesticides and cPAHs also were not detected in the samples. Several samples contained acetone and methylene chloride; methylene chloride was detected in two of the samples from the GWRL source at concentrations exceeding the MTCA Method A cleanup level for unrestricted land use. The laboratory indicated in its narrative that acetone and methylene chloride are common laboratory solvents and contaminants. Based on consultation with the laboratory and Ecology, it was concluded that detections of these analytes were most likely the result laboratory contamination. On this basis, results of analytical testing indicated the borrow sources met the project specifications and the borrow sources were approved

for use. A summary of analytical test results on proposed borrow material is presented in Summary of Chemical Analytical Results – Imported Fill, Table 3.

Approximately 72,243 tons of borrow (approximately 39,691 tons from GWRL and 34,552 tons from Tommer) were delivered to the site and used to backfill excavations and regrade portions of the site. The table titled Phase 2 Earthwork Summary in "Section 5.1" presents a summary of imported material quantities.

6.0 SUMMARY OF CONFIRMATION SAMPLE CHEMICAL ANALYTICAL RESULTS

Confirmation soil samples from contaminated soil excavation areas were analyzed for one or more of the following: HCID, GRPH, DRPH, ORPH, VOCs, SVOCs, PAHs, mercury and TCLIP-mercury. The following table summarizes the number of samples analyzed from each excavation.

CONFIRMATION SOIL SAMPLE SUMMARY

Excavation	Excavation Label	Number of Confirmation Samples Analyzed
Water Line (Trench and Excavation)	EX1, EX2, EX11	11
Area 3	EX3	6
Storm Line	EX4	4
North Hg Area (Phase 1)	EX5	6
South PCS Area (Phase 2)	EX6	8
North Hg Area (Phase 2)	EX7	19; 3 additional stockpile samples
Middle Hg Area	EX8	5
West Hg Area	EX9	5
South Hg Area	EX10	6
Area 4	EX12	11
South PCS Area (Phase 1)	EX13	4; 3 additional stockpile samples

Chemical analytical results for confirmation samples are summarized in Table 1. Electronic copies of laboratory reports are provided in Appendix B.

Analytical laboratory results of confirmation samples collected from the final limits of remedial excavations EX3 through EX10, and EX12 and EX13 indicated remaining site soil contained COCs at concentrations less than applicable cleanup levels. However, confirmation samples EX1-2-3 and EX1-3-3, located near the property line within the Water Line Extension (EX1, EX2 and EX11), contained TPH at concentrations exceeding the site-specific MTCA Method B cleanup level for TPH. Sample EX1-3-3 also exceeded the MTCA Method A cleanup level for naphthalenes. The remedial excavation was not extended further because of the proximity of the excavation to the property line.

Remaining Confirmation Samples Exceeding Cleanup Levels, Figure 7 presents a site plan showing the locations of confirmation samples EX-1-2-3, EX1-3-3, as well as previous confirmation sample A2-W38-S-4 (collected during Phase 1 activities), which contained analytes at concentrations exceeding applicable cleanup levels, which were not further excavated because of proximity to property lines.

7.0 GROUNDWATER MONITORING

7.1. Infiltration Area Water Sample

At the request of RH2, GeoEngineers collected one grab water sample from the dewatering system at the outfall to the infiltration area on August 28, 2014 and submitted it to TestAmerica for analysis of total arsenic and total mercury using EPA 200.8 Series Methods. Arsenic was detected in the sample (Infiltration Pond 8/28/14) at a concentration of 0.0057 mg/L. This concentration is greater than the MTCA Method A groundwater cleanup level (0.005 mg/L). Mercury was not detected. Analytical results for water sampled from the infiltration area are provided in Summary of Chemical Analytical Results – Infiltration Pond Water Sample, Table 2.

7.2. Post-Construction Groundwater Monitoring

GeoEngineers conducted groundwater sampling on December 2 and December 3, 2014 from site monitoring wells (MW-1 through MW-9, B-1, and OW-1) after Phase 2 activities had been concluded. Approximate locations of site monitoring wells are shown in Arsenic Detection, December 2, 2014, Figure 8. Depth to groundwater was measured in each well and water quality parameters were recorded while purging the wells using low-flow sampling techniques. Measured water quality parameters included: pH, specific conductivity, turbidity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP). Soluble ferrous iron also was measured in the field using a Hach IR-18C color disc kit and the 1,10-phenanthroline testing method. Headspace vapors measured within the well and water quality parameters were recorded during purging activities and are presented in Summary of Field Quality Parameters - Groundwater, Table 4. Purge water was drummed and stored on-site pending chemical analytical results.

7.3. Groundwater Elevation Monitoring

Groundwater depths were measured from the top of the well casing on December 2, 2014 at site monitoring wells MW-1 through MW-9, B-1 and OW-1. Groundwater depths ranged from about 2.75 feet (MW-9) to 6.30 feet (MW-2) less than the top of well casing. Groundwater depths are included in Table 4. Groundwater elevations calculated from depth to water measurements were inconsistent with previous monitoring events and calculated elevations did not provide a clear picture of groundwater flow direction and gradient. Construction activities might have disturbed the local groundwater regime or altered the groundwater monitoring wells. Therefore, groundwater flow and gradient at the site were not estimated for the December 2014 groundwater monitoring event.

7.4. Groundwater Sampling

GeoEngineers purged and sampled monitoring wells in general compliance with standard low-flow sampling methodology. A portable bladder pump equipped with a disposable bladder and disposable tubing was used to purge and sample monitoring wells. Groundwater water quality parameters generally were measured at 3-minute intervals during well purging. Groundwater samples were collected when each water quality parameter had stabilized in conformance with the criteria presented in Appendix A or the maximum purge time had been achieved.

8.0 GROUNDWATER CHEMICAL ANALYTICAL RESULTS

8.1. Groundwater Chemical Analytical Results

8.1.1. General

Groundwater samples from monitoring wells MW-1 through MW-9, B-1, and OW-1 were submitted to TestAmerica for analysis of GRPH, DRPH, ORPH, BTEX, arsenic and mercury. A duplicate sample was collected from well MW-3. Analytical results for these samples are tabulated and compared to regulatory levels in Summary of Chemical Analytical Test Results – Groundwater, Table 5. TestAmerica's laboratory reports are provided in Appendix B.

8.1.2. Water Quality Parameters

Well headspace readings were obtained from monitoring wells using a PID immediately after removing the well caps during groundwater sampling. A headspace reading of less than 1 part per million (ppm) was measured in the site monitoring wells.

Temperature, pH, turbidity, DO, specific conductivity, and ORP were measured in the field during groundwater sampling. Temperatures increased about 4.37 degrees Celsius between upgradient well MW-8 and a downgradient well MW-4 (upgradient and downgradient wells were based on groundwater elevations from prior monitoring events). pH levels ranged from 6.08 in well B-1 to 7.17 at well MW-2. DO concentrations ranged from 0.0 mg/L at MW-3, MW-6, MW-7, MW-8, MW-9, and B-1 to 0.81 mg/L at OW-1. ORP values ranged from 101 millivolts at MW-8, to 352 millivolts at OW-1.

8.1.3. Chemical Analytical Results

Groundwater analytical results for the December 2014 event are summarized by the following:

- GRPH, BTEX and mercury were not detected in groundwater samples collected from site monitoring wells during this event.
- DRPH was detected at a concentration of 0.447 mg/L in the groundwater sample from monitoring well B-1. This concentration is less than the MTCA Method A Cleanup Level of 0.500 mg/L. DRPH was not detected in groundwater samples collected from the other site monitoring wells sampled during this monitoring event.
- ORPH was detected at a concentration of 0.387 mg/L in the groundwater sample from monitoring well MW-4. This concentration is less than the MTCA Method A Cleanup Level of 0.500 mg/L. ORPH was not detected in groundwater samples collected from the other site monitoring wells.
- Arsenic was detected in groundwater samples collected from the following monitoring wells at concentrations exceeding the MTCA Method A cleanup level of 5 micrograms per liter (µg/L):
    - MW-2 (7.1 µg/L);
    - MW-5 (5.2 µg/L);
    - MW-6 (5.4 µg/L);
    - MW-7 (9.3 µg/L);
    - MW-8 (6.5 µg/L); and
    - MW-9 (5.4 µg/L).

Arsenic also was detected in groundwater samples from wells MW-1, MW-3 and MW-4, and the duplicate sample, at concentrations less than the MTCA Method A cleanup level. Arsenic was not detected in groundwater samples collected from wells B-1 and OW-1.

Compared to the December 3, 2013 groundwater monitoring event, arsenic concentrations in groundwater samples decreased for samples collected from wells MW-1, MW-3, MW-7 and MW-8; and increased in samples collected from wells MW-2, MW-4, MW-5, MW-6 and MW-7. Graphs of arsenic concentrations versus groundwater elevation for wells MW-1 through MW-9 are presented in Arsenic versus Groundwater Elevation, Figures 9 through 17. Note that because of possible adjustments to the top of the well casing for monitoring wells MW-5, MW-6 and MW-9 during construction, depth to groundwater is presented instead of groundwater elevations for these wells. DRPH and ORPH concentrations decreased in groundwater samples collected from wells B-1 and MW-3 and increased for MW-4, relative to the December 2013 monitoring event. While field-measured DO measurements were not significantly different from previous sampling events, field-measured ORP values increased in each sampled well relative to previous sampling events.

9.0 CONCLUSIONS AND SUMMARY

During Phase 2 activities, approximately 6,702 tons of material containing COCs was excavated from the site and disposed offsite at the GWRL. Approximately 9,113 tons of stockpiled material from Phase 1 containing COCs also were disposed offsite at the GWRL.

Approximately 76,302 tons of material was excavated from the Phase 2 wood waste excavation area. Of this, approximately 48,052 tons of processed wood waste was delivered to the GWRL and stockpiled for future use as a final cover for the GWRL facility. Approximately 27,711 tons of gravel, cobbles and boulders screened from the wood waste were reused as on-site backfill. Approximately 42 tons of wood debris and 233 tons of garbage were disposed at the GWRL.

Approximately 211 tons of concrete debris was disposed off-site at the Filion Inert Landfill located in Cashmere, Washington, and approximately 53 tons of metal debris was removed for recycling.

Approximately 74,243 tons of common borrow was imported to backfill and regrade the site.

Field screening and confirmation soil sample results indicate soil with COC concentrations less than established site cleanup levels was reached for each remedial excavation with one exception. Two confirmation samples (EX1-2-3 and EX1-3-3) collected from the southeast side of the Water Line Excavation (EX1, EX2 and EX11) exceeded site cleanup levels for TPH. Sample EX1-3-3 also exceeded site cleanup levels for total naphthalenes. The extent of the Water Line Excavation in this area was limited by the property boundary to the south and east.

One confirmation soil sample collected during Phase 1 activities (A2-W38-S-4) contained TPH at a concentration (4,770 mg/kg) exceeding the site-specific MTCA Method B cleanup level. This previous confirmation sample was collected at the Mill Road right-of-way west of EX3, which prevented further remedial excavation at that location.

Groundwater sampling was conducted on December 2 and December 3, 2014 from site monitoring wells after Phase 2 remedial activities were concluded. Petroleum-based COCs were either not detected or detected at concentrations less than MTCA Method A cleanup levels for the December 2014 groundwater monitoring event. In comparison, during October and December 2013 groundwater sampling events, both DRPH and ORPH was detected at concentrations exceeding MTCA Method A cleanup levels in wells B-1 and MW-3. Comparison between the December 2013 and December 2014 groundwater sampling events indicate that Phase 2 remedial activities might have been successful in reducing TPH concentrations at the site.

Samples collected during the December 2014 groundwater monitoring event indicate groundwater exceeds MTCA Method A cleanup level for arsenic near monitoring wells MW-2, MW-5, MW-6, MW-7, MW-8, and MW-9. Groundwater well locations and cleanup level exceedances are presented in Figure 8. The highest detected arsenic concentration was 9.3 µg/L (MW-7). In comparison, groundwater sampling conducted in December 2013 detected arsenic concentrations greater than MTCA Method A cleanup level in monitoring wells MW-2, MW-3, MW-7 and MW-8 with a highest detected concentration level of 17 µg/L (MW-7).

The presence of remaining PCS along the eastern property boundary within the Water Line Excavation in Parcel 200, and remaining PCS near Phase 1 confirmation sample A2-W38-S-4 in Parcel 550, will require a restrictive covenant for those affected parcels until such time remedial excavations can be extended into adjacent properties and remaining contaminated soil can be excavated and properly disposed of offsite. Additionally, site-wide arsenic-contaminated groundwater will require a restrictive covenant.

10.0 REFERENCES

GeoEngineers, Inc., 2013a. "Dewatering Assessment, Cashmere Mill Site Remedial Excavation (Phase 2), Cashmere, Washington." GEI File No. 18593-001-01. July 31.

GeoEngineers, Inc., 2013b. "Former Cashmere Mill Site: Data Gap Assessment, Quality Assurance Project Plan." GEI File No. 18593-001-02. September 5.

GeoEngineers, Inc., 2014. "Data Gap Assessment Report, Former Cashmere Mill Site, Cashmere, Washington." GEI File No. 18593-001-02, May 7.

Maul Foster & Alongi, Inc., 2013. Report to Port of Chelan County, "Site Characterization Report, Former Cashmere Mill Site, Cashmere, Washington." March 20.

Maul Foster & Alongi, Inc., 2014. Report to Port of Chelan County, "Phase 1 Interim Action Report, Former Cashmere Mill Site, Cashmere, Washington," May 6.

U.S. Environmental Protection Agency, 2008. "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review." EPA-540-R-08-01. June.

U.S. Environmental Protection Agency, 2009. "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use." EPA-540-R-08-005. January.

U.S. Environmental Protection Agency, Region 1. 2010a. "Low Stress (Low-Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells." EPA SOP No. GW 01, Revised January 19, 2010.

U.S. Environmental Protection Agency, 2010b. "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review." EPA-540-R-10-011. January 2010.

TABLES

GeoEngineers

Table 1

Summary of Chemical Analytical Results - Confirmation Soil Samples[1]

Former Cashmere Mill Site

Cashmere, Washington

				Area	Water Line (EX1, EX2, EX11)											Area 3 (EX3)					
				Sample ID	EX1-1-2	EX1-2-3	EX1-3-3	EX1-4-3	EX1-5-3	EX2-1-3	EX11-1-6	EX11-2-10	EX11-3-4	EX11-4-3	EX11-5-3.25	EX3-1-4	EX3-2-4	EX3-3-4	EX3-4-4	EX3-5-5	EX3-6-4
				Sample Date	7/16/2014	7/16/2014	7/16/2014	7/16/2014	7/16/2014	7/16/2014	8/28/2014	8/28/2014	8/28/2014	8/28/2014	8/28/2014	7/17/2014	7/17/2014	7/17/2014	7/17/2014	7/17/2014	7/21/2014
				Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Bottom	Bottom	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
				Status	In-Place	In-Place	In-Place	In-Place	In-Place	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																	
NWTPH-HCID[3]	Gasoline-range hydrocarbons		mg/kg	-	**130**	-	-	-	300 U	-	-	-	-	-	-	-	-	-	-	-
	Diesel-range hydrocarbons		mg/kg	-	**7,300**	-	-	-	**6,200**	-	-	-	-	-	-	-	-	-	-	-
	Heavy oil-range hydrocarbons		mg/kg	-	**20,000**	-	-	-	**23,000**	-	-	-	-	-	-	-	-	-	-	-
NWTPH-GX[4]	Gasoline-range hydrocarbons		mg/kg	5.63 U	**201 J**	**665 J**	9.62 U	6.70 U	**17.7**	**13.7**	**40.7**	10.4 U	7.77 U	7.49 U	5.27 U	**32.8**	**20.4**	**7.11**	11.7 U	5.72 U
NWTPH-DX[5]	Diesel-range hydrocarbons		mg/kg	**59.0**	**15,100**	**5,950**	**41.1**	**38.5**	**8,740**	**10.9**	**458**	**22.0 J**	13.1 U	**132 J**	**26.7**	**124**	**10.1**	**20.0**	**101**	10.1 U
	Heavy oil-range hydrocarbons		mg/kg	**265**	**41,200**	**11,800**	**142**	**168**	**33,900**	**34.8**	**1,860**	**84.0 J**	32.8 U	**589**	**174**	**782**	**37.9**	**62.2**	**209**	25.2 U
Calculated Total Petroleum Hydrocarbons[6]		3,400	mg/kg	<330	**56,501**	**18,415**	<193	<213	**42,658**	**59**	**2,359**	<116	<54 U	<729	<206	**939**	**68.4**	**89.3**	<322	<42 U
Metals[7]	Mercury	2	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mercury (TCLP)[8]	0.2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs[9]	1,2,4-Trimethylbenzene		mg/kg	-	-	**8.44**	-	-	**0.205 J**	0.118 U	**0.830**	**0.0321 J**	0.155 U	**0.0764 J**	-	-	-	-	0.234 U	-
	1,3,5-Trimethylbenzene		mg/kg	-	-	**3.19**	-	-	**0.129 J**	0.118 U	**0.259**	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	4-Methyl-2-Pentanone		mg/kg	-	-	**0.805 J**	-	-	3.04 U	1.18 U	1.57 U	2.07 U	1.55 U	1.50 U	-	-	-	-	2.34 U	-
	Acetone		mg/kg	-	-	**0.359 J**	-	-	9.12 U	**1.06 J**	**0.888 J**	**0.961 J**	**0.414 J**	**0.502 J**	-	-	-	-	**1.84 J**	-
	Benzene	0.03	mg/kg	-	-	0.0278 U	-	-	0.0295 U[13]	0.0177 U	0.0236 U	0.0201 U[13]	0.0233 U	0.0225 U	-	-	-	-	0.0227 U[13]	-
	Bromoform (Tribromomethane)		mg/kg	-	-	0.185 U	-	-	0.304 U	0.118 U	0.157 U	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Chlorobenzene		mg/kg	-	-	**0.469**	-	-	0.304 U	0.118 U	0.157 U	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Dibromochloromethane		mg/kg	-	-	0.185 U	-	-	0.304 U	0.118 U	0.157 U	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Ethylbenzene	6	mg/kg	-	-	**0.0612 J**	-	-	0.304 U	0.118 U	0.157 U	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Isopropylbenzene (Cumene)		mg/kg	-	-	**0.359**	-	-	0.304 U	**0.0349 J**	**0.0630 J**	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Methylene Chloride[10]	0.02	mg/kg	-	-	0.00964 U	-	-	0.0158 U	0.00615 U	0.00818 U	0.0108 U	0.00808 U	0.00779 U	-	-	-	-	0.0121 U	-
	Methyl t-butyl ether	0.1	mg/kg	-	-	0.0927 U	-	-	0.00973 U[11]	0.0591 U	0.0787 U	0.00663 U[11]	0.0777 U	0.0749 U	-	-	-	-	0.00748 U[11]	-
	Naphthalene	5	mg/kg	-	-	**2.64**	-	-	**0.125 J**	0.236 U	**0.331**	0.415 U	0.311 U	0.300 U	-	-	-	-	**0.159 J**	-
	n-Butylbenzene		mg/kg	-	-	**1.51**	-	-	0.304 U	0.118 U	**0.153 J**	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	n-Propylbenzene		mg/kg	-	-	0.185 U	-	-	0.304 U	0.118 U	**0.0992 J**	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	p-Isopropyltoluene		mg/kg	-	-	**3.29**	-	-	0.304 U	0.118 U	**0.172**	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Sec-Butylbenzene		mg/kg	-	-	**1.37**	-	-	0.304 U	0.118 U	**0.0944 J**	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Toluene	7	mg/kg	-	-	**0.130 J**	-	-	0.304 U	0.118 U	0.157 U	0.207 U	0.155 U	0.150 U	-	-	-	-	0.234 U	-
	Xylene, m-,p-	9	mg/kg	-	-	**0.711 J**	-	-	1.22 U	0.473 U	**0.124 J**	**0.0591 J**	0.621 U	**0.0315 J**	-	-	-	-	0.935 U	-
	Xylene, o-	9	mg/kg	-	-	**0.182 J**	-	-	0.608 U	0.236 U	0.315 U	0.415 U	0.311 U	0.300 U	-	-	-	-	0.467 U	-
	Total Xylenes	9	mg/kg	-	-	0.893 J	-	-	1.828 U	0.709 U	0.439 U	0.4741 U	0.932 U	0.3315 U	-	-	-	-	1.402 U	-

			Area	Water Line (EX1, EX2, EX11)										Area 3 (EX3)					
			Sample ID	EX1-1-2	EX1-2-3	EX1-3-3	EX1-4-3	EX1-5-3	EX2-1-3	EX11-1-6	EX11-2-10	EX11-3-4	EX11-4-3	EX11-5-3.25	EX3-1-4	EX3-2-4	EX3-3-4	EX3-4-4	EX3-5-5	EX3-6-4
			Sample Date	7/16/2014	7/16/2014	7/16/2014	7/16/2014	7/16/2014	7/16/2014	8/28/2014	8/28/2014	8/28/2014	8/28/2014	8/28/2014	7/17/2014	7/17/2014	7/17/2014	7/17/2014	7/17/2014	7/21/2014
			Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Bottom	Bottom	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
			Status	In-Place	In-Place	In-Place	In-Place	In-Place	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																	
SVOCs[12]	1-Methylnaphthalene		mg/kg	-	-	**6.6 J**	-	-	1.9 U	-	-	-	-	**0.047**	-	-	-	-	0.46 U	-
	2-Methylnaphthalene		mg/kg	-	-	**8.5 J**	-	-	1.9 U	-	-	-	-	**0.065**	-	-	-	-	0.46 U	-
	Anthracene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.027 U	-	-	-	-	0.46 U	-
	Benzo(a)anthracene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.027 U	-	-	-	-	0.46 U	-
	Benzo(a)pyrene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.04 U	-	-	-	-	0.46 U	-
	Benzo(b)fluoranthene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.027 U	-	-	-	-	0.46 U	-
	Benzo(ghi)perylene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.033 UJ	-	-	-	-	0.46 U	-
	Chrysene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.033 U	-	-	-	-	0.46 U	-
	Fluorene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.027 U	-	-	-	-	0.46 U	-
	Indeno(1,2,3-cd)pyrene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.053 UJ	-	-	-	-	0.46 U	-
	Bis(2-Ethylhexyl) Phthalate		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	0.800 U	-	-	-	-	0.46 U	-
	Fluoranthene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	**0.054**	-	-	-	-	0.46 U	-
	Naphthalene	5	mg/kg	-	-	**3.0 J**	-	-	1.9 U	-	-	-	-	**0.043**	-	-	-	-	0.46 U	-
	Phenanthrene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	**0.047**	-	-	-	-	0.46 U	-
	Pyrene		mg/kg	-	-	1.5 U	-	-	1.9 U	-	-	-	-	**0.058**	-	-	-	-	0.46 U	-
Total Napthalenes[13]		5	mg/kg			**18.1 J**			**5.7 U[15]**					**0.155**					1.38 U	
cPAH	cPAH TEQ[14]	0.1	mg/kg	-	-	0	-	-	0	-	-	-	-	0	-	-	-	-	0	-

			Area	Storm Line (EX4)				North Hg Area (Phase I) (EX5)						South PCS Area (Phase 2) (EX6)					
			Sample ID	EX4-1-6	EX4-2-6	EX4-3-6	EX4-4-6	EX5-1-8	EX5-2-8	EX5-3-8	EX5-4-8	EX5-7-8	EX5-8-8	EX6-1-3	EX6-2-3	EX6-3-3	EX6-4-3	EX6-5-3	EX6-6-3
			Sample Date	7/21/2014	7/21/2014	7/21/2014	7/21/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/23/2014	7/23/2014	7/23/2014	7/23/2014	7/23/2014	7/23/2014
			Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
			Status	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	Removed	In-Place	In-Place	In-Place	In-Place	Removed
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																
NWTPH-HCID[3]	Gasoline-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Diesel-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Heavy oil-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NWTPH-GX[4]	Gasoline-range hydrocarbons		mg/kg	**13.5**	**4.98**	**10.0**	8.59 U	-	-	-	**164 J**	**5.43**	**6.29**	**6.21**	7.56 U	5.70 U	**11.0**	4.96 U	7.21 U
NWTPH-DX[5]	Diesel-range hydrocarbons		mg/kg	12.0 U	9.94 U	10.3 U	11.3 U	-	-	-	**289**	10.5 U	7.63 U	**31.6**	**419 J**	**65.7**	**68.0**	10.9 U	**796**
	Heavy oil-range hydrocarbons		mg/kg	29.9 U	24.9 U	25.7 U	**36.7**	-	-	-	**203**	26.3 U	19.1 U	**55.7**	**1,480 J**	**207**	**131**	27.1 U	**3,250**
Calculated Total Petroleum Hydrocarbons[6]		3,400	mg/kg	<56	<40	<46	<57	-	-	-	**656**	<43	<34	**93.5**	<1907	<279	**210**	<43 U	**<4054**
Metals[7]	Mercury	2	mg/kg	-	-	-	-	0.0472 U	0.0446 U	0.0446 U	0.0431 U	-	-	-	-	-	-	-	-
	Mercury (TCLP)[8]	0.2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs[9]	1,2,4-Trimethylbenzene		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	1,3,5-Trimethylbenzene		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	4-Methyl-2-Pentanone		mg/kg	-	-	-	1.72 U	-	-	-	-	-	-	-	-	-	-	-	1.44 U
	Acetone		mg/kg	-	-	-	**0.423 J**	-	-	-	-	-	-	-	-	-	-	-	**2.32 J**
	Benzene	0.03	mg/kg	-	-	-	0.0258 U	-	-	-	0.0158 U	-	-	-	-	-	-	-	0.0216 U
	Bromoform (Tribromomethane)		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	Chlorobenzene		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	Dibromochloromethane		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	Ethylbenzene	6	mg/kg	-	-	-	0.172 U	-	-	-	0.105 U	-	-	-	-	-	-	-	0.144 U
	Isopropylbenzene (Cumene)		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	Methylene Chloride[10]	0.02	mg/kg	-	-	-	0.00894 U	-	-	-	-	-	-	-	-	-	-	-	**0.0563 J**
	Methyl t-butyl ether	0.1	mg/kg	-	-	-	0.0859 U	-	-	-	-	-	-	-	-	-	-	-	0.0721 U
	Naphthalene	5	mg/kg	-	-	-	0.344 U	-	-	-	-	-	-	-	-	-	-	-	0.289 U
	n-Butylbenzene		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	n-Propylbenzene		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	p-Isopropyltoluene		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	Sec-Butylbenzene		mg/kg	-	-	-	0.172 U	-	-	-	-	-	-	-	-	-	-	-	0.144 U
	Toluene	7	mg/kg	-	-	-	0.172 U	-	-	-	0.105 U	-	-	-	-	-	-	-	**0.0606 J**
	Xylene, m-,p-	9	mg/kg	-	-	-	0.687 U	-	-	-	0.421 U	-	-	-	-	-	-	-	0.577 U
	Xylene, o-	9	mg/kg	-	-	-	0.344 U	-	-	-	0.211 U	-	-	-	-	-	-	-	0.289 U
	Total Xylenes	9	mg/kg	-	-	-	1.031 U	-	-	-	0.632 U	-	-	-	-	-	-	-	0.866 U

			Area	Storm Line (EX4)				North Hg Area (Phase I) (EX5)						South PCS Area (Phase 2) (EX6)					
			Sample ID	EX4-1-6	EX4-2-6	EX4-3-6	EX4-4-6	EX5-1-8	EX5-2-8	EX5-3-8	EX5-4-8	EX5-7-8	EX5-8-8	EX6-1-3	EX6-2-3	EX6-3-3	EX6-4-3	EX6-5-3	EX6-6-3
			Sample Date	7/21/2014	7/21/2014	7/21/2014	7/21/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/23/2014	7/23/2014	7/23/2014	7/23/2014	7/23/2014	7/23/2014
			Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
			Status	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	Removed	In-Place	In-Place	In-Place	In-Place	Removed
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																
SVOCs[12]	1-Methylnaphthalene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.422**	-	-	-	-	-	-	-	0.41 U
	2-Methylnaphthalene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.178**	-	-	-	-	-	-	-	0.41 U
	Anthracene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0225**	-	-	-	-	-	-	-	0.41 U
	Benzo(a)anthracene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0116**	-	-	-	-	-	-	-	0.41 U
	Benzo(a)pyrene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0194**	-	-	-	-	-	-	-	0.41 U
	Benzo(b)fluoranthene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0255**	-	-	-	-	-	-	-	0.41 U
	Benzo(ghi)perylene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0194**	-	-	-	-	-	-	-	0.41 U
	Chrysene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0194**	-	-	-	-	-	-	-	0.41 U
	Fluorene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0341**	-	-	-	-	-	-	-	0.41 U
	Indeno(1,2,3-cd)pyrene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0147**	-	-	-	-	-	-	-	0.41 U
	Bis(2-Ethylhexyl) Phthalate		mg/kg	-	-	-	0.41 U	-	-	-	-	-	-	-	-	-	-	-	0.41 U
	Fluoranthene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0317**	-	-	-	-	-	-	-	0.41 U
	Naphthalene	5	mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.201**	-	-	-	-	-	-	-	0.41 U
	Phenanthrene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0728**	-	-	-	-	-	-	-	0.41 U
	Pyrene		mg/kg	-	-	-	0.41 U	0.0106 U	0.0105 U	0.0108 U	**0.0286**	-	-	-	-	-	-	-	0.41 U
Total Napthalenes[13]		5	mg/kg				1.23 U	0.0318U	0.0315 U	0.0324 U	**0.801**								1.23 U
cPAH	cPAH TEQ[14]	0.1	mg/kg	-	-	-	0	0	0	0	**0.0258**	-	-	-	-	-	-	-	0

				Area	South PCS Area (Phase 2)		North Hg Area (Phase II) (EX7)													
				Sample ID	EX6-9-3	EX6-10-3	EX7-1-2	EX7-2-2	EX7-3-2	EX7-4-2	EX7-6-2	EX7-7-3	EX7-8-2	EX7-9-3	EX7-10-2	EX7-11-3	EX7-12-2	EX7-13-3	EX7-14-2	EX7-15-3
				Sample Date	7/31/2014	7/31/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	8/7/2014	8/7/2014
				Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
				Status	In-Place	In-Place	Removed	Removed	Removed	Removed	Removed	Removed	Removed	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																	
NWTPH-HCID[3]	Gasoline-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Diesel-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Heavy oil-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NWTPH-GX[4]	Gasoline-range hydrocarbons		mg/kg	6.61 U	5.61 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NWTPH-DX[5]	Diesel-range hydrocarbons		mg/kg	**33.8**	**269**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Heavy oil-range hydrocarbons		mg/kg	**108**	**1,720**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calculated Total Petroleum Hydrocarbons[6]		3,400	mg/kg	<149	<1,995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals[7]	Mercury	2	mg/kg	-	-	**6.500**	**1.610**	**1.890**	**1.220**	**0.91**	**29**	**0.87**	**3.7**	**1.2**	0.086 U	**0.60**	**1.3**	**0.567**	**1.500**
	Mercury (TCLP)[8]	0.2	mg/L	-	-	-	-	-	.	-	-	-	-	-	-	-	-	-	-
VOCs[9]	1,2,4-Trimethylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3,5-Trimethylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4-Methyl-2-Pentanone		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzene	0.03	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromoform (Tribromomethane)		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chlorobenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromochloromethane		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethylbenzene	6	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Isopropylbenzene (Cumene)		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Methylene Chloride[10]	0.02	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Methyl t-butyl ether	0.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	5	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Butylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Propylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Isopropyltoluene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sec-Butylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Toluene	7	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Xylene, m-,p-	9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Xylene, o-	9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Xylenes	9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			Area	South PCS Area (Phase 2)		North Hg Area (Phase II) (EX7)													
			Sample ID	EX6-9-3	EX6-10-3	EX7-1-2	EX7-2-2	EX7-3-2	EX7-4-2	EX7-6-2	EX7-7-3	EX7-8-2	EX7-9-3	EX7-10-2	EX7-11-3	EX7-12-2	EX7-13-3	EX7-14-2	EX7-15-3
			Sample Date	7/31/2014	7/31/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	7/31/2014	8/7/2014	8/7/2014
			Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
			Status	In-Place	In-Place	Removed	Removed	Removed	Removed	Removed	Removed	Removed	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																
SVOCs[12]	1-Methylnaphthalene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-Methylnaphthalene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Anthracene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(a)anthracene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(a)pyrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(ghi)perylene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chrysene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fluorene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Indeno(1,2,3-cd)pyrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bis(2-Ethylhexyl) Phthalate		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fluoranthene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	5	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Phenanthrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Pyrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Napthalenes[13]		5	mg/kg																
cPAH	cPAH TEQ[14]	0.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			Area	North Hg Area (Phase II) (EX7)								Middle Hg Area (EX8)					West Hg Area (EX9)				
			Sample ID	EX7-16-2	EX7-17-3	EX7-18-3.5	EX7-19-3	EX7-20-2	EX7-SP-1	EX7-SP-2	EX7-SP-3	EX8-1-5	EX8-2-5	EX8-3-5	EX8-4-5	EX8-6-4	EX9-1-4	EX9-2-4	EX9-3-4	EX9-4-4	EX9-5-4
			Sample Date	8/7/2014	8/7/2014	8/27/2014	8/27/2014	8/27/2014	8/27/2014	8/27/2014	8/27/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/31/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014
			Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Stockpile	Stockpile	Stockpile	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Bottom
			Status	Removed	Removed	In-Place	In-Place	In-Place	Removed	Removed	Removed	In-Place	In-Place	In-Place	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																		
NWTPH-HCID[3]	Gasoline-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Diesel-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Heavy oil-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NWTPH-GX[4]	Gasoline-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	5.17 U	6.16 U	**10.8**	4.53 U	10.0 U
NWTPH-DX[5]	Diesel-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	10.7 U	11.5 U	10.9 U	10.8 U	**42.5**
	Heavy oil-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	26.8 U	28.7 U	27.2 U	27.0 U	**121**
Calculated Total Petroleum Hydrocarbons[6]		3,400	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	<43	<47	<49	<43	<174
Metals[7]	Mercury	2	mg/kg	**3.380**	**29.300**	**0.804 J**	**1.520**	**0.351**	**1.930**	**1.170**	**0.779**	0.0431 U	0.0481 U	0.0417 U	**2.510**	**0.55**	0.0472 U	0.0455 U	0.0417 U	0.0403 U	**0.120**
	Mercury (TCLP)[8]	0.2	mg/L	-	0.000500 U				0.000500 U	0.000500 U	0.000500 U	-	-	-	-	-	-	-	-	-	-
VOCs[9]	1,2,4-Trimethylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3,5-Trimethylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4-Methyl-2-Pentanone		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzene	0.03	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromoform (Tribromomethane)		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chlorobenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromochloromethane		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethylbenzene	6	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Isopropylbenzene (Cumene)		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Methylene Chloride[10]	0.02	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Methyl t-butyl ether	0.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	5	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Butylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Propylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Isopropyltoluene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sec-Butylbenzene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Toluene	7	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Xylene, m-,p-	9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Xylene, o-	9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Xylenes	9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			Area	North Hg Area (Phase II) (EX7)								Middle Hg Area (EX8)					West Hg Area (EX9)				
			Sample ID	EX7-16-2	EX7-17-3	EX7-18-3.5	EX7-19-3	EX7-20-2	EX7-SP-1	EX7-SP-2	EX7-SP-3	EX8-1-5	EX8-2-5	EX8-3-5	EX8-4-5	EX8-6-4	EX9-1-4	EX9-2-4	EX9-3-4	EX9-4-4	EX9-5-4
			Sample Date	8/7/2014	8/7/2014	8/27/2014	8/27/2014	8/27/2014	8/27/2014	8/27/2014	8/27/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/31/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014
			Type	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Stockpile	Stockpile	Stockpile	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Bottom
			Status	Removed	Removed	In-Place	In-Place	In-Place	Removed	Removed	Removed	In-Place	In-Place	In-Place	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																		
SVOCs[12]	1-Methylnaphthalene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-Methylnaphthalene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Anthracene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(a)anthracene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(a)pyrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(ghi)perylene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chrysene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fluorene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Indeno(1,2,3-cd)pyrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bis(2-Ethylhexyl) Phthalate		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fluoranthene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	5	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Phenanthrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Pyrene		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Napthalenes[13]		5	mg/kg																		
cPAH	cPAH TEQ[14]	0.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			Area	South Hg Area (EX10)						Area 4 (EX12)						Area 4 (EX12)				
			Sample ID	EX10-1-2	EX10-2-6	EX10-3-6	EX10-4-6	EX10-5-6	EX10-6-6	EX12-1-2.5	EX12-2-3	EX12-3-2	EX12-4-3	EX12-5-3	EX12-6-8	EX12-7-6	EX12-8-3	EX12-9-3	EX12-10-7	EX12-11-3
			Sample Date	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/12/2014	9/12/2014	9/12/2014	9/12/2014
			Type	Bottom	Sidewall	Sidewall	Sidewall	Sidewall	Bottom	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Bottom	Bottom	Sidewall	Sidewall	Sidewall	Sidewall
			Status	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	Removed	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																	
NWTPH-HCID[3]	Gasoline-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Diesel-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Heavy oil-range hydrocarbons		mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NWTPH-GX[4]	Gasoline-range hydrocarbons		mg/kg	-	-	-	-	-	-	**76.2**	9.71 U	**7.45**	6.24 U	9.73 U	**11.6**	5.36 U	5.58 U	5.17 U	6.56 U	6.37 U
NWTPH-DX[5]	Diesel-range hydrocarbons		mg/kg	-	-	-	-	-	-	**914**	**718 J**	**363 J**	**12.3**	**215 J**	**178 J**	**61.7**	10.3 U	9.73 U	**109 J**	**112 J**
	Heavy oil-range hydrocarbons		mg/kg	-	-	-	-	-	-	**2,800**	**3,430**	**1,420**	**38.1**	**1,390**	**984**	**213**	25.8 U	24.3 U	**657**	**923**
Calculated Total Petroleum Hydrocarbons[6]		3,400	mg/kg	-	-	-	-	-	-	**3,790**	**<4,158**	**1,790**	<57	**<1,615**	**1,174**	<281	<42 U	<40 U	<773	<1,042
Metals[7]	Mercury	2	mg/kg	0.0397 U	0.0385 U	0.0472 U	0.0446 U	0.0338 U	0.0463 U	-	-	-	-	-	-	-	-	-	-	-
	Mercury (TCLP)[8]	0.2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs[9]	1,2,4-Trimethylbenzene		mg/kg	-	-	-	-	-	-	**0.0592 J**	0.194 U	**0.0334 J**	0.125 U	**0.0856 J**	**0.125**	0.107 U	-	-	-	-
	1,3,5-Trimethylbenzene		mg/kg	-	-	-	-	-	-	**0.0367 J**	0.194 U	0.0982 U	0.125 U	**0.0447 J**	**0.0433 J**	0.107 U	-	-	-	-
	4-Methyl-2-Pentanone		mg/kg	-	-	-	-	-	-	1.29 U	1.94 U	0.982 U	1.25 U	1.95 U	1.12 U	1.07 U	-	-	-	-
	Acetone		mg/kg	-	-	-	-	-	-	3.86 U	5.83 U	2.95 U	3.74 U	5.84 U	3.37 U	3.21 U	-	-	-	-
	Benzene	0.03	mg/kg	-	-	-	-	-	-	0.0193 U	0.0291 U	0.0147 U	0.0187 U	0.0292 U	0.0169 U	0.0161 U	-	-	-	-
	Bromoform (Tribromomethane)		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	Chlorobenzene		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	Dibromochloromethane		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	**0.0137 J**	**0.0274 J**	**0.0243 J**	**0.0157 J**	**0.0129 J**	-	-	-	-
	Ethylbenzene	6	mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	Isopropylbenzene (Cumene)		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	Methylene Chloride[10]	0.02	mg/kg	-	-	-	-	-	-	0.00669 U	0.0101 U	0.00511 U	0.00649 U	0.0101 U	0.00585 U	0.00557 U	-	-	-	-
	Methyl t-butyl ether	0.1	mg/kg	-	-	-	-	-	-	0.0644 U	0.0971 U	0.0491 U	0.0624 U	0.0973 U	0.0562 U	0.0536 U	-	-	-	-
	Naphthalene	5	mg/kg	-	-	-	-	-	-	0.257 U	0.388 U	**0.0373 J**	0.250 U	0.389 U	**0.0292 J**	0.214 U	-	-	-	-
	n-Butylbenzene		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	n-Propylbenzene		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	p-Isopropyltoluene		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	Sec-Butylbenzene		mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	Toluene	7	mg/kg	-	-	-	-	-	-	0.129 U	0.194 U	0.0982 U	0.125 U	0.195 U	0.112 U	0.107 U	-	-	-	-
	Xylene, m-,p-	9	mg/kg	-	-	-	-	-	-	0.515 U	0.777 U	0.393 U	0.499 U	0.778 U	**0.0410 J**	0.429 U	-	-	-	-
	Xylene, o-	9	mg/kg	-	-	-	-	-	-	0.257 U	0.388 U	0.196 U	0.250 U	0.389 U	0.225 U	0.214 U	-	-	-	-
	Total Xylenes	9	mg/kg	-	-	-	-	-	-	0.772 U	1.165 U	0.589 U	0.749 U	1.167 U	0.266 U	0.643 U	-	-	-	-

			Area	South Hg Area (EX10)						Area 4 (EX12)						Area 4 (EX12)				
			Sample ID	EX10-1-2	EX10-2-6	EX10-3-6	EX10-4-6	EX10-5-6	EX10-6-6	EX12-1-2.5	EX12-2-3	EX12-3-2	EX12-4-3	EX12-5-3	EX12-6-8	EX12-7-6	EX12-8-3	EX12-9-3	EX12-10-7	EX12-11-3
			Sample Date	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/12/2014	9/12/2014	9/12/2014	9/12/2014
			Type	Bottom	Sidewall	Sidewall	Sidewall	Sidewall	Bottom	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Bottom	Bottom	Sidewall	Sidewall	Sidewall	Sidewall
			Status	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	Removed	Removed	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place	In-Place
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**																	
SVOCs[12]	1-Methylnaphthalene		mg/kg	-	-	-	-	-	-	-	-	-	0.037 U	-	-	-	-	-	-	-
	2-Methylnaphthalene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Anthracene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Benzo(a)anthracene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Benzo(a)pyrene		mg/kg	-	-	-	-	-	-	-	-	-	0.037 U	-	-	-	-	-	-	-
	Benzo(b)fluoranthene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Benzo(ghi)perylene		mg/kg	-	-	-	-	-	-	-	-	-	0.031 U	-	-	-	-	-	-	-
	Chrysene		mg/kg	-	-	-	-	-	-	-	-	-	0.031 U	-	-	-	-	-	-	-
	Fluorene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Indeno(1,2,3-cd)pyrene		mg/kg	-	-	-	-	-	-	-	-	-	0.049 U	-	-	-	-	-	-	-
	Bis(2-Ethylhexyl) Phthalate		mg/kg	-	-	-	-	-	-	-	-	-	0.730 U	-	-	-	-	-	-	-
	Fluoranthene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Naphthalene	5	mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Phenanthrene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
	Pyrene		mg/kg	-	-	-	-	-	-	-	-	-	0.024 U	-	-	-	-	-	-	-
Total Napthalenes[13]		5	mg/kg										0.085 U							
cPAH	cPAH TEQ[14]	0.1	mg/kg	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-

			Area	South PCS Area (Phase 1) (EX13)						
			Sample ID	EX13-1-3	EX13-2-3	EX13-3-3	EX13-4-3	EX13-SP1	EX13-SP2	EX13-SP3
			Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
			Type	Sidewall	Sidewall	Sidewall	Sidewall	Stockpile	Stockpile	Stockpile
			Status	In-Place	In-Place	In-Place	In-Place	Removed	Removed	Removed
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**							
NWTPH-HCID[3]	Gasoline-range hydrocarbons		mg/kg	-	-	-	-	-	-	-
	Diesel-range hydrocarbons		mg/kg	-	-	-	-	-	-	-
	Heavy oil-range hydrocarbons		mg/kg	-	-	-	-	-	-	-
NWTPH-GX[4]	Gasoline-range hydrocarbons		mg/kg	5.35 U	4.61 U	4.82 U	5.85 U	5.43 U	**7.38**	**17.2**
NWTPH-DX[5]	Diesel-range hydrocarbons		mg/kg	**158 J**	**85.3 J**	**12.0**	**267 J**	**140 J**	**659**	**623**
	Heavy oil-range hydrocarbons		mg/kg	**631**	**296**	26.1 U	**626**	**565**	**751**	**636**
Calculated Total Petroleum Hydrocarbons[6]		3,400	mg/kg	<795	<386	<43	<899	<711	**1417**	**1276**
Metals[7]	Mercury	2	mg/kg	-	-	-	-	-	-	-
	Mercury (TCLP)[8]	0.2	mg/L	-	-	-	-	-	-	-
VOCs[9]	1,2,4-Trimethylbenzene		mg/kg	-	0.0922 U	-	-	-	-	-
	1,3,5-Trimethylbenzene		mg/kg	-	0.0922 U	-	-	-	-	-
	4-Methyl-2-Pentanone		mg/kg	-	0.922 U	-	-	-	-	-
	Acetone		mg/kg	-	2.76 U	-	-	-	-	-
	Benzene	0.03	mg/kg	-	0.0138 U	-	-	-	-	-
	Bromoform (Tribromomethane)		mg/kg	-	**0.0184 J**	-	-	-	-	-
	Chlorobenzene		mg/kg	-	0.0922 U	-	-	-	-	-
	Dibromochloromethane		mg/kg	-	0.0922 U	-	-	-	-	-
	Ethylbenzene	6	mg/kg	-	0.0922 U	-	-	-	-	-
	Isopropylbenzene (Cumene)		mg/kg	-	0.0922 U	-	-	-	-	-
	Methylene Chloride[10]	0.02	mg/kg	-	0.00479 U	-	-	-	-	-
	Methyl t-butyl ether	0.1	mg/kg	-	0.0461 U	-	-	-	-	-
	Naphthalene	5	mg/kg	-	0.184 U	-	-	-	-	-
	n-Butylbenzene		mg/kg	-	0.0922 U	-	-	-	-	-
	n-Propylbenzene		mg/kg	-	0.0922 U	-	-	-	-	-
	p-Isopropyltoluene		mg/kg	-	0.0922 U	-	-	-	-	-
	Sec-Butylbenzene		mg/kg	-	0.0922 U	-	-	-	-	-
	Toluene	7	mg/kg	-	0.0922 U	-	-	-	-	-
	Xylene, m-,p-	9	mg/kg	-	0.369 U	-	-	-	-	-
	Xylene, o-	9	mg/kg	-	0.184 U	-	-	-	-	-
	Total Xylenes	9	mg/kg	-	0.553 U	-	-	-	-	-

				Area	South PCS Area (Phase 1) (EX13)						
				Sample ID	EX13-1-3	EX13-2-3	EX13-3-3	EX13-4-3	EX13-SP1	EX13-SP2	EX13-SP3
				Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
				Type	Sidewall	Sidewall	Sidewall	Sidewall	Stockpile	Stockpile	Stockpile
				Status	In-Place	In-Place	In-Place	In-Place	Removed	Removed	Removed
Method	**Analyte**	**MTCA Soil CUL[2] (mg/kg)**	**Units**								
SVOCs[12]	1-Methylnaphthalene		mg/kg	-	0.032 U	-	-	-	-	-
	2-Methylnaphthalene		mg/kg	-	0.021 U	-	-	-	-	-
	Anthracene		mg/kg	-	0.021 U	-	-	-	-	-
	Benzo(a)anthracene		mg/kg	-	0.021 U	-	-	-	-	-
	Benzo(a)pyrene		mg/kg	-	0.032 U	-	-	-	-	-
	Benzo(b)fluoranthene		mg/kg	-	0.021 U	-	-	-	-	-
	Benzo(ghi)perylene		mg/kg	-	0.027 U	-	-	-	-	-
	Chrysene		mg/kg	-	0.027 U	-	-	-	-	-
	Fluorene		mg/kg	-	0.043 U	-	-	-	-	-
	Indeno(1,2,3-cd)pyrene		mg/kg	-	-	-	-	-	-	-
	Bis(2-Ethylhexyl) Phthalate		mg/kg	-	**0.740**	-	-	-	-	-
	Fluoranthene		mg/kg	-	0.021 U	-	-	-	-	-
	Naphthalene	5	mg/kg	-	0.021 U	-	-	-	-	-
	Phenanthrene		mg/kg	-	0.021 U	-	-	-	-	-
	Pyrene		mg/kg	-	**0.039**	-	-	-	-	-
Total Napthalenes[13]		5	mg/kg		0.074 U					
cPAH	cPAH TEQ[14]	0.1	mg/kg	-	0	-	-	-	-	-

Notes:

[1]Chemical analyses conducted by TestAmerica Laboratories, Inc. located in Spokane Valley, Washington.

[2]Washington State, Model Toxics Control Act (MTCA) Method A cleanup levels. Method B is used for total petroleum hydrocarbons (TPH).

[3]Hydrocarbon Identification using Method NWTPH-HCID

[4]Gasoline-range hydrocarbons were analyzed using Method NWTPH-Gx.

[5]Diesel-range hydrocarbons and heavy oil-range hydrocarbons were analyzed using Method NWTPH-Dx.

[6]MTCA Method B cleanup levels were used for Calculated Total Petroleum Hydrocarbons (TPH). The Calculated TPH equals the sum of detection(s) plus reporting limits for non-detected analytes.

[7]Metals were analyzed using EPA 6010/7000 Series Methods.

[8]Toxicity Characteristic Leaching Procedure (TCLP) were analyzed by Method EPA7471. Maximum allowable concentration of contaminant for toxicity characteristic (EPA D-List).

[9]Volatile organic compounds (VOCs) were analyzed using EPA 8260C Method. Only VOCs that were detected in one or more samples are listed in table. Refer to analytical report for the full list of VOCs.

[10]The methylene chloride results detected at concentrations less than the reporting limit are reported at the method detection limit.

[11]Non-detect value reported at the Method Detection Limit for benzene and MTBE.

[12]Semi-volatile organic compounds (SVOCs) were analyzed using 8270D Method. Only SVOCs that were detected in one or more samples are listed in table. Refer to analytical report for the full list or SVOCs.

[13]Naphthalenes are a total value for naphthalene, 1-methylnaphthalene and 2 methylnaphthalene. Total naphthalenes equals the sum of detection(s) plus reporting limits for non-detected analytes.

[14]Carcinogenic PAH (cPAH) toxic equivalency (TEQ) calculated using toxicity equivalency factors (TEF) from MTCA Table 708-2, based on methodology described in MTCA Cleanup Regulation WAC 173-340-708.

[15]Method detection limit for analyte(s) is greater than the applicable MTCA Method A cleanup level.

U indicates analyte not detectd at a concentration greater than listed reporting limit, or method detection limit where indicated.

J indicates result is qualified as estimated. Refer to applicable Data Validation Report in Appendix B for details.

UJ indicates analyte was not detected at a concentration greater than the sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation.

Bolding indicates the detected concentration of an analyte was greater than the method reporting limit, or method detection limit where indicated.

Red bolding and outline indicates the detected concentration of an analyte was greater than the cleanup level.

mg/kg = milligrams per kilogram; mg/L = milligrams per liter; TPH = total petroleum hydrocarbons; "-" = not tested

Table 2

Summary of Chemical Analytical Results - Infiltration Pond Water Sample[1]

Former Cashmere Mill Site

Cashmere, Washington

			Sample ID	INFILTRATION POND 8/28/14
			Sample Date	8/28/2014
			Matrix	Water
Method	Analyte	MTCA Method A GW CUL[2] (mg/L)	Units	
Metals[3]	Arsenic	0.005	mg/L	**0.0057**
	Mercury	0.002	mg/L	0.0002 U

Notes:

[1]Chemical analyses conducted by TestAmerica Laboratories, Inc. located in Spokane Valley, Washington.

[2]Washington State, Model Toxics Control Act (MTCA) Method A cleanup levels for groundwater.

[3]Metals analyzed using EPA 200 Series Methods.

Red bolding and outline indicates the detected concentration of an analyte was greater than the cleanup level.

U indicates analyte not detected at a concentration greater than listed reporting limit.

mg/L = milligrams per liter

Table 3

Summary of Chemical Analytical Results - Cashmere Imported Fill[1]

Former Cashmere Mill Site
Cashmere, Washington

				Location	Eastside[2]		Westside[2]		Northside[2]	Southside[2]	WM-1	WM-2	WM-3	WM-4	WM-5	WM-6	WM-7
				Sample ID	EASTSIDE	EASTSIDE	WESTSIDE	WESTSIDE	NORTHSIDE	SOUTHSIDE	WM-1	WM-2	WM-3	WM-4	WM-5	WM-6	WM-7
				Sample Date	7/11/2014	7/31/2014	7/11/2014	7/31/2014	7/31/2014	7/31/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014
Method	**Analyte**	**MTCA Soil CUL[3]**	**Units**														
Metals[4]	Arsenic	20	mg/kg		**3.76**	**3.36**	**3.58**	**3.92**	**4.19**	**3.22**	**3.2**	**1.7**	**2.5**	**2.1**	**3.0**	**5.3**	**2.2**
	Chromium	2,000	mg/kg		**12.4**	**13.4**	**12.3**	**14.8**	**15.1**	**14.1**	**8.4**	**8.8**	**14.4**	**11.6**	**16.8**	**12.6**	**9.5**
	Copper	NE	mg/kg		**16.1**	**17.9**	**24.2**	**19.1**	**19.1**	**18.2**	**9.0**	**10.1**	**13.0**	**12.0**	**15.8**	**11.9**	**10.4**
	Lead	250	mg/kg		**4.17**	**3.07**	**4.04**	**3.06**	**3.15**	**3.98**	**4.3**	**3.5**	**5.7**	**4.0**	**5.9**	**6.4**	**3.7**
Pesticides[5]	4,4'-DDD	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	4,4'-DDE	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	4,4'-DDT	3	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Aldrin	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	Alpha-BHC	NE	mg/kg		0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	alpha-Chlordane (cis)	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	beta or gamma-Chlordane (trans)	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	Beta-BHC	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	Chlordane (Total)	NE	mg/kg		0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	--	--	--	--	--	--	--
	Delta-BHC	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	Dieldrin	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Endosulfan I	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	Endosulfan II	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Endosulfan Sulfate	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Endrin	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Endrin Aldehyde	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Endrin Ketone	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Heptachlor	NE	mg/kg		0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	Heptachlor Epoxide	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0010 U	0.00094 U	0.00095 U	0.00095 U	0.00096 U	0.00099 U	0.00094 U
	Lindane (Gamma-BHC)	NE	mg/kg		0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.00050 U	0.00047 U	0.00048 U	0.00048 U	0.00048 U	0.00049 U	0.00047 U
	Methoxychlor	NE	mg/kg		0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0050 U	0.0047 U	0.0048 U	0.0048 U	0.0048 U	0.0049 U	0.0047 U
	Toxaphene	NE	mg/kg		0.070 U	0.071 U	0.070 U	0.070 U	0.071 U	0.071 U	0.025 U	0.023 U	0.024 U	0.024 U	0.024 U	0.025 U	0.023 U
VOCs[6]	Methylene Chloride	0.02	mg/kg		**0.0206**	0.00582[8] U	**0.0203**	0.00569[8] U	0.00577[8] U	**0.0155 J**	0.0020 U	**0.0023**	**0.0030**	**0.0026**	0.0021 U	**0.0021**	**0.0029**
	Acetone	NE	mg/kg		3.09 U	**0.589 J**	3.05 U	**0.833 J**	**0.769 J**	**1.33 J**	0.710 U	0.710 U	0.670 U	0.670 U	0.760 U	0.640 U	0.590 U
	Dibromochloromethane	NE	mg/kg		0.103 U	0.112 U	0.102 U	**0.0131 J**	**0.0139 J**	0.115 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0009 U	0.0010 U
	Isopropylbenzene (Cumene)	NE	mg/kg		0.103 U	0.112 U	0.102 U	**0.0219 J**	0.111 U	0.115 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0009 U	0.0010 U

				Location	Eastside[2]		Westside[2]		Northside[2]	Southside[2]	WM-1	WM-2	WM-3	WM-4	WM-5	WM-6	WM-7
				Sample ID	EASTSIDE	EASTSIDE	WESTSIDE	WESTSIDE	NORTHSIDE	SOUTHSIDE	WM-1	WM-2	WM-3	WM-4	WM-5	WM-6	WM-7
				Sample Date	7/11/2014	7/31/2014	7/11/2014	7/31/2014	7/31/2014	7/31/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014	4/22/2014
Method	**Analyte**	**MTCA Soil CUL[3]**	**Units**														
SVOCs[7]	Naphthalene	5	mg/kg	0.31 U	0.35 U	0.30 U	0.35 U	0.35 U	0.35 U	0.019 U	0.019 U	0.020 U	0.019 U	0.020 U	**0.015 J**	0.019 U
	Phenanthrene	NE	mg/kg	0.31 U	0.35 U	0.30 U	0.35 U	0.35 U	0.35 U	0.019 U	0.019 U	0.020 U	0.019 U	0.020 U	**0.027**	0.019 U

Notes:

[1]Chemical analyses (Eastside, Westside, Northside, and Southside samples) conducted by TestAmerica Laboratories, Inc. located in Spokane Valley, Washington.

[2]Chemical analyses (WM Samples) conducted by Analytical Resources, Inc. located in Tukwila, Washington.

[3]Washington State, Model Toxics Control Act (MTCA) Method A cleanup levels for soil

[4]Metals were analyzed using EPA 6010/7000 Series Methods.

[5]Pesticides were analyzed using EPA 8081B Method.

[6]Volatile organic compounds (VOCs) were analyzed using EPA 8260C Method. Only VOCs with detections are listed in table. Refer to analytical report for the full list of VOCs.

[7]Semi-volatile organic compounds (SVOCs) were analyzed using 8270D Method. Only SVOCs with detections are listed in table. Refer to analytical report for the full list or SVOCs.

[8]Analyte was not detected at concentration greater than listed detection limit.

U indicates analyte not detected at a concentration greater than listed reporting limit.

J indicates result is qualified as estimated. Refer to applicable Data Validation Report in Appendix B for details.

Bolding indicates the detected concentration is greater than the reporting limit.

Red bolding and outline indicates the detected concentration of an analyte was greater than the cleanup level.

mg/kg = milligrams per kilogram; NE = not established

"-" = not tested

Table 4

Summary of Field Quality Parameters - Groundwater

Former Cashmere Mill Site

Cashmere, Washington

Sample Number	Date Sampled	Depth to Water[1] (feet)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Soluble Ferrous Iron[2] (mg/L)	Well Headspace PID Readings[3] (ppm)
MW-1	10/28/13	6.83	7.00	0.5453	3.780	0.02	16.53	-47	0.0	10.2
	12/03/13	6.41	6.71	0.4773	4.726	0.03	12.69	-43	0.8	0.0
	12/02/14	5.05	6.88	0.4629	4.570	0.01	11.24	221	NA	0.0
MW-2	10/28/13	5.90	7.12	0.6500	9.270	0.02	17.95	-81	0.0	0.0
	12/03/13	5.70	6.94	0.5757	14.78	0.05	13.70	-88	1.0	0.0
	12/03/14	6.30	7.17	0.8595	57.85	0.07	14.18	167	NT	0.0
MW-3	10/28/13	7.36	6.13	0.9500	5.580	0.01	16.47	-86	0.0	0.0
	12/03/13	7.23	5.88	0.8568	3.874	0.01	14.00	-65	1.5	0.0
	12/03/14	6.09	6.57	0.5091	21.02	0.00	14.00	87	NA	0.0
MW-4	10/28/13	4.83	7.08	0.5580	2.480	0.02	16.61	-107	0.0	0.0
	12/03/13	4.72	6.90	0.5016	1.694	0.03	11.81	-85	1.0	0.0
	12/02/14	4.50	7.05	0.4885	2.136	0.01	15.11	169	NT	0.1
MW-5	10/28/13	2.67	7.04	0.5700	0.6800	0.03	15.73	-83	0.0	0.0
	12/03/13	2.57	6.85	0.5323	0.9694	0.04	10.81	-70	0.7	0.0
	12/02/14	5.15	7.10	0.5063	9.670	0.01	13.68	184	NA	0.0
MW-6	10/28/13	2.55	7.12	0.5700	8.770	0.00	16.75	-125	0.0	0.0
	12/03/13	2.47	6.88	0.5142	5.203	0.03	13.37	-54	1.0	115
	12/02/14	5.08	7.16	0.5286	20.63	0.00	12.30	200	NA	0.0
MW-7	10/28/13	3.10	6.95	0.4800	3.910	0.98	14.67	-16	0.0	0.0
	12/03/13	3.03	6.76	0.4434	0.1150	0.00	10.13	-44	1.2	0.0
	12/03/14	4.05	6.95	0.4647	28.52	0.00	11.66	161	NA	0.0
MW-8	10/28/13	3.87	6.73	0.3360	4.220	0.00	12.35	-123	0.0	0.0
	12/03/13	3.87	6.44	0.3847	5.165	0.02	10.80	-110	1.7	0.0
	12/03/14	4.00	6.91	0.3380	2.184	0.00	10.74	101	NA	0.0
MW-9	12/20/13	--	7.12	0.5500	0.00	0.20	11.69	114	NA	NA
	12/03/14	2.75	7.15	0.3318	1.875	0.00	12.37	301	NA	0.0

Sample Number	Date Sampled	Depth to Water[1] (feet)	pH	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Soluble Ferrous Iron[2] (mg/L)	Well Headspace PID Readings[3] (ppm)
B-1	10/28/13[4]	6.26	6.10	0.7000	1884	0.03	18.13	-75	0.0	0.0
	12/03/13	6.34	5.92	0.8623	40.81	0.07	15.62	-52	0.8	17.6
	12/03/14	4.49	6.08	0.4495	43.93	0.00	15.66	129	NA	0.0
OW-1	12/04/13	4.45	6.84	0.4884	7.057	0.06	13.43	5	0.0	0.0
	12/03/14	4.49	7.14	0.4650	1.503	0.81	14.12	352	NA	0.0

Notes:

[1]Depth to water measurements referenced to the top of the PVC casing.

[2]Soluble ferrous iron was measured in the field using a Hach IR-18C color disc test kit and the 1,10 phenanthroline testing method.

[3]Well headspace reading measured using a MiniRae2000 Photo-ionization detector (PID).

[4]Water level within B-1 did not stabilize, well pumped dry during initial purging. Well allowed to recharge before collecting groundwater sample.

mS/cm = millisiemens per centimeter; NTU = nephelometric turbidity units; mg/L = milligrams per liter; mV = millivolts; ppm = parts per million; NA = Not Analyzed; "-" = Not Measured

Table 5

Summary of Chemical Analytical Test Results[1] – Groundwater

Former Cashmere Mill Site
Cashmere, Washington

Sample Location ID	Date Sampled	GRPH[2] (µg/L)	DRPH[3] (mg/L)	ORPH[4] (mg/L)	Benzene[5] (µg/L)	Toluene[5] (µg/L)	Ethyl-benzene[5] (µg/L)	o-Xylene[5] (µg/L)	m,p-Xylenes[5] (µg/L)	Xylenes (total)[5] (µg/L)	Arsenic[6] (mg/L)	Mercury[7] (µg/L)
MW-1	12/02/14	<100	<0.234	<0.390	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	0.0024	<0.200
MW-2	12/03/14	<100	<0.232	<0.386	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	**0.0071**	<0.200
MW-3	12/03/14	<100	<0.229	<0.382	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	0.0022	<0.200
MW-4	12/02/14	<100	<0.232	0.387	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	0.0044	<0.200
MW-5	12/02/14	<100	<0.238	<0.397	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	**0.0052**	<0.200
MW-6	12/02/14	<100	<0.237	<0.396	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	**0.0054**	<0.200
MW-7	12/03/14	<100	<0.231	<0.385	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	**0.0093**	<0.200
MW-8	12/03/14	<100	<0.238	<0.397	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	**0.0065**	<0.200
MW-9	12/03/14	<100	<0.223	<0.388	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	**0.0054**	<0.200
B-1	12/03/14	<100	0.447	<0.386	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	<0.010	<0.200
OW-1	12/03/14	<100	<0.231	<0.385	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	<0.0010	<0.200
MW-Dup	12/03/14	<100	<0.231	<0.385	<0.200	<0.500	<0.500	<0.500	<0.500	<1.50	0.0020	<0.200
MTCA Method A Cleanup Levels		1,000/800[8]	0.500	0.500	5	1,000	700	1,000[9]			0.005	2

Notes:

[1]Chemical analyses completed by TestAmerica Laboratories, Inc. located in Spokane Valley, Washington.

[2]GRPH = Gasoline-range petroleum hydrocarbons analyzed by Northwest Method NWTPH-Gx.

[3]DRPH = Diesel-range petroleum hydrocarbons analyzed by Northwest Method NWTPH-Dx.

[4]ORPH = Oil-range petroleum hydrocarbons analyzed by Northwest Method NWTPH-Dx.

[5]Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA 8260C.

[6]Arsenic analyzed by EPA 200.8

[7]Mercury analyzed by EPA 200 Series Methods

[8]Cleanup level is 1,000 µg/L; 800 µg/L when benzene is detected.

[9]Cleanup level for total xylenes (o-xylene and m,p-xylene) is 1,000 µg/L.

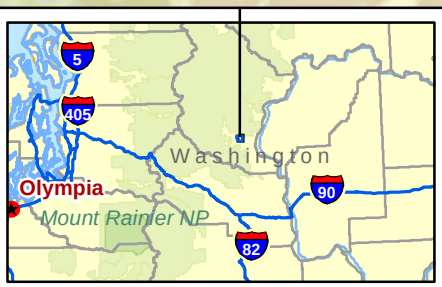
Red bolding and outline indicates the detected concentration of an analyte was greater than the cleanup level.

mg/L = milligrams per liter; µg/L = micrograms per liter; MTCA = Model Toxics Control Act

FIGURES

GeoEngineers





N
W E
S

2,000 0 2,000

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. cannot 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, State Plane South, North American Datum 1983
North arrow oriented to grid north

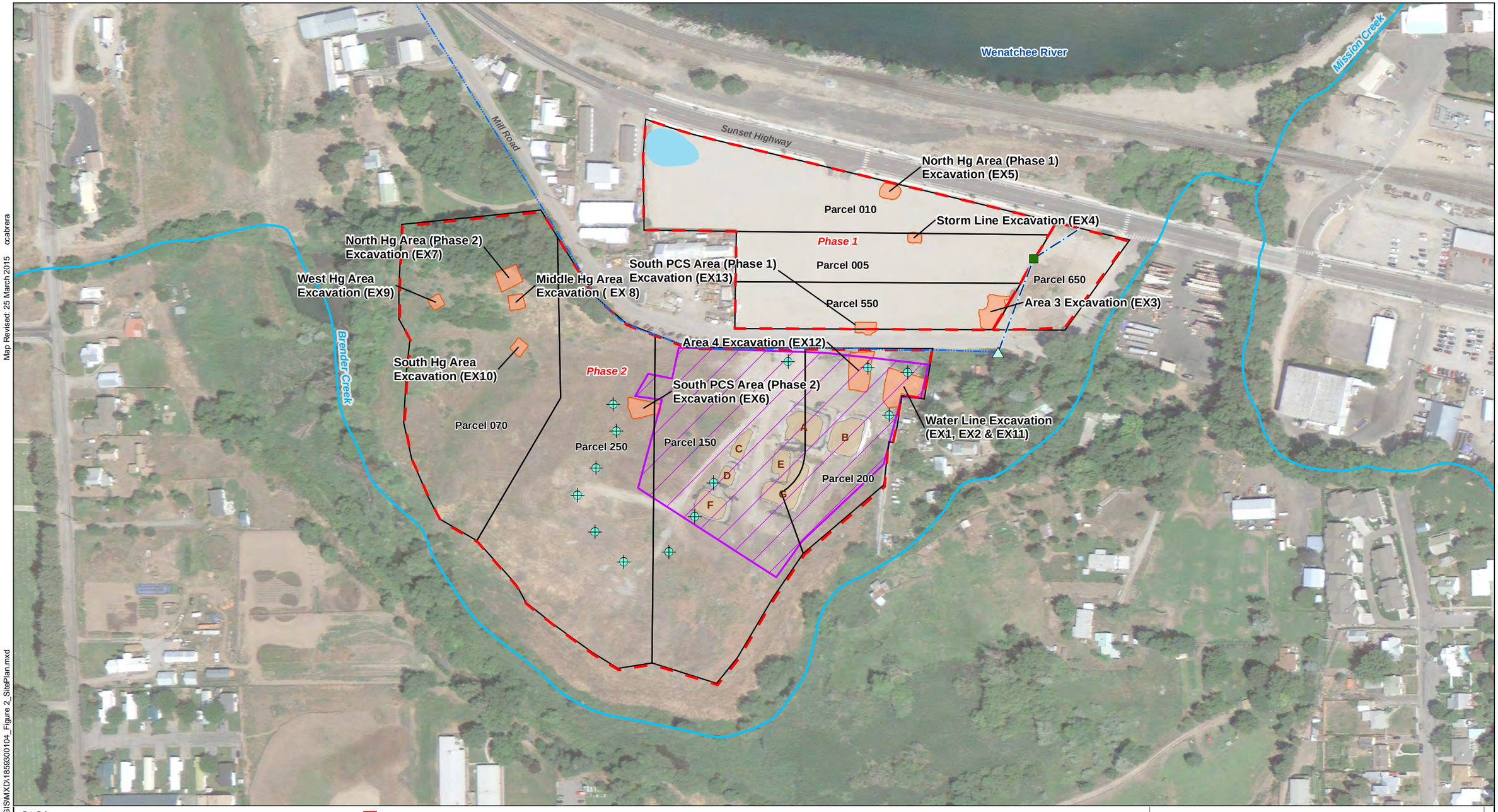
Vicinity Map

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 1

Office: SPOK Path: P:\18\18593001\GIS\MXD\1859300104_F1.mxd Map Revised: 02 October 2014 ccabrera



Map Revised: 25 March 2015 ccabrera

Office: SPO Path: P:\18\18593001\GIS\MXD\1859300104_Figure 2_SitePlan.mxd

Data References
Existing site boundary, parcel, previous explorations, remedial site boundaries, and PCS Soil stockpiles based on data provided by Maul, Foster & Alongi, Inc. and RH2 Engineering Inc., 2013.
Imagery from Google Earth Pro, 2013

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
1. Parcel labels in drawing refer to the last three digits in the parcel numbers below.
Parcels in map include:
231905924005, 231905925010, 231905110650, 231905110550, 231905110500, 231905110600, 231905141200, 231905110150, 231905141250, 231905924070.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot 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.
4. Dewatering well locations estimate from the "Groundwater Control Plan", Middour Consulting LLC, June 20, 2014.
5. Phase 2 wood waste excavation limits based on post-construction survey provided by RH2 Engineering.

- Approximate Project Site Boundary
- Approximate Final Extent of Phase I and II Excavation Areas
- A — Former PCS Stockpile Identification and Locations from Phase 1
- Approximate Phase 2 Wood Waste Excavation Limits
- Approximate Location of Dewatering Wells
- Approximate Location of Dewatering Infiltration Pond
- Inlet at No Name Creek Bypass
- No Name Creek Bypass Vault
- No Name Creek Culvert Approximate Alignment
- Streams Approximate Location
- Ditch Approximate Location
- Parcels

N W E S

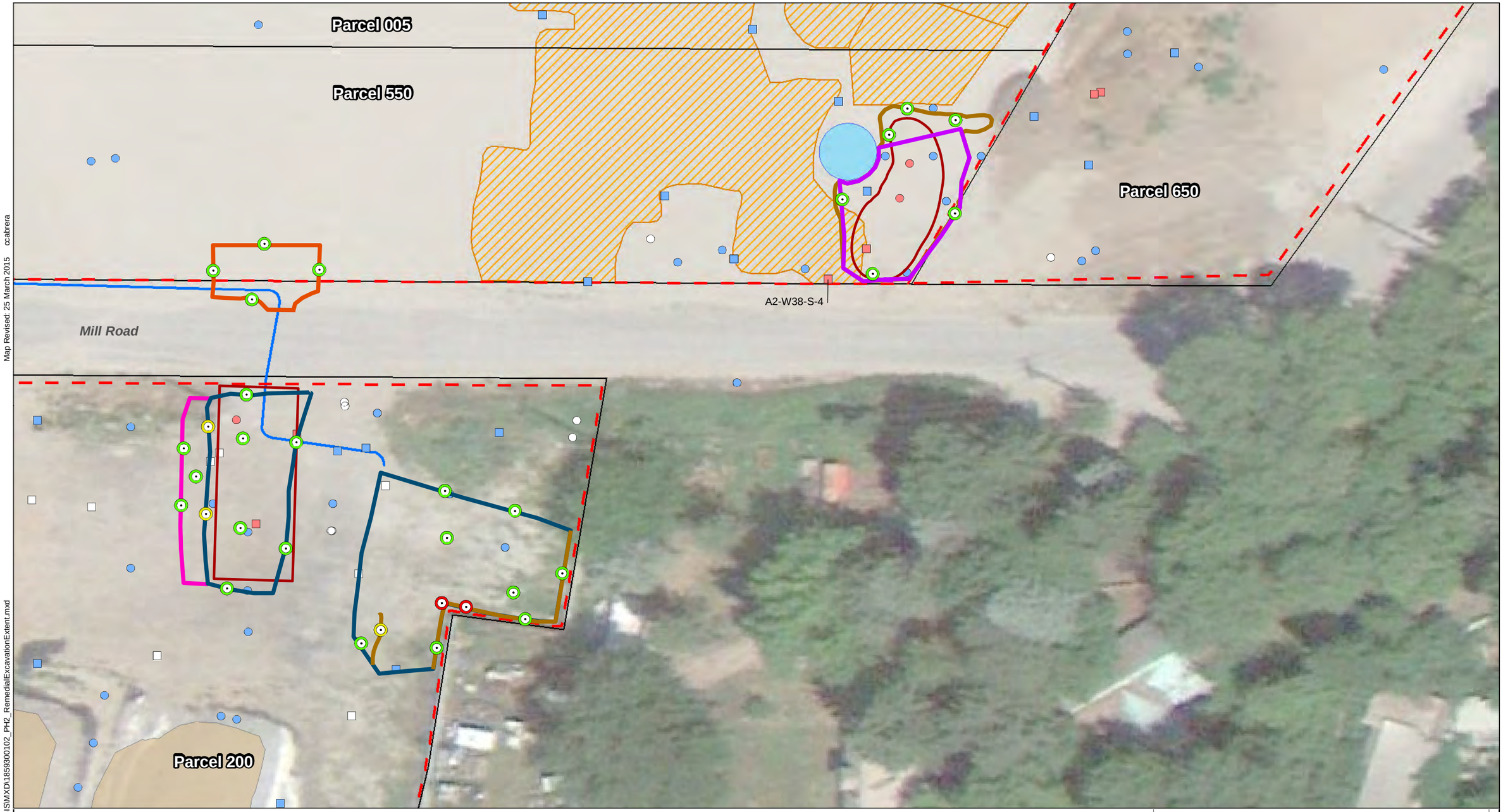
200 0 200
Feet

Site Plan

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 2



Map Revised: 25 March 2015 ccabrera

Path: P:\18\18593001\GIS\MXD\18593000102_PH2_RemedialExcavationExtent.mxd

Office: SPO

Data References
Existing site boundary, parcel, previous explorations, remedial site boundaries, and PCS Soil stockpiles based on data provided by Maul, Foster & Alongi, Inc. and RH2 Engineering Inc., 2013.
Imagery from Google Earth Pro, 2013

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
1. Parcel labels in drawing refer to the last three digits in the parcel numbers below.
Parcels in map include:
231905924005, 231905925010, 231905110650, 231905110550, 231905110500, 231905110600, 231905141200, 231905110150, 231905141250, 231905924070.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot 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.

- Excavation Confirmation Sample Number and Approximate Location Tested Less Than Cleanup Level
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Later Removed)
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Remains Inplace)
- Excavation Sample Not Tested

Approximate Limits of Remedial Excavation Based on GPS Data and/or Field Measurements

- July 18, 2014
- July 21, 2014
- September 5, 2014
- September 12, 2014
- October 13, 2014

- GeoEngineers Explorations Not Tested
- GeoEngineers Explorations < MTCA Applicable Method A or B Cleanup Levels
- GeoEngineers Explorations > MTCA Applicable Method A or B Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others Not Tested
- Previous Remedial Excavation Confirmation Sample Explorations by Others < MTCA Method A Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others > MTCA Method A Cleanup Levels

- Estimated Extent of Contaminated Soil Requiring Removal
- Former PCS Stockpiles from Phase 1
- Approximate Location of Previous Phase 1 Remedial Excavation Areas
- Approximate Project Site Boundary
- Waterline
- Water Structure
- Parcels

N W E S

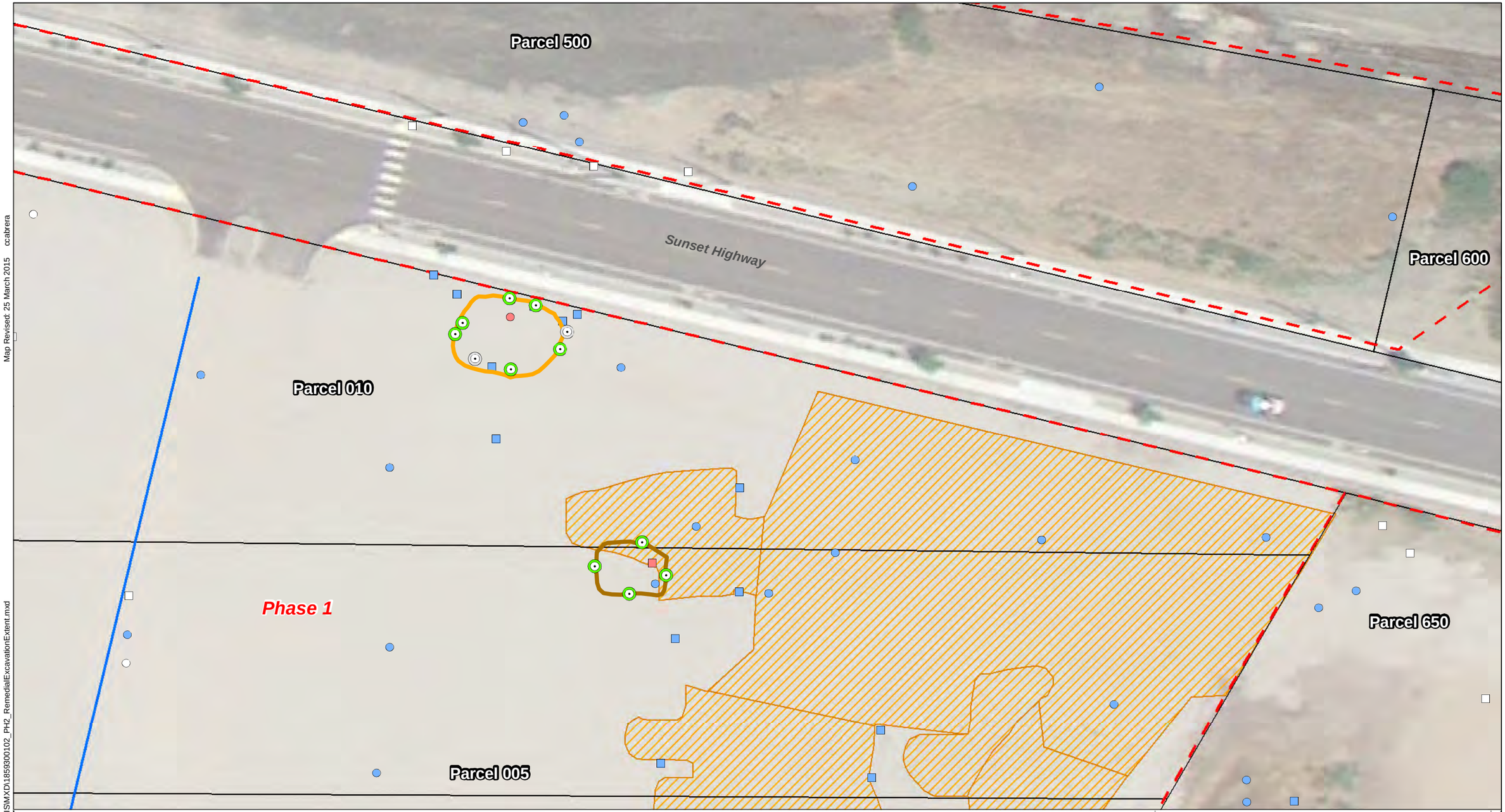
0 40
Feet

Phase 2 Final Remedial Excavation Extents

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 3



Map Revised: 25 March 2015 ccabrera

Path: P:\18\18593001\GIS\MXD\18593001_PH2_RemedialExcavationExtent.mxd

Office: SPO

Data References
Existing site boundary, parcel, previous explorations, remedial site boundaries, and PCS Soil stockpiles based on data provided by Maul, Foster & Alongi, Inc. and RH2 Engineering Inc., 2013.
Imagery from Google Earth Pro, 2013

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
1. Parcel labels in drawing refer to the last three digits in the parcel numbers below.
Parcels in map include:
231905924005, 231905925010, 231905110650, 231905110550, 231905110500, 231905110600, 231905141200, 231905110150, 231905141250, 231905924070.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot 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.

- Excavation Confirmation Sample Number and Approximate Location Tested Less Than Cleanup Level
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Later Removed)
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Remains Inplace)
- Excavation Sample Not Tested

Approximate Limits of Remedial Excavation Based on GPS Data and/or Field Measurements
- July 21, 2014
- July 22, 2014

- GeoEngineers Explorations Not Tested
- GeoEngineers Explorations < MTCA Applicable Method A or B Cleanup Levels
- GeoEngineers Explorations > MTCA Applicable Method A or B Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others Not Tested
- Previous Remedial Excavation Confirmation Sample Explorations by Others < MTCA Method A Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others > MTCA Method A Cleanup Levels

- Estimated Extent of Contaminated Soil Requiring Removal
- Former PCS Stockpiles from Phase 1
- Approximate Location of Previous Phase 1 Remedial Excavation Areas
- Approximate Project Site Boundary
- Waterline
- Parcels

N W E S

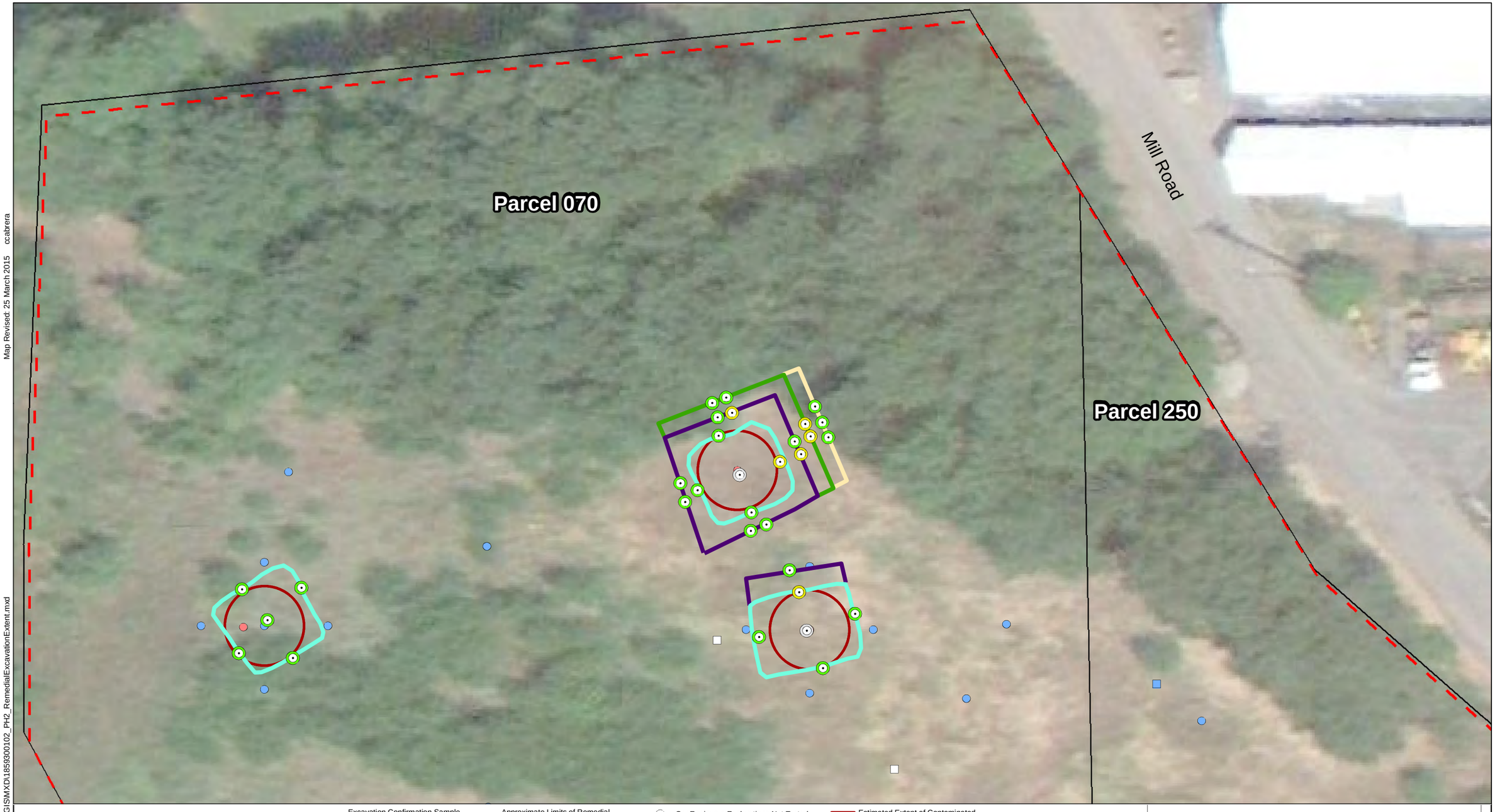
0 40
Feet

Phase 2 Final Remedial Excavation Extents

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 4



Map Revised: 25 March 2015 ccabrera

Path: P:\181\185933001\GIS\MXD\185933001O2_PH2_RemedialExcavationExtent.mxd

Office: SPO

Data References
Existing site boundary, parcel, previous explorations, remedial site boundaries, and PCS Soil stockpiles based on data provided by Maul, Foster & Alongi, Inc. and RH2 Engineering Inc., 2013.
Imagery from Google Earth Pro, 2013

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
1. Parcel labels in drawing refer to the last three digits in the parcel numbers below.
Parcels in map include:
231905924005, 231905925010, 231905110650, 231905110550, 231905110500, 231905110600, 231905141200, 231905110150, 231905141250, 231905924070.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot 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.

- Excavation Confirmation Sample Number and Approximate Location Tested Less Than Cleanup Level
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Later Removed)
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Remains Inplace)
- Excavation Sample Not Tested

Approximate Limits of Remedial Excavation Based on GPS Data and/or Field Measurements

- July 24, 2014
- July 31, 2014
- August 7, 2014
- August 27, 2014

- GeoEngineers Explorations Not Tested
- GeoEngineers Explorations < MTCA Applicable Method A or B Cleanup Levels
- GeoEngineers Explorations > MTCA Applicable Method A or B Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others Not Tested
- Previous Remedial Excavation Confirmation Sample Explorations by Others < MTCA Method A Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others > MTCA Method A Cleanup Levels

- Estimated Extent of Contaminated Soil Requiring Removal
- Former PCS Stockpiles from Phase 1
- Approximate Location of Previous Phase 1 Remedial Excavation Areas
- Approximate Project Site Boundary
- Waterline
- Parcels

N
W E
S

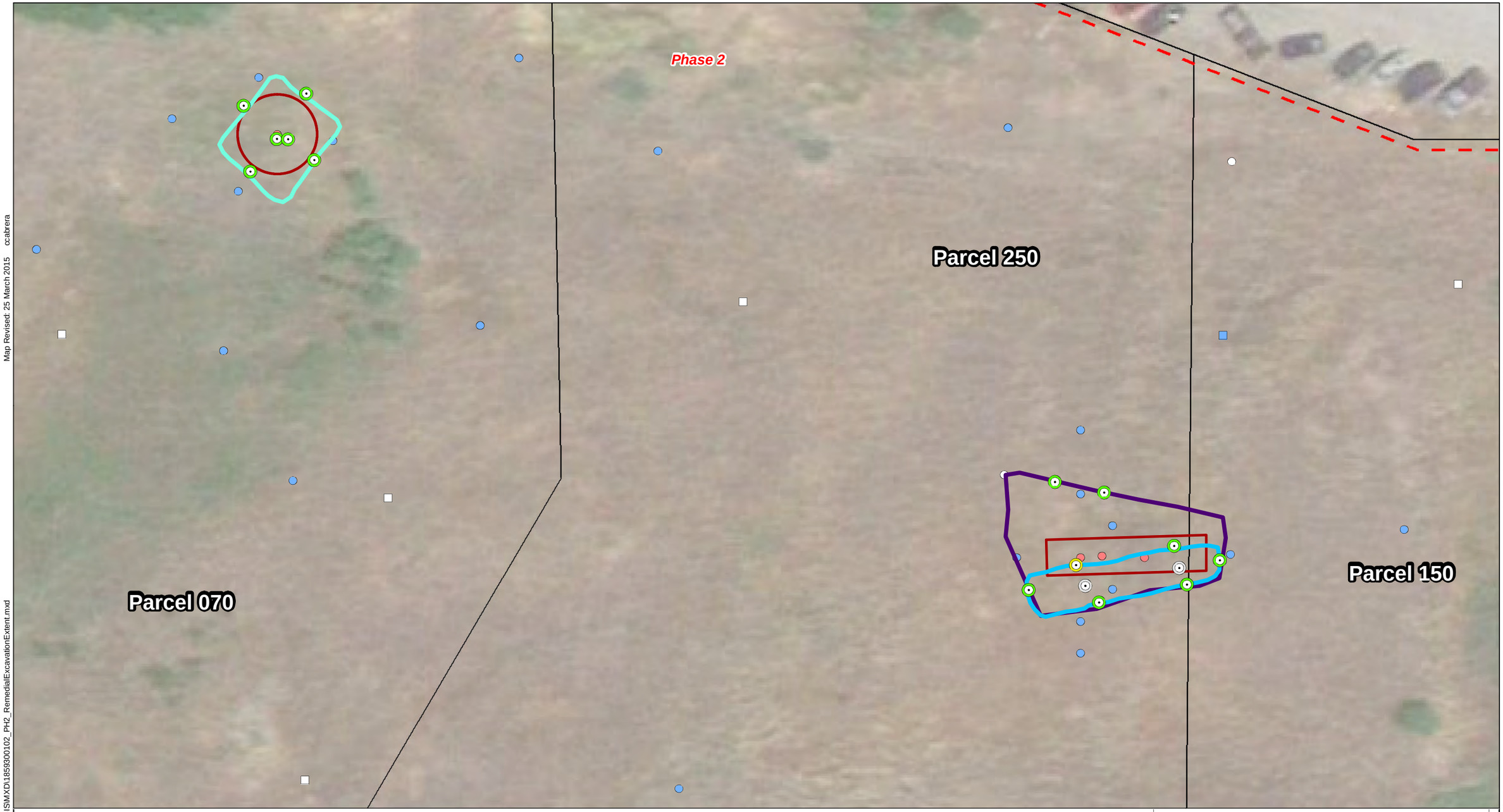
0 30
Feet

Phase 2 Final Remedial Excavation Extents

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 5



Map Revised: 25 March 2015 ccabrera

Path: P:\181859300\1\GIS\MXD\18593000102_PH2_RemedialExcavationExtent.mxd

Office: SPO

Data References
Existing site boundary, parcel, previous explorations, remedial site boundaries, and PCS Soil stockpiles based on data provided by Maul, Foster & Alongi, Inc. and RH2 Engineering Inc., 2013.
Imagery from Google Earth Pro, 2013

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
1. Parcel labels in drawing refer to the last three digits in the parcel numbers below. Parcels in map include:
231905924005, 231905925010, 231905110650, 231905110550, 231905110500, 231905110600, 231905141200, 231905110150, 231905141250, 231905924070.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot 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.

- Excavation Confirmation Sample Number and Approximate Location Tested Less Than Cleanup Level
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Later Removed)
- Excavation Confirmation Sample Number and Approximate Location Tested Greater Than Cleanup Level (Remains Inplace)
- Excavation Sample Not Tested

Approximate Limits of Remedial Excavation Based on GPS Data and/or Field Measurements
- July 23, 2014
- July 24, 2014
- July 31, 2014

- GeoEngineers Explorations Not Tested
- GeoEngineers Explorations < MTCA Applicable Method A or B Cleanup Levels
- GeoEngineers Explorations > MTCA Applicable Method A or B Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others Not Tested
- Previous Remedial Excavation Confirmation Sample Explorations by Others < MTCA Method A Cleanup Levels
- Previous Remedial Excavation Confirmation Sample Explorations by Others > MTCA Method A Cleanup Levels

- Estimated Extent of Contaminated Soil Requiring Removal
- Former PCS Stockpiles from Phase 1
- Approximate Location of Previous Phase 1 Remedial Excavation Areas
- Approximate Project Site Boundary
- Waterline
- Parcels

N W E S

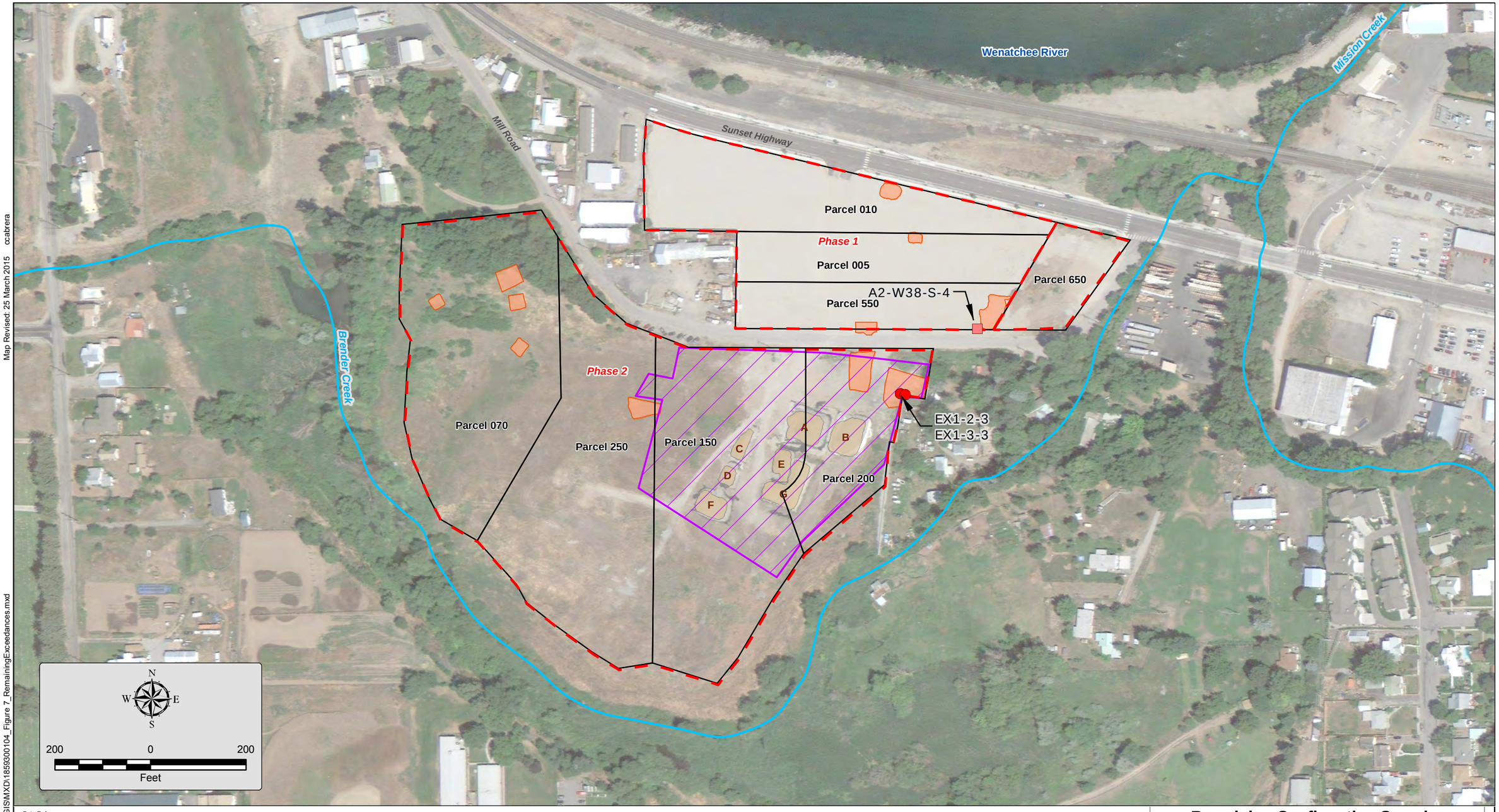
0 30
Feet

Phase 2 Final Remedial Excavation Extents

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 6



Map Revised: 25 March 2015 ccabrera

Office: SPO Path: P:\181\18593001\GIS\MXD\185930104_Figure 7_RemainingExceedances.mxd

Data References
Existing site boundary, parcel, previous explorations, remedial site boundaries, and PCS Soil stockpiles based on data provided by Maul, Foster & Alongi, Inc. and RH2 Engineering Inc., 2013.
Imagery from Google Earth Pro, 2013

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
1. Parcel labels in drawing refer to the last three digits in the parcel numbers below.
Parcels in map include:
231905924005, 231905925010, 231905110650, 231905110550, 231905110500, 231905110600, 231905141200, 231905110150, 231905141250, 231905924070.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot 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.
4. Dewatering well locations estimate from the "Groundwater Control Plan", Middour Consulting LLC, June 20, 2014.
5. Phase 2 wood waste excavation limits based on post-construction survey provided by RH2 Engineering.

- Approximate Project Site Boundary
- Confirmation Sample Tested Greater Than Cleanup Level (Remains In Place)
- Previous Remedial Excavation Confirmation Sample Explorations by Others > MTCA Method A Cleanup Levels (Remains In Place)
- Approximate Final Extent of Phase I and II Excavation Areas
- A — Former PCS Stockpile Identification and Locations from Phase 1
- Approximate Phase 2 Wood Waste Excavation Limits
- Streams Approximate Location
- Parcels

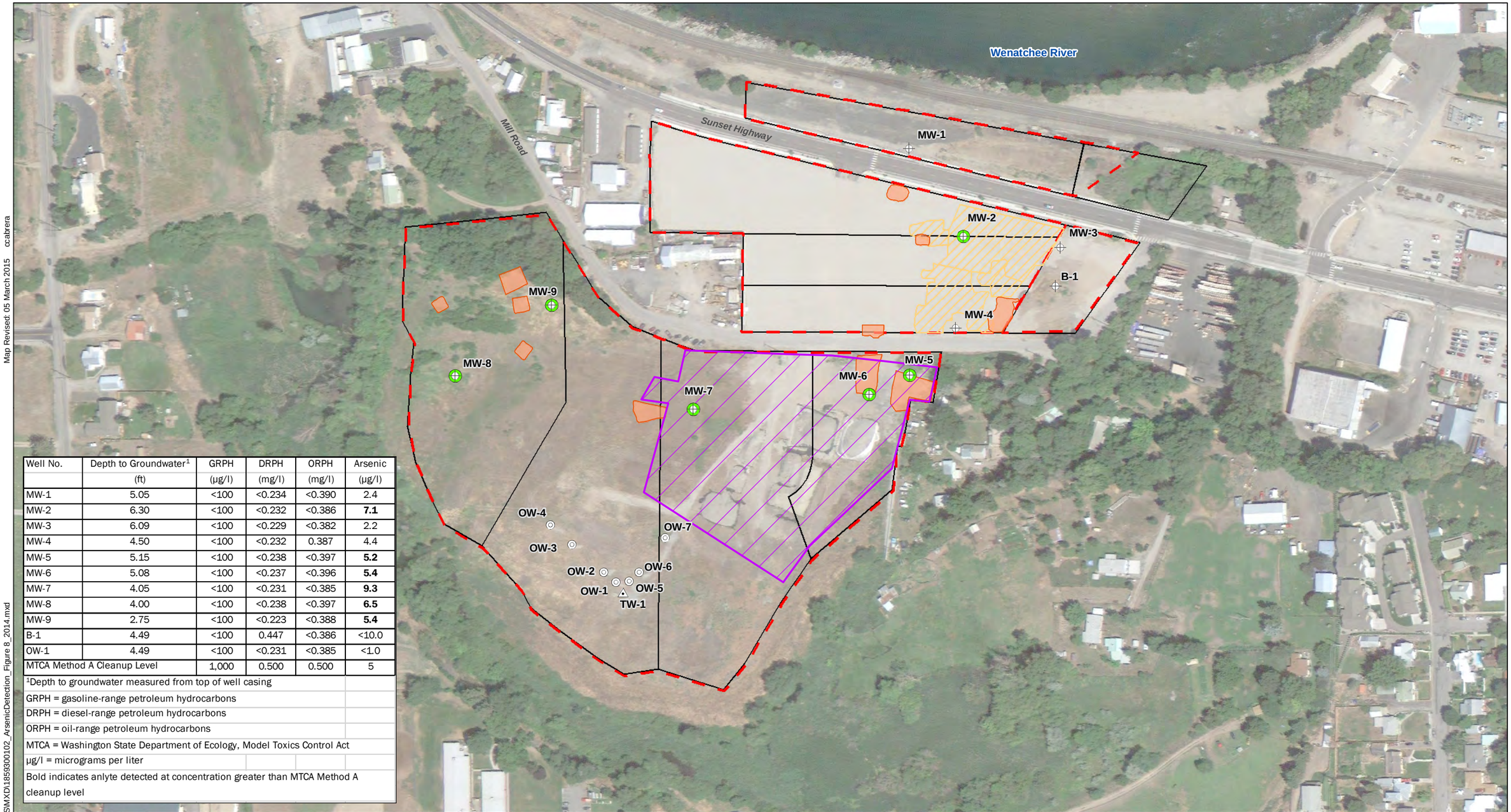
*Refer to Figure 3 for detailed site location of remaining confirmation samples exceeding cleanup levels.

Remaining Confirmation Samples Exceeding Cleanup Levels

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 7



Well No.	Depth to Groundwater[1] (ft)	GRPH (µg/l)	DRPH (mg/l)	ORPH (mg/l)	Arsenic (µg/l)
MW-1	5.05	<100	<0.234	<0.390	2.4
MW-2	6.30	<100	<0.232	<0.386	**7.1**
MW-3	6.09	<100	<0.229	<0.382	2.2
MW-4	4.50	<100	<0.232	0.387	4.4
MW-5	5.15	<100	<0.238	<0.397	**5.2**
MW-6	5.08	<100	<0.237	<0.396	**5.4**
MW-7	4.05	<100	<0.231	<0.385	**9.3**
MW-8	4.00	<100	<0.238	<0.397	**6.5**
MW-9	2.75	<100	<0.223	<0.388	**5.4**
B-1	4.49	<100	0.447	<0.386	<10.0
OW-1	4.49	<100	<0.231	<0.385	<1.0
MTCA Method A Cleanup Level		1,000	0.500	0.500	5

[1]Depth to groundwater measured from top of well casing

GRPH = gasoline-range petroleum hydrocarbons

DRPH = diesel-range petroleum hydrocarbons

ORPH = oil-range petroleum hydrocarbons

MTCA = Washington State Department of Ecology, Model Toxics Control Act

µg/l = micrograms per liter

Bold indicates anlyte detected at concentration greater than MTCA Method A cleanup level

Data References: Contours generated using Surfer software.
Existing site boundary, parcel, previous explorations, remedial site boundaries, and PCS Soil stockpiles based on data provided by Maul, Foster & Alongi, Inc. and RH2 Engineering Inc., 2013.
Imagery from Google Earth Pro, 2013

Projection: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Notes:
1. Parcel labels in drawing refer to the last three digits in the parcel numbers below.
Parcels in map include:
231905924005, 231905925010, 231905110650, 231905110550, 231905110500, 231905110600, 231905141200, 231905110150, 231905141250, 231905924070.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot 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.
4. Phase 2 wood waste excavation limits based on post-construction survey provided by RH2 Engineering.

Monitoring Well Number and Approximate Location

Observation Well Number and Approximate Location

Test Well Number and Approximate Location

Arsenic detected at concentration greater than MTCA Method A cleanup level

Approximate Location of Phase 1 Remedial Excavation Areas

Approximate Project Site Boundary

Final Extent of Contaminated Soil Remedial Excavation Areas

Approximate Final Extent of Phase I and II Excavation Areas

Parcels

N W E S

200 0 200
Feet

Arsenic Detection, December 2, 2014

Former Cashmere Mill Site
Cashmere, Washington

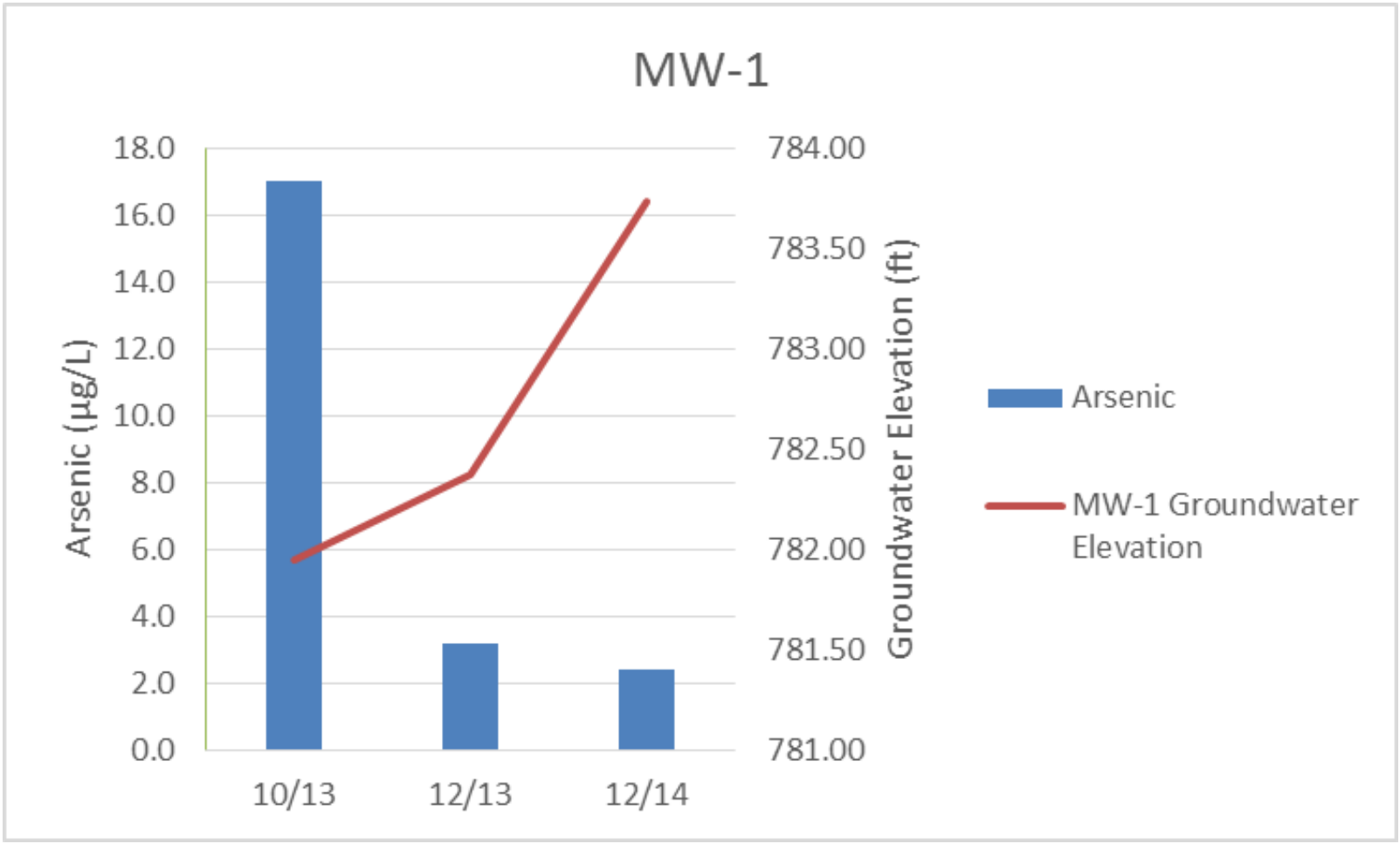
GeoEngineers

Figure 8

Map Revised: 05 March 2015 ccabrera

Path: P:\18\18593001\GIS\MXD\18593000102_ArsenicDetection_Figure 8_2014.mxd

Office: SPO



Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

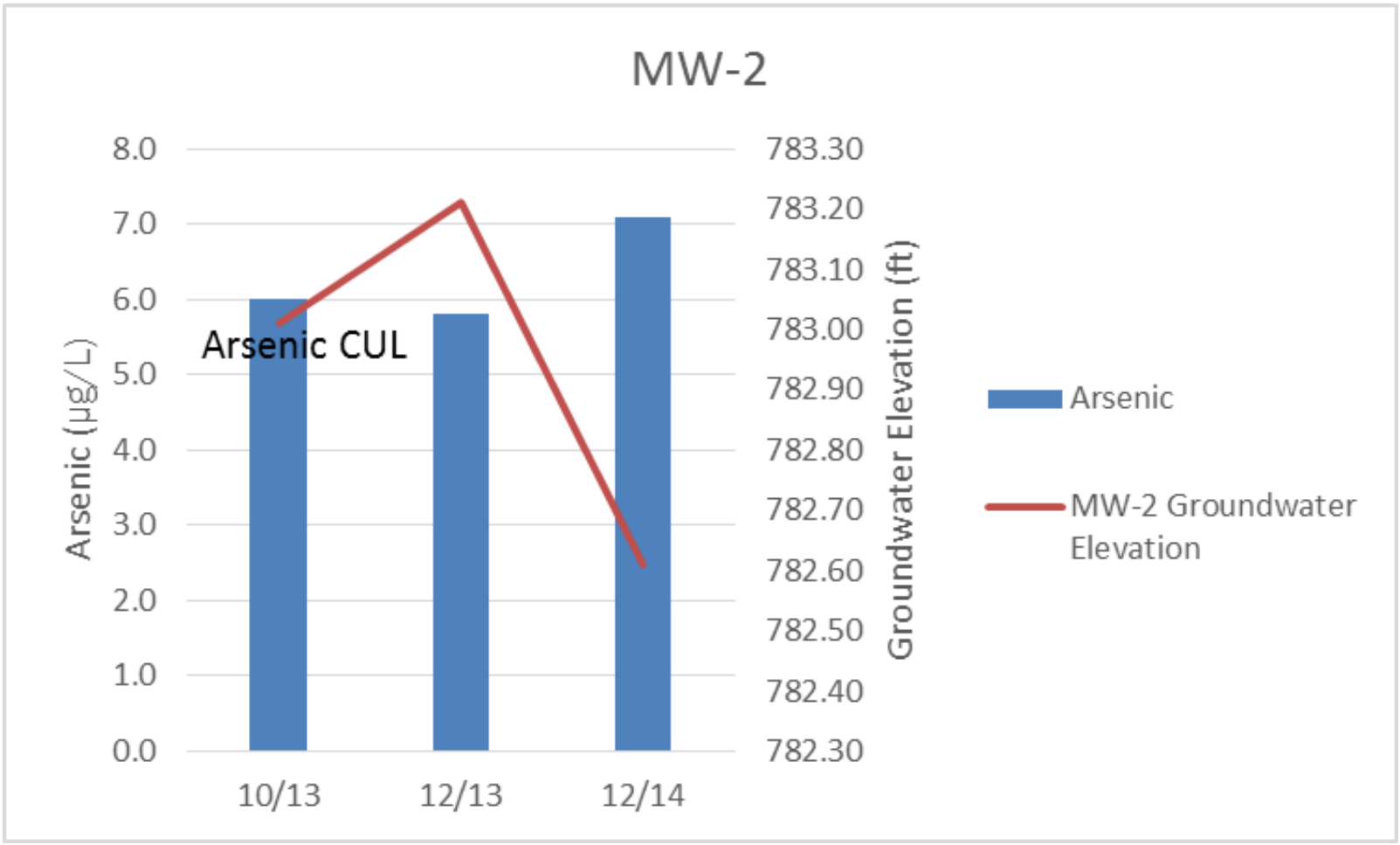
GeoEngineers

Figure 9

Notes:

1. ft = feet; µg/L = micrograms per liter

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = µicrograms per liter
2. CUL = cleanup level

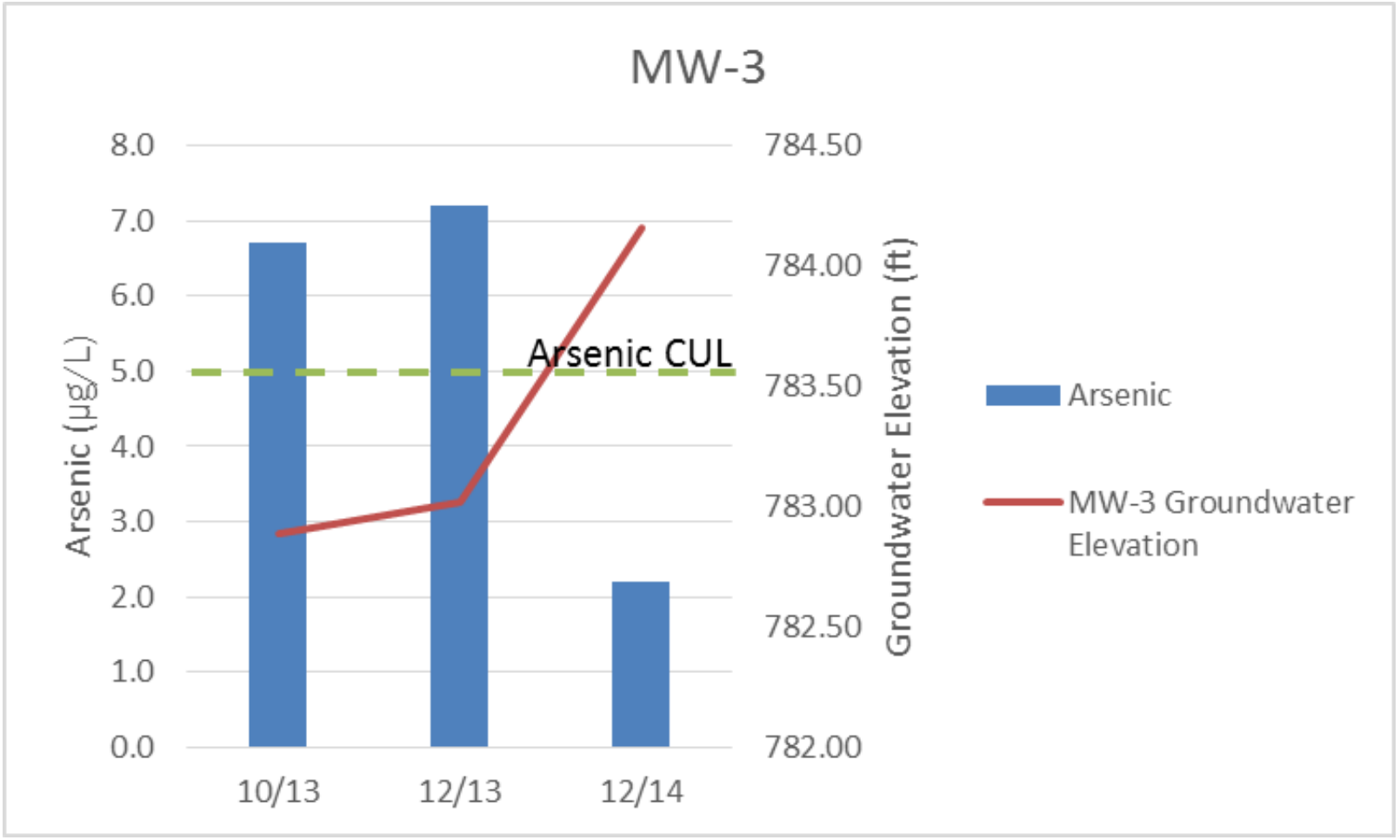
Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 10

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = micrograms per liter
2. CUL = cleanup level

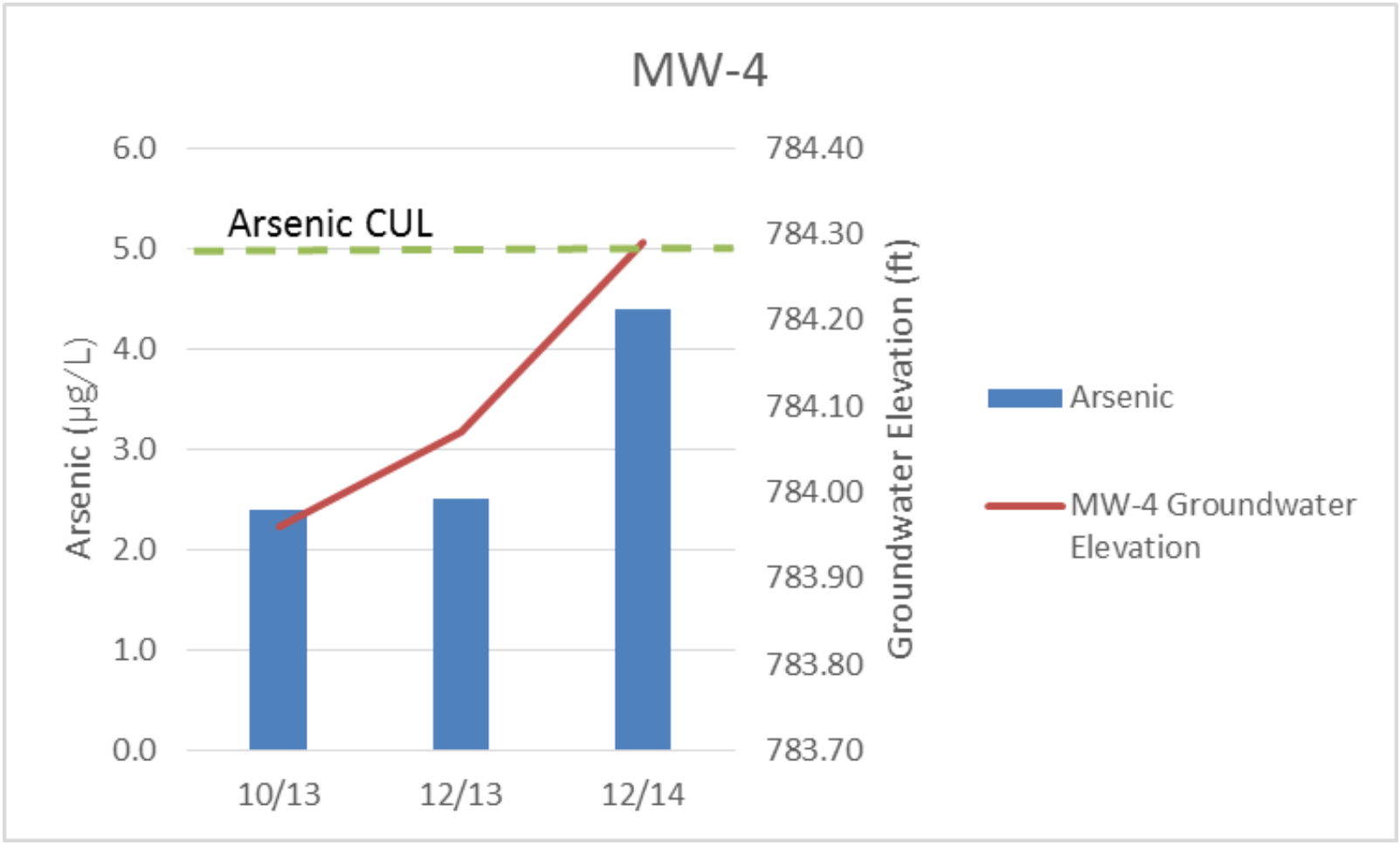
Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 11

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = µicrograms per liter
2. CUL = cleanup level

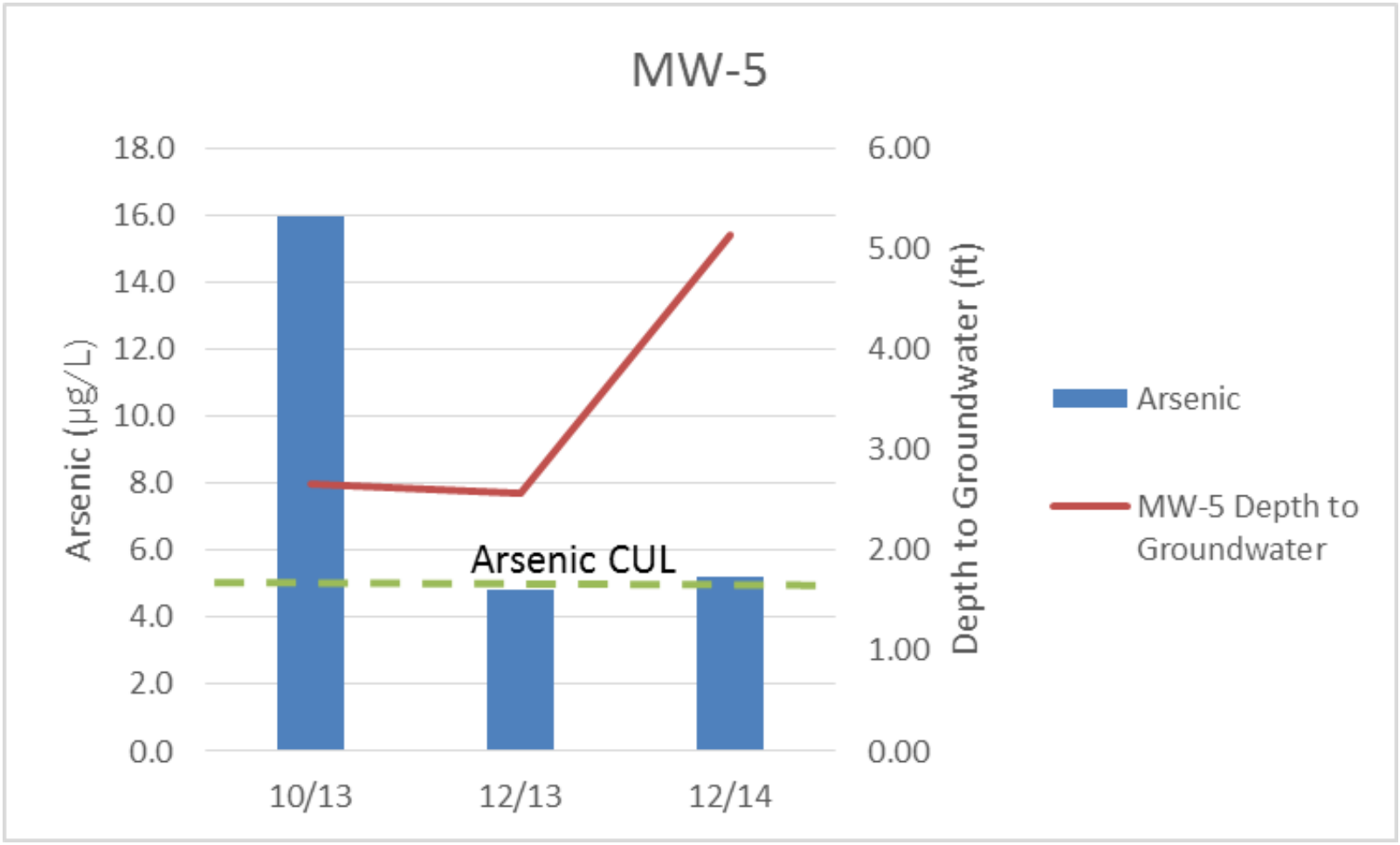
Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 12

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = micrograms per liter
2. CUL = cleanup level

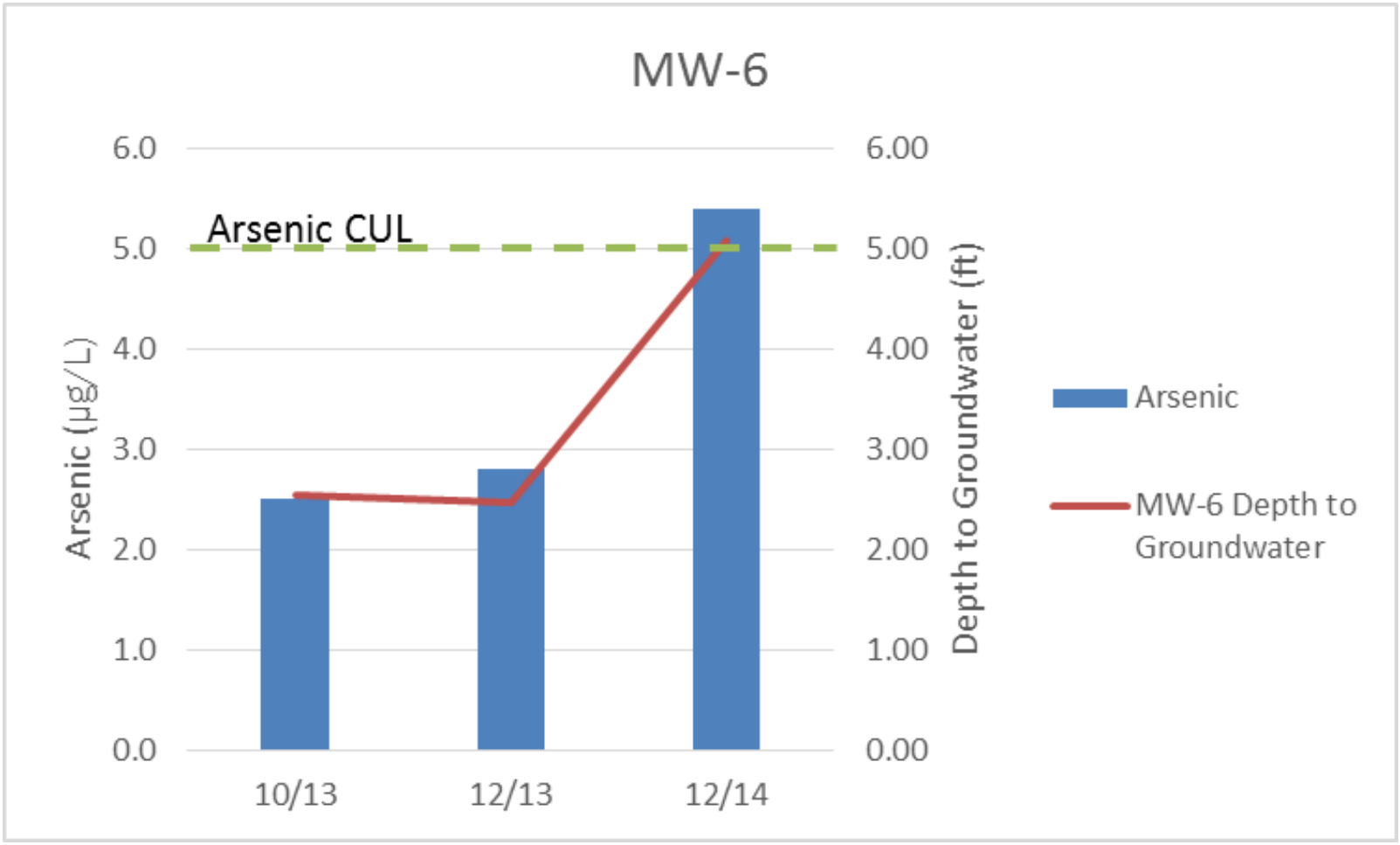
Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 13

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = µicrograms per liter
2. CUL = cleanup level

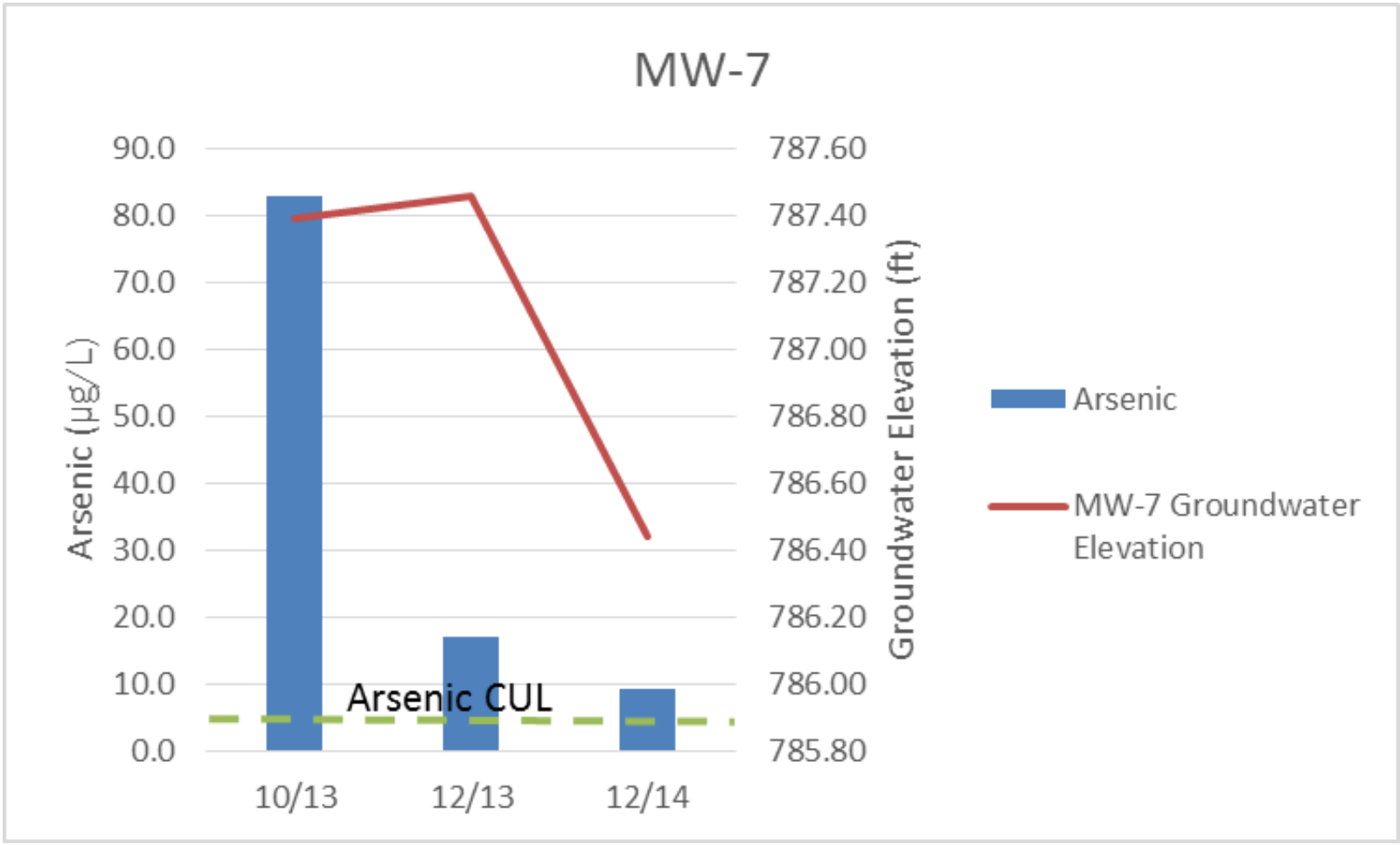
Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 14

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = micrograms per liter
2. CUL = cleanup level

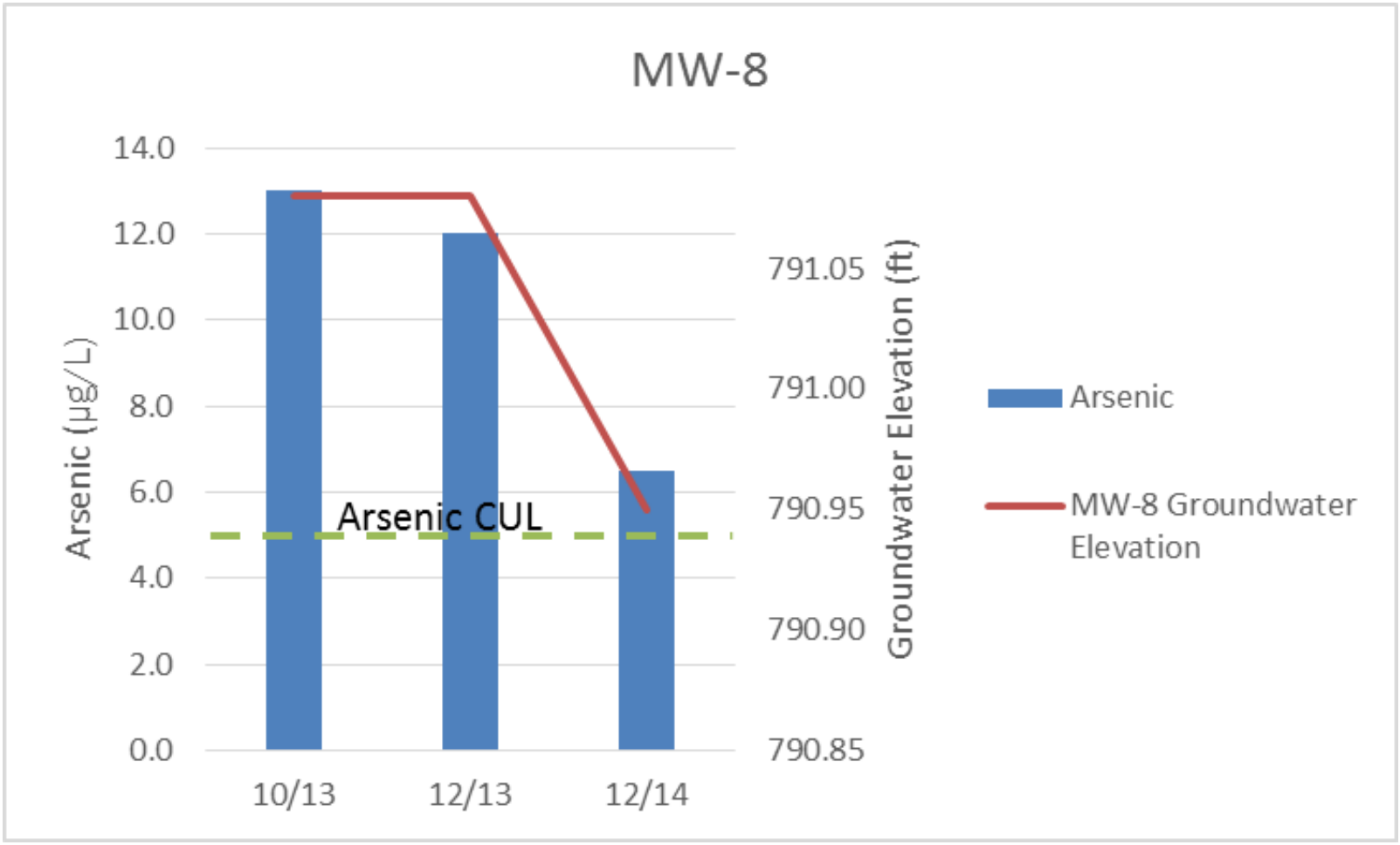
Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 15

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = micrograms per liter
2. CUL = cleanup level

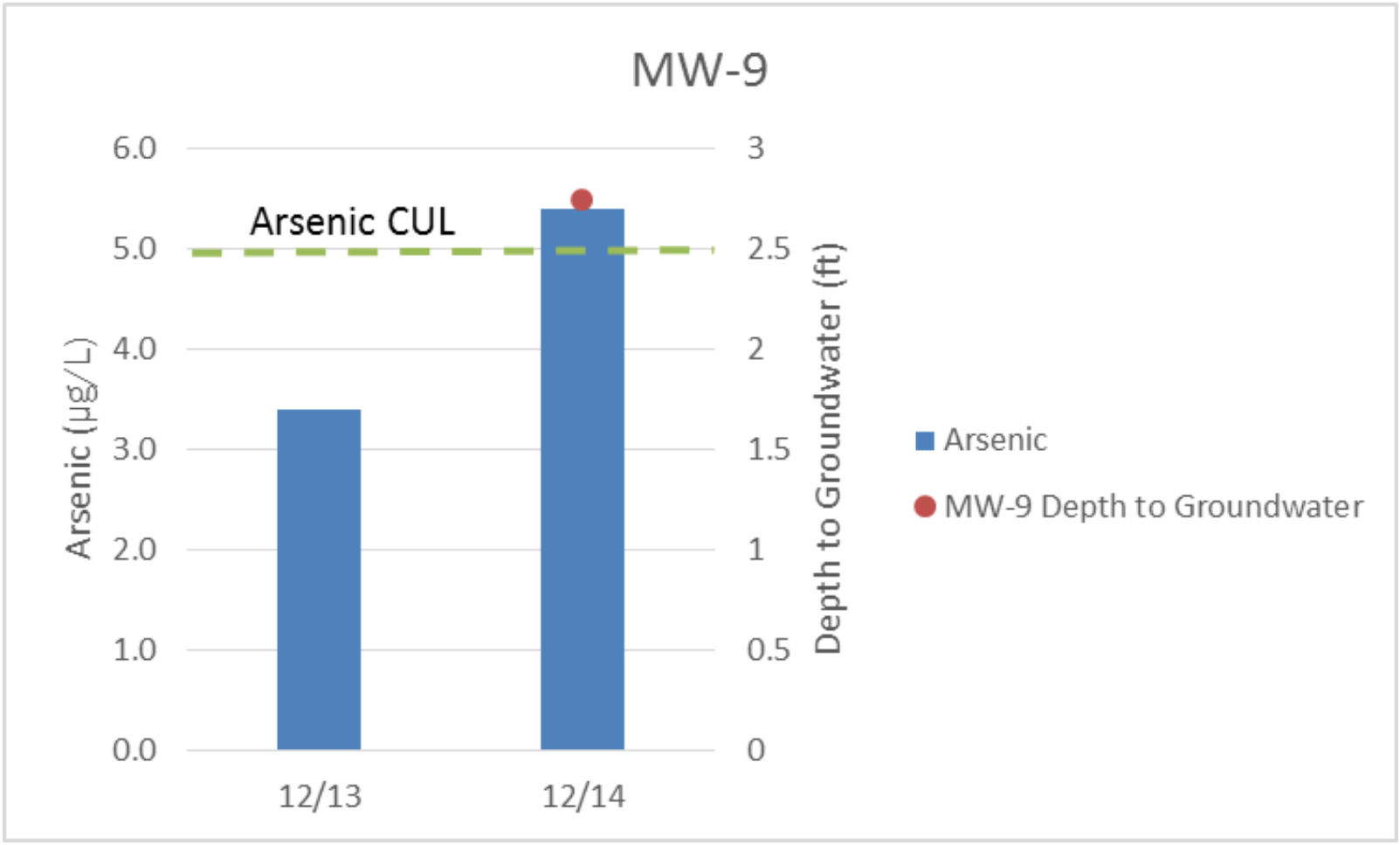
Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 16

File No. 18593-001-04 4/24/2015



Notes:

1. ft = feet; µg/L = micrograms per liter
2. CUL = cleanup level

Arsenic versus Groundwater Elevation

Former Cashmere Mill Site
Cashmere, Washington

GeoEngineers

Figure 17

File No. 18593-001-04 4/24/2015

APPENDICES

GeoEngineers

APPENDIX A
Field Procedures

APPENDIX A
FIELD PROCEDURES

General Soil Sampling Procedures

Samples were obtained using disposable nitrile gloves which were discarded after each use. Samples were placed in 4-ounce, laboratory-supplied sample containers. Sample containers were filled to minimize headspace and labeled with a unique identification. Confirmation samples analyzed for VOCs were obtained using EPA Method 5035 sampling procedures. Samples were temporarily stored in a cool environment (refrigerator or iced cooler) prior to transfer to TestAmerica's Spokane Valley, Washington laboratory for analysis. Chain-of-custody protocols were followed.

Confirmation Sampling

Discrete confirmation grab samples were obtained from remedial excavations at a rate of one sample per about 50 linear feet of excavation sidewall. Smaller remedial excavations were sampled on sidewalls. Where applicable, samples were collected from the bucket of the excavator. When entering the excavations was safe, samples were obtained by removing about 6 inches of soil from the sample locations and collecting the sample from the underlying, undisturbed soil. Confirmation samples were placed in laboratory-supplied sample containers. Samples obtained for VOC analysis were collected using EPA Method 5035 sampling protocols. Confirmation sample locations were logged using a hand-held GPS unit.

Field Screening of Soil Samples

A GeoEngineers representative performed field screening of soil samples obtained from areas where petroleum-contaminated soil was observed during excavation activities. Field screening results are used as a general guideline to delineate depths with possible petroleum-related contamination. The screening methods used include: (1) visual screening; (2) water sheen screening; and (3) headspace vapor screening using a MiniRae PID calibrated to isobutylene.

Visual screening consists of inspecting the soil for stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavy petroleum hydrocarbons such as motor oil, or when hydrocarbon concentrations are high. Water sheen screening is a more sensitive method that has been effective in evaluating whether contaminant concentrations are less than regulatory cleanup guidelines.

Water sheen screening involves placing soil in water and observing the water surface for signs of sheen. Sheen screening may detect both volatile and nonvolatile petroleum hydrocarbons. Sheen classifications are as follows:

No Sheen	No visible sheen on water surface.
Slight Sheen	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce a slight sheen.
Moderate Sheen	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening involved placing a soil sample in a plastic sample bag. Air was captured in the bag, and the bag was shaken to expose the soil to the air trapped in the bag. Headspace vapor screening targeted volatile petroleum hydrocarbon compounds. In this application, the PID measured concentration of organic vapors ionizable by a 10.6 electron volt (ev) lamp in the range between 1.0 and 2,000 ppm, with a resolution of +/- 2 ppm.

Field screening results are site-specific. The effectiveness of field screening results will vary with temperature, moisture content, organic content, soil type and type and age of contaminant. The presence or absence of a sheen or headspace vapors does not necessarily indicate the presence or absence of petroleum hydrocarbons.

Monitoring Headspace Vapor Measurements

Headspace vapor measurement involved placing the tip of the PID into the headspace of the monitoring well and covering the top of the monitoring well to prevent the exchange of ambient air with air in the monitoring well. Headspace vapor measurements targeted volatile petroleum hydrocarbon compounds. In this application, the PID measured concentration of organic vapors ionizable by a 10.6 ev lamp in the range between 1.0 and 2,000 ppm, with a resolution of ±2 ppm.

Groundwater Elevations Depth to Groundwater

Depths to groundwater were measured using a Solinst Model 101 Water Level Meter (Solinst) in monitoring wells MW-1 through MW-9, B-1 and OW-1 and referenced to the north side of the surveyed top of casing in each well. The Solinst was decontaminated between wells using a LiquiNox® solution wash, followed by a distilled water rinse prior to use in each well.

Low-Flow/Low-Stress Sampling Procedures

Groundwater sampling was performed consistent with the EPA's low-flow/low-stress groundwater sampling procedure (EPA, 2010a). A bladder pump and disposable polyethylene tubing were used for purging and sampling activities. During purging activities, water quality parameters, including pH, conductivity, temperature, turbidity, ORP and DO, were measured using a Troll 9500 multi-parameter meter equipped with a flow-through cell; measurements were recorded approximately every 3 minutes. The meter calibration was verified at the beginning of each work day consistent with manufacturer recommendations prior to purging and sampling activities.

Groundwater samples were generally collected after (1) water quality parameters had stabilized or (2) a maximum purge time of 60 minutes was achieved. During purging and sampling, drawdown was not allowed to exceed 500 milliliters per minute. Water quality parameter stabilization criteria included the following:

- Turbidity: ±10 percent for values greater than 5 nephelometric turbidity units (NTU);
- DO: ±10 percent for values greater than 0.5 mg/L;
- Conductivity: ±3 percent;
- pH: ±0.1 unit;
- Temperature: ±3 percent; and

- ORP: ±10 millivolts.

After groundwater quality stabilization criteria were reached, the pump's discharge tubing was disconnected from the flow-through cell and groundwater samples were collected for analysis.

Field water quality measurements and depth-to-water measurements were recorded on a Well Purging – Field Water Quality Measurement Form. The groundwater samples were transferred in the field to laboratory-prepared sample containers and kept on ice during transport to the testing laboratory. Chain-of-custody procedures were observed from the time of sample collection to delivery to the testing laboratory.

Handling of Investigation-Derived Waste

IDW, mainly purge water, was placed in a U.S. Department of Transportation (DOT) approved 55-gallon drum. The drum was labeled with GeoEngineers' contact information, the general contents of the drum, and the date. IDW generated during the December 2014 groundwater monitoring event was placed in a drum on site.

Laboratory Analytical Plan

Groundwater samples were analyzed using the following methods:

- GRPH using Method NWTPH-Gx;
- DRPH and ORPH using Method NWTPH-Dx;
- BTEX using EPA Method 8260C;
- Arsenic using EPA Method 200.8; and
- Mercury using EPA Method 245.1.

APPENDIX B
Laboratory Reports

GeoEngineers

523 East Second Avenue, Spokane, Washington 99202, Telephone: 509.363.3125, Fax: 509.363.3126 www.geoengineers.com

Data Validation Report

Project:	Port of Chelan County – Cashmere Mill Construction Phase Services 2014 Excavation Soil Samples
GEI File No:	18593-001-04
Date:	October 26, 2014

This report documents the results of a United States EPA-defined Stage 2A data validation (EPA Document 540-R-08-005; EPA, 2009) of analytical data from the analyses of soil samples collected as part of the 2014 Excavation sampling event, and the associated laboratory and field quality control samples. The samples were obtained from the Former Cashmere Mill Site located in the general vicinity of Mill Road and Sunset Highway, about 100 feet south of the Wenatchee River and along the north bank of Brender Creek in Cashmere, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers completed the data validation consistent with the EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2008) and Inorganic Superfund Data Review (EPA, 2010b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits less than applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with Quality Assurance Project Plan (GeoEngineers, 2013b), the data validation included review of the following QC elements:

- Data package completeness
- Chain-of-custody documentation
- Holding times and sample preservation
- Surrogate recoveries
- Method blanks
- Matrix spikes/matrix spike duplicates
- Laboratory control samples/laboratory control sample duplicates
- Laboratory duplicates

- Miscellaneous

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
SXG0111	EX1-1-2, EX1-2-3, EX1-3-3, EX1-4-3, EX1-5-3, EX2-1-3, EX3-1-4
SXG0129	EX3-2-4, EX3-3-4, EX3-4-4, EX3-5-5
SXG0146	EX3-6-4, EX4-1-6, EX4-2-6, EX4-3-6, EX4-4-6
SXG0152	EX5-1-8, EX5-2-8, EX5-3-8, EX5-4-8, EX5-7-8, EX5-8-8
SXG0169	EX6-1-3, EX6-2-3, EX6-3-3, EX6-4-3, EX6-5-3, EX6-6-3
SXG0172	EX7-1-2, EX7-2-2, EX7-3-2, EX7-4-2, EX8-1-5, EX8-2-5, EX8-3-5, EX8-4-5, EX9-1-4, EX9-2-4, EX9-3-4, EX9-4-4, EX9-5-4, EX10-1-2, EX10-2-6, EX10-3-6, EX10-4-6, EX10-5-6, EX10-6-6
SXH0001	EX6-9-3, EX6-10-3, EX7-6-2, EX7-7-3, EX7-8-2, EX7-9-3, EX7-10-2, EX7-11-3, EX7-12-2, EX7-13-3, EX8-6-4
SXH0053	EX7-14-2, EX7-15-3, EX7-16-2, EX7-17-3
SXH0188	EX7-18-3.5, EX7-19-3, EX7-20-2, EX7-SP-1, EX7-SP-2, EX7-SP-3
SXH0199	EX11-1-6, EX11-2-10, EX11-3-4, EX11-4-3, EX11-5-3.25, Infiltration Pond 8/28/14
SXI0031	EX12-1-2.5, EX12-2-3, EX12-3-2, EX12-4-3, EX12-5-3, EX12-6-8, EX12-7-6
SXI0084	EX12-8-3, EX12-9-3, EX12-10-7, EX12-11-3
SXJ0095	EX13-1-3, EX13-2-3, EX13-3-3, EX13-4-3, EX13-SP-1, EX13-SP-2, EX13-SP-3

CHEMICAL ANALYSIS PERFORMED

TestAmerica, located in Spokane, Washington, performed laboratory analysis on the soil samples using one or more of the following methods:

- HCID (NWTPH-HCID) using Method NWTPH-HCID;
- GRPH (NWTPH-Gx) using Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) using Method NWTPH-Dx;
- VOCs using Method SW8260C;
- SVOCs using Method SW8270D;
- PAHs using Method SW8270D-SIM;
- Total Mercury using Method EPA7471A, EPA7471B, or EPA245.1;
- Total Arsenic using Method EPA200.8; and
- TCLP using Method EPA7471.

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

TestAmerica provided required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody forms were provided with the laboratory analytical reports. The chain-of-custody forms were accurate and complete when submitted to the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for analyses. The sample coolers arrived at the laboratory within the appropriate temperatures of between 2 and 6 degrees Celsius, with the following exceptions:

SDG SXG0129: The sample cooler temperature recorded at the laboratory was 8.9 degrees Celsius. It was determined through professional judgment that since the samples were received by the laboratory within 24 hours after the samples were collected, this temperature should not affect the sample analytical results.

SDG SXG0172: The sample cooler temperature recorded at the laboratory was 7.3 degrees Celsius. It was determined through professional judgment that since the samples were received by the laboratory within 24 hours after the samples were collected, this temperature should not affect the sample analytical results.

SDG SXH0053: The sample cooler temperature recorded at the laboratory was 14.8 degrees Celsius. It was determined through professional judgment that since the samples were received by the laboratory within 24 hours after the samples were collected, this temperature should not affect the sample analytical results.

SDG SXH0199: The sample cooler temperature recorded at the laboratory was 9.1 degrees Celsius. It was determined through professional judgment that since the samples were received by the laboratory within 24 hours after the samples were collected, this temperature should not affect the sample analytical results.

SDG SXI0031: The sample cooler temperature recorded at the laboratory was 9.8 degrees Celsius. It was determined through professional judgment that since the samples were received by the laboratory the same day they were collected, this temperature should not affect the sample analytical results.

SDG SXI0084: The sample cooler temperature recorded at the laboratory was 19.1 degrees Celsius. It was determined through professional judgment that since the samples were received by the laboratory the same day they were collected, this temperature should not affect the sample analytical results.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. Surrogate percent recoveries for field samples were within the laboratory control limits, with the following exceptions:

SDG SXG0111: (NWTPH-Gx) The percent recovery for surrogate 4-bromofluorobenzene was greater than the control limits in Samples EX1-2-3 and EX1-3-3. The positive results for gasoline-range hydrocarbons were qualified as estimated (J) in these samples.

(NWTPH-Dx) The percent recovery for surrogate o-terphenyl was greater than the control limits in Sample EX1-2-3. The sample required dilution (100X). The surrogates are added to the sample when it is extracted. If the sample is diluted 10X or more, accurate recovery of the surrogates is often not possible because it is also diluted below the linear calibration range of the instrument. No action was required for this outlier.

(VOCs) The percent recovery for surrogate 4-bromofluorobenzene was greater than the control limits in Sample EX1-3-3; however, the sample was spiked with three additional surrogates, all within their respective control limits. No action was required for this outlier.

(SVOCs) The percent recoveries for surrogates nitrobenzene-d5 and terphenyl-d14 were greater than the control limits in Sample EX1-3-3. The positive results for 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were qualified as estimated (J) in this sample.

Additionally, the percent recovery for surrogate 2-fluorophenol was greater than the control limits in Sample EX1-3-3; however, the sample was spiked with a total of three acidic surrogates. In this case, there were at least two other surrogates that exhibited percent recovery values that were within their respective control limits. No action was required for this outlier.

The percent recoveries for surrogates nitrobenzene-d5 and terphenyl-d14 were greater than the control limits in Sample EX2-1-3. There were no positive results in this sample; therefore, no action was required for this outlier.

SDG SXG0152: (NWTPH-Gx) The percent recovery for surrogate 4-bromofluorobenzene was greater than the control limits in Sample EX5-4-8. The positive result for gasoline-range hydrocarbons was qualified as estimated (J) in this sample.

(VOCs) The percent recovery for surrogate 4-bromofluorobenzene was greater than the control limits in Sample EX5-4-8; however, the sample was spiked with three additional surrogates, all within their respective control limits. No action was required for this outlier.

SDG SXG0169: (NWTPH-Dx) The percent recovery for surrogate n-triacontane-d62 was greater than the control limits in Sample EX6-2-3. The positive results for diesel- and heavy oil-range hydrocarbons were qualified as estimated (J) in this sample.

Additionally, the percent recovery for surrogate n-triacontane-d62 was not recoverable in Sample EX6-6-3. The sample required dilution (50X). The surrogates are added to the sample when it is extracted. If the sample is diluted 10X or more, recovery of the surrogates is often not possible because it is also diluted below the linear calibration range of the instrument. No action was required for this outlier.

(SVOCs) The percent recovery for surrogate 2-fluorobiphenyl was greater than the control limits in Sample EX6-6-3; however, the sample was spiked with a total of three base-neutral surrogates. In this case, there were at least two other surrogates that exhibited percent recovery values that were within their respective control limits. No action was required for this outlier.

SDG SXH0199: (NWTPH-Dx) The percent recoveries for surrogates o-terphenyl and n-triacontane-d52 were less than the control limits in Sample EX11-5-3.25. The sample required dilution (10X). The surrogates are added to the sample when it is extracted. If the sample is diluted 10X or more, accurate recovery of the surrogates is often not possible because it is also diluted below the linear calibration range of the instrument. No action was required for this outlier.

SDG SXI0031: (VOCs) The percent recovery for surrogate 4-bromofluorobenzene was greater than the control limits in Sample EX12-1-2.5; however, the sample was spiked with three additional surrogates, all within their respective control limits. No action was required for this outlier.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency. None of the analytes of interest were detected greater than the reporting limits in any of the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if any element percent recoveries were outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75 to 125 percent.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for analyses and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG SXG0169: (SVOCs) The laboratory performed an MS/MSD sample set on Sample EX6-6-3. The percent recoveries for bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, 2-chloronaphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, hexachloroethane, naphthalene, 2-nitroaniline, nitrobenzene, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol were greater than the control limits in the MS/MSD sample set extracted on July 25, 2014. There were no positive results for these target analytes in the associated field sample; therefore, no action was required for these outliers.

Additionally, in the same MS/MSD sample set, the percent recoveries for acenaphthene, benzo(b)fluoranthene, 2-chlorophenol, dimethyl phthalate, hexachlorobutadiene, 2-nitrophenol, bis(2-chloroisopropyl)ether, and 1,2,4-trichlorobenzene were greater than the control limits in the MSD. The percent recoveries for these target analytes were within the control limits in the corresponding MS; therefore, no action was required for these outliers.

SDG SXG0172: (Mercury) The laboratory performed an MS/MSD sample set on Sample EX7-1-2. The percent recovery for total mercury was outside the control limits in the MS/MSD sample set extracted on July 29, 2014. The parent sample concentration for this target analyte was greater than 4 times the amount spiked into the sample; therefore, no qualification of the data was required.

SDG SXH0053: (Mercury) The laboratory performed an MS/MSD sample set with percent recovery and RPD outliers; however, it was performed on a sample that was associated with another client of the laboratory and not any of the project samples collected by GeoEngineers. For this reason, no action was required for these outliers.

SDG SXH0188: (Mercury) The laboratory performed an MS/MSD sample set on Sample EX7-18-3.5. The percent recoveries for total mercury were outside the control limits in the MS/MSD sample set extracted on September 2, 2014. The positive result for this target analyte was qualified as estimated (J) in this sample.

Additionally, the laboratory performed an MS/MSD sample set on Sample EX7-SP-1. The percent recoveries for total mercury were outside the control limits in the MS/MSD sample set extracted on September 2, 2014. The parent sample concentration for this target analyte was greater than 4 times the amount spiked into the sample; therefore, no qualification of the data was required.

SDG SXH0199: (SVOCs) The laboratory performed an MS/MSD sample set on Sample EX11-5-3.25. The percent recovery for hexachloroethane was less than the control limits in the MS extracted on September 4, 2014. The percent recovery for this target analyte was within the control limits in the corresponding MSD. No action was required for this outlier.

Also, the percent recoveries for hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were less than the control limits in the same MS/MSD sample set. The reporting limits for these target analytes were qualified as estimated (UJ) in Sample EX11-5-3.25.

Additionally, in the same MS/MSD sample set, the percent recoveries for 4-nitroaniline and carbazole were greater than the control limits in both the MS and MSD. There were no positive results for these target analytes in the associated field sample; therefore, no action was required for these outliers.

SDG SXI0031: (SVOCs) The laboratory performed an MS/MSD sample set on Sample EX12-4-3. The percent recovery for diethyl phthalate was less than the control limits in the MSD extracted on September 9, 2014. The percent recovery for this target analyte was within the control limits in the corresponding MS. No action was required for this outlier.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/laboratory control sample duplicate (LCSD) control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for analyses and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG SXG0111: (SVOCs) The percent recoveries for 2-chloronaphthalene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, naphthalene, phenol, and 2,4,5-trichlorophenol were greater than the control limits in the LCS extracted on July 18, 2014. The percent recoveries for these target analytes were within the control limits in the corresponding LCSD. No action was required for these outliers.

Additionally, the percent recovery for 2,4-dinitrophenol was greater than the control limits in the LCSD extracted on July 18, 2014. The percent recovery for this target analyte was within the control limits in the corresponding LCS. The RPD was greater than the control limits in this LCS/LCSD sample set. There were no positive results for this target analyte in the associated field samples; therefore, no action was required for this outlier.

SDG SXG0129: (SVOCs) The percent recoveries for 2-chloronaphthalene, 1,2-dichlorobenzene, and 1,3-dichlorobenzene were greater than the control limits in the LCS extracted on July 21, 2014. The percent recoveries for these target analytes were within the control limits in the corresponding LCSD. No action was required for these outliers.

Also, in the same LCS/LCSD sample set, the percent recovery for 3,3'-dichlorobenzidine was greater than the control limits in both the LCS and LCSD. There were no positive results for this target analyte in the associated field samples; therefore, no action was required for this outlier.

SDG SXG0169: (SVOCs) The percent recoveries for hexachlorocyclopentadiene, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol were greater than the control limits in the LCS extracted on July 25, 2014. There were no positive results for these target analytes in the associated field samples; therefore, no action was required for these outliers.

SDG SXH0199: (SVOCs) The percent recoveries for 2-nitrophenol were less than the control limits in the LCS/LCSD sample set extracted on September 4, 2014. The reporting limit for this target analyte was qualified as estimated (UJ) in Sample EX11-5-3.25. Also, the percent recoveries for 4-nitroaniline were

greater than the control limits in the same LCS/LCSD sample set. There were no positive results for this target analyte in the associated field sample; therefore, no action was required for this outlier.

Additionally, in the same LCS/LCSD sample set, the RPD values for 2,4-dinitrophenol and pentachlorophenol were greater than the control limit. There were no positive results for these target analytes in the associated field sample; therefore, no action was required for these outliers.

Lastly, the percent recovery for benzo(a)anthracene was less than the control limits in the LCSD extracted on September 4, 2014. The percent recovery for this target analyte was within the control limits in the corresponding LCS. No action was required for this outlier.

SDG SXI0031: (SVOCs) The percent recoveries for diethyl phthalate were less than the control limits in the LCS/LCSD sample set extracted on September 9, 2014. The reporting limit for this target analyte was qualified as estimated (UJ) in Sample EX12-4-3.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for soil samples is 35 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exceptions:

SDG SXH0188: (Mercury) A laboratory duplicate analysis was performed on Sample EX7-18-3.5. The RPD for total mercury was greater than the control limit. The positive result for this target analyte was qualified as estimated (J) in this sample.

SDG SXH0199: (NWTPH-Dx) A laboratory duplicate analysis was performed with an RPD that exceeded the control limit. This sample was associated with another client of the laboratory and not any of the project samples collected by GeoEngineers. For this reason, no action was required for this outlier.

Miscellaneous

SDG SXH0199: (NWTPH-Dx) For Sample EX11-3-4, the laboratory flagged the diesel- and heavy oil-range hydrocarbons results with "Q9," indicating that the hydrocarbon pattern most closely resembles biogenic interference. For this reason, the positive results for diesel- and heavy oil-range hydrocarbons were qualified as estimated (J) in Sample EX11-3-4, in order to signify a potential high bias.

For Sample EX11-5-3.25, the laboratory flagged the diesel-range hydrocarbons result with "Q6," indicating that the diesel-range hydrocarbons result was being influenced by the relative concentration of heavy oil-range hydrocarbons in the sample. For this reason, the positive result for diesel-range hydrocarbons was qualified as estimated (J) in Sample EX11-5-3.25, in order to signify a potential high bias.

SDG SXI0031: (NWTPH-Dx) For Samples EX12-2-3, EX12-3-2, EX12-5-3, and EX12-6-8, the laboratory flagged the diesel-range hydrocarbons results with "Q6," indicating that the diesel-range hydrocarbons

results were being influenced by the relative concentration of heavy oil-range hydrocarbons in the samples. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in these samples, in order to signify a potential high bias.

SDG SXI0084: (NWTPH-Dx) For Samples EX12-10-7 and EX12-11-3, the laboratory flagged the diesel-range hydrocarbons results with "Q6," indicating that the diesel-range hydrocarbons results were being influenced by the relative concentration of heavy oil-range hydrocarbons in the samples. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in these samples, in order to signify a potential high bias.

SDG SXJ0095: (NWTPH-Dx) For Samples EX13-1-3, EX13-2-3, EX13-4-3, and EX13-SP-1 the laboratory flagged the diesel-range hydrocarbons result with "Q6," indicating that the diesel-range hydrocarbons result was being influenced by the relative concentration of heavy oil-range hydrocarbons in the sample. For this reason, the positive results for diesel-range hydrocarbons were qualified as estimated (J) in Samples EX13-1-3, EX13-2-3, EX13-4-3, and EX13-SP-1, in order to signify a potential high bias.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values.

All data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier
EX1-2-3	Gasoline-range hydrocarbons	J
EX1-3-3	Gasoline-range hydrocarbons 1-methylnaphthalene 2-methylnaphthalene Naphthalene	J J J J
EX5-4-8	Gasoline-range hydrocarbons	J
EX6-2-3	Diesel-range hydrocarbons Heavy oil-range hydrocarbons	J J
EX7-18-3.5	Mercury	J
EX11-3-4	Diesel-range hydrocarbons Heavy oil-range hydrocarbons	J J

Sample ID	Analyte	Qualifier
EX11-5-3.25	2-nitrophenol	UJ
	2,4-dinitrophenol	UJ
	4,6-dinitro-2-methylphenol	UJ
	Indeno(1,2,3-cd)pyrene	UJ
	Dibenzo(a,h)anthracene	UJ
	Benzo(g,h,i)perylene	UJ
	Hexachlorocyclopentadiene	UJ
	Diesel-range hydrocarbons	J
EX12-2-3	Diesel-range hydrocarbons	J
EX12-3-2	Diesel-range hydrocarbons	J
EX12-4-3	Diethyl phthalate	UJ
EX12-5-3	Diesel-range hydrocarbons	J
EX12-6-8	Diesel-range hydrocarbons	J
EX12-10-7	Diesel-range hydrocarbons	J
EX12-11-3	Diesel-range hydrocarbons	J
EX13-1-3	Diesel-range hydrocarbons	J
EX13-2-3	Diesel-range hydrocarbons	J
EX13-4-3	Diesel-range hydrocarbons	J
EX13-SP-1	Diesel-range hydrocarbons	J

Project:	Port of Chelan County – Cashmere Mill Construction Phase Services 2014 Imported Fill Material
GEI File No:	18593-001-04
Date:	September 29, 2014

This report documents the results of a United States EPA-defined Stage 2A data validation (EPA Document 540-R-08-005; EPA, 2009) of analytical data from the analyses of soil samples collected as part of the 2014 Imported Fill Material sampling event, and the associated laboratory and field QC samples. The samples were obtained from the Former Cashmere Mill Site located in the general vicinity of Mill Road and Sunset Highway, about 100 feet south of the Wenatchee River and along the north bank of Brender Creek in Cashmere, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers completed the data validation consistent with the EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2008) and Inorganic Superfund Data Review (EPA, 2010b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits less than applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The QA/QC procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with Quality Assurance Project Plan (GeoEngineers, 2013b), the data validation included review of the following QC elements:

- Data package completeness
- Chain-of-custody documentation
- Holding times and sample preservation
- Surrogate recoveries
- Method and trip blanks
- Matrix spikes/matrix spike duplicates
- Laboratory control samples/laboratory control sample duplicates
- Laboratory duplicates
- Miscellaneous

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the SDGs listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
SXG0084	Westside, Eastside (collected on 7/11/2014)
SXH0010	Northside, Southside, Eastside, Westside (collected on 7/31/2014)
YH76	WM-1, WM-2, WM-3, WM-4, WM-5, WM-6, WM-7, TRIP BLANK

CHEMICAL ANALYSIS PERFORMED

TestAmerica, located in Spokane, Washington, performed laboratory analysis on the soil samples (SDGs SXG0084 and SXH0010) using the following methods:

- VOCs using Method SW8260C;
- SVOCs using Method SW8270D;
- Organochlorine Pesticides using Method SW8081B; and
- Total Metals by Method EPA6010C

ARI, located in Tukwila, Washington, performed laboratory analysis on the soil samples (SDG YH76) using the following methods:

- VOCs using Method SW8260C;
- SVOCs using Method SW8270D;
- Organochlorine Pesticides using Method SW8081; and
- Total Metals using Method EPA200.8

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

TestAmerica and ARI provided required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody forms were provided with the laboratory analytical reports. The chain-of-custody forms were accurate and complete when submitted to the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for analyses. The sample coolers arrived at the laboratory within the appropriate temperatures of between 2 and 6 degrees Celsius.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. Surrogate percent recoveries for field samples were within the laboratory control limits, with the following exceptions:

SDG SXH0010: (SVOCs) The percent recovery for surrogate 2-fluorophenol was greater than the control limits in Sample Southside; however, the sample was spiked with a total of three acidic surrogates. In this case, there were at least two other surrogates that exhibited percent recovery values that were within their respective control limits. No action was required for this outlier.

Additionally, the percent recoveries for surrogates nitrobenzene-d5 and 2-fluorobiphenyl were greater than the control limits in Sample Southside. There were no positive results in this sample; therefore, no action was required for these outliers.

The percent recovery for surrogate 2-fluorobiphenyl was greater than the control limits in Sample Eastside; however, the sample was spiked with a total of three base-neutral surrogates. In this case, there were at least two other surrogates that exhibited percent recovery values that were within their respective control limits. No action was required for this outlier.

Method and Trip Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For all sample batches, method blanks for applicable methods were analyzed at the required frequency. None of the analytes of interest were detected greater than the reporting limits in any of the method blanks.

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected greater than the reporting limits in the trip blank.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a MS analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From

these analyses, a percent recovery is calculated. MSD analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the RPD is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if any element percent recoveries were outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75 to 125 percent.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for analyses and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG SXG0084: (Pesticides) The laboratory performed an MS/MSD sample set with percent recoveries for alpha-BHC greater than the control limits in both the MS and MSD, extracted on July 25, 2014. This MS/MSD sample set was performed on a sample that was associated with another client of the laboratory and not any of the project samples. For this reason, no action was required for this outlier.

SDG YH76: (SVOCs) The laboratory performed an MS/MSD sample set on Sample WM-2. The RPD value for benzyl alcohol was greater than the control limit in the MS/MSD sample set extracted on April 25, 2014. There were no positive results for this target analyte in the associated field sample; therefore, no action was required for this outlier.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A LCS is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for analyses and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG SXH0010: (SVOCs) The percent recoveries for 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, dibenzofuran, diethyl phthalate, 2,6-dinitrotoluene, phenanthrene, phenol, and pyrene were greater than the control limits in the LCS extracted on August 13, 2014. The percent recoveries for these target analytes were within the control limits in the corresponding LCSD. No action was required for these outliers.

Additionally, in the same LCS/LCSD sample set, the percent recoveries for acenaphthene, acenaphthylene, bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, 2-chloronaphthalene, 2-chlorophenol, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2,4-dichlorophenol, fluorene, hexachlorobutadiene, hexachloroethane, 2-methylnaphthalene, naphthalene, nitrobenzene, 2-nitrophenol, 1,24-trichlorobenzene, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol were greater than

the control limits in both the LCS and LCSD. There were no positive results for these target analytes in the associated field samples; therefore, no action was required for these outliers.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for soil samples is 35 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Miscellaneous

SDG YH76: (VOCs) The laboratory reported two sets of results for Sample WM-6, an initial analysis and a re-analysis, because of internal standard recovery. The re-analysis results were labeled as do-not-report and should not be used for any purpose.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values.

No analytical results were qualified. All data are acceptable for the intended use.

Project:	Port of Chelan County – Cashmere Mill Construction Phase Services December 2014 Groundwater Samples
GEI File No:	18593-001-04
Date:	January 6, 2015

This report documents the results of a United States EPA-defined Stage 2A data validation (EPA Document 540-R-08-005; EPA, 2009) of analytical data from the analyses of groundwater samples collected as part of the December 2014 sampling event, and the associated laboratory and field QC samples. The samples were obtained from the Former Cashmere Mill Site located in the general vicinity of Mill Road and Sunset Highway, about 100 feet south of the Wenatchee River and along the north bank of Brender Creek in Cashmere, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers completed the data validation consistent with the EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2008) and Inorganic Superfund Data Review (EPA, 2010b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits less than applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The QA/QC procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with Quality Assurance Project Plan (GeoEngineers, 2013b), the data validation included review of the following QC elements:

- Data package completeness
- Chain-of-custody documentation
- Holding times and sample preservation
- Surrogate recoveries
- Method blanks
- Matrix spikes/matrix spike duplicates
- Laboratory control samples
- Laboratory and field duplicates

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the SDG listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
SXL0021	B-1-12314, MW-1-12214, MW-2-12314, MW-3-12314, MW-Dup-12314, MW-4-12214, MW-5-12214, MW-6-12214, MW-7-12314, MW-8-12314, MW-9-12314, OW-1-12314

CHEMICAL ANALYSIS PERFORMED

TestAmerica, located in Spokane, Washington, performed laboratory analysis on the groundwater samples using the following methods:

- GRPH (NWTPH-Gx) using Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) using Method NWTPH-Dx;
- BTEX using Method SW8260C;
- Total Arsenic using Method EPA200.8; and
- Total Mercury using Method EPA245.1

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

TestAmerica provided required deliverables for the data validation according to the National Functional Guidelines. The laboratory appears to have followed adequate corrective action processes; however, the laboratory analytical report does not contain a case narrative.

Chain-of-Custody Documentation

Chain-of-custody forms were provided with the laboratory analytical reports. The chain-of-custody forms were accurate and complete when submitted to the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for analyses. The sample cooler arrived at the laboratory within the appropriate temperatures of between 2 and 6 degrees Celsius.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. Surrogate percent recoveries for field samples were within the laboratory control limits.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For sample batches, method blanks for applicable methods were analyzed at the required frequency. None of the analytes of interest were detected greater than the reporting limits in any of the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a MS analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. MSD analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the RPD is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if any element percent recoveries were outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75 to 125 percent.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for analyses and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples

A LCS is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS control limits for accuracy are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS analyses are specified in the laboratory documents.

One LCS analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

In order to assess precision, field duplicate samples are collected and analyzed along with the reviewed sample batches. The duplicate samples are analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 20 percent.

SDG SXH0069: One field duplicate sample pair, MW-3-12314 and MW-Dup-12314, was submitted with this SDG. The precision criteria for target analytes were met for this sample pair.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the MS/MSD and laboratory/field duplicate RPD values.

No analytical results were qualified. Data are acceptable for the intended use.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXG0111
Client Project/Site: 18593-001-04
Client Project Description: Cashmere Mill

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
7/30/2014 11:46:23 AM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Definitions 5
Client Sample Results 6
QC Sample Results 16
Chronicle 27
Certification Summary 30
Method Summary 31
Chain of Custody 32

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Job ID: SXG0111

Laboratory: TestAmerica St. Louis

Narrative

Job Narrative
160-7525-1

Receipt
The samples were received on 7/18/2014 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC/MS Semi VOA
Method(s) 8270D:

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 132657 recovered outside control limits for 2,4-Dinitrophenol. (LCS 160-132459/2-A), (LCSD 160-132459/3-A). The spike recoveries for this analyte are within QC limits, therefore the data was not affected.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 132459 recovered outside upper control limits. These analytes were biased high in the LCS and were not detected in the associated samples >RL except for Naphthalene in 160-7525-1. Due to the level of matrix in the client samples, they will not be re-extracted for this analyte; therefore, the data have been reported. (LCS 160-132459/2-A), (LCSD 160-132459/3-A), SXG0111-03 (EX1-3-3 - Soil) (160-7525-1), SXG0111-06 (EX2-1-3 - Soil) (160-7525-2)

Internal standard responses were outside of acceptance limits for the following samples: SXG0111-03 (EX1-3-3 - Soil) (160-7525-1), SXG0111-06 (EX2-1-3 - Soil) (160-7525-2). The samples show evidence of matrix interference.

Surrogate recoveries for the following samples were outside control limits: SXG0111-03 (EX1-3-3 - Soil) (160-7525-1), SXG0111-06 (EX2-1-3 - Soil) (160-7525-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3550C: 3550 8270 132459
Due to sample matrix, and analyst request an MS/MSD was not performed. An LCS/LCSD was performed to demonstrate accuracy and replicate precision. SXG0111-03 (EX1-3-3 - Soil) (160-7525-1), SXG0111-06 (EX2-1-3 - Soil) (160-7525-2)

Due to the dark matrices, which smelled like fuel, the initial volume used for the following samples deviated from the standard procedure: SXG0111-03 (EX1-3-3 - Soil) (160-7525-1), SXG0111-06 (EX2-1-3 - Soil) (160-7525-2). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXG0111-01	EX1-1-2	Soil	07/16/14 08:00	07/17/14 10:30
SXG0111-02	EX1-2-3	Soil	07/16/14 08:10	07/17/14 10:30
SXG0111-03	EX1-3-3	Soil	07/16/14 08:20	07/17/14 10:30
SXG0111-04	EX1-4-3	Soil	07/16/14 08:30	07/17/14 10:30
SXG0111-05	EX1-5-3	Soil	07/16/14 08:40	07/17/14 10:30
SXG0111-06	EX2-1-3	Soil	07/16/14 08:50	07/17/14 10:30
SXG0111-07	EX3-1-4	Soil	07/16/14 14:20	07/17/14 10:30

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits

Fuels

Qualifier	Qualifier Description
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: EX1-1-2

Lab Sample ID: SXG0111-01

Date Collected: 07/16/14 08:00
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 80.3

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.63		mg/kg dry	☼	07/17/14 07:29	07/17/14 13:38	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*103*		*41.5 - 162*	*07/17/14 07:29*	*07/17/14 13:38*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**59.0**		11.1		mg/kg dry	☼	07/17/14 13:47	07/19/14 08:00	1.00
Heavy Oil Range Hydrocarbons	**265**		27.8		mg/kg dry	☼	07/17/14 13:47	07/19/14 08:00	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92.1*		*50 - 150*	*07/17/14 13:47*	*07/19/14 08:00*	*1.00*
n-Triacontane-d62	*92.8*		*50 - 150*	*07/17/14 13:47*	*07/19/14 08:00*	*1.00*

Client Sample ID: EX1-2-3

Lab Sample ID: SXG0111-02

Date Collected: 07/16/14 08:10
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 92.3

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**201**		4.67		mg/kg dry	☼	07/17/14 07:29	07/17/14 14:01	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*360*	*ZX*	*41.5 - 162*	*07/17/14 07:29*	*07/17/14 14:01*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**15100**		2730		mg/kg dry	☼	07/17/14 13:47	07/19/14 08:23	100
Heavy Oil Range Hydrocarbons	**41200**		6830		mg/kg dry	☼	07/17/14 13:47	07/19/14 08:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*200*	*Z3*	*50 - 150*	*07/17/14 13:47*	*07/19/14 08:23*	*100*
n-Triacontane-d62	*90.5*		*50 - 150*	*07/17/14 13:47*	*07/19/14 08:23*	*100*

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**130**		120		mg/kg dry	☼	07/29/14 15:09	07/29/14 17:37	1.0
Diesel Range Hydrocarbons	**7300**		290		mg/kg dry	☼	07/29/14 15:09	07/29/14 17:37	1.0
Heavy Oil Range Hydrocarbons	**20000**		290		mg/kg dry	☼	07/29/14 15:09	07/29/14 17:37	1.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*97.1*		*50 - 150*	*07/29/14 15:09*	*07/29/14 17:37*	*1.0*
2-FBP	*100*		*50 - 150*	*07/29/14 15:09*	*07/29/14 17:37*	*1.0*
p-Terphenyl-d14	*104*		*50 - 150*	*07/29/14 15:09*	*07/29/14 17:37*	*1.0*

Client Sample ID: EX1-3-3

Lab Sample ID: SXG0111-03

Date Collected: 07/16/14 08:20
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 60

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.185	0.0172	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Client Sample ID: EX1-3-3
Date Collected: 07/16/14 08:20
Date Received: 07/17/14 10:30

Lab Sample ID: SXG0111-03
Matrix: Soil
Percent Solids: 60

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.927	0.00982	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Vinyl chloride	ND		0.111	0.0115	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Bromomethane	ND		0.927	0.0567	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Chloroethane	ND		0.185	0.0454	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Trichlorofluoromethane	ND		0.0556	0.0146	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,1-Dichloroethene	ND		0.185	0.0235	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Carbon disulfide	ND		0.185	0.0198	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Methylene chloride	ND		0.0371	0.00964	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Acetone	**0.359**	**J**	5.56	0.161	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
trans-1,2-Dichloroethene	ND		0.185	0.0191	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Methyl tert-butyl ether	ND		0.0927	0.00593	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,1-Dichloroethane	ND		0.185	0.0209	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
cis-1,2-Dichloroethene	ND		0.185	0.0106	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
2,2-Dichloropropane	ND		0.185	0.0315	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Bromochloromethane	ND		0.185	0.00723	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Chloroform	ND		0.185	0.0143	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Carbon tetrachloride	ND		0.185	0.0386	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,1,1-Trichloroethane	ND		0.185	0.0321	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
2-Butanone	ND		1.85	0.204	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Hexane	ND		0.185	0.0150	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,1-Dichloropropene	ND		0.185	0.0323	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Benzene	ND		0.0278	0.0180	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2-Dichloroethane (EDC)	ND		0.185	0.00908	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Trichloroethene	ND		0.0463	0.0237	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Dibromomethane	ND		0.185	0.0169	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2-Dichloropropane	ND		0.185	0.0111	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Bromodichloromethane	ND		0.185	0.0130	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
cis-1,3-Dichloropropene	ND		0.185	0.0115	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Toluene	**0.130**	**J**	0.185	0.0247	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
4-Methyl-2-pentanone	**0.805**	**J**	1.85	0.0378	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
trans-1,3-Dichloropropene	ND		0.185	0.0122	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Tetrachloroethene	ND		0.0742	0.0326	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,1,2-Trichloroethane	ND		0.185	0.0115	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Dibromochloromethane	ND		0.185	0.0111	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,3-Dichloropropane	ND		0.185	0.0137	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2-Dibromoethane	ND		0.0185	0.0108	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
2-Hexanone	ND		1.85	0.0862	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Ethylbenzene	**0.0612**	**J**	0.185	0.0300	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Chlorobenzene	**0.469**		0.185	0.0141	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,1,1,2-Tetrachloroethane	ND		0.185	0.0189	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
m,p-Xylene	**0.711**	**J**	0.742	0.0315	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
o-Xylene	**0.182**	**J**	0.371	0.0243	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Styrene	ND		0.185	0.0172	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Bromoform	ND		0.185	0.0232	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Isopropylbenzene	**0.359**		0.185	0.0352	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
n-Propylbenzene	ND		0.185	0.0384	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,1,2,2-Tetrachloroethane	ND		0.185	0.0139	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Bromobenzene	ND		0.185	0.0174	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,3,5-Trimethylbenzene	**3.19**		0.185	0.0345	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00

Client Sample ID: EX1-3-3
Date Collected: 07/16/14 08:20
Date Received: 07/17/14 10:30

Lab Sample ID: SXG0111-03
Matrix: Soil
Percent Solids: 60

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		0.185	0.0302	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2,3-Trichloropropane	ND		0.185	0.0156	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
4-Chlorotoluene	ND		0.185	0.0265	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
tert-Butylbenzene	ND		0.185	0.0400	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2,4-Trimethylbenzene	**8.44**		0.185	0.0269	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
sec-Butylbenzene	**1.37**		0.185	0.0436	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
p-Isopropyltoluene	**3.29**		0.185	0.0443	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,3-Dichlorobenzene	ND		0.185	0.0234	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,4-Dichlorobenzene	ND		0.185	0.0196	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
n-Butylbenzene	**1.51**		0.185	0.0510	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2-Dichlorobenzene	ND		0.185	0.0141	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2-Dibromo-3-chloropropane	ND		0.927	0.0526	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Hexachlorobutadiene	ND		0.185	0.106	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2,4-Trichlorobenzene	ND		0.185	0.0369	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
Naphthalene	**2.64**		0.371	0.0252	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00
1,2,3-Trichlorobenzene	ND		0.185	0.0658	mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.1*		*42.4 - 163*	*07/17/14 07:29*	*07/17/14 14:23*	*1.00*
1,2-dichloroethane-d4	*94.7*		*50 - 150*	*07/17/14 07:29*	*07/17/14 14:23*	*1.00*
Toluene-d8	*94.6*		*45.8 - 155*	*07/17/14 07:29*	*07/17/14 14:23*	*1.00*
4-bromofluorobenzene	*442*	*ZX*	*41.5 - 162*	*07/17/14 07:29*	*07/17/14 14:23*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**665**		9.27		mg/kg dry	☼	07/17/14 07:29	07/17/14 14:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*442*	*ZX*	*41.5 - 162*	*07/17/14 07:29*	*07/17/14 14:23*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Acenaphthylene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Anthracene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Benzo[a]anthracene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Benzo[b]fluoranthene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Benzo[k]fluoranthene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Benzo[g,h,i]perylene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Benzo[a]pyrene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Bis(2-chloroethoxy)methane	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Bis(2-chloroethyl)ether	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Bis(2-ethylhexyl) phthalate	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
4-Bromophenyl phenyl ether	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Butyl benzyl phthalate	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Carbazole	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
4-Chloroaniline	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
4-Chloro-3-methylphenol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2-Chloronaphthalene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2-Chlorophenol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Client Sample ID: EX1-3-3
Date Collected: 07/16/14 08:20
Date Received: 07/17/14 10:30

Lab Sample ID: SXG0111-03
Matrix: Soil
Percent Solids: 64.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Chrysene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Dibenz(a,h)anthracene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Dibenzofuran	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Di-n-butyl phthalate	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
1,2-Dichlorobenzene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
1,3-Dichlorobenzene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
1,4-Dichlorobenzene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
3,3'-Dichlorobenzidine	ND	*	7.3		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2,4-Dichlorophenol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Diethyl phthalate	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2,4-Dimethylphenol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Dimethyl phthalate	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
4,6-Dinitro-2-methylphenol	ND		7.3		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2,4-Dinitrophenol	ND	*	7.3		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2,4-Dinitrotoluene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2,6-Dinitrotoluene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Di-n-octyl phthalate	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Fluoranthene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Fluorene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Hexachlorobenzene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Hexachlorobutadiene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Hexachlorocyclopentadiene	ND		7.3		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Hexachloroethane	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Indeno[1,2,3-cd]pyrene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Isophorone	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2-Methylnaphthalene	**8.5**		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2-Methylphenol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
3 & 4 Methylphenol	ND		3.0		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Naphthalene	**3.0**	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2-Nitroaniline	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
3-Nitroaniline	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
4-Nitroaniline	ND		7.3		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Nitrobenzene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2-Nitrophenol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
4-Nitrophenol	ND		7.3		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
N-Nitrosodiphenylamine	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
N-Nitrosodi-n-propylamine	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
bis (2-chloroisopropyl) ether	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Pentachlorophenol	ND		3.0		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Phenanthrene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Phenol	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Pyrene	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
1,2,4-Trichlorobenzene	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2,4,5-Trichlorophenol	ND	*	1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
2,4,6-Trichlorophenol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Aniline	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
1,4-Dioxane	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1
Benzyl alcohol	ND		1.5		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1

Client Sample ID: EX1-3-3

Lab Sample ID: SXG0111-03

Date Collected: 07/16/14 08:20

Matrix: Soil

Date Received: 07/17/14 10:30

Percent Solids: 64.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		3.0		mg/Kg	☼	07/18/14 13:09	07/21/14 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*100*	*X*	*53 - 97*	*07/18/14 13:09*	*07/21/14 11:55*	*1*
2,4,6-Tribromophenol (Surr)	*104*		*46 - 111*	*07/18/14 13:09*	*07/21/14 11:55*	*1*
Nitrobenzene-d5 (Surr)	*117*	*X*	*55 - 98*	*07/18/14 13:09*	*07/21/14 11:55*	*1*
Phenol-d5 (Surr)	*98*		*54 - 101*	*07/18/14 13:09*	*07/21/14 11:55*	*1*
Terphenyl-d14 (Surr)	*130*	** X*	*58 - 123*	*07/18/14 13:09*	*07/21/14 11:55*	*1*
2-Fluorobiphenyl (Surr)	*94*		*56 - 97*	*07/18/14 13:09*	*07/21/14 11:55*	*1*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**5950**		576		mg/kg dry	☼	07/17/14 13:47	07/19/14 08:46	25.0
Heavy Oil Range Hydrocarbons	**11800**		1440		mg/kg dry	☼	07/17/14 13:47	07/19/14 08:46	25.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*121*		*50 - 150*	*07/17/14 13:47*	*07/19/14 08:46*	*25.0*
n-Triacontane-d62	*92.0*		*50 - 150*	*07/17/14 13:47*	*07/19/14 08:46*	*25.0*

Client Sample ID: EX1-4-3

Lab Sample ID: SXG0111-04

Date Collected: 07/16/14 08:30

Matrix: Soil

Date Received: 07/17/14 10:30

Percent Solids: 66.1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		9.62		mg/kg dry	☼	07/17/14 07:29	07/17/14 16:39	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*105*		*41.5 - 162*	*07/17/14 07:29*	*07/17/14 16:39*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**41.1**		14.3		mg/kg dry	☼	07/17/14 13:47	07/19/14 09:09	1.00
Heavy Oil Range Hydrocarbons	**142**		35.8		mg/kg dry	☼	07/17/14 13:47	07/19/14 09:09	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92.3*		*50 - 150*	*07/17/14 13:47*	*07/19/14 09:09*	*1.00*
n-Triacontane-d62	*98.5*		*50 - 150*	*07/17/14 13:47*	*07/19/14 09:09*	*1.00*

Client Sample ID: EX1-5-3

Lab Sample ID: SXG0111-05

Date Collected: 07/16/14 08:40

Matrix: Soil

Date Received: 07/17/14 10:30

Percent Solids: 80.4

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.70		mg/kg dry	☼	07/17/14 07:29	07/17/14 17:47	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*106*		*41.5 - 162*	*07/17/14 07:29*	*07/17/14 15:08*	*1.00*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Client Sample ID: EX1-5-3

Lab Sample ID: SXG0111-05

Date Collected: 07/16/14 08:40
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 80.4

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	38.5		11.1		mg/kg dry	☼	07/17/14 13:47	07/19/14 09:33	1.00
Heavy Oil Range Hydrocarbons	168		27.8		mg/kg dry	☼	07/17/14 13:47	07/19/14 09:33	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94.2*		*50 - 150*	*07/17/14 13:47*	*07/19/14 09:33*	*1.00*
n-Triacontane-d62	*95.5*		*50 - 150*	*07/17/14 13:47*	*07/19/14 09:33*	*1.00*

Client Sample ID: EX2-1-3

Lab Sample ID: SXG0111-06

Date Collected: 07/16/14 08:50
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 43.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.304	0.0283	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Chloromethane	ND		1.52	0.0161	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Vinyl chloride	ND		0.182	0.0188	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Bromomethane	ND		1.52	0.0930	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Chloroethane	ND		0.304	0.0745	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Trichlorofluoromethane	ND		0.0912	0.0240	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,1-Dichloroethene	ND		0.304	0.0386	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Carbon disulfide	ND		0.304	0.0325	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Methylene chloride	ND		0.0608	0.0158	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Acetone	ND		9.12	0.264	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
trans-1,2-Dichloroethene	ND		0.304	0.0313	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Methyl tert-butyl ether	ND		0.152	0.00973	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,1-Dichloroethane	ND		0.304	0.0343	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
cis-1,2-Dichloroethene	ND		0.304	0.0173	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
2,2-Dichloropropane	ND		0.304	0.0517	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Bromochloromethane	ND		0.304	0.0119	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Chloroform	ND		0.304	0.0234	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Carbon tetrachloride	ND		0.304	0.0632	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,1,1-Trichloroethane	ND		0.304	0.0526	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
2-Butanone	ND		3.04	0.334	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Hexane	ND		0.304	0.0246	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,1-Dichloropropene	ND		0.304	0.0529	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Benzene	ND		0.0456	0.0295	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2-Dichloroethane (EDC)	ND		0.304	0.0149	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Trichloroethene	ND		0.0760	0.0389	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Dibromomethane	ND		0.304	0.0277	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2-Dichloropropane	ND		0.304	0.0182	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Bromodichloromethane	ND		0.304	0.0213	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
cis-1,3-Dichloropropene	ND		0.304	0.0188	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Toluene	ND		0.304	0.0404	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
4-Methyl-2-pentanone	ND		3.04	0.0620	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
trans-1,3-Dichloropropene	ND		0.304	0.0201	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Tetrachloroethene	ND		0.122	0.0535	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,1,2-Trichloroethane	ND		0.304	0.0188	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Dibromochloromethane	ND		0.304	0.0182	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,3-Dichloropropane	ND		0.304	0.0225	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2-Dibromoethane	ND		0.0304	0.0176	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00

Client Sample ID: EX2-1-3
Date Collected: 07/16/14 08:50
Date Received: 07/17/14 10:30

Lab Sample ID: SXG0111-06
Matrix: Soil
Percent Solids: 43.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		3.04	0.141	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Ethylbenzene	ND		0.304	0.0492	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Chlorobenzene	ND		0.304	0.0231	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,1,1,2-Tetrachloroethane	ND		0.304	0.0310	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
m,p-Xylene	ND		1.22	0.0517	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
o-Xylene	ND		0.608	0.0398	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Styrene	ND		0.304	0.0283	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Bromoform	ND		0.304	0.0380	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Isopropylbenzene	ND		0.304	0.0578	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
n-Propylbenzene	ND		0.304	0.0629	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,1,2,2-Tetrachloroethane	ND		0.304	0.0228	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Bromobenzene	ND		0.304	0.0286	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,3,5-Trimethylbenzene	**0.129**	**J**	0.304	0.0565	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
2-Chlorotoluene	ND		0.304	0.0495	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2,3-Trichloropropane	ND		0.304	0.0255	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
4-Chlorotoluene	ND		0.304	0.0435	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
tert-Butylbenzene	ND		0.304	0.0657	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2,4-Trimethylbenzene	**0.205**	**J**	0.304	0.0441	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
sec-Butylbenzene	ND		0.304	0.0714	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
p-Isopropyltoluene	ND		0.304	0.0726	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,3-Dichlorobenzene	ND		0.304	0.0383	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,4-Dichlorobenzene	ND		0.304	0.0322	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
n-Butylbenzene	ND		0.304	0.0836	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2-Dichlorobenzene	ND		0.304	0.0231	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2-Dibromo-3-chloropropane	ND		1.52	0.0863	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Hexachlorobutadiene	ND		0.304	0.173	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2,4-Trichlorobenzene	ND		0.304	0.0605	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
Naphthalene	**0.125**	**J**	0.608	0.0413	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00
1,2,3-Trichlorobenzene	ND		0.304	0.108	mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.8*		*42.4 - 163*	*07/17/14 07:29*	*07/17/14 15:31*	*1.00*
1,2-dichloroethane-d4	*90.5*		*50 - 150*	*07/17/14 07:29*	*07/17/14 15:31*	*1.00*
Toluene-d8	*104*		*45.8 - 155*	*07/17/14 07:29*	*07/17/14 15:31*	*1.00*
4-bromofluorobenzene	*109*		*41.5 - 162*	*07/17/14 07:29*	*07/17/14 15:31*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**17.7**		15.2		mg/kg dry	☼	07/17/14 07:29	07/17/14 18:09	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*109*		*41.5 - 162*	*07/17/14 07:29*	*07/17/14 15:31*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Acenaphthylene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Anthracene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Benzo[a]anthracene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Benzo[b]fluoranthene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Client Sample ID: EX2-1-3
Date Collected: 07/16/14 08:50
Date Received: 07/17/14 10:30

Lab Sample ID: SXG0111-06
Matrix: Soil
Percent Solids: 51.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Benzo[g,h,i]perylene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Benzo[a]pyrene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Bis(2-chloroethoxy)methane	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Bis(2-chloroethyl)ether	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Bis(2-ethylhexyl) phthalate	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
4-Bromophenyl phenyl ether	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Butyl benzyl phthalate	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Carbazole	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
4-Chloroaniline	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
4-Chloro-3-methylphenol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2-Chloronaphthalene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2-Chlorophenol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
4-Chlorophenyl phenyl ether	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Chrysene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Dibenz(a,h)anthracene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Dibenzofuran	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Di-n-butyl phthalate	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
1,2-Dichlorobenzene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
1,3-Dichlorobenzene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
1,4-Dichlorobenzene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
3,3'-Dichlorobenzidine	ND	*	9.3		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2,4-Dichlorophenol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Diethyl phthalate	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2,4-Dimethylphenol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Dimethyl phthalate	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
4,6-Dinitro-2-methylphenol	ND		9.3		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2,4-Dinitrophenol	ND	*	9.3		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2,4-Dinitrotoluene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2,6-Dinitrotoluene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Di-n-octyl phthalate	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Fluoranthene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Fluorene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Hexachlorobenzene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Hexachlorobutadiene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Hexachlorocyclopentadiene	ND		9.3		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Hexachloroethane	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Indeno[1,2,3-cd]pyrene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Isophorone	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2-Methylnaphthalene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2-Methylphenol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
3 & 4 Methylphenol	ND		3.8		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Naphthalene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2-Nitroaniline	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
3-Nitroaniline	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
4-Nitroaniline	ND		9.3		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Nitrobenzene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2-Nitrophenol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
4-Nitrophenol	ND		9.3		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1

Client Sample ID: EX2-1-3

Lab Sample ID: SXG0111-06

Date Collected: 07/16/14 08:50
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 51.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
N-Nitrosodi-n-propylamine	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
bis (2-chloroisopropyl) ether	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Pentachlorophenol	ND		3.8		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Phenanthrene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Phenol	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Pyrene	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
1,2,4-Trichlorobenzene	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2,4,5-Trichlorophenol	ND	*	1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
2,4,6-Trichlorophenol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Aniline	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
1,4-Dioxane	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Benzyl alcohol	ND		1.9		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1
Pyridine	ND		3.8		mg/Kg	☼	07/18/14 13:09	07/21/14 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*97*		*53 - 97*	*07/18/14 13:09*	*07/21/14 12:31*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*46 - 111*	*07/18/14 13:09*	*07/21/14 12:31*	*1*
Nitrobenzene-d5 (Surr)	*104*	*X*	*55 - 98*	*07/18/14 13:09*	*07/21/14 12:31*	*1*
Phenol-d5 (Surr)	*100*		*54 - 101*	*07/18/14 13:09*	*07/21/14 12:31*	*1*
Terphenyl-d14 (Surr)	*131*	** X*	*58 - 123*	*07/18/14 13:09*	*07/21/14 12:31*	*1*
2-Fluorobiphenyl (Surr)	*93*		*56 - 97*	*07/18/14 13:09*	*07/21/14 12:31*	*1*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**8740**		2410		mg/kg dry	☼	07/17/14 13:47	07/19/14 09:56	50.0
Heavy Oil Range Hydrocarbons	**33900**		6030		mg/kg dry	☼	07/17/14 13:47	07/19/14 09:56	50.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*127*		*50 - 150*	*07/17/14 13:47*	*07/19/14 09:56*	*50.0*
n-Triacontane-d62	*140*		*50 - 150*	*07/17/14 13:47*	*07/19/14 09:56*	*50.0*

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		300		mg/kg dry	☼	07/29/14 15:09	07/29/14 18:28	1.0
Diesel Range Hydrocarbons	**6200**		740		mg/kg dry	☼	07/29/14 15:09	07/29/14 18:28	1.0
Heavy Oil Range Hydrocarbons	**23000**		740		mg/kg dry	☼	07/29/14 15:09	07/29/14 18:28	1.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*98.7*		*50 - 150*	*07/29/14 15:09*	*07/29/14 18:28*	*1.0*
2-FBP	*105*		*50 - 150*	*07/29/14 15:09*	*07/29/14 18:28*	*1.0*
p-Terphenyl-d14	*112*		*50 - 150*	*07/29/14 15:09*	*07/29/14 18:28*	*1.0*

Client Sample ID: EX3-1-4

Lab Sample ID: SXG0111-07

Date Collected: 07/16/14 14:20
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 86

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.27		mg/kg dry	☼	07/17/14 07:29	07/17/14 15:54	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Client Sample ID: EX3-1-4
Date Collected: 07/16/14 14:20
Date Received: 07/17/14 10:30

Lab Sample ID: SXG0111-07
Matrix: Soil
Percent Solids: 86

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	104		41.5 - 162	07/17/14 07:29	07/17/14 15:54	1.00

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	26.7		22.9		mg/kg dry	☼	07/17/14 13:47	07/19/14 10:19	2.00
Heavy Oil Range Hydrocarbons	174		57.4		mg/kg dry	☼	07/17/14 13:47	07/19/14 10:19	2.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	98.4		50 - 150	07/17/14 13:47	07/19/14 10:19	2.00
n-Triacontane-d62	83.2		50 - 150	07/17/14 13:47	07/19/14 10:19	2.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14G0131-BLK1
Matrix: Soil
Analysis Batch: 14G0131

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0131_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Methylene chloride	ND		0.0200	0.00520	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2-Dichloropropane	ND		0.100	0.00600	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Bromodichloromethane	ND		0.100	0.00700	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Dibromochloromethane	ND		0.100	0.00600	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Bromoform	ND		0.100	0.0125	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0131-BLK1
Matrix: Soil
Analysis Batch: 14G0131

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0131_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.7*		*42.4 - 163*	*07/17/14 07:29*	*07/17/14 09:32*	*1.00*
1,2-dichloroethane-d4	*97.6*		*50 - 150*	*07/17/14 07:29*	*07/17/14 09:32*	*1.00*
Toluene-d8	*103*		*45.8 - 155*	*07/17/14 07:29*	*07/17/14 09:32*	*1.00*
4-bromofluorobenzene	*102*		*41.5 - 162*	*07/17/14 07:29*	*07/17/14 09:32*	*1.00*

Lab Sample ID: 14G0131-BS1
Matrix: Soil
Analysis Batch: 14G0131

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0131_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.434		mg/kg wet		86.8	60 - 140
Chloromethane	0.500	0.499	J	mg/kg wet		99.8	60 - 140
Vinyl chloride	0.500	0.528		mg/kg wet		106	60 - 140
Bromomethane	0.500	0.620		mg/kg wet		124	60 - 140
Chloroethane	0.500	0.538		mg/kg wet		108	60 - 140
Trichlorofluoromethane	0.500	0.495		mg/kg wet		99.0	60 - 140
1,1-Dichloroethene	0.500	0.484		mg/kg wet		96.7	76 - 187
Carbon disulfide	0.500	0.532		mg/kg wet		106	60 - 140
Methylene chloride	0.500	0.425		mg/kg wet		85.0	60 - 140
Acetone	2.50	1.78	J	mg/kg wet		71.2	60 - 140
trans-1,2-Dichloroethene	0.500	0.518		mg/kg wet		104	60 - 140
Methyl tert-butyl ether	0.500	0.479		mg/kg wet		95.8	79 - 127
1,1-Dichloroethane	0.500	0.526		mg/kg wet		105	60 - 140
cis-1,2-Dichloroethene	0.500	0.496		mg/kg wet		99.1	60 - 140
2,2-Dichloropropane	0.500	0.474		mg/kg wet		94.8	60 - 140
Bromochloromethane	0.500	0.495		mg/kg wet		99.0	60 - 140
Chloroform	0.500	0.490		mg/kg wet		98.1	60 - 140
Carbon tetrachloride	0.500	0.490		mg/kg wet		98.0	60 - 140

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0131-BS1
Matrix: Soil
Analysis Batch: 14G0131

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0131_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.498		mg/kg wet		99.7	60 - 140
2-Butanone	2.50	1.96		mg/kg wet		78.5	60 - 140
Hexane	0.500	0.498		mg/kg wet		99.6	50 - 150
1,1-Dichloropropene	0.500	0.504		mg/kg wet		101	60 - 140
Benzene	0.500	0.496		mg/kg wet		99.3	75.9 - 123
1,2-Dichloroethane (EDC)	0.500	0.494		mg/kg wet		98.9	60 - 140
Trichloroethene	0.500	0.478		mg/kg wet		95.6	82.7 - 120
Dibromomethane	0.500	0.486		mg/kg wet		97.1	60 - 140
1,2-Dichloropropane	0.500	0.379		mg/kg wet		75.8	60 - 140
Bromodichloromethane	0.500	0.464		mg/kg wet		92.9	60 - 140
cis-1,3-Dichloropropene	0.500	0.470		mg/kg wet		93.9	60 - 140
Toluene	0.500	0.516		mg/kg wet		103	77.3 - 126
4-Methyl-2-pentanone	2.50	2.51		mg/kg wet		101	60 - 140
trans-1,3-Dichloropropene	0.500	0.517		mg/kg wet		103	60 - 140
Tetrachloroethene	0.500	0.524		mg/kg wet		105	75 - 130
1,1,2-Trichloroethane	0.500	0.531		mg/kg wet		106	60 - 140
Dibromochloromethane	0.500	0.466		mg/kg wet		93.2	60 - 140
1,3-Dichloropropane	0.500	0.526		mg/kg wet		105	60 - 140
1,2-Dibromoethane	0.500	0.508		mg/kg wet		102	60 - 140
2-Hexanone	2.50	2.32		mg/kg wet		93.0	60 - 140
Ethylbenzene	0.500	0.504		mg/kg wet		101	80.7 - 120
Chlorobenzene	0.500	0.546		mg/kg wet		109	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.536		mg/kg wet		107	60 - 140
m,p-Xylene	0.500	0.498		mg/kg wet		99.7	86.1 - 120
o-Xylene	0.500	0.524		mg/kg wet		105	85.3 - 120
Styrene	0.500	0.528		mg/kg wet		106	60 - 140
Bromoform	0.500	0.478		mg/kg wet		95.6	60 - 140
Isopropylbenzene	0.500	0.516		mg/kg wet		103	60 - 140
n-Propylbenzene	0.500	0.517		mg/kg wet		103	60 - 140
1,1,2,2-Tetrachloroethane	0.500	0.494		mg/kg wet		98.7	60 - 140
Bromobenzene	0.500	0.500		mg/kg wet		99.9	60 - 140
1,3,5-Trimethylbenzene	0.500	0.513		mg/kg wet		103	60 - 140
2-Chlorotoluene	0.500	0.536		mg/kg wet		107	60 - 140
1,2,3-Trichloropropane	0.500	0.480		mg/kg wet		96.0	60 - 140
4-Chlorotoluene	0.500	0.508		mg/kg wet		102	60 - 140
tert-Butylbenzene	0.500	0.516		mg/kg wet		103	60 - 140
1,2,4-Trimethylbenzene	0.500	0.520		mg/kg wet		104	60 - 140
sec-Butylbenzene	0.500	0.514		mg/kg wet		103	60 - 140
p-Isopropyltoluene	0.500	0.506		mg/kg wet		101	60 - 140
1,3-Dichlorobenzene	0.500	0.507		mg/kg wet		101	60 - 140
1,4-Dichlorobenzene	0.500	0.518		mg/kg wet		104	60 - 140
n-Butylbenzene	0.500	0.512		mg/kg wet		102	60 - 140
1,2-Dichlorobenzene	0.500	0.516		mg/kg wet		103	60 - 140
1,2-Dibromo-3-chloropropane	0.500	0.424	J	mg/kg wet		84.7	60 - 140
Hexachlorobutadiene	0.500	0.500		mg/kg wet		100	60 - 140
1,2,4-Trichlorobenzene	0.500	0.460		mg/kg wet		92.1	60 - 140
Naphthalene	0.500	0.420		mg/kg wet		83.9	58.8 - 130
1,2,3-Trichlorobenzene	0.500	0.449		mg/kg wet		89.8	60 - 140

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0131-BS1
Matrix: Soil
Analysis Batch: 14G0131

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0131_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*99.9*		*42.4 - 163*
1,2-dichloroethane-d4	*98.9*		*50 - 150*
Toluene-d8	*103*		*45.8 - 155*
4-bromofluorobenzene	*101*		*41.5 - 162*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14G0131-BLK1
Matrix: Soil
Analysis Batch: 14G0131

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0131_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		07/17/14 07:29	07/17/14 09:32	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*41.5 - 162*	*07/17/14 07:29*	*07/17/14 09:32*	*1.00*

Lab Sample ID: 14G0131-BS2
Matrix: Soil
Analysis Batch: 14G0131

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0131_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	48.0		mg/kg wet		95.9	74.4 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*102*		*41.5 - 162*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-132459/1-A
Matrix: Solid
Analysis Batch: 132657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Acenaphthylene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Anthracene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Benzo[a]anthracene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Benzo[b]fluoranthene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Benzo[k]fluoranthene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Benzo[g,h,i]perylene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Benzo[a]pyrene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Bis(2-chloroethoxy)methane	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Bis(2-chloroethyl)ether	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
4-Bromophenyl phenyl ether	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Butyl benzyl phthalate	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-132459/1-A
Matrix: Solid
Analysis Batch: 132657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
4-Chloroaniline	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
4-Chloro-3-methylphenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2-Chloronaphthalene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2-Chlorophenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
4-Chlorophenyl phenyl ether	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Chrysene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Dibenz(a,h)anthracene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Dibenzofuran	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Di-n-butyl phthalate	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
1,2-Dichlorobenzene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
1,3-Dichlorobenzene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
1,4-Dichlorobenzene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
3,3'-Dichlorobenzidine	ND		1.6		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Diethyl phthalate	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2,4-Dimethylphenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Dimethyl phthalate	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
4,6-Dinitro-2-methylphenol	ND		1.6		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2,4-Dinitrophenol	ND		1.6		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2,4-Dinitrotoluene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2,6-Dinitrotoluene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Di-n-octyl phthalate	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Fluoranthene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Fluorene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Hexachlorobenzene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Hexachlorobutadiene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Hexachlorocyclopentadiene	ND		1.6		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Hexachloroethane	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Indeno[1,2,3-cd]pyrene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Isophorone	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2-Methylnaphthalene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2-Methylphenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
3 & 4 Methylphenol	ND		0.66		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Naphthalene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2-Nitroaniline	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
3-Nitroaniline	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
4-Nitroaniline	ND		1.6		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Nitrobenzene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2-Nitrophenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
4-Nitrophenol	ND		1.6		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
N-Nitrosodiphenylamine	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
N-Nitrosodi-n-propylamine	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
bis (2-chloroisopropyl) ether	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Pentachlorophenol	ND		0.66		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Phenanthrene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Phenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Pyrene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-132459/1-A
Matrix: Solid
Analysis Batch: 132657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2,4,5-Trichlorophenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
2,4,6-Trichlorophenol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Aniline	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
1,4-Dioxane	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Benzyl alcohol	ND		0.33		mg/Kg		07/18/14 13:09	07/21/14 04:52	1
Pyridine	ND		0.66		mg/Kg		07/18/14 13:09	07/21/14 04:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*86*		*53 - 97*	*07/18/14 13:09*	*07/21/14 04:52*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*46 - 111*	*07/18/14 13:09*	*07/21/14 04:52*	*1*
Nitrobenzene-d5 (Surr)	*85*		*55 - 98*	*07/18/14 13:09*	*07/21/14 04:52*	*1*
Phenol-d5 (Surr)	*86*		*54 - 101*	*07/18/14 13:09*	*07/21/14 04:52*	*1*
Terphenyl-d14 (Surr)	*84*		*58 - 123*	*07/18/14 13:09*	*07/21/14 04:52*	*1*
2-Fluorobiphenyl (Surr)	*90*		*56 - 97*	*07/18/14 13:09*	*07/21/14 04:52*	*1*

Lab Sample ID: LCS 160-132459/2-A
Matrix: Solid
Analysis Batch: 132657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6.67	6.09		mg/Kg		91	63 - 95
Acenaphthylene	6.67	6.19		mg/Kg		93	62 - 98
Anthracene	6.68	5.79		mg/Kg		87	63 - 100
Benzo[a]anthracene	6.67	6.23		mg/Kg		93	74 - 114
Benzo[b]fluoranthene	6.67	6.22		mg/Kg		93	68 - 109
Benzo[k]fluoranthene	6.68	6.18		mg/Kg		93	69 - 111
Benzo[g,h,i]perylene	6.67	6.86		mg/Kg		103	67 - 121
Benzo[a]pyrene	6.67	6.20		mg/Kg		93	63 - 103
Bis(2-chloroethoxy)methane	6.68	6.07		mg/Kg		91	62 - 91
Bis(2-chloroethyl)ether	6.67	5.97		mg/Kg		90	58 - 92
Bis(2-ethylhexyl) phthalate	6.67	6.32		mg/Kg		95	63 - 112
4-Bromophenyl phenyl ether	6.67	5.94		mg/Kg		89	63 - 106
Butyl benzyl phthalate	6.67	6.45		mg/Kg		97	59 - 111
Carbazole	6.69	5.65		mg/Kg		84	64 - 101
4-Chloroaniline	6.67	4.46		mg/Kg		67	43 - 70
4-Chloro-3-methylphenol	6.67	5.75		mg/Kg		86	58 - 95
2-Chloronaphthalene	6.67	6.43	*	mg/Kg		97	61 - 94
2-Chlorophenol	6.67	6.07		mg/Kg		91	60 - 91
4-Chlorophenyl phenyl ether	6.68	5.92		mg/Kg		89	61 - 96
Chrysene	6.67	6.22		mg/Kg		93	66 - 100
Dibenz(a,h)anthracene	6.67	7.11		mg/Kg		107	67 - 114
Dibenzofuran	6.67	5.92		mg/Kg		89	58 - 95
Di-n-butyl phthalate	6.67	5.69		mg/Kg		85	62 - 104
1,2-Dichlorobenzene	6.67	6.14	*	mg/Kg		92	59 - 90
1,3-Dichlorobenzene	6.67	5.89		mg/Kg		88	57 - 88
1,4-Dichlorobenzene	6.67	5.94	*	mg/Kg		89	58 - 88
3,3'-Dichlorobenzidine	6.67	5.98		mg/Kg		90	50 - 90

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-132459/2-A
Matrix: Solid
Analysis Batch: 132657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	6.67	5.94		mg/Kg		89	59 - 90
Diethyl phthalate	6.67	5.88		mg/Kg		88	62 - 97
2,4-Dimethylphenol	6.67	6.00		mg/Kg		90	54 - 108
Dimethyl phthalate	6.67	6.05		mg/Kg		91	63 - 98
4,6-Dinitro-2-methylphenol	6.67	5.22		mg/Kg		78	31 - 112
2,4-Dinitrophenol	6.67	3.74		mg/Kg		56	20 - 100
2,4-Dinitrotoluene	6.68	5.96		mg/Kg		89	61 - 103
2,6-Dinitrotoluene	6.67	6.12		mg/Kg		92	63 - 99
Di-n-octyl phthalate	6.67	6.42		mg/Kg		96	61 - 111
Fluoranthene	6.67	5.61		mg/Kg		84	63 - 101
Fluorene	6.67	6.13		mg/Kg		92	62 - 96
Hexachlorobenzene	6.67	5.87		mg/Kg		88	62 - 106
Hexachlorobutadiene	6.67	6.09		mg/Kg		91	57 - 94
Hexachlorocyclopentadiene	6.67	6.24		mg/Kg		94	40 - 115
Hexachloroethane	6.67	5.90		mg/Kg		88	59 - 93
Indeno[1,2,3-cd]pyrene	6.67	6.92		mg/Kg		104	65 - 120
Isophorone	6.67	5.02		mg/Kg		75	57 - 86
2-Methylnaphthalene	6.65	5.75		mg/Kg		86	59 - 90
2-Methylphenol	6.68	5.94		mg/Kg		89	58 - 96
3 & 4 Methylphenol	6.67	6.62		mg/Kg		99	47 - 113
Naphthalene	6.67	6.06	*	mg/Kg		91	60 - 90
2-Nitroaniline	6.69	6.27		mg/Kg		94	58 - 105
3-Nitroaniline	6.67	5.72		mg/Kg		86	55 - 91
4-Nitroaniline	6.69	6.07		mg/Kg		91	57 - 94
Nitrobenzene	6.67	6.23		mg/Kg		93	58 - 95
2-Nitrophenol	6.68	6.17		mg/Kg		92	60 - 93
4-Nitrophenol	6.68	5.67		mg/Kg		85	54 - 101
N-Nitrosodiphenylamine	6.67	6.78		mg/Kg		102	78 - 133
N-Nitrosodi-n-propylamine	6.67	5.84		mg/Kg		88	60 - 104
bis (2-chloroisopropyl) ether	6.67	5.96		mg/Kg		89	47 - 105
Pentachlorophenol	6.67	5.66		mg/Kg		85	50 - 100
Phenanthrene	6.68	5.94		mg/Kg		89	63 - 99
Phenol	6.67	5.98	*	mg/Kg		90	53 - 89
Pyrene	6.67	6.55		mg/Kg		98	64 - 102
1,2,4-Trichlorobenzene	6.71	5.97		mg/Kg		89	60 - 91
2,4,5-Trichlorophenol	6.67	6.40	*	mg/Kg		96	59 - 94
2,4,6-Trichlorophenol	6.67	6.20		mg/Kg		93	59 - 95

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*95*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*89*		*46 - 111*
Nitrobenzene-d5 (Surr)	*94*		*55 - 98*
Phenol-d5 (Surr)	*90*		*54 - 101*
Terphenyl-d14 (Surr)	*94*		*58 - 123*
2-Fluorobiphenyl (Surr)	*100*	*X*	*56 - 97*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-132459/3-A
Matrix: Solid
Analysis Batch: 132657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 132459

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	6.67	5.90		mg/Kg		88	63 - 95	3	20
Acenaphthylene	6.67	5.96		mg/Kg		89	62 - 98	4	20
Anthracene	6.68	5.61		mg/Kg		84	63 - 100	3	20
Benzo[a]anthracene	6.67	5.99		mg/Kg		90	74 - 114	4	20
Benzo[b]fluoranthene	6.67	6.04		mg/Kg		91	68 - 109	3	20
Benzo[k]fluoranthene	6.68	5.93		mg/Kg		89	69 - 111	4	20
Benzo[g,h,i]perylene	6.67	6.68		mg/Kg		100	67 - 121	3	20
Benzo[a]pyrene	6.67	5.98		mg/Kg		90	63 - 103	4	20
Bis(2-chloroethoxy)methane	6.68	5.86		mg/Kg		88	62 - 91	3	20
Bis(2-chloroethyl)ether	6.67	5.73		mg/Kg		86	58 - 92	4	20
Bis(2-ethylhexyl) phthalate	6.67	6.11		mg/Kg		92	63 - 112	3	20
4-Bromophenyl phenyl ether	6.67	5.76		mg/Kg		86	63 - 106	3	20
Butyl benzyl phthalate	6.67	6.17		mg/Kg		92	59 - 111	4	20
Carbazole	6.69	5.54		mg/Kg		83	64 - 101	2	20
4-Chloroaniline	6.67	4.28		mg/Kg		64	43 - 70	4	20
4-Chloro-3-methylphenol	6.67	5.85		mg/Kg		88	58 - 95	2	20
2-Chloronaphthalene	6.67	6.12		mg/Kg		92	61 - 94	5	20
2-Chlorophenol	6.67	5.81		mg/Kg		87	60 - 91	4	20
4-Chlorophenyl phenyl ether	6.68	5.78		mg/Kg		86	61 - 96	2	20
Chrysene	6.67	5.97		mg/Kg		89	66 - 100	4	20
Dibenz(a,h)anthracene	6.67	6.95		mg/Kg		104	67 - 114	2	20
Dibenzofuran	6.67	5.67		mg/Kg		85	58 - 95	4	20
Di-n-butyl phthalate	6.67	5.67		mg/Kg		85	62 - 104	0	20
1,2-Dichlorobenzene	6.67	5.77		mg/Kg		87	59 - 90	6	20
1,3-Dichlorobenzene	6.67	5.62		mg/Kg		84	57 - 88	5	20
1,4-Dichlorobenzene	6.67	5.70		mg/Kg		85	58 - 88	4	20
3,3'-Dichlorobenzidine	6.67	5.62		mg/Kg		84	50 - 90	6	20
2,4-Dichlorophenol	6.67	5.91		mg/Kg		89	59 - 90	1	20
Diethyl phthalate	6.67	5.73		mg/Kg		86	62 - 97	3	20
2,4-Dimethylphenol	6.67	5.87		mg/Kg		88	54 - 108	2	20
Dimethyl phthalate	6.67	5.92		mg/Kg		89	63 - 98	2	20
4,6-Dinitro-2-methylphenol	6.67	5.99		mg/Kg		90	31 - 112	14	20
2,4-Dinitrophenol	6.67	5.31	*	mg/Kg		80	20 - 100	35	20
2,4-Dinitrotoluene	6.68	5.94		mg/Kg		89	61 - 103	0	20
2,6-Dinitrotoluene	6.67	5.99		mg/Kg		90	63 - 99	2	20
Di-n-octyl phthalate	6.67	6.18		mg/Kg		93	61 - 111	4	20
Fluoranthene	6.67	5.54		mg/Kg		83	63 - 101	1	20
Fluorene	6.67	5.93		mg/Kg		89	62 - 96	3	20
Hexachlorobenzene	6.67	5.77		mg/Kg		86	62 - 106	2	20
Hexachlorobutadiene	6.67	5.63		mg/Kg		85	57 - 94	8	20
Hexachlorocyclopentadiene	6.67	5.86		mg/Kg		88	40 - 115	6	20
Hexachloroethane	6.67	5.66		mg/Kg		85	59 - 93	4	20
Indeno[1,2,3-cd]pyrene	6.67	6.78		mg/Kg		102	65 - 120	2	20
Isophorone	6.67	4.90		mg/Kg		73	57 - 86	3	20
2-Methylnaphthalene	6.65	5.58		mg/Kg		84	59 - 90	3	20
2-Methylphenol	6.68	5.77		mg/Kg		86	58 - 96	3	20
3 & 4 Methylphenol	6.67	6.47		mg/Kg		97	47 - 113	2	20
Naphthalene	6.67	5.79		mg/Kg		87	60 - 90	5	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-132459/3-A
Matrix: Solid
Analysis Batch: 132657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 132459

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitroaniline			6.69	6.14		mg/Kg		92	58 - 105	2	20
3-Nitroaniline			6.67	5.53		mg/Kg		83	55 - 91	4	20
4-Nitroaniline			6.69	5.98		mg/Kg		89	57 - 94	1	20
Nitrobenzene			6.67	5.98		mg/Kg		90	58 - 95	4	20
2-Nitrophenol			6.68	5.87		mg/Kg		88	60 - 93	5	20
4-Nitrophenol			6.68	5.85		mg/Kg		88	54 - 101	3	20
N-Nitrosodiphenylamine			6.67	6.55		mg/Kg		98	78 - 133	3	20
N-Nitrosodi-n-propylamine			6.67	5.79		mg/Kg		87	60 - 104	1	20
bis (2-chloroisopropyl) ether			6.67	5.84		mg/Kg		88	47 - 105	2	20
Pentachlorophenol			6.67	5.72		mg/Kg		86	50 - 100	1	20
Phenanthrene			6.68	5.81		mg/Kg		87	63 - 99	2	20
Phenol			6.67	5.91		mg/Kg		88	53 - 89	1	20
Pyrene			6.67	6.22		mg/Kg		93	64 - 102	5	20
1,2,4-Trichlorobenzene			6.71	5.65		mg/Kg		84	60 - 91	6	20
2,4,5-Trichlorophenol			6.67	6.08		mg/Kg		91	59 - 94	5	20
2,4,6-Trichlorophenol			6.67	5.92		mg/Kg		89	59 - 95	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*88*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*87*		*46 - 111*
Nitrobenzene-d5 (Surr)	*86*		*55 - 98*
Phenol-d5 (Surr)	*87*		*54 - 101*
Terphenyl-d14 (Surr)	*86*		*58 - 123*
2-Fluorobiphenyl (Surr)	*92*		*56 - 97*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14G0133-BLK1
Matrix: Soil
Analysis Batch: 14G0133

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0133_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		07/17/14 13:47	07/17/14 17:57	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		07/17/14 13:47	07/17/14 17:57	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84.3*		*50 - 150*	*07/17/14 13:47*	*07/17/14 17:57*	*1.00*
n-Triacontane-d62	*77.6*		*50 - 150*	*07/17/14 13:47*	*07/17/14 17:57*	*1.00*

Lab Sample ID: 14G0133-BS1
Matrix: Soil
Analysis Batch: 14G0133

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0133_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	56.7		mg/kg wet		85.0	50 - 150		

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14G0133-BS1
Matrix: Soil
Analysis Batch: 14G0133

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0133_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*92.6*		*50 - 150*
n-Triacontane-d62	*82.1*		*50 - 150*

Lab Sample ID: 14G0133-DUP1
Matrix: Soil
Analysis Batch: 14G0133

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0133_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	ND			ND		mg/kg dry	☼				40
Heavy Oil Range Hydrocarbons	ND			ND		mg/kg dry	☼				40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*86.9*		*50 - 150*
n-Triacontane-d62	*78.7*		*50 - 150*

Lab Sample ID: 14G0133-DUP2
Matrix: Soil
Analysis Batch: 14G0133

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0133_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	ND			ND		mg/kg dry	☼				40
Heavy Oil Range Hydrocarbons	ND			ND		mg/kg dry	☼				40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*86.2*		*50 - 150*
n-Triacontane-d62	*78.1*		*50 - 150*

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID

Lab Sample ID: 14G0206-BLK1
Matrix: Soil
Analysis Batch: 14G0206

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0206_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		40		mg/kg wet		07/29/14 15:09	07/29/14 17:12	1.00
Diesel Range Hydrocarbons	ND		100		mg/kg wet		07/29/14 15:09	07/29/14 17:12	1.00
Heavy Oil Range Hydrocarbons	ND		100		mg/kg wet		07/29/14 15:09	07/29/14 17:12	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*93.7*		*50 - 150*	*07/29/14 15:09*	*07/29/14 17:12*	*1.00*
2-FBP	*93.2*		*50 - 150*	*07/29/14 15:09*	*07/29/14 17:12*	*1.00*
p-Terphenyl-d14	*95.8*		*50 - 150*	*07/29/14 15:09*	*07/29/14 17:12*	*1.00*

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID (Continued)

Lab Sample ID: 14G0206-DUP1
Matrix: Soil
Analysis Batch: 14G0206

Client Sample ID: EX1-2-3
Prep Type: Total
Prep Batch: 14G0206_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Hydrocarbons	128			160		mg/kg dry	☼			22.5	25
Diesel Range Hydrocarbons	7290			9240		mg/kg dry	☼			23.6	25
Heavy Oil Range Hydrocarbons	20000			24200		mg/kg dry	☼			18.8	25

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
4-BFB (FID)	*93.9*		*50 - 150*
2-FBP	*109*		*50 - 150*
p-Terphenyl-d14	*88.0*		*50 - 150*

Client Sample ID: EX1-1-2

Lab Sample ID: SXG0111-01

Date Collected: 07/16/14 08:00

Matrix: Soil

Date Received: 07/17/14 10:30

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.707	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 13:38	CBW	TAL SPK
Total	Prep	EPA 3550B		0.892	14G0133_P	07/17/14 13:47	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0133	07/19/14 08:00	MS	TAL SPK
Total	Prep	Wet Chem		1.00	14G0148_P	07/18/14 14:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0148	07/21/14 13:52	MS	TAL SPK

Client Sample ID: EX1-2-3

Lab Sample ID: SXG0111-02

Date Collected: 07/16/14 08:10

Matrix: Soil

Date Received: 07/17/14 10:30

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.785	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 14:01	CBW	TAL SPK
Total	Prep	EPA 3550B		2.52	14G0133_P	07/17/14 13:47	MS	TAL SPK
Total	Analysis	NWTPH-Dx		100	14G0133	07/19/14 08:23	MS	TAL SPK
Total	Prep	EPA 3580		2.7	14G0206_P	07/29/14 15:09	MS	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14G0206	07/29/14 17:37	MS	TAL SPK
Total	Prep	Wet Chem		1.00	14G0138_P	07/17/14 17:00	CBW	TAL SPK
Total	Analysis	TA SOP		1.00	14G0138	07/18/14 09:30	CBW	TAL SPK

Client Sample ID: EX1-3-3

Lab Sample ID: SXG0111-03

Date Collected: 07/16/14 08:20

Matrix: Soil

Date Received: 07/17/14 10:30

Percent Solids: 60

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.712	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0131	07/17/14 14:23	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.712	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 14:23	CBW	TAL SPK
Total/NA	Prep	3550C			132459	07/18/14 13:09	KKA	TAL SL
Total/NA	Analysis	8270D		1	132657	07/21/14 11:55	JSW	TAL SL
Total	Prep	EPA 3550B		1.38	14G0133_P	07/17/14 13:47	MS	TAL SPK
Total	Analysis	NWTPH-Dx		25.0	14G0133	07/19/14 08:46	MS	TAL SPK
Total/NA	Analysis	Moisture		1	132486	07/19/14 07:50	SDB	TAL SL

Client Sample ID: EX1-4-3

Lab Sample ID: SXG0111-04

Date Collected: 07/16/14 08:30

Matrix: Soil

Date Received: 07/17/14 10:30

Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.933	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 16:39	CBW	TAL SPK

Client Sample ID: EX1-4-3

Lab Sample ID: SXG0111-04

Date Collected: 07/16/14 08:30
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.946	14G0133_P	07/17/14 13:47	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0133	07/19/14 09:09	MS	TAL SPK

Client Sample ID: EX1-5-3

Lab Sample ID: SXG0111-05

Date Collected: 07/16/14 08:40
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.882	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 15:08	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.882	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 17:47	CBW	TAL SPK
Total	Prep	EPA 3550B		0.894	14G0133_P	07/17/14 13:47	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0133	07/19/14 09:33	MS	TAL SPK

Client Sample ID: EX2-1-3

Lab Sample ID: SXG0111-06

Date Collected: 07/16/14 08:50
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 43.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.745	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0131	07/17/14 15:31	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.745	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0131	07/17/14 18:09	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.745	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 15:31	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.745	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 18:09	CBW	TAL SPK
Total/NA	Prep	3550C			132459	07/18/14 13:09	KKA	TAL SL
Total/NA	Analysis	8270D		1	132657	07/21/14 12:31	JSW	TAL SL
Total	Prep	EPA 3550B		2.08	14G0133_P	07/17/14 13:47	MS	TAL SPK
Total	Analysis	NWTPH-Dx		50.0	14G0133	07/19/14 09:56	MS	TAL SPK
Total	Prep	EPA 3580		3.2	14G0206_P	07/29/14 15:09	MS	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14G0206	07/29/14 18:28	MS	TAL SPK
Total/NA	Analysis	Moisture		1	132486	07/19/14 07:50	SDB	TAL SL

Client Sample ID: EX3-1-4

Lab Sample ID: SXG0111-07

Date Collected: 07/16/14 14:20
Matrix: Soil
Date Received: 07/17/14 10:30
Percent Solids: 86

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.767	14G0131_P	07/17/14 07:29	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0131	07/17/14 15:54	CBW	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Client Sample ID: EX3-1-4
Date Collected: 07/16/14 14:20
Date Received: 07/17/14 10:30

Lab Sample ID: SXG0111-07
Matrix: Soil
Percent Solids: 86

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.987	14G0133_P	07/17/14 13:47	MS	TAL SPK
Total	Analysis	NWTPH-Dx		2.00	14G0133	07/19/14 10:19	MS	TAL SPK

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15
California	NELAP	9	09266CA	03-31-15
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-14 *
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15
Maryland	State Program	3	310	09-30-14 *
Missouri	State Program	7	780	06-30-14 *
Nevada	State Program	9	MO000542013-1	07-31-14 *
New Jersey	NELAP	2	MO002	06-30-15
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	03-31-15
North Dakota	State Program	8	R207	06-30-14 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14 *
Pennsylvania	NELAP	3	68-00540	02-28-15
South Carolina	State Program	4	85002001	06-30-14 *
Texas	NELAP	6	T104704193-13-6	07-31-14 *
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14 *
Virginia	NELAP	3	2236	06-14-14 *
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	08-30-14

* Certification renewal pending - certification considered valid.

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0111

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
NWTPH-HCID	Hydrocarbon Identification by NWTPH-HCID		TAL SPK
Moisture	Percent Moisture	EPA	TAL SL
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 [X]
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXG0111

CLIENT:

REPORT TO: dlinder@geoengineers.com
ADDRESS: 523 E Second Ave
Spokane, WA 99202
PHONE: 509 363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere, WA
PROJECT NUMBER: 18593-001-04
SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	NWTPH Gx	NWTPH Dx	1/3	VOCs	SVOCs								MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	EX1-1-2	7/16/2014 0800		X	X											S	3		
2	EX1-2-3	0810		X	X											S	3		
3	EX1-3-3	0820		X	X		X	X								S	4		
4	EX1-4-3	0830		X	X											S	3		
5	EX1-5-3	0840		X	X											S	3		
6	EX2-1-3	0850		X	X		X	X								S	3		
7	EX3-1-4	1420		X	X											S	3		
8																			
9																			
10																			

REQUESTED ANALYSES

RELEASED BY: [signature] DATE: 7/16/2014
PRINT NAME: Josh Lee FIRM: GEO TIME: 1610

RECEIVED BY: Cal Stapleton DATE: 7-17-14
PRINT NAME: FIRM: TestAmerica TIME: 10:30

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 53 PAGE OF

TAL-1000 (0612)

Page 32 of 33

7/30/2014

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXG0111	Client: GeoEngineers	Project: Cashmere
Date/Time Received: 7-17-14 10:30	By: CS	

Samples Delivered By: ☒Shipping Service ☐Courier ☐Client ☐Other:

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	Y			
Custody Seals are present and intact:			Y	
Are CoC documents present:	Y			
Necessary signatures:	Y			

Thermal Preservation Type: ☐Blue Ice ☐Gel Ice ☒Real Ice ☐Dry Ice ☐None ☐Other:

Temperature: 5.3 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐Not enough ice ☐Ice melted ☐w/in 4hrs of collection ☐NA ☐Other:

Log-in Phase Date/Time: 7-17-14 10:37 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)			Y	
Are dissolved parameters field filtered			Y	
Do any samples need to be filtered or preserved by the lab			N	
Does this project require quick turnaround analysis	N			2 days
Are there any short hold time tests (see chart below)		N		
Are any samples within 2 days of or past expiration		N		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		Y		
If yes, was a CAR generated #			N	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXG0129
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA
Revision: 1

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
11/5/2014 3:09:45 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Definitions 5
Client Sample Results 6
QC Sample Results 11
Chronicle 21
Certification Summary 23
Method Summary 24
Chain of Custody 25

Case Narrative

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Job ID: SXG0129

Laboratory: TestAmerica Spokane

Narrative

Revision1: The 8270 SVOC was initially evaluated and reported down to the MDL. Per the client's request the data has be re-evaluated to the RL (reporting limit) only and the data is reflected in the amended report. This final report replaces the final report generated on 07/22/2014.

Laboratory: TestAmerica St. Louis

Narrative

Job Narrative
160-7538-1

Revision 1 and 2- Client requested data to be reported to RL rather than MDL.

Receipt
The sample was received on 7/19/2014 8:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS Semi VOA
The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 132701 recovered outside upper control limits. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 160-132701/2-A), (LCSD 160-132701/3-A)133102

Six surrogates are used for this analysis. Based on CLP methodology, the laboratory' allows 1acid and/or 1base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following LCS contained an allowable number of surrogate compounds outside limits: (LCS 160-132701/2-A). These results have been reported.
133102

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep Observations
Method(s) 3550C: 3550 8270 132701
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch <<132701>>.
An LCS/LCSD was performed to demonstrate accuracy and replicate precision. SXG0129-04 (160-7538-1)

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXG0129-01	Ex3-2-4	Soil	07/17/14 14:30	07/18/14 10:40
SXG0129-02	Ex3-3-4	Soil	07/17/14 14:40	07/18/14 10:40
SXG0129-03	Ex3-4-4	Soil	07/17/14 14:50	07/18/14 10:40
SXG0129-04	Ex3-5-5	Soil	07/17/14 15:00	07/18/14 10:40

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: Ex3-2-4

Lab Sample ID: SXG0129-01

Date Collected: 07/17/14 14:30
Matrix: Soil
Date Received: 07/18/14 10:40
Percent Solids: 87.3

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	32.8		6.49		mg/kg dry	☼	07/18/14 10:59	07/18/14 13:35	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*105*		*41.5 - 162*	*07/18/14 10:59*	*07/18/14 13:35*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	124		109		mg/kg dry	☼	07/18/14 09:49	07/21/14 17:08	10.0
Heavy Oil Range Hydrocarbons	782		273		mg/kg dry	☼	07/18/14 09:49	07/21/14 17:08	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97.9*		*50 - 150*	*07/18/14 09:49*	*07/21/14 17:08*	*10.0*
n-Triacontane-d62	*93.5*		*50 - 150*	*07/18/14 09:49*	*07/21/14 17:08*	*10.0*

Client Sample ID: Ex3-3-4

Lab Sample ID: SXG0129-02

Date Collected: 07/17/14 14:40
Matrix: Soil
Date Received: 07/18/14 10:40
Percent Solids: 80.4

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	20.4		8.99		mg/kg dry	☼	07/18/14 10:59	07/18/14 13:58	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*103*		*41.5 - 162*	*07/18/14 10:59*	*07/18/14 13:58*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	10.1		9.27		mg/kg dry	☼	07/18/14 09:49	07/19/14 21:09	1.00
Heavy Oil Range Hydrocarbons	37.9		23.2		mg/kg dry	☼	07/18/14 09:49	07/19/14 21:09	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*117*		*50 - 150*	*07/18/14 09:49*	*07/19/14 21:09*	*1.00*
n-Triacontane-d62	*99.7*		*50 - 150*	*07/18/14 09:49*	*07/19/14 21:09*	*1.00*

Client Sample ID: Ex3-4-4

Lab Sample ID: SXG0129-03

Date Collected: 07/17/14 14:50
Matrix: Soil
Date Received: 07/18/14 10:40
Percent Solids: 85.3

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	7.11		6.52		mg/kg dry	☼	07/18/14 10:59	07/18/14 14:20	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*41.5 - 162*	*07/18/14 10:59*	*07/18/14 14:20*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	20.0		9.99		mg/kg dry	☼	07/18/14 09:49	07/19/14 21:32	1.00
Heavy Oil Range Hydrocarbons	62.2		25.0		mg/kg dry	☼	07/18/14 09:49	07/19/14 21:32	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*50 - 150*	*07/18/14 09:49*	*07/19/14 21:32*	*1.00*

Client Sample ID: Ex3-4-4 — **Lab Sample ID: SXG0129-03**
Date Collected: 07/17/14 14:50 — **Matrix: Soil**
Date Received: 07/18/14 10:40 — **Percent Solids: 85.3**

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	92.8		50 - 150	07/18/14 09:49	07/19/14 21:32	1.00

Client Sample ID: Ex3-5-5 — **Lab Sample ID: SXG0129-04**
Date Collected: 07/17/14 15:00 — **Matrix: Soil**
Date Received: 07/18/14 10:40 — **Percent Solids: 71.6**

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.234	0.0217	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Chloromethane	ND		1.17	0.0124	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Vinyl chloride	ND		0.140	0.0145	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Bromomethane	ND		1.17	0.0715	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Chloroethane	ND		0.234	0.0572	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Trichlorofluoromethane	ND		0.0701	0.0185	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,1-Dichloroethene	ND		0.234	0.0297	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Carbon disulfide	ND		0.234	0.0250	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Methylene chloride	ND		0.0467	0.0121	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Acetone	1.84	J	7.01	0.203	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
trans-1,2-Dichloroethene	ND		0.234	0.0241	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Methyl tert-butyl ether	ND		0.117	0.00748	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,1-Dichloroethane	ND		0.234	0.0264	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
cis-1,2-Dichloroethene	ND		0.234	0.0133	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
2,2-Dichloropropane	ND		0.234	0.0397	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Bromochloromethane	ND		0.234	0.00911	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Chloroform	ND		0.234	0.0180	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Carbon tetrachloride	ND		0.234	0.0486	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,1,1-Trichloroethane	ND		0.234	0.0404	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
2-Butanone	ND		2.34	0.257	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Hexane	ND		0.234	0.0189	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,1-Dichloropropene	ND		0.234	0.0407	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Benzene	ND		0.0350	0.0227	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2-Dichloroethane (EDC)	ND		0.234	0.0114	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Trichloroethene	ND		0.0584	0.0299	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Dibromomethane	ND		0.234	0.0213	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2-Dichloropropane	ND		0.234	0.0140	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Bromodichloromethane	ND		0.234	0.0164	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
cis-1,3-Dichloropropene	ND		0.234	0.0145	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Toluene	ND		0.234	0.0311	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
4-Methyl-2-pentanone	ND		2.34	0.0477	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
trans-1,3-Dichloropropene	ND		0.234	0.0154	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Tetrachloroethene	ND		0.0935	0.0411	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,1,2-Trichloroethane	ND		0.234	0.0145	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Dibromochloromethane	ND		0.234	0.0140	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,3-Dichloropropane	ND		0.234	0.0173	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2-Dibromoethane	ND		0.0234	0.0136	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
2-Hexanone	ND		2.34	0.109	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Ethylbenzene	ND		0.234	0.0379	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Chlorobenzene	ND		0.234	0.0178	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,1,1,2-Tetrachloroethane	ND		0.234	0.0238	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00

Client Sample ID: Ex3-5-5
Date Collected: 07/17/14 15:00
Date Received: 07/18/14 10:40

Lab Sample ID: SXG0129-04
Matrix: Soil
Percent Solids: 71.6

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.935	0.0397	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
o-Xylene	ND		0.467	0.0306	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Styrene	ND		0.234	0.0217	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Bromoform	ND		0.234	0.0292	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Isopropylbenzene	ND		0.234	0.0444	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
n-Propylbenzene	ND		0.234	0.0484	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,1,2,2-Tetrachloroethane	ND		0.234	0.0175	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Bromobenzene	ND		0.234	0.0220	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,3,5-Trimethylbenzene	ND		0.234	0.0435	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
2-Chlorotoluene	ND		0.234	0.0381	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2,3-Trichloropropane	ND		0.234	0.0196	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
4-Chlorotoluene	ND		0.234	0.0334	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
tert-Butylbenzene	ND		0.234	0.0505	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2,4-Trimethylbenzene	ND		0.234	0.0339	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
sec-Butylbenzene	ND		0.234	0.0549	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
p-Isopropyltoluene	ND		0.234	0.0558	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,3-Dichlorobenzene	ND		0.234	0.0294	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,4-Dichlorobenzene	ND		0.234	0.0248	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
n-Butylbenzene	ND		0.234	0.0643	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2-Dichlorobenzene	ND		0.234	0.0178	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2-Dibromo-3-chloropropane	ND		1.17	0.0664	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Hexachlorobutadiene	ND		0.234	0.133	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2,4-Trichlorobenzene	ND		0.234	0.0465	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
Naphthalene	**0.159**	**J**	0.467	0.0318	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00
1,2,3-Trichlorobenzene	ND		0.234	0.0829	mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*42.4 - 163*	*07/18/14 10:59*	*07/18/14 15:05*	*1.00*
1,2-dichloroethane-d4	*100*		*50 - 150*	*07/18/14 10:59*	*07/18/14 15:05*	*1.00*
Toluene-d8	*102*		*45.8 - 155*	*07/18/14 10:59*	*07/18/14 15:05*	*1.00*
4-bromofluorobenzene	*101*		*41.5 - 162*	*07/18/14 10:59*	*07/18/14 15:05*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		11.7		mg/kg dry	☼	07/18/14 10:59	07/18/14 15:05	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*41.5 - 162*	*07/18/14 10:59*	*07/18/14 15:05*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Acenaphthylene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Anthracene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Benzo[a]anthracene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Benzo[b]fluoranthene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Benzo[k]fluoranthene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Benzo[g,h,i]perylene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Benzo[a]pyrene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Bis(2-chloroethoxy)methane	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Client Sample ID: Ex3-5-5
Date Collected: 07/17/14 15:00
Date Received: 07/18/14 10:40

Lab Sample ID: SXG0129-04
Matrix: Soil
Percent Solids: 71.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Bis(2-ethylhexyl) phthalate	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
4-Bromophenyl phenyl ether	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Butyl benzyl phthalate	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Carbazole	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
4-Chloroaniline	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
4-Chloro-3-methylphenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2-Chloronaphthalene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2-Chlorophenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
4-Chlorophenyl phenyl ether	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Chrysene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Dibenz(a,h)anthracene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Dibenzofuran	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Di-n-butyl phthalate	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
1,2-Dichlorobenzene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
1,3-Dichlorobenzene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
1,4-Dichlorobenzene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
3,3'-Dichlorobenzidine	ND		2.3		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2,4-Dichlorophenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Diethyl phthalate	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2,4-Dimethylphenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Dimethyl phthalate	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
4,6-Dinitro-2-methylphenol	ND		2.3		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2,4-Dinitrophenol	ND		2.3		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2,4-Dinitrotoluene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2,6-Dinitrotoluene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Di-n-octyl phthalate	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Fluoranthene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Fluorene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Hexachlorobenzene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Hexachlorobutadiene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Hexachlorocyclopentadiene	ND		2.3		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Hexachloroethane	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Indeno[1,2,3-cd]pyrene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Isophorone	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2-Methylnaphthalene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2-Methylphenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
3 & 4 Methylphenol	ND		0.93		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Naphthalene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2-Nitroaniline	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
3-Nitroaniline	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
4-Nitroaniline	ND		2.3		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Nitrobenzene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2-Nitrophenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
4-Nitrophenol	ND		2.3		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
N-Nitrosodiphenylamine	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
N-Nitrosodi-n-propylamine	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
bis (2-chloroisopropyl) ether	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Pentachlorophenol	ND		0.93		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Client Sample ID: Ex3-5-5
Date Collected: 07/17/14 15:00
Date Received: 07/18/14 10:40

Lab Sample ID: SXG0129-04
Matrix: Soil
Percent Solids: 71.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Phenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Pyrene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
1,2,4-Trichlorobenzene	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2,4,5-Trichlorophenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
2,4,6-Trichlorophenol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Aniline	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
1,4-Dioxane	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Benzyl alcohol	ND		0.46		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1
Pyridine	ND		0.93		mg/Kg	☼	07/21/14 15:06	07/22/14 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*90*		*53 - 97*	*07/21/14 15:06*	*07/22/14 03:51*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*46 - 111*	*07/21/14 15:06*	*07/22/14 03:51*	*1*
Nitrobenzene-d5 (Surr)	*88*		*55 - 98*	*07/21/14 15:06*	*07/22/14 03:51*	*1*
Phenol-d5 (Surr)	*87*		*54 - 101*	*07/21/14 15:06*	*07/22/14 03:51*	*1*
Terphenyl-d14 (Surr)	*90*		*58 - 123*	*07/21/14 15:06*	*07/22/14 03:51*	*1*
2-Fluorobiphenyl (Surr)	*96*		*56 - 97*	*07/21/14 15:06*	*07/22/14 03:51*	*1*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**101**		12.4		mg/kg dry	☼	07/18/14 09:49	07/19/14 21:56	1.00
Heavy Oil Range Hydrocarbons	**209**		31.1		mg/kg dry	☼	07/18/14 09:49	07/19/14 21:56	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*		*50 - 150*	*07/18/14 09:49*	*07/19/14 21:56*	*1.00*
n-Triacontane-d62	*101*		*50 - 150*	*07/18/14 09:49*	*07/19/14 21:56*	*1.00*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14G0141-BLK1
Matrix: Soil
Analysis Batch: 14G0141

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0141_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Methylene chloride	ND		0.0200	0.00520	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2-Dichloropropane	ND		0.100	0.00600	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Bromodichloromethane	ND		0.100	0.00700	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Dibromochloromethane	ND		0.100	0.00600	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Bromoform	ND		0.100	0.0125	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0141-BLK1
Matrix: Soil
Analysis Batch: 14G0141

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0141_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*42.4 - 163*	*07/18/14 10:59*	*07/18/14 12:28*	*1.00*
1,2-dichloroethane-d4	*97.0*		*50 - 150*	*07/18/14 10:59*	*07/18/14 12:28*	*1.00*
Toluene-d8	*103*		*45.8 - 155*	*07/18/14 10:59*	*07/18/14 12:28*	*1.00*
4-bromofluorobenzene	*103*		*41.5 - 162*	*07/18/14 10:59*	*07/18/14 12:28*	*1.00*

Lab Sample ID: 14G0141-BS1
Matrix: Soil
Analysis Batch: 14G0141

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0141_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.419		mg/kg wet		83.8	60 - 140
Chloromethane	0.500	0.471	J	mg/kg wet		94.2	60 - 140
Vinyl chloride	0.500	0.489		mg/kg wet		97.8	60 - 140
Bromomethane	0.500	0.572		mg/kg wet		114	60 - 140
Chloroethane	0.500	0.522		mg/kg wet		104	60 - 140
Trichlorofluoromethane	0.500	0.501		mg/kg wet		100	60 - 140
1,1-Dichloroethene	0.500	0.457		mg/kg wet		91.4	76 - 187
Carbon disulfide	0.500	0.492		mg/kg wet		98.3	60 - 140
Methylene chloride	0.500	0.458		mg/kg wet		91.5	60 - 140
Acetone	2.50	1.64	J	mg/kg wet		65.8	60 - 140
trans-1,2-Dichloroethene	0.500	0.500		mg/kg wet		100	60 - 140
Methyl tert-butyl ether	0.500	0.490		mg/kg wet		97.9	79 - 127
1,1-Dichloroethane	0.500	0.514		mg/kg wet		103	60 - 140
cis-1,2-Dichloroethene	0.500	0.488		mg/kg wet		97.7	60 - 140
2,2-Dichloropropane	0.500	0.470		mg/kg wet		94.1	60 - 140
Bromochloromethane	0.500	0.494		mg/kg wet		98.9	60 - 140
Chloroform	0.500	0.494		mg/kg wet		98.9	60 - 140
Carbon tetrachloride	0.500	0.487		mg/kg wet		97.4	60 - 140

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0141-BS1
Matrix: Soil
Analysis Batch: 14G0141

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0141_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.489		mg/kg wet		97.8	60 - 140
2-Butanone	2.50	1.98		mg/kg wet		79.2	60 - 140
Hexane	0.500	0.478		mg/kg wet		95.7	50 - 150
1,1-Dichloropropene	0.500	0.502		mg/kg wet		100	60 - 140
Benzene	0.500	0.486		mg/kg wet		97.1	75.9 - 123
1,2-Dichloroethane (EDC)	0.500	0.511		mg/kg wet		102	60 - 140
Trichloroethene	0.500	0.478		mg/kg wet		95.7	82.7 - 120
Dibromomethane	0.500	0.477		mg/kg wet		95.4	60 - 140
1,2-Dichloropropane	0.500	0.362		mg/kg wet		72.3	60 - 140
Bromodichloromethane	0.500	0.470		mg/kg wet		94.0	60 - 140
cis-1,3-Dichloropropene	0.500	0.464		mg/kg wet		92.9	60 - 140
Toluene	0.500	0.498		mg/kg wet		99.6	77.3 - 126
4-Methyl-2-pentanone	2.50	2.45		mg/kg wet		98.0	60 - 140
trans-1,3-Dichloropropene	0.500	0.515		mg/kg wet		103	60 - 140
Tetrachloroethene	0.500	0.524		mg/kg wet		105	75 - 130
1,1,2-Trichloroethane	0.500	0.518		mg/kg wet		104	60 - 140
Dibromochloromethane	0.500	0.476		mg/kg wet		95.3	60 - 140
1,3-Dichloropropane	0.500	0.520		mg/kg wet		104	60 - 140
1,2-Dibromoethane	0.500	0.508		mg/kg wet		102	60 - 140
2-Hexanone	2.50	2.05		mg/kg wet		81.9	60 - 140
Ethylbenzene	0.500	0.482		mg/kg wet		96.4	80.7 - 120
Chlorobenzene	0.500	0.534		mg/kg wet		107	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.524		mg/kg wet		105	60 - 140
m,p-Xylene	0.500	0.488		mg/kg wet		97.5	86.1 - 120
o-Xylene	0.500	0.512		mg/kg wet		102	85.3 - 120
Styrene	0.500	0.518		mg/kg wet		104	60 - 140
Bromoform	0.500	0.493		mg/kg wet		98.6	60 - 140
Isopropylbenzene	0.500	0.498		mg/kg wet		99.5	60 - 140
n-Propylbenzene	0.500	0.511		mg/kg wet		102	60 - 140
1,1,2,2-Tetrachloroethane	0.500	0.531		mg/kg wet		106	60 - 140
Bromobenzene	0.500	0.500		mg/kg wet		100	60 - 140
1,3,5-Trimethylbenzene	0.500	0.510		mg/kg wet		102	60 - 140
2-Chlorotoluene	0.500	0.532		mg/kg wet		106	60 - 140
1,2,3-Trichloropropane	0.500	0.476		mg/kg wet		95.3	60 - 140
4-Chlorotoluene	0.500	0.514		mg/kg wet		103	60 - 140
tert-Butylbenzene	0.500	0.500		mg/kg wet		100	60 - 140
1,2,4-Trimethylbenzene	0.500	0.513		mg/kg wet		103	60 - 140
sec-Butylbenzene	0.500	0.502		mg/kg wet		100	60 - 140
p-Isopropyltoluene	0.500	0.501		mg/kg wet		100	60 - 140
1,3-Dichlorobenzene	0.500	0.513		mg/kg wet		103	60 - 140
1,4-Dichlorobenzene	0.500	0.533		mg/kg wet		107	60 - 140
n-Butylbenzene	0.500	0.515		mg/kg wet		103	60 - 140
1,2-Dichlorobenzene	0.500	0.524		mg/kg wet		105	60 - 140
1,2-Dibromo-3-chloropropane	0.500	0.451	J	mg/kg wet		90.2	60 - 140
Hexachlorobutadiene	0.500	0.524		mg/kg wet		105	60 - 140
1,2,4-Trichlorobenzene	0.500	0.446		mg/kg wet		89.3	60 - 140
Naphthalene	0.500	0.410		mg/kg wet		82.1	58.8 - 130
1,2,3-Trichlorobenzene	0.500	0.422		mg/kg wet		84.4	60 - 140

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0141-BS1
Matrix: Soil
Analysis Batch: 14G0141

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0141_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*102*		*42.4 - 163*
1,2-dichloroethane-d4	*102*		*50 - 150*
Toluene-d8	*101*		*45.8 - 155*
4-bromofluorobenzene	*102*		*41.5 - 162*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14G0141-BLK1
Matrix: Soil
Analysis Batch: 14G0141

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0141_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	15.1		0.1		ng/ml		07/18/14 10:59	07/18/14 12:28	1.00
Toluene-d8	15.5		0.1		ng/ml		07/18/14 10:59	07/18/14 12:28	1.00
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		07/18/14 10:59	07/18/14 12:28	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*103*		*41.5 - 162*	*07/18/14 10:59*	*07/18/14 12:28*	*1.00*

Lab Sample ID: 14G0141-BS2
Matrix: Soil
Analysis Batch: 14G0141

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0141_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromofluoromethane	15.0	14.9		ng/ml		99.5	42.4 - 163
Toluene-d8	15.0	15.6		ng/ml		104	45.8 - 155
Gasoline Range Hydrocarbons	50.0	51.1		mg/kg wet		102	74.4 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-bromofluorobenzene	*99.4*		*41.5 - 162*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-132701/1-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Acenaphthylene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Anthracene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Benzo[a]anthracene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Benzo[b]fluoranthene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Benzo[k]fluoranthene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Benzo[g,h,i]perylene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Benzo[a]pyrene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Bis(2-chloroethoxy)methane	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-132701/1-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
4-Bromophenyl phenyl ether	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Butyl benzyl phthalate	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Carbazole	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
4-Chloroaniline	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
4-Chloro-3-methylphenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2-Chloronaphthalene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2-Chlorophenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
4-Chlorophenyl phenyl ether	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Chrysene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Dibenz(a,h)anthracene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Dibenzofuran	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Di-n-butyl phthalate	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
1,2-Dichlorobenzene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
1,3-Dichlorobenzene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
1,4-Dichlorobenzene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
3,3'-Dichlorobenzidine	ND		1.6		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Diethyl phthalate	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2,4-Dimethylphenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Dimethyl phthalate	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
4,6-Dinitro-2-methylphenol	ND		1.6		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2,4-Dinitrophenol	ND		1.6		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2,4-Dinitrotoluene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2,6-Dinitrotoluene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Di-n-octyl phthalate	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Fluoranthene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Fluorene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Hexachlorobenzene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Hexachlorobutadiene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Hexachlorocyclopentadiene	ND		1.6		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Hexachloroethane	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Indeno[1,2,3-cd]pyrene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Isophorone	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2-Methylnaphthalene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2-Methylphenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
3 & 4 Methylphenol	ND		0.66		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Naphthalene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2-Nitroaniline	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
3-Nitroaniline	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
4-Nitroaniline	ND		1.6		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Nitrobenzene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2-Nitrophenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
4-Nitrophenol	ND		1.6		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
N-Nitrosodiphenylamine	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
N-Nitrosodi-n-propylamine	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
bis (2-chloroisopropyl) ether	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-132701/1-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 132701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.66		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Phenanthrene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Phenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Pyrene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
1,2,4-Trichlorobenzene	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2,4,5-Trichlorophenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
2,4,6-Trichlorophenol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Aniline	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
1,4-Dioxane	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Benzyl alcohol	ND		0.33		mg/Kg		07/21/14 15:06	07/22/14 00:19	1
Pyridine	ND		0.66		mg/Kg		07/21/14 15:06	07/22/14 00:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*95*		*53 - 97*	*07/21/14 15:06*	*07/22/14 00:19*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*46 - 111*	*07/21/14 15:06*	*07/22/14 00:19*	*1*
Nitrobenzene-d5 (Surr)	*90*		*55 - 98*	*07/21/14 15:06*	*07/22/14 00:19*	*1*
Phenol-d5 (Surr)	*94*		*54 - 101*	*07/21/14 15:06*	*07/22/14 00:19*	*1*
Terphenyl-d14 (Surr)	*92*		*58 - 123*	*07/21/14 15:06*	*07/22/14 00:19*	*1*
2-Fluorobiphenyl (Surr)	*97*		*56 - 97*	*07/21/14 15:06*	*07/22/14 00:19*	*1*

Lab Sample ID: LCS 160-132701/2-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6.67	6.02		mg/Kg		90	63 - 95
Acenaphthylene	6.67	6.16		mg/Kg		92	62 - 98
Anthracene	6.68	5.79		mg/Kg		87	63 - 100
Benzo[a]anthracene	6.67	6.29		mg/Kg		94	74 - 114
Benzo[b]fluoranthene	6.67	6.47		mg/Kg		97	68 - 109
Benzo[k]fluoranthene	6.68	5.96		mg/Kg		89	69 - 111
Benzo[g,h,i]perylene	6.67	6.78		mg/Kg		102	67 - 121
Benzo[a]pyrene	6.67	6.27		mg/Kg		94	63 - 103
Bis(2-chloroethoxy)methane	6.68	5.97		mg/Kg		89	62 - 91
Bis(2-chloroethyl)ether	6.67	5.96		mg/Kg		89	58 - 92
Bis(2-ethylhexyl) phthalate	6.67	6.69		mg/Kg		100	63 - 112
4-Bromophenyl phenyl ether	6.67	5.98		mg/Kg		90	63 - 106
Butyl benzyl phthalate	6.67	6.74		mg/Kg		101	59 - 111
Carbazole	6.69	5.65		mg/Kg		85	64 - 101
4-Chloroaniline	6.67	4.35		mg/Kg		65	43 - 70
4-Chloro-3-methylphenol	6.67	5.61		mg/Kg		84	58 - 95
2-Chloronaphthalene	6.67	6.43	*	mg/Kg		96	61 - 94
2-Chlorophenol	6.67	5.97		mg/Kg		90	60 - 91
4-Chlorophenyl phenyl ether	6.68	5.76		mg/Kg		86	61 - 96
Chrysene	6.67	6.27		mg/Kg		94	66 - 100
Dibenz(a,h)anthracene	6.67	7.05		mg/Kg		106	67 - 114
Dibenzofuran	6.67	5.88		mg/Kg		88	58 - 95
Di-n-butyl phthalate	6.67	5.84		mg/Kg		88	62 - 104

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-132701/2-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	6.67	6.08	*	mg/Kg		91	59 - 90
1,3-Dichlorobenzene	6.67	5.99	*	mg/Kg		90	57 - 88
1,4-Dichlorobenzene	6.67	5.89		mg/Kg		88	58 - 88
3,3'-Dichlorobenzidine	6.67	6.20	*	mg/Kg		93	50 - 90
2,4-Dichlorophenol	6.67	5.82		mg/Kg		87	59 - 90
Diethyl phthalate	6.67	5.68		mg/Kg		85	62 - 97
2,4-Dimethylphenol	6.67	5.91		mg/Kg		89	54 - 108
Dimethyl phthalate	6.67	5.89		mg/Kg		88	63 - 98
4,6-Dinitro-2-methylphenol	6.67	6.12		mg/Kg		92	31 - 112
2,4-Dinitrophenol	6.67	5.24		mg/Kg		79	20 - 100
2,4-Dinitrotoluene	6.68	5.82		mg/Kg		87	61 - 103
2,6-Dinitrotoluene	6.67	5.99		mg/Kg		90	63 - 99
Di-n-octyl phthalate	6.67	6.84		mg/Kg		103	61 - 111
Fluoranthene	6.67	5.57		mg/Kg		84	63 - 101
Fluorene	6.67	5.98		mg/Kg		90	62 - 96
Hexachlorobenzene	6.67	5.84		mg/Kg		88	62 - 106
Hexachlorobutadiene	6.67	5.91		mg/Kg		89	57 - 94
Hexachlorocyclopentadiene	6.67	5.91		mg/Kg		89	40 - 115
Hexachloroethane	6.67	6.03		mg/Kg		90	59 - 93
Indeno[1,2,3-cd]pyrene	6.67	7.01		mg/Kg		105	65 - 120
Isophorone	6.67	4.90		mg/Kg		74	57 - 86
2-Methylnaphthalene	6.65	5.69		mg/Kg		86	59 - 90
2-Methylphenol	6.68	5.75		mg/Kg		86	58 - 96
3 & 4 Methylphenol	6.67	6.34		mg/Kg		95	47 - 113
Naphthalene	6.67	5.99		mg/Kg		90	60 - 90
2-Nitroaniline	6.69	6.04		mg/Kg		90	58 - 105
3-Nitroaniline	6.67	5.57		mg/Kg		84	55 - 91
4-Nitroaniline	6.69	5.83		mg/Kg		87	57 - 94
Nitrobenzene	6.67	6.08		mg/Kg		91	58 - 95
2-Nitrophenol	6.68	6.23		mg/Kg		93	60 - 93
4-Nitrophenol	6.68	5.53		mg/Kg		83	54 - 101
N-Nitrosodiphenylamine	6.67	6.91		mg/Kg		104	78 - 133
N-Nitrosodi-n-propylamine	6.67	5.74		mg/Kg		86	60 - 104
bis (2-chloroisopropyl) ether	6.67	5.81		mg/Kg		87	47 - 105
Pentachlorophenol	6.67	5.68		mg/Kg		85	50 - 100
Phenanthrene	6.68	6.00		mg/Kg		90	63 - 99
Phenol	6.67	5.78		mg/Kg		87	53 - 89
Pyrene	6.67	6.58		mg/Kg		99	64 - 102
1,2,4-Trichlorobenzene	6.71	5.89		mg/Kg		88	60 - 91
2,4,5-Trichlorophenol	6.67	6.17		mg/Kg		93	59 - 94
2,4,6-Trichlorophenol	6.67	6.07		mg/Kg		91	59 - 95

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*93*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*86*		*46 - 111*
Nitrobenzene-d5 (Surr)	*90*		*55 - 98*
Phenol-d5 (Surr)	*88*		*54 - 101*
Terphenyl-d14 (Surr)	*94*		*58 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-132701/2-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 132701

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	98	X	56 - 97

Lab Sample ID: LCSD 160-132701/3-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 132701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	6.66	5.86		mg/Kg		88	63 - 95	3	20
Acenaphthylene	6.66	6.02		mg/Kg		90	62 - 98	2	20
Anthracene	6.67	5.74		mg/Kg		86	63 - 100	1	20
Benzo[a]anthracene	6.65	6.19		mg/Kg		93	74 - 114	2	20
Benzo[b]fluoranthene	6.65	6.21		mg/Kg		93	68 - 109	4	20
Benzo[k]fluoranthene	6.67	5.85		mg/Kg		88	69 - 111	2	20
Benzo[g,h,i]perylene	6.66	6.70		mg/Kg		101	67 - 121	1	20
Benzo[a]pyrene	6.65	6.12		mg/Kg		92	63 - 103	2	20
Bis(2-chloroethoxy)methane	6.67	5.98		mg/Kg		90	62 - 91	0	20
Bis(2-chloroethyl)ether	6.65	5.78		mg/Kg		87	58 - 92	3	20
Bis(2-ethylhexyl) phthalate	6.66	6.58		mg/Kg		99	63 - 112	2	20
4-Bromophenyl phenyl ether	6.65	5.72		mg/Kg		86	63 - 106	5	20
Butyl benzyl phthalate	6.66	6.49		mg/Kg		97	59 - 111	4	20
Carbazole	6.67	5.62		mg/Kg		84	64 - 101	1	20
4-Chloroaniline	6.65	4.47		mg/Kg		67	43 - 70	3	20
4-Chloro-3-methylphenol	6.66	5.78		mg/Kg		87	58 - 95	3	20
2-Chloronaphthalene	6.65	6.19		mg/Kg		93	61 - 94	4	20
2-Chlorophenol	6.65	5.83		mg/Kg		88	60 - 91	2	20
4-Chlorophenyl phenyl ether	6.67	5.81		mg/Kg		87	61 - 96	1	20
Chrysene	6.66	6.17		mg/Kg		93	66 - 100	2	20
Dibenz(a,h)anthracene	6.66	7.03		mg/Kg		106	67 - 114	0	20
Dibenzofuran	6.66	5.74		mg/Kg		86	58 - 95	2	20
Di-n-butyl phthalate	6.66	5.81		mg/Kg		87	62 - 104	1	20
1,2-Dichlorobenzene	6.65	5.79		mg/Kg		87	59 - 90	5	20
1,3-Dichlorobenzene	6.66	5.55		mg/Kg		83	57 - 88	8	20
1,4-Dichlorobenzene	6.66	5.63		mg/Kg		85	58 - 88	4	20
3,3'-Dichlorobenzidine	6.66	6.14	*	mg/Kg		92	50 - 90	1	20
2,4-Dichlorophenol	6.65	5.80		mg/Kg		87	59 - 90	0	20
Diethyl phthalate	6.65	5.71		mg/Kg		86	62 - 97	1	20
2,4-Dimethylphenol	6.65	5.93		mg/Kg		89	54 - 108	0	20
Dimethyl phthalate	6.66	5.85		mg/Kg		88	63 - 98	1	20
4,6-Dinitro-2-methylphenol	6.65	6.20		mg/Kg		93	31 - 112	1	20
2,4-Dinitrophenol	6.65	5.43		mg/Kg		82	20 - 100	4	20
2,4-Dinitrotoluene	6.67	5.78		mg/Kg		87	61 - 103	1	20
2,6-Dinitrotoluene	6.66	6.00		mg/Kg		90	63 - 99	0	20
Di-n-octyl phthalate	6.65	6.73		mg/Kg		101	61 - 111	2	20
Fluoranthene	6.65	5.53		mg/Kg		83	63 - 101	1	20
Fluorene	6.65	5.96		mg/Kg		90	62 - 96	0	20
Hexachlorobenzene	6.65	5.63		mg/Kg		85	62 - 106	4	20
Hexachlorobutadiene	6.65	5.68		mg/Kg		85	57 - 94	4	20
Hexachlorocyclopentadiene	6.66	5.72		mg/Kg		86	40 - 115	3	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-132701/3-A
Matrix: Solid
Analysis Batch: 133102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 132701

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane			6.65	5.79		mg/Kg		87	59 - 93	4	20
Indeno[1,2,3-cd]pyrene			6.65	6.98		mg/Kg		105	65 - 120	0	20
Isophorone			6.65	4.88		mg/Kg		73	57 - 86	0	20
2-Methylnaphthalene			6.64	5.64		mg/Kg		85	59 - 90	1	20
2-Methylphenol			6.67	5.74		mg/Kg		86	58 - 96	0	20
3 & 4 Methylphenol			6.65	6.39		mg/Kg		96	47 - 113	1	20
Naphthalene			6.66	5.89		mg/Kg		88	60 - 90	2	20
2-Nitroaniline			6.67	6.04		mg/Kg		91	58 - 105	0	20
3-Nitroaniline			6.65	5.62		mg/Kg		84	55 - 91	1	20
4-Nitroaniline			6.68	5.96		mg/Kg		89	57 - 94	2	20
Nitrobenzene			6.65	5.98		mg/Kg		90	58 - 95	2	20
2-Nitrophenol			6.67	6.00		mg/Kg		90	60 - 93	4	20
4-Nitrophenol			6.67	5.40		mg/Kg		81	54 - 101	2	20
N-Nitrosodiphenylamine			6.65	6.77		mg/Kg		102	78 - 133	2	20
N-Nitrosodi-n-propylamine			6.65	5.65		mg/Kg		85	60 - 104	2	20
bis (2-chloroisopropyl) ether			6.65	5.76		mg/Kg		87	47 - 105	1	20
Pentachlorophenol			6.66	5.74		mg/Kg		86	50 - 100	1	20
Phenanthrene			6.67	5.87		mg/Kg		88	63 - 99	2	20
Phenol			6.66	5.82		mg/Kg		87	53 - 89	1	20
Pyrene			6.65	6.36		mg/Kg		96	64 - 102	4	20
1,2,4-Trichlorobenzene			6.70	5.71		mg/Kg		85	60 - 91	3	20
2,4,5-Trichlorophenol			6.65	6.05		mg/Kg		91	59 - 94	2	20
2,4,6-Trichlorophenol			6.66	5.93		mg/Kg		89	59 - 95	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*90*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*86*		*46 - 111*
Nitrobenzene-d5 (Surr)	*89*		*55 - 98*
Phenol-d5 (Surr)	*87*		*54 - 101*
Terphenyl-d14 (Surr)	*90*		*58 - 123*
2-Fluorobiphenyl (Surr)	*95*		*56 - 97*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14G0139-BLK1
Matrix: Soil
Analysis Batch: 14G0139

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0139_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		07/18/14 09:49	07/19/14 11:29	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		07/18/14 09:49	07/19/14 11:29	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96.8*		*50 - 150*	*07/18/14 09:49*	*07/19/14 11:29*	*1.00*
n-Triacontane-d62	*81.8*		*50 - 150*	*07/18/14 09:49*	*07/19/14 11:29*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14G0139-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0139 — **Prep Batch: 14G0139_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	60.6		mg/kg wet		90.9	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*99.4*		*50 - 150*
n-Triacontane-d62	*83.6*		*50 - 150*

Lab Sample ID: 14G0139-DUP1 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0139 — **Prep Batch: 14G0139_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	3.40			3.46		mg/kg dry	☼			1.89	40
Heavy Oil Range Hydrocarbons	16.0			14.9		mg/kg dry	☼			7.30	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*100*		*50 - 150*
n-Triacontane-d62	*85.8*		*50 - 150*

Lab Sample ID: 14G0139-DUP2 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0139 — **Prep Batch: 14G0139_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	2.22			2.65		mg/kg dry	☼			17.6	40
Heavy Oil Range Hydrocarbons	7.55			7.34		mg/kg dry	☼			2.86	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*103*		*50 - 150*
n-Triacontane-d62	*86.2*		*50 - 150*

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Client Sample ID: Ex3-2-4

Lab Sample ID: SXG0129-01

Date Collected: 07/17/14 14:30
Matrix: Soil
Date Received: 07/18/14 10:40
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.01	14G0141_P	07/18/14 10:59	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0141	07/18/14 13:35	CBW	TAL SPK
Total	Prep	EPA 3550B		0.953	14G0139_P	07/18/14 09:49	RA	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14G0139	07/21/14 17:08	MS	TAL SPK
Total	Prep	Wet Chem		1.00	14G0148_P	07/18/14 14:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0148	07/21/14 13:52	MS	TAL SPK

Client Sample ID: Ex3-3-4

Lab Sample ID: SXG0129-02

Date Collected: 07/17/14 14:40
Matrix: Soil
Date Received: 07/18/14 10:40
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.25	14G0141_P	07/18/14 10:59	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0141	07/18/14 13:58	CBW	TAL SPK
Total	Prep	EPA 3550B		0.746	14G0139_P	07/18/14 09:49	RA	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0139	07/19/14 21:09	MS	TAL SPK

Client Sample ID: Ex3-4-4

Lab Sample ID: SXG0129-03

Date Collected: 07/17/14 14:50
Matrix: Soil
Date Received: 07/18/14 10:40
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.965	14G0141_P	07/18/14 10:59	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0141	07/18/14 14:20	CBW	TAL SPK
Total	Prep	EPA 3550B		0.852	14G0139_P	07/18/14 09:49	RA	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0139	07/19/14 21:32	MS	TAL SPK

Client Sample ID: Ex3-5-5

Lab Sample ID: SXG0129-04

Date Collected: 07/17/14 15:00
Matrix: Soil
Date Received: 07/18/14 10:40
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.39	14G0141_P	07/18/14 10:59	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0141	07/18/14 15:05	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.39	14G0141_P	07/18/14 10:59	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0141	07/18/14 15:05	CBW	TAL SPK
Total/NA	Prep	3550C			132701	07/21/14 15:06	KKA	TAL SL
Total/NA	Analysis	8270D		1	133102	07/22/14 03:51	JSW	TAL SL
Total	Prep	EPA 3550B		0.890	14G0139_P	07/18/14 09:49	RA	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0139	07/19/14 21:56	MS	TAL SPK
Total/NA	Analysis	Moisture		1	132487	07/19/14 08:29	SDB	TAL SL

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15
California	NELAP	9	2886	03-31-15
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-15
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14 *
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15
Maryland	State Program	3	310	09-30-15
Missouri	State Program	7	780	06-30-15
Nevada	State Program	9	MO000542013-1	07-31-15
New Jersey	NELAP	2	MO002	06-30-15
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	03-31-15
North Dakota	State Program	8	R207	06-30-14 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-15
Pennsylvania	NELAP	3	68-00540	02-28-15
South Carolina	State Program	4	85002001	06-30-14 *
Texas	NELAP	6	T104704193-13-6	07-31-15
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-15
Virginia	NELAP	3	460230	06-14-15
Washington	State Program	10	C592	08-30-15
West Virginia DEP	State Program	3	381	12-31-14 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0129

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
Moisture	Percent Moisture	EPA	TAL SL
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXG0129

CLIENT: GeoEngineers

REPORT TO: dlauder@geoengineers.com

ADDRESS: 523 E Second Ave
Spokane, WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere, WA

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: NWTPH-Dx/Gx	NWTPH-Dx	VOCs	SVOCs	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 EX3-2-4	7/17/2014 1430		X	X			S	3		
2 EX3-3-4	1440		X	X				3		
3 EX3-4-4	1450		X	X				3		
4 EX3-5-5	1500		X	X	X	X		4		
5										
6										
7										
8										
9										
10										

RELEASED BY: Josh Lee
PRINT NAME: Josh Lee FIRM: GEO DATE: 7/17/2014 TIME: 1600

RECEIVED BY: Cat Stapleton
PRINT NAME: Cat Stapleton FIRM: TestAmerica DATE: 7-18-14 TIME: 10:40

RELEASED BY:
PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY:
PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP: 8.9

PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXG0129	Client: GeoEngineers	Project: Cashmere, WA
Date/Time Received: 7-18-14 10:40	By: CS	

Samples Delivered By: ☒ Shipping Service ☐ Courier ☐ Client ☐ Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	Y			
Custody Seals are present and intact:			Y	
Are CoC documents present:	Y			
Necessary signatures:	Y			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry Ice ☐ None ☐ Other: _____

Temperature: 8.9 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐ Not enough ice ☒ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other: _____

Log-In Phase Date/Time: 7-18-14 10:53 By: CB	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:		X		Ex 3-4-4, 4oz jar shattered Ex 3-3-4 one 40ml Methyl broken
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)	Y			
Are dissolved parameters field filtered			Y	
Do any samples need to be filtered or preserved by the lab			Y	
Does this project require quick turnaround analysis	X			2 days
Are there any short hold time tests (see chart below)		Y		
Are any samples within 2 days of or past expiration		Y		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		Y		
If yes, was a CAR generated #			Y	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXG0146
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA
Revision: 1

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
11/5/2014 3:21:40 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Definitions 5
Client Sample Results 6
QC Sample Results 11
Chronicle 23
Certification Summary 25
Method Summary 26
Chain of Custody 27

Case Narrative

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Job ID: SXG0146

Laboratory: TestAmerica Spokane

Narrative

Revision1: The 8270 SVOC was initially evaluated and reported down to the MDL. Per the client's request the data has be re-evaluated to the RL (reporting limit) only and the data is reflected in the amended report. This final report replaces the final report generated on 07/25/2014.

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXG0146-01	EX3-6-4	Soil	07/21/14 10:00	07/22/14 09:55
SXG0146-02	EX4-1-6	Soil	07/21/14 12:30	07/22/14 09:55
SXG0146-03	EX4-2-6	Soil	07/21/14 12:40	07/22/14 09:55
SXG0146-04	EX4-3-6	Soil	07/21/14 12:50	07/22/14 09:55
SXG0146-05	EX4-4-6	Soil	07/21/14 13:00	07/22/14 09:55

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: EX3-6-4

Lab Sample ID: SXG0146-01

Date Collected: 07/21/14 10:00

Matrix: Soil

Date Received: 07/22/14 09:55

Percent Solids: 92.6

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.72		mg/kg dry	☼	07/22/14 10:56	07/22/14 14:11	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*41.5 - 162*	*07/22/14 10:56*	*07/22/14 14:11*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.1		mg/kg dry	☼	07/23/14 10:49	07/23/14 18:07	1.00
Heavy Oil Range Hydrocarbons	ND		25.2		mg/kg dry	☼	07/23/14 10:49	07/23/14 18:07	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97.9*		*50 - 150*	*07/23/14 10:49*	*07/23/14 18:07*	*1.00*
n-Triacontane-d62	*88.5*		*50 - 150*	*07/23/14 10:49*	*07/23/14 18:07*	*1.00*

Client Sample ID: EX4-1-6

Lab Sample ID: SXG0146-02

Date Collected: 07/21/14 12:30

Matrix: Soil

Date Received: 07/22/14 09:55

Percent Solids: 82.5

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**13.5**		7.06		mg/kg dry	☼	07/22/14 10:56	07/22/14 14:34	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*41.5 - 162*	*07/22/14 10:56*	*07/22/14 14:34*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		12.0		mg/kg dry	☼	07/23/14 10:49	07/23/14 18:31	1.00
Heavy Oil Range Hydrocarbons	ND		29.9		mg/kg dry	☼	07/23/14 10:49	07/23/14 18:31	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94.2*		*50 - 150*	*07/23/14 10:49*	*07/23/14 18:31*	*1.00*
n-Triacontane-d62	*94.9*		*50 - 150*	*07/23/14 10:49*	*07/23/14 18:31*	*1.00*

Client Sample ID: EX4-2-6

Lab Sample ID: SXG0146-03

Date Collected: 07/21/14 12:40

Matrix: Soil

Date Received: 07/22/14 09:55

Percent Solids: 92.1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**4.98**		4.60		mg/kg dry	☼	07/22/14 10:56	07/22/14 14:56	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*41.5 - 162*	*07/22/14 10:56*	*07/22/14 14:56*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		9.94		mg/kg dry	☼	07/23/14 10:49	07/23/14 18:54	1.00
Heavy Oil Range Hydrocarbons	ND		24.9		mg/kg dry	☼	07/23/14 10:49	07/23/14 18:54	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97.7*		*50 - 150*	*07/23/14 10:49*	*07/23/14 18:54*	*1.00*

Client Sample ID: EX4-2-6

Lab Sample ID: SXG0146-03

Date Collected: 07/21/14 12:40
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 92.1

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Triacontane-d62	*88.3*		*50 - 150*	*07/23/14 10:49*	*07/23/14 18:54*	*1.00*

Client Sample ID: EX4-3-6

Lab Sample ID: SXG0146-04

Date Collected: 07/21/14 12:50
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 94.2

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**10.0**		5.24		mg/kg dry	☼	07/22/14 10:56	07/22/14 15:19	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*100*		*41.5 - 162*	*07/22/14 10:56*	*07/22/14 15:19*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.3		mg/kg dry	☼	07/23/14 10:49	07/23/14 20:03	1.00
Heavy Oil Range Hydrocarbons	ND		25.7		mg/kg dry	☼	07/23/14 10:49	07/23/14 20:03	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98.6*		*50 - 150*	*07/23/14 10:49*	*07/23/14 20:03*	*1.00*
n-Triacontane-d62	*87.0*		*50 - 150*	*07/23/14 10:49*	*07/23/14 20:03*	*1.00*

Client Sample ID: EX4-4-6

Lab Sample ID: SXG0146-05

Date Collected: 07/21/14 13:00
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 81.1

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.172	0.0160	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Chloromethane	ND		0.859	0.00911	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Vinyl chloride	ND		0.103	0.0107	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Bromomethane	ND		0.859	0.0526	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Chloroethane	ND		0.172	0.0421	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Trichlorofluoromethane	ND		0.0516	0.0136	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,1-Dichloroethene	ND		0.172	0.0218	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Carbon disulfide	ND		0.172	0.0184	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Methylene chloride	ND		0.0344	0.00894	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Acetone	**0.423**	**J**	5.16	0.150	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
trans-1,2-Dichloroethene	ND		0.172	0.0177	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Methyl tert-butyl ether	ND		0.0859	0.00550	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,1-Dichloroethane	ND		0.172	0.0194	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
cis-1,2-Dichloroethene	ND		0.172	0.00980	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
2,2-Dichloropropane	ND		0.172	0.0292	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Bromochloromethane	ND		0.172	0.00670	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Chloroform	ND		0.172	0.0132	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Carbon tetrachloride	ND		0.172	0.0357	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,1,1-Trichloroethane	ND		0.172	0.0297	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
2-Butanone	ND		1.72	0.189	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Hexane	ND		0.172	0.0139	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,1-Dichloropropene	ND		0.172	0.0299	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Client Sample ID: EX4-4-6
Date Collected: 07/21/14 13:00
Date Received: 07/22/14 09:55

Lab Sample ID: SXG0146-05
Matrix: Soil
Percent Solids: 81.1

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0258	0.0167	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2-Dichloroethane (EDC)	ND		0.172	0.00842	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Trichloroethene	ND		0.0430	0.0220	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Dibromomethane	ND		0.172	0.0156	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2-Dichloropropane	ND		0.172	0.0103	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Bromodichloromethane	ND		0.172	0.0120	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
cis-1,3-Dichloropropene	ND		0.172	0.0107	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Toluene	ND		0.172	0.0229	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
4-Methyl-2-pentanone	ND		1.72	0.0351	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
trans-1,3-Dichloropropene	ND		0.172	0.0113	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Tetrachloroethene	ND		0.0687	0.0302	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,1,2-Trichloroethane	ND		0.172	0.0107	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Dibromochloromethane	ND		0.172	0.0103	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,3-Dichloropropane	ND		0.172	0.0127	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2-Dibromoethane	ND		0.0172	0.00997	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
2-Hexanone	ND		1.72	0.0799	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Ethylbenzene	ND		0.172	0.0278	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Chlorobenzene	ND		0.172	0.0131	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,1,1,2-Tetrachloroethane	ND		0.172	0.0175	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
m,p-Xylene	ND		0.687	0.0292	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
o-Xylene	ND		0.344	0.0225	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Styrene	ND		0.172	0.0160	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Bromoform	ND		0.172	0.0215	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Isopropylbenzene	ND		0.172	0.0327	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
n-Propylbenzene	ND		0.172	0.0356	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,1,2,2-Tetrachloroethane	ND		0.172	0.0129	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Bromobenzene	ND		0.172	0.0162	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,3,5-Trimethylbenzene	ND		0.172	0.0320	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
2-Chlorotoluene	ND		0.172	0.0280	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2,3-Trichloropropane	ND		0.172	0.0144	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
4-Chlorotoluene	ND		0.172	0.0246	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
tert-Butylbenzene	ND		0.172	0.0371	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2,4-Trimethylbenzene	ND		0.172	0.0249	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
sec-Butylbenzene	ND		0.172	0.0404	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
p-Isopropyltoluene	ND		0.172	0.0411	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,3-Dichlorobenzene	ND		0.172	0.0217	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,4-Dichlorobenzene	ND		0.172	0.0182	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
n-Butylbenzene	ND		0.172	0.0473	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2-Dichlorobenzene	ND		0.172	0.0131	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2-Dibromo-3-chloropropane	ND		0.859	0.0488	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Hexachlorobutadiene	ND		0.172	0.0980	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2,4-Trichlorobenzene	ND		0.172	0.0342	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
Naphthalene	ND		0.344	0.0234	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00
1,2,3-Trichlorobenzene	ND		0.172	0.0610	mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*80 - 120*	*07/22/14 10:56*	*07/22/14 15:41*	*1.00*
1,2-dichloroethane-d4	*101*		*74.7 - 120*	*07/22/14 10:56*	*07/22/14 15:41*	*1.00*
Toluene-d8	*102*		*78.5 - 125*	*07/22/14 10:56*	*07/22/14 15:41*	*1.00*
4-bromofluorobenzene	*99.8*		*69.8 - 140*	*07/22/14 10:56*	*07/22/14 15:41*	*1.00*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Client Sample ID: EX4-4-6
Date Collected: 07/21/14 13:00
Date Received: 07/22/14 09:55

Lab Sample ID: SXG0146-05
Matrix: Soil
Percent Solids: 81.1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.59		mg/kg dry	☼	07/22/14 10:56	07/22/14 15:41	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*99.8*		*41.5 - 162*	*07/22/14 10:56*	*07/22/14 15:41*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		11.3		mg/kg dry	☼	07/23/14 10:49	07/23/14 20:26	1.00
Heavy Oil Range Hydrocarbons	**36.7**		28.4		mg/kg dry	☼	07/23/14 10:49	07/23/14 20:26	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99.2*		*50 - 150*	*07/23/14 10:49*	*07/23/14 20:26*	*1.00*
n-Triacontane-d62	*92.8*		*50 - 150*	*07/23/14 10:49*	*07/23/14 20:26*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
1,2-Dichlorobenzene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
1,3-Dichlorobenzene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
1,4-Dichlorobenzene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
1,4-Dioxane	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2,4,5-Trichlorophenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2,4,6-Trichlorophenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2,4-Dichlorophenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2,4-Dimethylphenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2,4-Dinitrophenol	ND		2.0		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2,4-Dinitrotoluene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2,6-Dinitrotoluene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2-Chloronaphthalene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2-Chlorophenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2-Methylnaphthalene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2-Methylphenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2-Nitroaniline	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
2-Nitrophenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
3 & 4 Methylphenol	ND		0.81		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
3,3'-Dichlorobenzidine	ND		2.0		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
3-Nitroaniline	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
4,6-Dinitro-2-methylphenol	ND		2.0		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
4-Bromophenyl phenyl ether	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
4-Chloro-3-methylphenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
4-Chloroaniline	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
4-Chlorophenyl phenyl ether	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
4-Nitroaniline	ND		2.0		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
4-Nitrophenol	ND		2.0		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Acenaphthene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Acenaphthylene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Aniline	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Anthracene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Benzo[a]anthracene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Benzo[a]pyrene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Client Sample ID: EX4-4-6
Date Collected: 07/21/14 13:00
Date Received: 07/22/14 09:55

Lab Sample ID: SXG0146-05
Matrix: Soil
Percent Solids: 80.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Benzo[g,h,i]perylene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Benzo[k]fluoranthene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Benzyl alcohol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
bis (2-chloroisopropyl) ether	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Bis(2-chloroethoxy)methane	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Bis(2-chloroethyl)ether	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Bis(2-ethylhexyl) phthalate	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Butyl benzyl phthalate	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Carbazole	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Chrysene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Dibenz(a,h)anthracene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Dibenzofuran	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Diethyl phthalate	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Dimethyl phthalate	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Di-n-butyl phthalate	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Di-n-octyl phthalate	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Fluoranthene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Fluorene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Hexachlorobenzene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Hexachlorobutadiene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Hexachlorocyclopentadiene	ND		2.0		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Hexachloroethane	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Indeno[1,2,3-cd]pyrene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Isophorone	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Naphthalene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Nitrobenzene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
N-Nitrosodi-n-propylamine	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
N-Nitrosodiphenylamine	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Pentachlorophenol	ND		0.81		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Phenanthrene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Phenol	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Pyrene	ND		0.41		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1
Pyridine	ND		0.81		mg/Kg dry	☼	07/24/14 08:27	07/24/14 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*46 - 111*	*07/24/14 08:27*	*07/24/14 20:37*	*1*
2-Fluorobiphenyl (Surr)	*94*		*56 - 97*	*07/24/14 08:27*	*07/24/14 20:37*	*1*
2-Fluorophenol (Surr)	*84*		*53 - 97*	*07/24/14 08:27*	*07/24/14 20:37*	*1*
Nitrobenzene-d5 (Surr)	*88*		*55 - 98*	*07/24/14 08:27*	*07/24/14 20:37*	*1*
Phenol-d5 (Surr)	*84*		*54 - 101*	*07/24/14 08:27*	*07/24/14 20:37*	*1*
Terphenyl-d14 (Surr)	*88*		*58 - 123*	*07/24/14 08:27*	*07/24/14 20:37*	*1*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14G0156-BLK1
Matrix: Soil
Analysis Batch: 14G0156

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0156_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Methylene chloride	ND		0.0200	0.00520	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2-Dichloropropane	ND		0.100	0.00600	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Bromodichloromethane	ND		0.100	0.00700	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Dibromochloromethane	ND		0.100	0.00600	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Bromoform	ND		0.100	0.0125	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0156-BLK1
Matrix: Soil
Analysis Batch: 14G0156

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0156_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*80 - 120*	*07/22/14 10:56*	*07/22/14 12:19*	*1.00*
1,2-dichloroethane-d4	*102*		*74.7 - 120*	*07/22/14 10:56*	*07/22/14 12:19*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*07/22/14 10:56*	*07/22/14 12:19*	*1.00*
4-bromofluorobenzene	*99.3*		*69.8 - 140*	*07/22/14 10:56*	*07/22/14 12:19*	*1.00*

Lab Sample ID: 14G0156-BS1
Matrix: Soil
Analysis Batch: 14G0156

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0156_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.578		mg/kg wet		116	60.5 - 130
Chloromethane	0.500	0.562		mg/kg wet		112	68.9 - 130
Vinyl chloride	0.500	0.568		mg/kg wet		114	74 - 142
Bromomethane	0.500	0.632		mg/kg wet		126	70.5 - 146
Chloroethane	0.500	0.546		mg/kg wet		109	60 - 140
Trichlorofluoromethane	0.500	0.548		mg/kg wet		110	70.5 - 139
1,1-Dichloroethene	0.500	0.500		mg/kg wet		100	72.9 - 135
Carbon disulfide	0.500	0.555		mg/kg wet		111	66.8 - 146
Methylene chloride	0.500	0.386		mg/kg wet		77.3	60 - 140
Acetone	2.50	1.40	J	mg/kg wet		56.0	39.2 - 145
trans-1,2-Dichloroethene	0.500	0.524		mg/kg wet		105	60 - 140
Methyl tert-butyl ether	0.500	0.536		mg/kg wet		107	60 - 140
1,1-Dichloroethane	0.500	0.539		mg/kg wet		108	80 - 131
cis-1,2-Dichloroethene	0.500	0.507		mg/kg wet		101	80 - 126
2,2-Dichloropropane	0.500	0.501		mg/kg wet		100	71.5 - 132
Bromochloromethane	0.500	0.528		mg/kg wet		106	69.1 - 139
Chloroform	0.500	0.520		mg/kg wet		104	80 - 130
Carbon tetrachloride	0.500	0.515		mg/kg wet		103	73.6 - 148

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0156-BS1
Matrix: Soil
Analysis Batch: 14G0156

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0156_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.522		mg/kg wet		104	74.3 - 138
2-Butanone	2.50	1.80		mg/kg wet		72.1	56.1 - 124
Hexane	0.500	0.528		mg/kg wet		106	77 - 130
1,1-Dichloropropene	0.500	0.536		mg/kg wet		107	78.3 - 132
Benzene	0.500	0.511		mg/kg wet		102	75.8 - 123
1,2-Dichloroethane (EDC)	0.500	0.548		mg/kg wet		110	71.1 - 142
Trichloroethene	0.500	0.506		mg/kg wet		101	78.5 - 134
Dibromomethane	0.500	0.530		mg/kg wet		106	80 - 129
1,2-Dichloropropane	0.500	0.378		mg/kg wet		75.6	50.8 - 155
Bromodichloromethane	0.500	0.514		mg/kg wet		103	80 - 128
cis-1,3-Dichloropropene	0.500	0.500		mg/kg wet		100	80 - 126
Toluene	0.500	0.512		mg/kg wet		102	76.6 - 125
4-Methyl-2-pentanone	2.50	2.71		mg/kg wet		108	66.4 - 131
trans-1,3-Dichloropropene	0.500	0.557		mg/kg wet		111	79 - 124
Tetrachloroethene	0.500	0.546		mg/kg wet		109	80 - 127
1,1,2-Trichloroethane	0.500	0.558		mg/kg wet		112	78.4 - 125
Dibromochloromethane	0.500	0.512		mg/kg wet		102	78.4 - 127
1,3-Dichloropropane	0.500	0.550		mg/kg wet		110	80 - 125
1,2-Dibromoethane	0.500	0.552		mg/kg wet		110	77.1 - 129
2-Hexanone	2.50	2.06		mg/kg wet		82.2	64.6 - 127
Ethylbenzene	0.500	0.504		mg/kg wet		101	77.3 - 121
Chlorobenzene	0.500	0.555		mg/kg wet		111	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.550		mg/kg wet		110	80 - 120
m,p-Xylene	0.500	0.506		mg/kg wet		101	77.7 - 124
o-Xylene	0.500	0.534		mg/kg wet		107	76.7 - 129
Styrene	0.500	0.532		mg/kg wet		106	80 - 128
Bromoform	0.500	0.543		mg/kg wet		109	76 - 135
Isopropylbenzene	0.500	0.514		mg/kg wet		103	78.4 - 131
n-Propylbenzene	0.500	0.510		mg/kg wet		102	80 - 120
1,1,2,2-Tetrachloroethane	0.500	0.564		mg/kg wet		113	60.3 - 137
Bromobenzene	0.500	0.506		mg/kg wet		101	60 - 140
1,3,5-Trimethylbenzene	0.500	0.511		mg/kg wet		102	80 - 121
2-Chlorotoluene	0.500	0.538		mg/kg wet		108	80 - 123
1,2,3-Trichloropropane	0.500	0.519		mg/kg wet		104	59.9 - 131
4-Chlorotoluene	0.500	0.519		mg/kg wet		104	80 - 124
tert-Butylbenzene	0.500	0.512		mg/kg wet		102	78.8 - 130
1,2,4-Trimethylbenzene	0.500	0.519		mg/kg wet		104	80 - 122
sec-Butylbenzene	0.500	0.510		mg/kg wet		102	80 - 120
p-Isopropyltoluene	0.500	0.510		mg/kg wet		102	67.2 - 147
1,3-Dichlorobenzene	0.500	0.541		mg/kg wet		108	80 - 122
1,4-Dichlorobenzene	0.500	0.522		mg/kg wet		104	80 - 125
n-Butylbenzene	0.500	0.520		mg/kg wet		104	80 - 120
1,2-Dichlorobenzene	0.500	0.546		mg/kg wet		109	80 - 124
1,2-Dibromo-3-chloropropane	0.500	0.572		mg/kg wet		114	60 - 140
Hexachlorobutadiene	0.500	0.517		mg/kg wet		103	71.8 - 138
1,2,4-Trichlorobenzene	0.500	0.486		mg/kg wet		97.2	75.3 - 126
Naphthalene	0.500	0.458		mg/kg wet		91.6	55.1 - 142
1,2,3-Trichlorobenzene	0.500	0.474		mg/kg wet		94.9	69.6 - 127

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0156-BS1
Matrix: Soil
Analysis Batch: 14G0156

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0156_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*102*		*80 - 120*
1,2-dichloroethane-d4	*105*		*74.7 - 120*
Toluene-d8	*101*		*78.5 - 125*
4-bromofluorobenzene	*98.7*		*69.8 - 140*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14G0156-BLK1
Matrix: Soil
Analysis Batch: 14G0156

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0156_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		07/22/14 10:56	07/22/14 12:19	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*99.3*		*41.5 - 162*	*07/22/14 10:56*	*07/22/14 12:19*	*1.00*

Lab Sample ID: 14G0156-BS2
Matrix: Soil
Analysis Batch: 14G0156

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0156_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	46.3		mg/kg wet		92.7	74.4 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*101*		*41.5 - 162*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14G0162-BLK1
Matrix: Soil
Analysis Batch: 14G0162

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0162_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		07/23/14 10:16	07/23/14 12:33	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		07/23/14 10:16	07/23/14 12:33	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91.9*		*50 - 150*	*07/23/14 10:16*	*07/23/14 12:33*	*1.00*
n-Triacontane-d62	*85.0*		*50 - 150*	*07/23/14 10:16*	*07/23/14 12:33*	*1.00*

Lab Sample ID: 14G0162-BS1
Matrix: Soil
Analysis Batch: 14G0162

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0162_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Hydrocarbons	66.7	59.2		mg/kg wet		88.7	50 - 150

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14G0162-BS1
Matrix: Soil
Analysis Batch: 14G0162

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0162_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*98.3*		*50 - 150*
n-Triacontane-d62	*86.3*		*50 - 150*

Lab Sample ID: 14G0162-DUP1
Matrix: Soil
Analysis Batch: 14G0162

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0162_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	13.9			11.9		mg/kg dry	☼			16.0	40
Heavy Oil Range Hydrocarbons	47.3			39.8		mg/kg dry	☼			17.3	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*86.5*		*50 - 150*
n-Triacontane-d62	*84.4*		*50 - 150*

Lab Sample ID: 14G0162-DUP2
Matrix: Soil
Analysis Batch: 14G0162

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0162_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	23.9			25.5		mg/kg dry	☼			6.72	40
Heavy Oil Range Hydrocarbons	29.7			31.7		mg/kg dry	☼			6.74	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*96.3*		*50 - 150*
n-Triacontane-d62	*92.1*		*50 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: 133825-1
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 133620_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
1,2-Dichlorobenzene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
1,3-Dichlorobenzene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
1,4-Dichlorobenzene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
1,4-Dioxane	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2,4,5-Trichlorophenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2,4,6-Trichlorophenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2,4-Dichlorophenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2,4-Dimethylphenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2,4-Dinitrophenol	ND		1.6		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2,4-Dinitrotoluene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2,6-Dinitrotoluene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2-Chloronaphthalene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 133825-1
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 133620_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2-Methylnaphthalene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2-Methylphenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2-Nitroaniline	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
2-Nitrophenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
3 & 4 Methylphenol	ND		0.66		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
3,3'-Dichlorobenzidine	ND		1.6		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
3-Nitroaniline	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
4,6-Dinitro-2-methylphenol	ND		1.6		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
4-Bromophenyl phenyl ether	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
4-Chloro-3-methylphenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
4-Chloroaniline	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
4-Chlorophenyl phenyl ether	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
4-Nitroaniline	ND		1.6		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
4-Nitrophenol	ND		1.6		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Acenaphthene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Acenaphthylene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Aniline	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Anthracene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Benzo[a]anthracene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Benzo[a]pyrene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Benzo[b]fluoranthene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Benzo[g,h,i]perylene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Benzo[k]fluoranthene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Benzyl alcohol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
bis (2-chloroisopropyl) ether	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Bis(2-chloroethoxy)methane	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Bis(2-chloroethyl)ether	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Butyl benzyl phthalate	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Carbazole	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Chrysene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Dibenz(a,h)anthracene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Dibenzofuran	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Diethyl phthalate	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Dimethyl phthalate	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Di-n-butyl phthalate	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Di-n-octyl phthalate	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Fluoranthene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Fluorene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Hexachlorobenzene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Hexachlorobutadiene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Hexachlorocyclopentadiene	ND		1.6		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Hexachloroethane	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Isophorone	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Naphthalene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Nitrobenzene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 133825-1
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 133620_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
N-Nitrosodiphenylamine	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Pentachlorophenol	ND		0.66		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Phenanthrene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Phenol	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Pyrene	ND		0.33		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1
Pyridine	ND		0.66		mg/Kg dry		07/24/14 08:27	07/24/14 18:26	1

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*46 - 111*	*07/24/14 08:27*	*07/24/14 18:26*	*1*
2-Fluorobiphenyl (Surr)	*89*		*56 - 97*	*07/24/14 08:27*	*07/24/14 18:26*	*1*
2-Fluorophenol (Surr)	*83*		*53 - 97*	*07/24/14 08:27*	*07/24/14 18:26*	*1*
Nitrobenzene-d5 (Surr)	*82*		*55 - 98*	*07/24/14 08:27*	*07/24/14 18:26*	*1*
Phenol-d5 (Surr)	*84*		*54 - 101*	*07/24/14 08:27*	*07/24/14 18:26*	*1*
Terphenyl-d14 (Surr)	*84*		*58 - 123*	*07/24/14 08:27*	*07/24/14 18:26*	*1*

Lab Sample ID: 133825-5
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 133620_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	6.71	5.45		mg/Kg dry		81	60 - 91
1,2-Dichlorobenzene	6.67	5.42		mg/Kg dry		81	59 - 90
1,3-Dichlorobenzene	6.67	5.37		mg/Kg dry		80	57 - 88
1,4-Dichlorobenzene	6.67	5.33		mg/Kg dry		80	58 - 88
2,4,5-Trichlorophenol	6.67	6.06		mg/Kg dry		91	59 - 94
2,4,6-Trichlorophenol	6.67	6.06		mg/Kg dry		91	59 - 95
2,4-Dichlorophenol	6.67	5.26		mg/Kg dry		79	59 - 90
2,4-Dimethylphenol	6.67	5.40		mg/Kg dry		81	54 - 108
2,4-Dinitrophenol	6.67	4.44		mg/Kg dry		67	20 - 100
2,4-Dinitrotoluene	6.68	5.26		mg/Kg dry		79	61 - 103
2,6-Dinitrotoluene	6.67	5.41		mg/Kg dry		81	63 - 99
2-Chloronaphthalene	6.67	5.77		mg/Kg dry		87	61 - 94
2-Chlorophenol	6.67	5.36		mg/Kg dry		80	60 - 91
2-Methylnaphthalene	6.65	5.21		mg/Kg dry		78	59 - 90
2-Methylphenol	6.68	5.17		mg/Kg dry		77	58 - 96
2-Nitroaniline	6.69	6.07		mg/Kg dry		91	58 - 105
2-Nitrophenol	6.68	5.40		mg/Kg dry		81	60 - 93
3 & 4 Methylphenol	6.67	5.87		mg/Kg dry		88	47 - 113
3,3'-Dichlorobenzidine	6.67	5.02		mg/Kg dry		75	50 - 90
3-Nitroaniline	6.67	4.88		mg/Kg dry		73	55 - 91
4,6-Dinitro-2-methylphenol	6.67	5.81		mg/Kg dry		87	31 - 112
4-Bromophenyl phenyl ether	6.67	5.83		mg/Kg dry		87	63 - 106
4-Chloro-3-methylphenol	6.67	5.19		mg/Kg dry		78	58 - 95
4-Chloroaniline	6.67	3.78		mg/Kg dry		57	43 - 70
4-Chlorophenyl phenyl ether	6.68	5.23		mg/Kg dry		78	61 - 96
4-Nitroaniline	6.69	5.06		mg/Kg dry		76	57 - 94
4-Nitrophenol	6.68	5.40		mg/Kg dry		81	54 - 101

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 133825-5
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 133620_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6.67	5.50		mg/Kg dry		82	63 - 95
Acenaphthylene	6.67	5.53		mg/Kg dry		83	62 - 98
Anthracene	6.68	5.48		mg/Kg dry		82	63 - 100
Benzo[a]anthracene	6.67	5.50		mg/Kg dry		82	74 - 114
Benzo[a]pyrene	6.67	5.64		mg/Kg dry		85	63 - 103
Benzo[b]fluoranthene	6.67	5.60		mg/Kg dry		84	68 - 109
Benzo[g,h,i]perylene	6.67	6.28		mg/Kg dry		94	67 - 121
Benzo[k]fluoranthene	6.68	5.80		mg/Kg dry		87	69 - 111
bis (2-chloroisopropyl) ether	6.67	5.47		mg/Kg dry		82	47 - 105
Bis(2-chloroethoxy)methane	6.68	5.52		mg/Kg dry		83	62 - 91
Bis(2-chloroethyl)ether	6.67	5.39		mg/Kg dry		81	58 - 92
Bis(2-ethylhexyl) phthalate	6.67	5.75		mg/Kg dry		86	63 - 112
Butyl benzyl phthalate	6.67	5.97		mg/Kg dry		89	59 - 111
Carbazole	6.69	5.22		mg/Kg dry		78	64 - 101
Chrysene	6.67	5.58		mg/Kg dry		84	66 - 100
Dibenz(a,h)anthracene	6.67	6.39		mg/Kg dry		96	67 - 114
Dibenzofuran	6.67	5.23		mg/Kg dry		78	58 - 95
Diethyl phthalate	6.67	5.17		mg/Kg dry		77	62 - 97
Dimethyl phthalate	6.67	5.28		mg/Kg dry		79	63 - 98
Di-n-butyl phthalate	6.67	5.45		mg/Kg dry		82	62 - 104
Di-n-octyl phthalate	6.67	5.81		mg/Kg dry		87	61 - 111
Fluoranthene	6.67	5.20		mg/Kg dry		78	63 - 101
Fluorene	6.67	5.27		mg/Kg dry		79	62 - 96
Hexachlorobenzene	6.67	5.65		mg/Kg dry		85	62 - 106
Hexachlorobutadiene	6.67	5.46		mg/Kg dry		82	57 - 94
Hexachlorocyclopentadiene	6.67	6.91		mg/Kg dry		104	40 - 115
Hexachloroethane	6.67	5.56		mg/Kg dry		83	59 - 93
Indeno[1,2,3-cd]pyrene	6.67	6.54		mg/Kg dry		98	65 - 120
Isophorone	6.67	4.69		mg/Kg dry		70	57 - 86
Naphthalene	6.67	5.50		mg/Kg dry		82	60 - 90
Nitrobenzene	6.67	5.59		mg/Kg dry		84	58 - 95
N-Nitrosodi-n-propylamine	6.67	5.29		mg/Kg dry		79	60 - 104
N-Nitrosodiphenylamine	6.67	6.78		mg/Kg dry		102	78 - 133
Pentachlorophenol	6.67	5.64		mg/Kg dry		84	50 - 100
Phenanthrene	6.68	5.60		mg/Kg dry		84	63 - 99
Phenol	6.67	4.95		mg/Kg dry		74	53 - 89
Pyrene	6.67	6.11		mg/Kg dry		92	64 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*46 - 111*
2-Fluorobiphenyl (Surr)	*91*		*56 - 97*
2-Fluorophenol (Surr)	*82*		*53 - 97*
Nitrobenzene-d5 (Surr)	*83*		*55 - 98*
Phenol-d5 (Surr)	*81*		*54 - 101*
Terphenyl-d14 (Surr)	*85*		*58 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 75961D
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 133620_P

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Duı Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		8.23	6.76		mg/Kg dry	☼	82	51 - 87	2	30
1,2-Dichlorobenzene	ND		8.18	6.48		mg/Kg dry	☼	79	46 - 85	2	30
1,3-Dichlorobenzene	ND		8.18	6.41		mg/Kg dry	☼	78	42 - 84	2	30
1,4-Dichlorobenzene	ND		8.18	6.40		mg/Kg dry	☼	78	45 - 83	2	30
2,4,5-Trichlorophenol	ND		8.18	7.52		mg/Kg dry	☼	92	55 - 95	3	30
2,4,6-Trichlorophenol	ND		8.18	7.69		mg/Kg dry	☼	94	48 - 98	2	30
2,4-Dichlorophenol	ND		8.18	6.43		mg/Kg dry	☼	79	47 - 94	3	30
2,4-Dimethylphenol	ND		8.18	6.84		mg/Kg dry	☼	84	33 - 109	2	30
2,4-Dinitrophenol	ND		8.18	6.29		mg/Kg dry	☼	77	13 - 103	4	30
2,4-Dinitrotoluene	ND		8.19	6.31		mg/Kg dry	☼	77	55 - 108	5	30
2,6-Dinitrotoluene	ND		8.18	6.74		mg/Kg dry	☼	82	58 - 101	4	30
2-Chloronaphthalene	ND		8.18	7.27		mg/Kg dry	☼	89	55 - 92	2	30
2-Chlorophenol	ND		8.18	6.41		mg/Kg dry	☼	78	47 - 90	1	30
2-Methylnaphthalene	ND		8.16	6.45		mg/Kg dry	☼	79	52 - 88	2	30
2-Methylphenol	ND		8.19	6.17		mg/Kg dry	☼	75	48 - 94	2	30
2-Nitroaniline	ND		8.20	7.58		mg/Kg dry	☼	92	52 - 108	4	30
2-Nitrophenol	ND		8.19	6.84		mg/Kg dry	☼	84	51 - 94	1	30
3 & 4 Methylphenol	ND		8.18	6.97		mg/Kg dry	☼	85	39 - 107	3	30
3,3'-Dichlorobenzidine	ND		8.18	5.41		mg/Kg dry	☼	66	10 - 84	2	30
3-Nitroaniline	ND		8.18	5.75		mg/Kg dry	☼	70	44 - 103	2	30
4,6-Dinitro-2-methylphenol	ND		8.18	7.68		mg/Kg dry	☼	94	32 - 112	2	30
4-Bromophenyl phenyl ether	ND		8.18	7.38		mg/Kg dry	☼	90	59 - 105	2	30
4-Chloro-3-methylphenol	ND		8.18	6.22		mg/Kg dry	☼	76	53 - 96	3	30
4-Chloroaniline	ND		8.18	4.83		mg/Kg dry	☼	59	31 - 76	2	30
4-Chlorophenyl phenyl ether	ND		8.19	6.40		mg/Kg dry	☼	78	57 - 96	4	30
4-Nitroaniline	ND		8.21	5.49		mg/Kg dry	☼	67	43 - 102	8	30
4-Nitrophenol	ND		8.19	6.51		mg/Kg dry	☼	79	48 - 105	6	30
Acenaphthene	ND		8.18	6.85		mg/Kg dry	☼	84	57 - 94	2	30
Acenaphthylene	ND		8.18	6.91		mg/Kg dry	☼	84	57 - 97	2	30
Anthracene	ND		8.19	6.78		mg/Kg dry	☼	83	58 - 99	3	30
Benzo[a]anthracene	ND		8.18	6.94		mg/Kg dry	☼	85	68 - 114	2	30
Benzo[a]pyrene	ND		8.18	6.99		mg/Kg dry	☼	86	61 - 102	4	30
Benzo[b]fluoranthene	ND		8.18	6.95		mg/Kg dry	☼	85	63 - 107	2	30
Benzo[g,h,i]perylene	ND		8.18	7.82		mg/Kg dry	☼	96	54 - 127	4	30
Benzo[k]fluoranthene	ND		8.19	6.82		mg/Kg dry	☼	83	65 - 108	4	30
bis (2-chloroisopropyl) ether	ND		8.18	6.64		mg/Kg dry	☼	81	42 - 97	3	30
Bis(2-chloroethoxy)methane	ND		8.19	6.85		mg/Kg dry	☼	84	54 - 89	2	30
Bis(2-chloroethyl)ether	ND		8.18	6.51		mg/Kg dry	☼	80	50 - 88	2	30
Bis(2-ethylhexyl) phthalate	ND		8.18	7.32		mg/Kg dry	☼	89	60 - 110	3	30
Butyl benzyl phthalate	ND		8.18	7.55		mg/Kg dry	☼	92	56 - 110	3	30
Carbazole	ND		8.20	6.29		mg/Kg dry	☼	77	55 - 104	4	30
Chrysene	ND		8.18	7.07		mg/Kg dry	☼	86	61 - 100	2	30
Dibenz(a,h)anthracene	ND		8.18	8.25		mg/Kg dry	☼	101	59 - 118	4	30
Dibenzofuran	ND		8.18	6.51		mg/Kg dry	☼	80	55 - 93	3	30
Diethyl phthalate	ND		8.18	6.35		mg/Kg dry	☼	78	58 - 100	5	30
Dimethyl phthalate	ND		8.18	6.59		mg/Kg dry	☼	80	59 - 100	3	30
Di-n-butyl phthalate	ND		8.18	6.68		mg/Kg dry	☼	81	58 - 106	3	30
Di-n-octyl phthalate	ND		8.18	7.59		mg/Kg dry	☼	93	58 - 113	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 75961D
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 133620_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene	ND		8.18	6.20		mg/Kg dry	☼	76	58 - 103	4	30
Fluorene	ND		8.18	6.42		mg/Kg dry	☼	78	58 - 97	3	30
Hexachlorobenzene	ND		8.18	7.16		mg/Kg dry	☼	88	59 - 105	2	30
Hexachlorobutadiene	ND		8.18	6.85		mg/Kg dry	☼	84	47 - 89	1	30
Hexachlorocyclopentadiene	ND		8.18	8.72		mg/Kg dry	☼	107	17 - 112	2	30
Hexachloroethane	ND		8.18	6.60		mg/Kg dry	☼	81	43 - 88	2	30
Indeno[1,2,3-cd]pyrene	ND		8.18	8.02		mg/Kg dry	☼	98	56 - 123	5	30
Isophorone	ND		8.18	5.84		mg/Kg dry	☼	71	52 - 84	2	30
Naphthalene	ND		8.18	6.82		mg/Kg dry	☼	83	52 - 86	2	30
Nitrobenzene	ND		8.18	7.09		mg/Kg dry	☼	87	52 - 90	1	30
N-Nitrosodi-n-propylamine	ND		8.18	6.41		mg/Kg dry	☼	78	55 - 99	2	30
N-Nitrosodiphenylamine	ND		8.18	8.78		mg/Kg dry	☼	107	52 - 131	1	30
Pentachlorophenol	ND		8.18	7.15		mg/Kg dry	☼	87	35 - 104	1	30
Phenanthrene	ND		8.19	6.97		mg/Kg dry	☼	85	60 - 98	3	30
Phenol	ND		8.18	5.92		mg/Kg dry	☼	72	43 - 90	1	30
Pyrene	ND		8.18	7.54		mg/Kg dry	☼	92	53 - 106	3	30

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*74*		*46 - 111*
2-Fluorobiphenyl (Surr)	*94*		*56 - 97*
2-Fluorophenol (Surr)	*80*		*53 - 97*
Nitrobenzene-d5 (Surr)	*86*		*55 - 98*
Phenol-d5 (Surr)	*78*		*54 - 101*
Terphenyl-d14 (Surr)	*85*		*58 - 123*

Lab Sample ID: 75961S
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 133620_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		8.25	6.89		mg/Kg dry	☼	83	51 - 87
1,2-Dichlorobenzene	ND		8.19	6.65		mg/Kg dry	☼	81	46 - 85
1,3-Dichlorobenzene	ND		8.20	6.52		mg/Kg dry	☼	80	42 - 84
1,4-Dichlorobenzene	ND		8.20	6.50		mg/Kg dry	☼	79	45 - 83
2,4,5-Trichlorophenol	ND		8.19	7.75		mg/Kg dry	☼	95	55 - 95
2,4,6-Trichlorophenol	ND		8.20	7.85		mg/Kg dry	☼	96	48 - 98
2,4-Dichlorophenol	ND		8.19	6.61		mg/Kg dry	☼	81	47 - 94
2,4-Dimethylphenol	ND		8.19	6.95		mg/Kg dry	☼	85	33 - 109
2,4-Dinitrophenol	ND		8.19	6.57		mg/Kg dry	☼	80	13 - 103
2,4-Dinitrotoluene	ND		8.21	6.65		mg/Kg dry	☼	81	55 - 108
2,6-Dinitrotoluene	ND		8.20	7.02		mg/Kg dry	☼	86	58 - 101
2-Chloronaphthalene	ND		8.19	7.45		mg/Kg dry	☼	91	55 - 92
2-Chlorophenol	ND		8.19	6.49		mg/Kg dry	☼	79	47 - 90
2-Methylnaphthalene	ND		8.18	6.58		mg/Kg dry	☼	80	52 - 88
2-Methylphenol	ND		8.21	6.31		mg/Kg dry	☼	77	48 - 94
2-Nitroaniline	ND		8.22	7.89		mg/Kg dry	☼	96	52 - 108
2-Nitrophenol	ND		8.21	6.89		mg/Kg dry	☼	84	51 - 94
3 & 4 Methylphenol	ND		8.19	7.17		mg/Kg dry	☼	87	39 - 107

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 75961S
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 133620_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	ND		8.20	5.49		mg/Kg dry	☼	67	10 - 84
3-Nitroaniline	ND		8.19	5.90		mg/Kg dry	☼	72	44 - 103
4,6-Dinitro-2-methylphenol	ND		8.19	7.85		mg/Kg dry	☼	96	32 - 112
4-Bromophenyl phenyl ether	ND		8.19	7.53		mg/Kg dry	☼	92	59 - 105
4-Chloro-3-methylphenol	ND		8.20	6.44		mg/Kg dry	☼	79	53 - 96
4-Chloroaniline	ND		8.19	4.92		mg/Kg dry	☼	60	31 - 76
4-Chlorophenyl phenyl ether	ND		8.21	6.68		mg/Kg dry	☼	81	57 - 96
4-Nitroaniline	ND		8.23	5.97		mg/Kg dry	☼	73	43 - 102
4-Nitrophenol	ND		8.21	6.91		mg/Kg dry	☼	84	48 - 105
Acenaphthene	ND		8.20	6.96		mg/Kg dry	☼	85	57 - 94
Acenaphthylene	ND		8.20	7.08		mg/Kg dry	☼	86	57 - 97
Anthracene	ND		8.21	6.98		mg/Kg dry	☼	85	58 - 99
Benzo[a]anthracene	ND		8.19	7.06		mg/Kg dry	☼	86	68 - 114
Benzo[a]pyrene	ND		8.19	7.25		mg/Kg dry	☼	89	61 - 102
Benzo[b]fluoranthene	ND		8.19	7.11		mg/Kg dry	☼	87	63 - 107
Benzo[g,h,i]perylene	ND		8.20	8.17		mg/Kg dry	☼	100	54 - 127
Benzo[k]fluoranthene	ND		8.21	7.10		mg/Kg dry	☼	86	65 - 108
bis (2-chloroisopropyl) ether	ND		8.19	6.83		mg/Kg dry	☼	83	42 - 97
Bis(2-chloroethoxy)methane	ND		8.21	7.00		mg/Kg dry	☼	85	54 - 89
Bis(2-chloroethyl)ether	ND		8.19	6.66		mg/Kg dry	☼	81	50 - 88
Bis(2-ethylhexyl) phthalate	ND		8.20	7.52		mg/Kg dry	☼	92	60 - 110
Butyl benzyl phthalate	ND		8.20	7.80		mg/Kg dry	☼	95	56 - 110
Carbazole	ND		8.22	6.56		mg/Kg dry	☼	80	55 - 104
Chrysene	ND		8.20	7.25		mg/Kg dry	☼	88	61 - 100
Dibenz(a,h)anthracene	ND		8.20	8.56		mg/Kg dry	☼	104	59 - 118
Dibenzofuran	ND		8.20	6.69		mg/Kg dry	☼	82	55 - 93
Diethyl phthalate	ND		8.19	6.66		mg/Kg dry	☼	81	58 - 100
Dimethyl phthalate	ND		8.20	6.81		mg/Kg dry	☼	83	59 - 100
Di-n-butyl phthalate	ND		8.20	6.91		mg/Kg dry	☼	83	58 - 106
Di-n-octyl phthalate	ND		8.19	7.80		mg/Kg dry	☼	95	58 - 113
Fluoranthene	ND		8.19	6.47		mg/Kg dry	☼	79	58 - 103
Fluorene	ND		8.19	6.63		mg/Kg dry	☼	81	58 - 97
Hexachlorobenzene	ND		8.19	7.28		mg/Kg dry	☼	89	59 - 105
Hexachlorobutadiene	ND		8.19	6.94		mg/Kg dry	☼	85	47 - 89
Hexachlorocyclopentadiene	ND		8.20	8.90		mg/Kg dry	☼	108	17 - 112
Hexachloroethane	ND		8.19	6.74		mg/Kg dry	☼	82	43 - 88
Indeno[1,2,3-cd]pyrene	ND		8.19	8.44		mg/Kg dry	☼	103	56 - 123
Isophorone	ND		8.19	5.94		mg/Kg dry	☼	73	52 - 84
Naphthalene	ND		8.20	6.94		mg/Kg dry	☼	85	52 - 86
Nitrobenzene	ND		8.19	7.18		mg/Kg dry	☼	88	52 - 90
N-Nitrosodi-n-propylamine	ND		8.19	6.55		mg/Kg dry	☼	80	55 - 99
N-Nitrosodiphenylamine	ND		8.19	8.86		mg/Kg dry	☼	108	52 - 131
Pentachlorophenol	ND		8.20	7.26		mg/Kg dry	☼	88	35 - 104
Phenanthrene	ND		8.21	7.18		mg/Kg dry	☼	87	60 - 98
Phenol	ND		8.20	5.99		mg/Kg dry	☼	73	43 - 90
Pyrene	ND		8.19	7.77		mg/Kg dry	☼	95	53 - 106

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 75961S
Matrix: Soil
Analysis Batch: 133620

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 133620_P

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
2,4,6-Tribromophenol (Surr)	80		46 - 111
2-Fluorobiphenyl (Surr)	95		56 - 97
2-Fluorophenol (Surr)	81		53 - 97
Nitrobenzene-d5 (Surr)	88		55 - 98
Phenol-d5 (Surr)	80		54 - 101
Terphenyl-d14 (Surr)	89		58 - 123

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Client Sample ID: EX3-6-4
Lab Sample ID: SXG0146-01

Date Collected: 07/21/14 10:00
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.986	14G0156_P	07/22/14 10:56	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0156	07/22/14 14:11	CBW	TAL SPK
Total	Prep	EPA 3550B		0.932	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 18:07	MS	TAL SPK
Total	Prep	Wet Chem		1.00	14G0178_P	07/23/14 16:27	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0178	07/24/14 10:30	MS	TAL SPK

Client Sample ID: EX4-1-6
Lab Sample ID: SXG0146-02

Date Collected: 07/21/14 12:30
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.990	14G0156_P	07/22/14 10:56	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0156	07/22/14 14:34	CBW	TAL SPK
Total	Prep	EPA 3550B		0.986	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 18:31	MS	TAL SPK

Client Sample ID: EX4-2-6
Lab Sample ID: SXG0146-03

Date Collected: 07/21/14 12:40
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.768	14G0156_P	07/22/14 10:56	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0156	07/22/14 14:56	CBW	TAL SPK
Total	Prep	EPA 3550B		0.916	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 18:54	MS	TAL SPK

Client Sample ID: EX4-3-6
Lab Sample ID: SXG0146-04

Date Collected: 07/21/14 12:50
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.929	14G0156_P	07/22/14 10:56	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0156	07/22/14 15:19	CBW	TAL SPK
Total	Prep	EPA 3550B		0.970	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 20:03	MS	TAL SPK

Client Sample ID: EX4-4-6
Lab Sample ID: SXG0146-05

Date Collected: 07/21/14 13:00
Matrix: Soil
Date Received: 07/22/14 09:55
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.20	14G0156_P	07/22/14 10:56	CBW	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Client Sample ID: EX4-4-6

Date Collected: 07/21/14 13:00
Date Received: 07/22/14 09:55

Lab Sample ID: SXG0146-05

Matrix: Soil
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	EPA 8260C		1.00	14G0156	07/22/14 15:41	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.20	14G0156_P	07/22/14 10:56	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0156	07/22/14 15:41	CBW	TAL SPK
Total	Prep	EPA 3550B		0.920	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 20:26	MS	TAL SPK
Total	Prep	3550C			133620_P	07/24/14 08:27		TAL SL
Total	Analysis	8270D		1	133620	07/24/14 20:37	JSW	TAL SL
Total	Analysis	Moisture		1	133616	07/24/14 08:08	SDB	TAL SL
Total	Prep	NA			133616_P	07/24/14 08:08		TAL SL

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL 314.298.8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15
California	NELAP	9	2886	03-31-15
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-15
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-15
Missouri	State Program	7	780	06-30-15
Nevada	State Program	9	MO000542013-1	07-31-15
New Jersey	NELAP	2	MO002	06-30-15
New York	NELAP	2	11616	03-31-15
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-15
Pennsylvania	NELAP	3	68-00540	02-28-15
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-15
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542013-5	07-31-15
Virginia	NELAP	3	460230	06-14-15
Washington	State Program	10	C592	08-30-15
West Virginia DEP	State Program	3	381	12-31-14

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0146

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK
8270D	Semivolatile Organic Compounds (GC/MS)		TAL SL
Moisture	Percent Moisture		TAL SL

Protocol References:

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL 314.298.8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 X
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXG0146

CLIENT: GeoEngineers

REPORT TO: DLAUDER@GEOENGINEERS.COM

ADDRESS: 523 E Second Ave Spokane WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere, WA

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	NWTPH-Gx	NWTPH-Dx	VOCs	SVOCs	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	EX3-6-4	7/21/2014 1000		X	X			S	3		
2	EX4-1-6	1230		X	X				3		
3	EX4-2-6	1240		X	X				3		
4	EX4-3-6	1250		X	X				3		
5	EX4-4-6	1300		X	X	X	X		4		
6											
7											
8											
9											
10											

RELEASED BY: Josh Lee DATE: 9/2/2014

PRINT NAME: Josh Lee FIRM: GeoEngineers TIME: 1610

RECEIVED BY: Cat Stapleton DATE: 7-22-14

PRINT NAME: Cat Stapleton FIRM: TestAmerica TIME: 9:55

RELEASED BY: DATE:

PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:

PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 4.4

PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXG0146	Client: GeoEngineers	Project: Cashmere, WA
Date/Time Received: 7-22-14 9:55	By: CS	

Samples Delivered By: ☒ Shipping Service ☐ Courier ☐ Client ☐ Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	✓			
Custody Seals are present and intact:			✓	
Are CoC documents present:	✓			
Necessary signatures:	✓			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry Ice ☐ None ☐ Other: _____

Temperature: 4.4 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐ Not enough ice ☐ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other: _____

Log-in Phase Date/Time: 7-22-14 10:08 By: CD	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	✓			
Samples containers were received intact:	✓			
Do sample IDs match the CoC	✓			
Appropriate sample containers were received for tests requested	✓			
Are sample volumes adequate for tests requested	✓			
Appropriate preservatives were used for the tests requested	✓			
pH of inorganic samples checked and is within method specification	✓			
Are VOC samples free of bubbles >6mm (1/4" diameter)	✓			
Are dissolved parameters field filtered			✓	
Do any samples need to be filtered or preserved by the lab			✓	
Does this project require quick turnaround analysis	✓		~~✓~~	2days
Are there any short hold time tests (see chart below)		✓		
Are any samples within 2 days of or past expiration		✓		
Was the CoC scanned	✓			
Were there Non-conformance issues at login		✓		
If yes, was a CAR generated # _____			✓	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXG0152
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
7/31/2014 3:54:05 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 9
Chronicle 14
Certification Summary 16
Method Summary 17
Chain of Custody 18

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0152

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXG0152-01	EX5-1-8	Soil	07/22/14 14:00	07/23/14 09:50
SXG0152-02	EX5-2-8	Soil	07/22/14 14:10	07/23/14 09:50
SXG0152-03	EX5-3-8	Soil	07/22/14 14:30	07/23/14 09:50
SXG0152-04	EX5-4-8	Soil	07/22/14 14:50	07/23/14 09:50
SXG0152-07	EX5-7-8	Soil	07/22/14 15:20	07/23/14 09:50
SXG0152-08	EX5-8-8	Soil	07/22/14 15:25	07/23/14 09:50

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0152

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0152

Client Sample ID: EX5-1-8

Lab Sample ID: SXG0152-01

Date Collected: 07/22/14 14:00
Matrix: Soil
Date Received: 07/23/14 09:50
Percent Solids: 92.5

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
2-Methylnaphthalene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
1-Methylnaphthalene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Acenaphthylene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Acenaphthene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Fluorene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Phenanthrene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Anthracene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Fluoranthene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Pyrene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Benzo (a) anthracene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Chrysene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Benzo (b) fluoranthene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Benzo (k) fluoranthene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Benzo (a) pyrene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Dibenzo (a,h) anthracene	ND		0.00638		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00
Benzo (ghi) perylene	ND		0.0106		mg/kg dry	☼	07/24/14 08:26	07/24/14 16:27	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*75.4*		*36.3 - 152*	*07/24/14 08:26*	*07/24/14 16:27*	*1.00*
2-FBP	*68.4*		*30.2 - 135*	*07/24/14 08:26*	*07/24/14 16:27*	*1.00*
p-Terphenyl-d14	*83.4*		*65.1 - 134*	*07/24/14 08:26*	*07/24/14 16:27*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	☼	07/25/14 08:18	07/25/14 13:55	1.00

Client Sample ID: EX5-2-8

Lab Sample ID: SXG0152-02

Date Collected: 07/22/14 14:10
Matrix: Soil
Date Received: 07/23/14 09:50
Percent Solids: 93.9

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
2-Methylnaphthalene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
1-Methylnaphthalene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Acenaphthylene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Acenaphthene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Fluorene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Phenanthrene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Anthracene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Fluoranthene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Pyrene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Benzo (a) anthracene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Chrysene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Benzo (b) fluoranthene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Benzo (k) fluoranthene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Benzo (a) pyrene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0152

Client Sample ID: EX5-2-8

Lab Sample ID: SXG0152-02

Date Collected: 07/22/14 14:10
Matrix: Soil
Date Received: 07/23/14 09:50
Percent Solids: 93.9

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzo (a,h) anthracene	ND		0.00628		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00
Benzo (ghi) perylene	ND		0.0105		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:34	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*104*		*36.3 - 152*	*07/24/14 08:26*	*07/24/14 17:34*	*1.00*
2-FBP	*77.0*		*30.2 - 135*	*07/24/14 08:26*	*07/24/14 17:34*	*1.00*
p-Terphenyl-d14	*87.6*		*65.1 - 134*	*07/24/14 08:26*	*07/24/14 17:34*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		44.6		ug/kg dry	☼	07/25/14 08:18	07/25/14 14:04	1.00

Client Sample ID: EX5-3-8

Lab Sample ID: SXG0152-03

Date Collected: 07/22/14 14:30
Matrix: Soil
Date Received: 07/23/14 09:50
Percent Solids: 91.9

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
2-Methylnaphthalene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
1-Methylnaphthalene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Acenaphthylene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Acenaphthene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Fluorene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Phenanthrene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Anthracene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Fluoranthene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Pyrene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Benzo (a) anthracene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Chrysene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Benzo (b) fluoranthene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Benzo (k) fluoranthene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Benzo (a) pyrene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Dibenzo (a,h) anthracene	ND		0.00650		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00
Benzo (ghi) perylene	ND		0.0108		mg/kg dry	☼	07/24/14 08:26	07/24/14 17:56	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*97.2*		*36.3 - 152*	*07/24/14 08:26*	*07/24/14 17:56*	*1.00*
2-FBP	*78.4*		*30.2 - 135*	*07/24/14 08:26*	*07/24/14 17:56*	*1.00*
p-Terphenyl-d14	*87.4*		*65.1 - 134*	*07/24/14 08:26*	*07/24/14 17:56*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		44.6		ug/kg dry	☼	07/25/14 08:18	07/25/14 14:06	1.00

Client Sample ID: EX5-4-8
Date Collected: 07/22/14 14:50
Date Received: 07/23/14 09:50

Lab Sample ID: SXG0152-04
Matrix: Soil
Percent Solids: 83.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0158		mg/kg dry	☼	07/24/14 11:15	07/24/14 11:23	1.00
Toluene	ND		0.105		mg/kg dry	☼	07/24/14 11:15	07/24/14 11:23	1.00
Ethylbenzene	ND		0.105		mg/kg dry	☼	07/24/14 11:15	07/24/14 11:23	1.00
m,p-Xylene	ND		0.421		mg/kg dry	☼	07/24/14 11:15	07/24/14 11:23	1.00
o-Xylene	ND		0.211		mg/kg dry	☼	07/24/14 11:15	07/24/14 11:23	1.00
Xylenes (total)	ND		0.632		mg/kg dry	☼	07/24/14 11:15	07/24/14 11:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*80 - 120*	*07/24/14 11:15*	*07/24/14 11:23*	*1.00*
1,2-dichloroethane-d4	*101*		*74.7 - 120*	*07/24/14 11:15*	*07/24/14 11:23*	*1.00*
Toluene-d8	*92.3*		*78.5 - 125*	*07/24/14 11:15*	*07/24/14 11:23*	*1.00*
4-bromofluorobenzene	*190*	*ZX*	*69.8 - 140*	*07/24/14 11:15*	*07/24/14 11:23*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**164**		5.27		mg/kg dry	☼	07/24/14 08:07	07/24/14 11:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*169*	*ZX*	*41.5 - 162*	*07/24/14 08:07*	*07/24/14 11:23*	*1.00*

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.201**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
2-Methylnaphthalene	**0.178**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
1-Methylnaphthalene	**0.422**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Acenaphthylene	ND		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Acenaphthene	ND		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Fluorene	**0.0341**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Phenanthrene	**0.0728**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Anthracene	**0.0225**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Fluoranthene	**0.0317**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Pyrene	**0.0286**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Benzo (a) anthracene	**0.0116**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Chrysene	**0.0194**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Benzo (b) fluoranthene	**0.0255**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Benzo (k) fluoranthene	ND		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Benzo (a) pyrene	**0.0194**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Indeno (1,2,3-cd) pyrene	**0.0147**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Dibenzo (a,h) anthracene	ND		0.00697		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00
Benzo (ghi) perylene	**0.0194**		0.0116		mg/kg dry	☼	07/24/14 08:26	07/24/14 18:41	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*118*		*36.3 - 152*	*07/24/14 08:26*	*07/24/14 18:41*	*1.00*
2-FBP	*73.4*		*30.2 - 135*	*07/24/14 08:26*	*07/24/14 18:41*	*1.00*
p-Terphenyl-d14	*78.8*		*65.1 - 134*	*07/24/14 08:26*	*07/24/14 18:41*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**289**		21.4		mg/kg dry	☼	07/23/14 10:49	07/23/14 20:48	1.00
Heavy Oil Range Hydrocarbons	**203**		53.4		mg/kg dry	☼	07/23/14 10:49	07/23/14 20:48	1.00

Client Sample ID: EX5-4-8

Lab Sample ID: SXG0152-04

Date Collected: 07/22/14 14:50

Matrix: Soil

Date Received: 07/23/14 09:50

Percent Solids: 83.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*102*		*50 - 150*	*07/23/14 10:49*	*07/23/14 20:48*	*1.00*
n-Triacontane-d62	*91.1*		*50 - 150*	*07/23/14 10:49*	*07/23/14 20:48*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		43.1		ug/kg dry	☼	07/25/14 08:18	07/25/14 14:08	1.00

Client Sample ID: EX5-7-8

Lab Sample ID: SXG0152-07

Date Collected: 07/22/14 15:20

Matrix: Soil

Date Received: 07/23/14 09:50

Percent Solids: 92.3

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**5.43**		5.04		mg/kg dry	☼	07/24/14 08:07	07/24/14 17:48	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*98.7*		*41.5 - 162*	*07/24/14 08:07*	*07/24/14 17:48*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.5		mg/kg dry	☼	07/23/14 10:49	07/23/14 21:11	1.00
Heavy Oil Range Hydrocarbons	ND		26.3		mg/kg dry	☼	07/23/14 10:49	07/23/14 21:11	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*96.6*		*50 - 150*	*07/23/14 10:49*	*07/23/14 21:11*	*1.00*
n-Triacontane-d62	*93.1*		*50 - 150*	*07/23/14 10:49*	*07/23/14 21:11*	*1.00*

Client Sample ID: EX5-8-8

Lab Sample ID: SXG0152-08

Date Collected: 07/22/14 15:25

Matrix: Soil

Date Received: 07/23/14 09:50

Percent Solids: 94.2

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**6.29**		4.60		mg/kg dry	☼	07/24/14 08:07	07/24/14 12:08	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*102*		*41.5 - 162*	*07/24/14 08:07*	*07/24/14 12:08*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		7.63		mg/kg dry	☼	07/23/14 10:49	07/23/14 21:34	1.00
Heavy Oil Range Hydrocarbons	ND		19.1		mg/kg dry	☼	07/23/14 10:49	07/23/14 21:34	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*101*		*50 - 150*	*07/23/14 10:49*	*07/23/14 21:34*	*1.00*
n-Triacontane-d62	*91.1*		*50 - 150*	*07/23/14 10:49*	*07/23/14 21:34*	*1.00*

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Lab Sample ID: 14G0166-BLK1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0300		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Benzene	ND		0.0150		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Toluene	ND		0.100		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Ethylbenzene	ND		0.100		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
m,p-Xylene	ND		0.400		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
o-Xylene	ND		0.200		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Naphthalene	ND		0.200		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2-Dichloroethane (EDC)	ND		0.100		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2-Dibromoethane	ND		0.100		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Xylenes (total)	ND		0.600		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Hexane	ND		0.100		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*80 - 120*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*
1,2-dichloroethane-d4	*103*		*74.7 - 120*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*
4-bromofluorobenzene	*99.1*		*69.8 - 140*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*

Lab Sample ID: 14G0166-BS1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.500	0.582		mg/kg wet		116	60 - 140
Benzene	0.500	0.520		mg/kg wet		104	75.8 - 123
Toluene	0.500	0.546		mg/kg wet		109	76.6 - 125
Ethylbenzene	0.500	0.534		mg/kg wet		107	77.3 - 121
m,p-Xylene	0.500	0.538		mg/kg wet		108	77.7 - 124
o-Xylene	0.500	0.562		mg/kg wet		112	76.7 - 129
Naphthalene	0.500	0.546		mg/kg wet		109	55.1 - 142
Xylenes (total)	1.00	1.10		mg/kg wet		110	76.5 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*103*		*80 - 120*
1,2-dichloroethane-d4	*105*		*74.7 - 120*
Toluene-d8	*102*		*78.5 - 125*
4-bromofluorobenzene	*101*		*69.8 - 140*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14G0166-BLK1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx (Continued)

Lab Sample ID: 14G0166-BLK1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0166_P

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*99.1*		*41.5 - 162*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*

Lab Sample ID: 14G0166-BS2
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0166_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Hydrocarbons			50.0	49.4		mg/kg wet		98.8	74.4 - 124		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-bromofluorobenzene	*98.2*		*41.5 - 162*

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Lab Sample ID: 14G0173-BLK1
Matrix: Soil
Analysis Batch: 14G0173

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0173_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
2-Methylnaphthalene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
1-Methylnaphthalene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Acenaphthylene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Acenaphthene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Fluorene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Phenanthrene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Anthracene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Fluoranthene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Pyrene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Benzo (a) anthracene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Chrysene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Benzo (b) fluoranthene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Benzo (k) fluoranthene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Benzo (a) pyrene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Dibenzo (a,h) anthracene	ND		0.00600		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00
Benzo (ghi) perylene	ND		0.0100		mg/kg wet		07/24/14 08:26	07/24/14 16:04	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*103*		*36.3 - 152*	*07/24/14 08:26*	*07/24/14 16:04*	*1.00*
2-FBP	*82.0*		*30.2 - 135*	*07/24/14 08:26*	*07/24/14 16:04*	*1.00*
p-Terphenyl-d14	*94.4*		*65.1 - 134*	*07/24/14 08:26*	*07/24/14 16:04*	*1.00*

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (Continued)

Lab Sample ID: 14G0173-BS1
Matrix: Soil
Analysis Batch: 14G0173

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0173_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			0.133	0.119		mg/kg wet		89.0	62.7 - 120		
Fluorene			0.133	0.115		mg/kg wet		86.5	67.9 - 124		
Chrysene			0.133	0.123		mg/kg wet		92.5	68.2 - 132		
Indeno (1,2,3-cd) pyrene			0.133	0.137		mg/kg wet		103	52.6 - 149		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*88.6*		*36.3 - 152*
2-FBP	*74.6*		*30.2 - 135*
p-Terphenyl-d14	*90.6*		*65.1 - 134*

Lab Sample ID: 14G0173-MS1
Matrix: Soil
Analysis Batch: 14G0173

Client Sample ID: EX5-1-8
Prep Type: Total
Prep Batch: 14G0173_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		0.156	0.126		mg/kg dry	☼	80.5	30 - 120		
Fluorene	ND		0.156	0.119		mg/kg dry	☼	76.0	30 - 140		
Chrysene	ND		0.156	0.136		mg/kg dry	☼	87.0	30 - 133		
Indeno (1,2,3-cd) pyrene	ND		0.156	0.170		mg/kg dry	☼	109	30 - 140		

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
Nitrobenzene-d5	*94.0*		*36.3 - 152*
2-FBP	*69.2*		*30.2 - 135*
p-Terphenyl-d14	*82.6*		*65.1 - 134*

Lab Sample ID: 14G0173-MSD1
Matrix: Soil
Analysis Batch: 14G0173

Client Sample ID: EX5-1-8
Prep Type: Total
Prep Batch: 14G0173_P

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		0.153	0.0894		mg/kg dry	☼	58.5	30 - 120	33.8	35
Fluorene	ND		0.153	0.130		mg/kg dry	☼	85.0	30 - 140	8.93	35
Chrysene	ND		0.153	0.137		mg/kg dry	☼	89.5	30 - 133	0.582	35
Indeno (1,2,3-cd) pyrene	ND		0.153	0.134		mg/kg dry	☼	87.5	30 - 140	24.1	35

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Nitrobenzene-d5	*71.2*		*36.3 - 152*
2-FBP	*65.6*		*30.2 - 135*
p-Terphenyl-d14	*88.6*		*65.1 - 134*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14G0162-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0162 — **Prep Batch: 14G0162_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		07/23/14 10:16	07/23/14 12:33	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		07/23/14 10:16	07/23/14 12:33	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91.9*		*50 - 150*	*07/23/14 10:16*	*07/23/14 12:33*	*1.00*
n-Triacontane-d62	*85.0*		*50 - 150*	*07/23/14 10:16*	*07/23/14 12:33*	*1.00*

Lab Sample ID: 14G0162-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0162 — **Prep Batch: 14G0162_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	59.2		mg/kg wet		88.7	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*98.3*		*50 - 150*
n-Triacontane-d62	*86.3*		*50 - 150*

Lab Sample ID: 14G0162-DUP1 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0162 — **Prep Batch: 14G0162_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	13.9			11.9		mg/kg dry	☼			16.0	40
Heavy Oil Range Hydrocarbons	47.3			39.8		mg/kg dry	☼			17.3	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*86.5*		*50 - 150*
n-Triacontane-d62	*84.4*		*50 - 150*

Lab Sample ID: 14G0162-DUP2 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0162 — **Prep Batch: 14G0162_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	23.9			25.5		mg/kg dry	☼			6.72	40
Heavy Oil Range Hydrocarbons	29.7			31.7		mg/kg dry	☼			6.74	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*96.3*		*50 - 150*
n-Triacontane-d62	*92.1*		*50 - 150*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Lab Sample ID: 14G0187-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0187 — **Prep Batch: 14G0187_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		07/25/14 08:18	07/25/14 13:52	1.00

Lab Sample ID: 14G0187-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0187 — **Prep Batch: 14G0187_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			200	200		ug/kg wet		100	80 - 120		

Lab Sample ID: 14G0187-MS1 — **Client Sample ID: EX5-1-8**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0187 — **Prep Batch: 14G0187_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		186	197		ug/kg dry	☼	106	80 - 120		

Lab Sample ID: 14G0187-MSD1 — **Client Sample ID: EX5-1-8**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0187 — **Prep Batch: 14G0187_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Du Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		166	175		ug/kg dry	☼	106	80 - 120	11.4	20

Lab Sample ID: 14G0187-DUP1 — **Client Sample ID: EX5-1-8**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0187 — **Prep Batch: 14G0187_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		ug/kg dry	☼				40

Client Sample ID: EX5-1-8

Lab Sample ID: SXG0152-01

Date Collected: 07/22/14 14:00

Matrix: Soil

Date Received: 07/23/14 09:50

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.984	14G0173_P	07/24/14 08:26	MS	TAL SPK
Total	Analysis	EPA 8270D		1.00	14G0173	07/24/14 16:27	MRS	TAL SPK
Total	Prep	EPA 7471		0.943	14G0187_P	07/25/14 08:18	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0187	07/25/14 13:55	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14G0178_P	07/23/14 16:27	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0178	07/24/14 10:30	MS	TAL SPK

Client Sample ID: EX5-2-8

Lab Sample ID: SXG0152-02

Date Collected: 07/22/14 14:10

Matrix: Soil

Date Received: 07/23/14 09:50

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.983	14G0173_P	07/24/14 08:26	MS	TAL SPK
Total	Analysis	EPA 8270D		1.00	14G0173	07/24/14 17:34	MRS	TAL SPK
Total	Prep	EPA 7471		0.893	14G0187_P	07/25/14 08:18	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0187	07/25/14 14:04	ZZZ	TAL SPK

Client Sample ID: EX5-3-8

Lab Sample ID: SXG0152-03

Date Collected: 07/22/14 14:30

Matrix: Soil

Date Received: 07/23/14 09:50

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.995	14G0173_P	07/24/14 08:26	MS	TAL SPK
Total	Analysis	EPA 8270D		1.00	14G0173	07/24/14 17:56	MRS	TAL SPK
Total	Prep	EPA 7471		0.893	14G0187_P	07/25/14 08:18	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0187	07/25/14 14:06	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14G0190_P	07/24/14 13:40	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0190	07/25/14 15:05	MS	TAL SPK

Client Sample ID: EX5-4-8

Lab Sample ID: SXG0152-04

Date Collected: 07/22/14 14:50

Matrix: Soil

Date Received: 07/23/14 09:50

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.714	14G0166_P	07/24/14 11:15	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0166	07/24/14 11:23	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.714	14G0166_P	07/24/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 11:23	CBW	TAL SPK
Total	Prep	EPA 3550B		0.970	14G0173_P	07/24/14 08:26	MS	TAL SPK
Total	Analysis	EPA 8270D		1.00	14G0173	07/24/14 18:41	MRS	TAL SPK
Total	Prep	EPA 3550B		1.78	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 20:48	MS	TAL SPK
Total	Prep	EPA 7471		0.862	14G0187_P	07/25/14 08:18	JSP	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0152

Client Sample ID: EX5-4-8

Lab Sample ID: SXG0152-04

Date Collected: 07/22/14 14:50
Matrix: Soil
Date Received: 07/23/14 09:50
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	EPA 7471B		1.00	14G0187	07/25/14 14:08	ZZZ	TAL SPK

Client Sample ID: EX5-7-8

Lab Sample ID: SXG0152-07

Date Collected: 07/22/14 15:20
Matrix: Soil
Date Received: 07/23/14 09:50
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.853	14G0166_P	07/24/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 17:48	CBW	TAL SPK
Total	Prep	EPA 3550B		0.970	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 21:11	MS	TAL SPK

Client Sample ID: EX5-8-8

Lab Sample ID: SXG0152-08

Date Collected: 07/22/14 15:25
Matrix: Soil
Date Received: 07/23/14 09:50
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.808	14G0166_P	07/24/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 12:08	CBW	TAL SPK
Total	Prep	EPA 3550B		0.719	14G0162_P	07/23/14 10:49	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0162	07/23/14 21:34	MS	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0152

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0152

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
EPA 8270D	Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXG0152

CLIENT: Geo Engineers

REPORT TO: [illegible]@geoengineers.com
ADDRESS: 523 E Second Ave Spokane, WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere, WA

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	NWTPH-Gx	NWTPH-Dx	HCID	PAHs	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 EX5-1-8	7/22/2014 1400				X	X	S	4		
2 EX5-2-8	1410				X	X				
3 EX5-3-8	1430				X	X				
4 EX5-4-8	1450		X	X	X	X				
5 EX5-5-8	1500								hold	
6 EX5-6-8	1510								hold	
7 EX5-7-8	1520		X	X						
8 EX5-8-8	1525		X	X						
9										
10										

REQUESTED ANALYSES

RELEASED BY: Josh Lee	DATE: 7/22/2014	RECEIVED BY: Cat Stapleton	DATE: 7/23/14
PRINT NAME: Josh Lee	FIRM: GeoEngineers	TIME: 1600	PRINT NAME: Cat Stapleton	FIRM: TestAmerica	TIME: 0950
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 6.9 PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXG0152	Client: Geo Engineers	Project: Cashmere, WA
Date/Time Received: 7-23-14 9:50	By: CS	

Samples Delivered By: ☑ Shipping Service ☐ Courier ☐ Client ☐ Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	Y			
Custody Seals are present and intact:			N	
Are CoC documents present:	Y			
Necessary signatures:	Y			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry Ice ☐ None ☐ Other: _____

Temperature: 6.9 °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☒ Not enough ice ☒ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other: _____

Log-In Phase Date/Time: 7-23-14 10:18 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification			N	
Are VOC samples free of bubbles >6mm (1/4" diameter)			Y	
Are dissolved parameters field filtered		Y		
Do any samples need to be filtered or preserved by the lab		Y		
Does this project require quick turnaround analysis	Y			2 days
Are there any short hold time tests (see chart below)		Y		
Are any samples within 2 days of or past expiration		Y		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		Y		
If yes, was a CAR generated #			N	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXG0169
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA
Revision: 1

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
11/7/2014 10:13:52 AM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 5
Definitions 6
Client Sample Results 7
QC Sample Results 13
Chronicle 25
Certification Summary 27
Method Summary 28
Chain of Custody 29

Job ID: SXG0169

Laboratory: TestAmerica Spokane

Narrative

Revision1: The 8270 SVOC was initially evaluated and reported down to the MDL. Per the client's request the data has be re-evaluated to the RL (reporting limit) only and the data is reflected in the amended report. This final report replaces the final report generated on 08/04/2014.

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: TestAmerica Laboratories, Inc

Project: Analytical Subcontract

Report Number: 160-7628-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Revision 1 and 2- Client requested data to be reported to RL rather than MDL.

RECEIPT

The samples were received on 07/25/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample SXG0169-06 (160-7628-1) was analyzed for Semivolatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/25/2014 and analyzed on 07/27/2014.

Job ID: SXG0169 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The laboratory control sample (LCS) for batch 134230 recovered outside control limits for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, and Hexachlorocyclopentadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 160-133955/2-A)

The MS/MSD recoveries are outside the upper QC limit, indicating a potential positive bias for that analytes. These analytes were not detected above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion. The original sample results are provided. (160-7628-1 MS), (160-7628-1 MSD)

Surrogate recoveries for the following samples were outside the upper control limit: (160-7628-1 MS), (160-7628-1 MSD), (LCS 160-133955/2-A), SXG0169-06 (160-7628-1). These samples did not contain any target analytes (except for QC); therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Sample SXG0169-06 (160-7628-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/27/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXG0169-01	EX6-1-3	Soil	07/23/14 12:40	07/24/14 10:15
SXG0169-02	EX6-2-3	Soil	07/23/14 12:50	07/24/14 10:15
SXG0169-03	EX6-3-3	Soil	07/23/14 13:00	07/24/14 10:15
SXG0169-04	EX6-4-3	Soil	07/23/14 13:05	07/24/14 10:15
SXG0169-05	EX6-5-3	Soil	07/23/14 13:10	07/24/14 10:15
SXG0169-06	EX6-6-3	Soil	07/23/14 13:15	07/24/14 10:15

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S2	Compound is a common lab solvent and contaminant.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits

Fuels

Qualifier	Qualifier Description
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: EX6-1-3

Lab Sample ID: SXG0169-01

Date Collected: 07/23/14 12:40

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 86.9

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	6.21		5.01		mg/kg dry	☼	07/24/14 11:15	07/24/14 14:47	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*98.5*		*41.5 - 162*	*07/24/14 11:15*	*07/24/14 14:47*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	31.6		11.5		mg/kg dry	☼	07/25/14 10:39	07/25/14 15:08	1.00
Heavy Oil Range Hydrocarbons	55.7		28.8		mg/kg dry	☼	07/25/14 10:39	07/25/14 15:08	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97.2*		*50 - 150*	*07/25/14 10:39*	*07/25/14 15:08*	*1.00*
n-Triacontane-d62	*89.2*		*50 - 150*	*07/25/14 10:39*	*07/25/14 15:08*	*1.00*

Client Sample ID: EX6-2-3

Lab Sample ID: SXG0169-02

Date Collected: 07/23/14 12:50

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 86.2

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.56		mg/kg dry	☼	07/24/14 11:15	07/24/14 15:10	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*106*		*41.5 - 162*	*07/24/14 11:15*	*07/24/14 15:10*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	419		58.0		mg/kg dry	☼	07/25/14 10:39	07/25/14 15:55	5.00
Heavy Oil Range Hydrocarbons	1480		145		mg/kg dry	☼	07/25/14 10:39	07/25/14 15:55	5.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97.2*		*50 - 150*	*07/25/14 10:39*	*07/25/14 15:55*	*5.00*
n-Triacontane-d62	*169*	*ZX*	*50 - 150*	*07/25/14 10:39*	*07/25/14 15:55*	*5.00*

Client Sample ID: EX6-3-3

Lab Sample ID: SXG0169-03

Date Collected: 07/23/14 13:00

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 90.8

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.70		mg/kg dry	☼	07/24/14 11:15	07/24/14 15:32	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*99.2*		*41.5 - 162*	*07/24/14 11:15*	*07/24/14 15:32*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	65.7		11.0		mg/kg dry	☼	07/25/14 10:39	07/25/14 16:41	1.00
Heavy Oil Range Hydrocarbons	207		27.5		mg/kg dry	☼	07/25/14 10:39	07/25/14 16:41	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*110*		*50 - 150*	*07/25/14 10:39*	*07/25/14 16:41*	*1.00*

Client Sample ID: EX6-3-3

Lab Sample ID: SXG0169-03

Date Collected: 07/23/14 13:00

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 90.8

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	*91.8*		*50 - 150*	*07/25/14 10:39*	*07/25/14 16:41*	*1.00*

Client Sample ID: EX6-4-3

Lab Sample ID: SXG0169-04

Date Collected: 07/23/14 13:05

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 86

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**11.0**		6.19		mg/kg dry	☼	07/24/14 11:15	07/24/14 15:55	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*99.8*		*41.5 - 162*	*07/24/14 11:15*	*07/24/14 15:55*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**68.0**		11.6		mg/kg dry	☼	07/25/14 10:39	07/25/14 17:05	1.00
Heavy Oil Range Hydrocarbons	**131**		29.1		mg/kg dry	☼	07/25/14 10:39	07/25/14 17:05	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*101*		*50 - 150*	*07/25/14 10:39*	*07/25/14 17:05*	*1.00*
n-Triacontane-d62	*94.7*		*50 - 150*	*07/25/14 10:39*	*07/25/14 17:05*	*1.00*

Client Sample ID: EX6-5-3

Lab Sample ID: SXG0169-05

Date Collected: 07/23/14 13:10

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 92.1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.96		mg/kg dry	☼	07/24/14 11:15	07/24/14 16:17	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*99.5*		*41.5 - 162*	*07/24/14 11:15*	*07/24/14 16:17*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.9		mg/kg dry	☼	07/25/14 10:39	07/25/14 17:28	1.00
Heavy Oil Range Hydrocarbons	ND		27.1		mg/kg dry	☼	07/25/14 10:39	07/25/14 17:28	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*103*		*50 - 150*	*07/25/14 10:39*	*07/25/14 17:28*	*1.00*
n-Triacontane-d62	*91.0*		*50 - 150*	*07/25/14 10:39*	*07/25/14 17:28*	*1.00*

Client Sample ID: EX6-6-3

Lab Sample ID: SXG0169-06

Date Collected: 07/23/14 13:15

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 73.8

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.144	0.0134	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Chloromethane	ND		0.721	0.00765	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Vinyl chloride	ND		0.0866	0.00894	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Client Sample ID: EX6-6-3
Date Collected: 07/23/14 13:15
Date Received: 07/24/14 10:15

Lab Sample ID: SXG0169-06
Matrix: Soil
Percent Solids: 73.8

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.721	0.0441	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Chloroethane	ND		0.144	0.0353	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Trichlorofluoromethane	ND		0.0433	0.0114	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,1-Dichloroethene	ND		0.144	0.0183	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Carbon disulfide	ND		0.144	0.0154	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Methylene chloride	**0.0563**	**S2 J**	0.289	0.00750	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Acetone	**2.32**	**J**	4.33	0.125	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
trans-1,2-Dichloroethene	ND		0.144	0.0149	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Methyl tert-butyl ether	ND		0.0721	0.00462	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,1-Dichloroethane	ND		0.144	0.0163	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
cis-1,2-Dichloroethene	ND		0.144	0.00822	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
2,2-Dichloropropane	ND		0.144	0.0245	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Bromochloromethane	ND		0.144	0.00563	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Chloroform	ND		0.144	0.0111	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Carbon tetrachloride	ND		0.144	0.0300	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,1,1-Trichloroethane	ND		0.144	0.0250	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
2-Butanone	ND		1.44	0.159	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Hexane	ND		0.144	0.0117	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,1-Dichloropropene	ND		0.144	0.0251	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Benzene	ND		0.0216	0.0140	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2-Dichloroethane (EDC)	ND		0.144	0.00707	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Trichloroethene	ND		0.0361	0.0185	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Dibromomethane	ND		0.144	0.0131	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2-Dichloropropane	ND		0.144	0.00866	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Bromodichloromethane	ND		0.144	0.0101	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
cis-1,3-Dichloropropene	ND		0.144	0.00894	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Toluene	**0.0606**	**J**	0.144	0.0192	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
4-Methyl-2-pentanone	ND		1.44	0.0294	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
trans-1,3-Dichloropropene	ND		0.144	0.00952	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Tetrachloroethene	ND		0.0577	0.0254	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,1,2-Trichloroethane	ND		0.144	0.00894	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Dibromochloromethane	ND		0.144	0.00866	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,3-Dichloropropane	ND		0.144	0.0107	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2-Dibromoethane	ND		0.0144	0.00837	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
2-Hexanone	ND		1.44	0.0671	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Ethylbenzene	ND		0.144	0.0234	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Chlorobenzene	ND		0.144	0.0110	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,1,1,2-Tetrachloroethane	ND		0.144	0.0147	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
m,p-Xylene	ND		0.577	0.0245	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
o-Xylene	ND		0.289	0.0189	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Styrene	ND		0.144	0.0134	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Bromoform	ND		0.144	0.0180	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Isopropylbenzene	ND		0.144	0.0274	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
n-Propylbenzene	ND		0.144	0.0299	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,1,2,2-Tetrachloroethane	ND		0.144	0.0108	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Bromobenzene	ND		0.144	0.0136	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,3,5-Trimethylbenzene	ND		0.144	0.0268	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
2-Chlorotoluene	ND		0.144	0.0235	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2,3-Trichloropropane	ND		0.144	0.0121	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00

Client Sample ID: EX6-6-3
Date Collected: 07/23/14 13:15
Date Received: 07/24/14 10:15

Lab Sample ID: SXG0169-06
Matrix: Soil
Percent Solids: 73.8

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		0.144	0.0206	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
tert-Butylbenzene	ND		0.144	0.0312	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2,4-Trimethylbenzene	ND		0.144	0.0209	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
sec-Butylbenzene	ND		0.144	0.0339	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
p-Isopropyltoluene	ND		0.144	0.0345	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,3-Dichlorobenzene	ND		0.144	0.0182	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,4-Dichlorobenzene	ND		0.144	0.0153	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
n-Butylbenzene	ND		0.144	0.0397	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2-Dichlorobenzene	ND		0.144	0.0110	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2-Dibromo-3-chloropropane	ND		0.721	0.0410	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Hexachlorobutadiene	ND		0.144	0.0822	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2,4-Trichlorobenzene	ND		0.144	0.0287	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
Naphthalene	ND		0.289	0.0196	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00
1,2,3-Trichlorobenzene	ND		0.144	0.0512	mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*99.6*		*80 - 120*	*07/24/14 11:15*	*07/24/14 16:40*	*1.00*
1,2-dichloroethane-d4	*101*		*74.7 - 120*	*07/24/14 11:15*	*07/24/14 16:40*	*1.00*
Toluene-d8	*101*		*78.5 - 125*	*07/24/14 11:15*	*07/24/14 16:40*	*1.00*
4-bromofluorobenzene	*111*		*69.8 - 140*	*07/24/14 11:15*	*07/24/14 16:40*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.21		mg/kg dry	☼	07/24/14 11:15	07/24/14 16:40	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*111*		*41.5 - 162*	*07/24/14 11:15*	*07/24/14 16:40*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Acenaphthylene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Anthracene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Benzo[a]anthracene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Benzo[b]fluoranthene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Benzo[k]fluoranthene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Benzo[g,h,i]perylene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Benzo[a]pyrene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Bis(2-chloroethoxy)methane	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Bis(2-chloroethyl)ether	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Bis(2-ethylhexyl) phthalate	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
4-Bromophenyl phenyl ether	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Butyl benzyl phthalate	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Carbazole	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
4-Chloroaniline	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
4-Chloro-3-methylphenol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2-Chloronaphthalene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2-Chlorophenol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
4-Chlorophenyl phenyl ether	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Chrysene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Client Sample ID: EX6-6-3
Date Collected: 07/23/14 13:15
Date Received: 07/24/14 10:15

Lab Sample ID: SXG0169-06
Matrix: Soil
Percent Solids: 80.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Dibenzofuran	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Di-n-butyl phthalate	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
1,2-Dichlorobenzene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
1,3-Dichlorobenzene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
1,4-Dichlorobenzene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
3,3'-Dichlorobenzidine	ND		2.0		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2,4-Dichlorophenol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Diethyl phthalate	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2,4-Dimethylphenol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Dimethyl phthalate	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
4,6-Dinitro-2-methylphenol	ND		2.0		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2,4-Dinitrophenol	ND		2.0		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2,4-Dinitrotoluene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2,6-Dinitrotoluene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Di-n-octyl phthalate	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Fluoranthene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Fluorene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Hexachlorobenzene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Hexachlorobutadiene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Hexachlorocyclopentadiene	ND	*	2.0		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Hexachloroethane	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Indeno[1,2,3-cd]pyrene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Isophorone	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2-Methylnaphthalene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2-Methylphenol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
3 & 4 Methylphenol	ND		0.82		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Naphthalene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2-Nitroaniline	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
3-Nitroaniline	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
4-Nitroaniline	ND		2.0		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Nitrobenzene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2-Nitrophenol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
4-Nitrophenol	ND		2.0		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
N-Nitrosodiphenylamine	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
N-Nitrosodi-n-propylamine	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
bis (2-chloroisopropyl) ether	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Pentachlorophenol	ND		0.82		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Phenanthrene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Phenol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Pyrene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
1,2,4-Trichlorobenzene	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2,4,5-Trichlorophenol	ND	*	0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
2,4,6-Trichlorophenol	ND	*	0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Aniline	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
1,4-Dioxane	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Benzyl alcohol	ND		0.41		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1
Pyridine	ND		0.82		mg/Kg	☼	07/25/14 12:28	07/27/14 19:55	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Client Sample ID: EX6-6-3
Date Collected: 07/23/14 13:15
Date Received: 07/24/14 10:15

Lab Sample ID: SXG0169-06
Matrix: Soil
Percent Solids: 80.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	92		53 - 97	07/25/14 12:28	07/27/14 19:55	1
2,4,6-Tribromophenol (Surr)	84		46 - 111	07/25/14 12:28	07/27/14 19:55	1
Nitrobenzene-d5 (Surr)	97		55 - 98	07/25/14 12:28	07/27/14 19:55	1
Phenol-d5 (Surr)	91		54 - 101	07/25/14 12:28	07/27/14 19:55	1
Terphenyl-d14 (Surr)	82		58 - 123	07/25/14 12:28	07/27/14 19:55	1
2-Fluorobiphenyl (Surr)	101	X	56 - 97	07/25/14 12:28	07/27/14 19:55	1

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	796		678		mg/kg dry	☼	07/25/14 10:39	07/28/14 10:15	50.0
Heavy Oil Range Hydrocarbons	3250		1690		mg/kg dry	☼	07/25/14 10:39	07/28/14 10:15	50.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77.2	Z3	50 - 150	07/25/14 10:39	07/28/14 10:15	50.0
n-Triacontane-d62		Z3	50 - 150	07/25/14 10:39	07/28/14 10:15	50.0

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14G0166-BLK1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Methylene chloride	ND		0.200	0.00520	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2-Dichloropropane	ND		0.100	0.00600	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Bromodichloromethane	ND		0.100	0.00700	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Dibromochloromethane	ND		0.100	0.00600	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Bromoform	ND		0.100	0.0125	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0166-BLK1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*80 - 120*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*
1,2-dichloroethane-d4	*103*		*74.7 - 120*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*
4-bromofluorobenzene	*99.1*		*69.8 - 140*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*

Lab Sample ID: 14G0166-BS1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.551		mg/kg wet		110	60.5 - 130
Chloromethane	0.500	0.512		mg/kg wet		102	68.9 - 130
Vinyl chloride	0.500	0.533		mg/kg wet		107	74 - 142
Bromomethane	0.500	0.608		mg/kg wet		122	70.5 - 146
Chloroethane	0.500	0.516		mg/kg wet		103	60 - 140
Trichlorofluoromethane	0.500	0.480		mg/kg wet		96.1	70.5 - 139
1,1-Dichloroethene	0.500	0.504		mg/kg wet		101	72.9 - 135
Carbon disulfide	0.500	0.532		mg/kg wet		106	66.8 - 146
Methylene chloride	0.500	0.474		mg/kg wet		94.7	60 - 140
Acetone	2.50	3.28		mg/kg wet		131	39.2 - 145
trans-1,2-Dichloroethene	0.500	0.524		mg/kg wet		105	60 - 140
Methyl tert-butyl ether	0.500	0.582		mg/kg wet		116	60 - 140
1,1-Dichloroethane	0.500	0.550		mg/kg wet		110	80 - 131
cis-1,2-Dichloroethene	0.500	0.520		mg/kg wet		104	80 - 126
2,2-Dichloropropane	0.500	0.502		mg/kg wet		100	71.5 - 132
Bromochloromethane	0.500	0.530		mg/kg wet		106	69.1 - 139
Chloroform	0.500	0.529		mg/kg wet		106	80 - 130
Carbon tetrachloride	0.500	0.526		mg/kg wet		105	73.6 - 148

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0166-BS1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.520		mg/kg wet		104	74.3 - 138
2-Butanone	2.50	3.08		mg/kg wet		123	56.1 - 124
Hexane	0.500	0.554		mg/kg wet		111	77 - 130
1,1-Dichloropropene	0.500	0.528		mg/kg wet		106	78.3 - 132
Benzene	0.500	0.520		mg/kg wet		104	75.8 - 123
1,2-Dichloroethane (EDC)	0.500	0.574		mg/kg wet		115	71.1 - 142
Trichloroethene	0.500	0.528		mg/kg wet		106	78.5 - 134
Dibromomethane	0.500	0.534		mg/kg wet		107	80 - 129
1,2-Dichloropropane	0.500	0.526		mg/kg wet		105	50.8 - 155
Bromodichloromethane	0.500	0.522		mg/kg wet		104	80 - 128
cis-1,3-Dichloropropene	0.500	0.513		mg/kg wet		103	80 - 126
Toluene	0.500	0.546		mg/kg wet		109	76.6 - 125
4-Methyl-2-pentanone	2.50	3.29		mg/kg wet		131	66.4 - 131
trans-1,3-Dichloropropene	0.500	0.586		mg/kg wet		117	79 - 124
Tetrachloroethene	0.500	0.576		mg/kg wet		115	80 - 127
1,1,2-Trichloroethane	0.500	0.601		mg/kg wet		120	78.4 - 125
Dibromochloromethane	0.500	0.546		mg/kg wet		109	78.4 - 127
1,3-Dichloropropane	0.500	0.600		mg/kg wet		120	80 - 125
1,2-Dibromoethane	0.500	0.591		mg/kg wet		118	77.1 - 129
2-Hexanone	2.50	3.04		mg/kg wet		122	64.6 - 127
Ethylbenzene	0.500	0.534		mg/kg wet		107	77.3 - 121
Chlorobenzene	0.500	0.580		mg/kg wet		116	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.556		mg/kg wet		111	80 - 120
m,p-Xylene	0.500	0.538		mg/kg wet		108	77.7 - 124
o-Xylene	0.500	0.562		mg/kg wet		112	76.7 - 129
Styrene	0.500	0.552		mg/kg wet		110	80 - 128
Bromoform	0.500	0.592		mg/kg wet		118	76 - 135
Isopropylbenzene	0.500	0.545		mg/kg wet		109	78.4 - 131
n-Propylbenzene	0.500	0.546		mg/kg wet		109	80 - 120
1,1,2,2-Tetrachloroethane	0.500	0.626		mg/kg wet		125	60.3 - 137
Bromobenzene	0.500	0.540		mg/kg wet		108	60 - 140
1,3,5-Trimethylbenzene	0.500	0.539		mg/kg wet		108	80 - 121
2-Chlorotoluene	0.500	0.562		mg/kg wet		112	80 - 123
1,2,3-Trichloropropane	0.500	0.578		mg/kg wet		116	59.9 - 131
4-Chlorotoluene	0.500	0.536		mg/kg wet		107	80 - 124
tert-Butylbenzene	0.500	0.536		mg/kg wet		107	78.8 - 130
1,2,4-Trimethylbenzene	0.500	0.548		mg/kg wet		110	80 - 122
sec-Butylbenzene	0.500	0.544		mg/kg wet		109	80 - 120
p-Isopropyltoluene	0.500	0.542		mg/kg wet		108	67.2 - 147
1,3-Dichlorobenzene	0.500	0.562		mg/kg wet		112	80 - 122
1,4-Dichlorobenzene	0.500	0.554		mg/kg wet		111	80 - 125
n-Butylbenzene	0.500	0.554		mg/kg wet		111	80 - 120
1,2-Dichlorobenzene	0.500	0.586		mg/kg wet		117	80 - 124
1,2-Dibromo-3-chloropropane	0.500	0.654		mg/kg wet		131	60 - 140
Hexachlorobutadiene	0.500	0.556		mg/kg wet		111	71.8 - 138
1,2,4-Trichlorobenzene	0.500	0.558		mg/kg wet		112	75.3 - 126
Naphthalene	0.500	0.546		mg/kg wet		109	55.1 - 142
1,2,3-Trichlorobenzene	0.500	0.531		mg/kg wet		106	69.6 - 127

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0166-BS1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0166_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*103*		*80 - 120*
1,2-dichloroethane-d4	*105*		*74.7 - 120*
Toluene-d8	*102*		*78.5 - 125*
4-bromofluorobenzene	*101*		*69.8 - 140*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14G0166-BLK1
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		07/24/14 08:07	07/24/14 09:52	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*99.1*		*41.5 - 162*	*07/24/14 08:07*	*07/24/14 09:52*	*1.00*

Lab Sample ID: 14G0166-BS2
Matrix: Soil
Analysis Batch: 14G0166

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0166_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	49.4		mg/kg wet		98.8	74.4 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*98.2*		*41.5 - 162*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-133955/1-A
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Acenaphthylene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Anthracene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Benzo[a]anthracene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Benzo[b]fluoranthene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Benzo[k]fluoranthene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Benzo[g,h,i]perylene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Benzo[a]pyrene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Bis(2-chloroethoxy)methane	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Bis(2-chloroethyl)ether	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
4-Bromophenyl phenyl ether	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Butyl benzyl phthalate	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-133955/1-A
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
4-Chloroaniline	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
4-Chloro-3-methylphenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2-Chloronaphthalene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2-Chlorophenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
4-Chlorophenyl phenyl ether	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Chrysene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Dibenz(a,h)anthracene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Dibenzofuran	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Di-n-butyl phthalate	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
1,2-Dichlorobenzene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
1,3-Dichlorobenzene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
1,4-Dichlorobenzene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
3,3'-Dichlorobenzidine	ND		1.6		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Diethyl phthalate	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2,4-Dimethylphenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Dimethyl phthalate	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
4,6-Dinitro-2-methylphenol	ND		1.6		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2,4-Dinitrophenol	ND		1.6		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2,4-Dinitrotoluene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2,6-Dinitrotoluene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Di-n-octyl phthalate	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Fluoranthene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Fluorene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Hexachlorobenzene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Hexachlorobutadiene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Hexachlorocyclopentadiene	ND		1.6		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Hexachloroethane	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Indeno[1,2,3-cd]pyrene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Isophorone	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2-Methylnaphthalene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2-Methylphenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
3 & 4 Methylphenol	ND		0.66		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Naphthalene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2-Nitroaniline	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
3-Nitroaniline	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
4-Nitroaniline	ND		1.6		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Nitrobenzene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2-Nitrophenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
4-Nitrophenol	ND		1.6		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
N-Nitrosodiphenylamine	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
N-Nitrosodi-n-propylamine	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
bis (2-chloroisopropyl) ether	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Pentachlorophenol	ND		0.66		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Phenanthrene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Phenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Pyrene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-133955/1-A
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2,4,5-Trichlorophenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
2,4,6-Trichlorophenol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Aniline	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
1,4-Dioxane	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Benzyl alcohol	ND		0.33		mg/Kg		07/25/14 12:28	07/27/14 18:50	1
Pyridine	ND		0.66		mg/Kg		07/25/14 12:28	07/27/14 18:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*89*		*53 - 97*	*07/25/14 12:28*	*07/27/14 18:50*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*46 - 111*	*07/25/14 12:28*	*07/27/14 18:50*	*1*
Nitrobenzene-d5 (Surr)	*89*		*55 - 98*	*07/25/14 12:28*	*07/27/14 18:50*	*1*
Phenol-d5 (Surr)	*92*		*54 - 101*	*07/25/14 12:28*	*07/27/14 18:50*	*1*
Terphenyl-d14 (Surr)	*89*		*58 - 123*	*07/25/14 12:28*	*07/27/14 18:50*	*1*
2-Fluorobiphenyl (Surr)	*95*		*56 - 97*	*07/25/14 12:28*	*07/27/14 18:50*	*1*

Lab Sample ID: LCS 160-133955/2-A
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6.67	5.98		mg/Kg		90	63 - 95
Acenaphthylene	6.67	6.11		mg/Kg		92	62 - 98
Anthracene	6.68	5.91		mg/Kg		88	63 - 100
Benzo[a]anthracene	6.67	5.98		mg/Kg		90	74 - 114
Benzo[b]fluoranthene	6.67	6.08		mg/Kg		91	68 - 109
Benzo[k]fluoranthene	6.68	6.30		mg/Kg		94	69 - 111
Benzo[g,h,i]perylene	6.67	6.94		mg/Kg		104	67 - 121
Benzo[a]pyrene	6.67	6.15		mg/Kg		92	63 - 103
Bis(2-chloroethoxy)methane	6.68	5.95		mg/Kg		89	62 - 91
Bis(2-chloroethyl)ether	6.67	5.74		mg/Kg		86	58 - 92
Bis(2-ethylhexyl) phthalate	6.67	6.34		mg/Kg		95	63 - 112
4-Bromophenyl phenyl ether	6.67	6.30		mg/Kg		94	63 - 106
Butyl benzyl phthalate	6.67	6.53		mg/Kg		98	59 - 111
Carbazole	6.69	5.65		mg/Kg		85	64 - 101
4-Chloroaniline	6.67	4.26		mg/Kg		64	43 - 70
4-Chloro-3-methylphenol	6.67	5.70		mg/Kg		85	58 - 95
2-Chloronaphthalene	6.67	6.28		mg/Kg		94	61 - 94
2-Chlorophenol	6.67	5.78		mg/Kg		87	60 - 91
4-Chlorophenyl phenyl ether	6.68	5.74		mg/Kg		86	61 - 96
Chrysene	6.67	6.09		mg/Kg		91	66 - 100
Dibenz(a,h)anthracene	6.67	7.10		mg/Kg		106	67 - 114
Dibenzofuran	6.67	5.74		mg/Kg		86	58 - 95
Di-n-butyl phthalate	6.67	5.97		mg/Kg		89	62 - 104
1,2-Dichlorobenzene	6.67	5.76		mg/Kg		86	59 - 90
1,3-Dichlorobenzene	6.67	5.66		mg/Kg		85	57 - 88
1,4-Dichlorobenzene	6.67	5.73		mg/Kg		86	58 - 88
3,3'-Dichlorobenzidine	6.67	5.64		mg/Kg		85	50 - 90

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-133955/2-A
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	6.67	5.76		mg/Kg		86	59 - 90
Diethyl phthalate	6.67	5.80		mg/Kg		87	62 - 97
2,4-Dimethylphenol	6.67	5.91		mg/Kg		89	54 - 108
Dimethyl phthalate	6.67	5.98		mg/Kg		90	63 - 98
4,6-Dinitro-2-methylphenol	6.67	6.58		mg/Kg		99	31 - 112
2,4-Dinitrophenol	6.67	5.56		mg/Kg		83	20 - 100
2,4-Dinitrotoluene	6.68	5.81		mg/Kg		87	61 - 103
2,6-Dinitrotoluene	6.67	6.02		mg/Kg		90	63 - 99
Di-n-octyl phthalate	6.67	6.37		mg/Kg		96	61 - 111
Fluoranthene	6.67	5.66		mg/Kg		85	63 - 101
Fluorene	6.67	5.76		mg/Kg		86	62 - 96
Hexachlorobenzene	6.67	6.09		mg/Kg		91	62 - 106
Hexachlorobutadiene	6.67	5.85		mg/Kg		88	57 - 94
Hexachlorocyclopentadiene	6.67	7.76	*	mg/Kg		116	40 - 115
Hexachloroethane	6.67	5.88		mg/Kg		88	59 - 93
Indeno[1,2,3-cd]pyrene	6.67	6.92		mg/Kg		104	65 - 120
Isophorone	6.67	5.06		mg/Kg		76	57 - 86
2-Methylnaphthalene	6.65	5.68		mg/Kg		85	59 - 90
2-Methylphenol	6.68	5.68		mg/Kg		85	58 - 96
3 & 4 Methylphenol	6.67	6.43		mg/Kg		96	47 - 113
Naphthalene	6.67	5.90		mg/Kg		88	60 - 90
2-Nitroaniline	6.69	6.69		mg/Kg		100	58 - 105
3-Nitroaniline	6.67	5.46		mg/Kg		82	55 - 91
4-Nitroaniline	6.69	5.66		mg/Kg		85	57 - 94
Nitrobenzene	6.67	6.07		mg/Kg		91	58 - 95
2-Nitrophenol	6.68	5.87		mg/Kg		88	60 - 93
4-Nitrophenol	6.68	6.16		mg/Kg		92	54 - 101
N-Nitrosodiphenylamine	6.67	7.42		mg/Kg		111	78 - 133
N-Nitrosodi-n-propylamine	6.67	5.80		mg/Kg		87	60 - 104
bis (2-chloroisopropyl) ether	6.67	5.96		mg/Kg		89	47 - 105
Pentachlorophenol	6.67	6.18		mg/Kg		93	50 - 100
Phenanthrene	6.68	6.09		mg/Kg		91	63 - 99
Phenol	6.67	5.36		mg/Kg		80	53 - 89
Pyrene	6.67	6.61		mg/Kg		99	64 - 102
1,2,4-Trichlorobenzene	6.71	5.77		mg/Kg		86	60 - 91
2,4,5-Trichlorophenol	6.67	6.69	*	mg/Kg		100	59 - 94
2,4,6-Trichlorophenol	6.67	6.60	*	mg/Kg		99	59 - 95

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*88*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*85*		*46 - 111*
Nitrobenzene-d5 (Surr)	*91*		*55 - 98*
Phenol-d5 (Surr)	*88*		*54 - 101*
Terphenyl-d14 (Surr)	*93*		*58 - 123*
2-Fluorobiphenyl (Surr)	*98*	*X*	*56 - 97*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-7628-1 MS
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: SXG0169-06
Prep Type: Total/NA
Prep Batch: 133955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		8.31	7.61		mg/Kg	☼	92	57 - 94
Acenaphthylene	ND		8.31	7.66		mg/Kg	☼	92	57 - 97
Anthracene	ND		8.31	7.51		mg/Kg	☼	90	58 - 99
Benzo[a]anthracene	ND		8.30	7.62		mg/Kg	☼	92	68 - 114
Benzo[b]fluoranthene	ND		8.30	8.68		mg/Kg	☼	105	63 - 107
Benzo[k]fluoranthene	ND		8.31	8.23		mg/Kg	☼	99	65 - 108
Benzo[g,h,i]perylene	ND		8.31	4.71		mg/Kg	☼	57	54 - 127
Benzo[a]pyrene	ND		8.30	7.67		mg/Kg	☼	92	61 - 102
Bis(2-chloroethoxy)methane	ND		8.31	7.79	F1	mg/Kg	☼	94	54 - 89
Bis(2-chloroethyl)ether	ND		8.30	7.41	F1	mg/Kg	☼	89	50 - 88
Bis(2-ethylhexyl) phthalate	ND		8.31	7.54		mg/Kg	☼	89	60 - 110
4-Bromophenyl phenyl ether	ND		8.30	8.02		mg/Kg	☼	97	59 - 105
Butyl benzyl phthalate	ND		8.31	7.73		mg/Kg	☼	93	56 - 110
Carbazole	ND		8.32	7.19		mg/Kg	☼	86	55 - 104
4-Chloroaniline	ND		8.30	5.32		mg/Kg	☼	64	31 - 76
4-Chloro-3-methylphenol	ND		8.31	7.15		mg/Kg	☼	86	53 - 96
2-Chloronaphthalene	ND		8.30	8.07	F1	mg/Kg	☼	97	55 - 92
2-Chlorophenol	ND		8.30	7.33		mg/Kg	☼	88	47 - 90
4-Chlorophenyl phenyl ether	ND		8.31	7.12		mg/Kg	☼	86	57 - 96
Chrysene	ND		8.31	7.36		mg/Kg	☼	89	61 - 100
Dibenz(a,h)anthracene	ND		8.31	5.39		mg/Kg	☼	65	59 - 118
Dibenzofuran	ND		8.31	7.24		mg/Kg	☼	87	55 - 93
Di-n-butyl phthalate	ND		8.31	7.68		mg/Kg	☼	92	58 - 106
1,2-Dichlorobenzene	ND		8.30	7.19	F1	mg/Kg	☼	87	46 - 85
1,3-Dichlorobenzene	ND		8.31	7.10	F1	mg/Kg	☼	86	42 - 84
1,4-Dichlorobenzene	ND		8.31	7.11	F1	mg/Kg	☼	86	45 - 83
3,3'-Dichlorobenzidine	ND		8.31	4.93		mg/Kg	☼	59	10 - 84
2,4-Dichlorophenol	ND		8.30	7.29		mg/Kg	☼	88	47 - 94
Diethyl phthalate	ND		8.30	7.53		mg/Kg	☼	91	58 - 100
2,4-Dimethylphenol	ND		8.30	7.80		mg/Kg	☼	94	33 - 109
Dimethyl phthalate	ND		8.31	8.23		mg/Kg	☼	99	59 - 100
4,6-Dinitro-2-methylphenol	ND		8.30	5.39		mg/Kg	☼	65	32 - 112
2,4-Dinitrophenol	ND		8.30	4.28		mg/Kg	☼	52	13 - 103
2,4-Dinitrotoluene	ND		8.31	7.54		mg/Kg	☼	91	55 - 108
2,6-Dinitrotoluene	ND		8.31	7.84		mg/Kg	☼	94	58 - 101
Di-n-octyl phthalate	ND		8.30	7.95		mg/Kg	☼	96	58 - 113
Fluoranthene	ND		8.30	7.23		mg/Kg	☼	87	58 - 103
Fluorene	ND		8.30	7.24		mg/Kg	☼	87	58 - 97
Hexachlorobenzene	ND		8.30	7.59		mg/Kg	☼	91	59 - 105
Hexachlorobutadiene	ND		8.30	7.27		mg/Kg	☼	88	47 - 89
Hexachlorocyclopentadiene	ND		8.31	8.14		mg/Kg	☼	98	17 - 112
Hexachloroethane	ND		8.30	7.39	F1	mg/Kg	☼	89	43 - 88
Indeno[1,2,3-cd]pyrene	ND		8.30	5.43		mg/Kg	☼	65	56 - 123
Isophorone	ND		8.30	6.51		mg/Kg	☼	79	52 - 84
2-Methylnaphthalene	ND		8.28	6.96		mg/Kg	☼	84	52 - 88
2-Methylphenol	ND		8.31	7.08		mg/Kg	☼	85	48 - 94
3 & 4 Methylphenol	ND		8.30	8.08		mg/Kg	☼	97	39 - 107
Naphthalene	ND		8.31	7.40	F1	mg/Kg	☼	89	52 - 86

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-7628-1 MS
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: SXG0169-06
Prep Type: Total/NA
Prep Batch: 133955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	ND		8.32	9.11	F1	mg/Kg	☼	109	52 - 108
3-Nitroaniline	ND		8.30	7.12		mg/Kg	☼	86	44 - 103
4-Nitroaniline	ND		8.33	6.71		mg/Kg	☼	81	43 - 102
Nitrobenzene	ND		8.30	7.98	F1	mg/Kg	☼	96	52 - 90
2-Nitrophenol	ND		8.31	7.62		mg/Kg	☼	92	51 - 94
4-Nitrophenol	ND		8.31	8.17		mg/Kg	☼	98	48 - 105
N-Nitrosodiphenylamine	ND		8.30	9.85		mg/Kg	☼	119	52 - 131
N-Nitrosodi-n-propylamine	ND		8.30	7.46		mg/Kg	☼	90	55 - 99
bis (2-chloroisopropyl) ether	ND		8.30	7.74		mg/Kg	☼	93	42 - 97
Pentachlorophenol	ND		8.31	8.16		mg/Kg	☼	98	35 - 104
Phenanthrene	ND		8.31	7.74		mg/Kg	☼	93	60 - 98
Phenol	ND		8.31	6.80		mg/Kg	☼	82	43 - 90
Pyrene	ND		8.30	7.43		mg/Kg	☼	88	53 - 106
1,2,4-Trichlorobenzene	ND		8.36	7.27		mg/Kg	☼	87	51 - 87
2,4,5-Trichlorophenol	ND		8.30	8.54	F1	mg/Kg	☼	103	55 - 95
2,4,6-Trichlorophenol	ND		8.31	8.61	F1	mg/Kg	☼	104	48 - 98

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*91*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*83*		*46 - 111*
Nitrobenzene-d5 (Surr)	*96*		*55 - 98*
Phenol-d5 (Surr)	*91*		*54 - 101*
Terphenyl-d14 (Surr)	*83*		*58 - 123*
2-Fluorobiphenyl (Surr)	*103*	*X*	*56 - 97*

Lab Sample ID: 160-7628-1 MSD
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: SXG0169-06
Prep Type: Total/NA
Prep Batch: 133955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		8.31	7.96	F1	mg/Kg	☼	96	57 - 94	4	30
Acenaphthylene	ND		8.31	7.97		mg/Kg	☼	96	57 - 97	4	30
Anthracene	ND		8.32	7.87		mg/Kg	☼	95	58 - 99	5	30
Benzo[a]anthracene	ND		8.31	7.94		mg/Kg	☼	96	68 - 114	4	30
Benzo[b]fluoranthene	ND		8.31	8.98	F1	mg/Kg	☼	108	63 - 107	3	30
Benzo[k]fluoranthene	ND		8.32	8.94		mg/Kg	☼	107	65 - 108	8	30
Benzo[g,h,i]perylene	ND		8.31	4.61		mg/Kg	☼	55	54 - 127	2	30
Benzo[a]pyrene	ND		8.31	8.02		mg/Kg	☼	97	61 - 102	4	30
Bis(2-chloroethoxy)methane	ND		8.32	8.14	F1	mg/Kg	☼	98	54 - 89	4	30
Bis(2-chloroethyl)ether	ND		8.31	7.76	F1	mg/Kg	☼	93	50 - 88	5	30
Bis(2-ethylhexyl) phthalate	ND		8.31	7.93		mg/Kg	☼	94	60 - 110	5	30
4-Bromophenyl phenyl ether	ND		8.31	8.41		mg/Kg	☼	101	59 - 105	5	30
Butyl benzyl phthalate	ND		8.31	8.07		mg/Kg	☼	97	56 - 110	4	30
Carbazole	ND		8.33	7.57		mg/Kg	☼	91	55 - 104	5	30
4-Chloroaniline	ND		8.31	5.51		mg/Kg	☼	66	31 - 76	3	30
4-Chloro-3-methylphenol	ND		8.31	7.50		mg/Kg	☼	90	53 - 96	5	30
2-Chloronaphthalene	ND		8.31	8.38	F1	mg/Kg	☼	101	55 - 92	4	30
2-Chlorophenol	ND		8.31	7.68	F1	mg/Kg	☼	92	47 - 90	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-7628-1 MSD | **Client Sample ID: SXG0169-06**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 134230 | **Prep Batch: 133955**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	ND		8.32	7.43		mg/Kg	☼	89	57 - 96	4	30
Chrysene	ND		8.31	7.76		mg/Kg	☼	93	61 - 100	5	30
Dibenz(a,h)anthracene	ND		8.31	5.43		mg/Kg	☼	65	59 - 118	1	30
Dibenzofuran	ND		8.31	7.58		mg/Kg	☼	91	55 - 93	5	30
Di-n-butyl phthalate	ND		8.31	8.07		mg/Kg	☼	97	58 - 106	5	30
1,2-Dichlorobenzene	ND		8.31	7.48	F1	mg/Kg	☼	90	46 - 85	4	30
1,3-Dichlorobenzene	ND		8.31	7.50	F1	mg/Kg	☼	90	42 - 84	5	30
1,4-Dichlorobenzene	ND		8.31	7.45	F1	mg/Kg	☼	90	45 - 83	5	30
3,3'-Dichlorobenzidine	ND		8.31	5.12		mg/Kg	☼	62	10 - 84	4	30
2,4-Dichlorophenol	ND		8.31	7.59		mg/Kg	☼	91	47 - 94	4	30
Diethyl phthalate	ND		8.31	7.95		mg/Kg	☼	96	58 - 100	5	30
2,4-Dimethylphenol	ND		8.31	8.19		mg/Kg	☼	99	33 - 109	5	30
Dimethyl phthalate	ND		8.31	8.53	F1	mg/Kg	☼	103	59 - 100	3	30
4,6-Dinitro-2-methylphenol	ND		8.31	4.75		mg/Kg	☼	57	32 - 112	12	30
2,4-Dinitrophenol	ND		8.31	3.72		mg/Kg	☼	45	13 - 103	14	30
2,4-Dinitrotoluene	ND		8.32	7.83		mg/Kg	☼	94	55 - 108	4	30
2,6-Dinitrotoluene	ND		8.31	8.23		mg/Kg	☼	99	58 - 101	5	30
Di-n-octyl phthalate	ND		8.31	8.31		mg/Kg	☼	100	58 - 113	4	30
Fluoranthene	ND		8.31	7.60		mg/Kg	☼	91	58 - 103	5	30
Fluorene	ND		8.31	7.55		mg/Kg	☼	91	58 - 97	4	30
Hexachlorobenzene	ND		8.31	7.99		mg/Kg	☼	96	59 - 105	5	30
Hexachlorobutadiene	ND		8.31	7.77	F1	mg/Kg	☼	93	47 - 89	7	30
Hexachlorocyclopentadiene	ND		8.31	7.85		mg/Kg	☼	94	17 - 112	4	30
Hexachloroethane	ND		8.31	7.74	F1	mg/Kg	☼	93	43 - 88	5	30
Indeno[1,2,3-cd]pyrene	ND		8.31	5.37		mg/Kg	☼	65	56 - 123	1	30
Isophorone	ND		8.31	6.88		mg/Kg	☼	83	52 - 84	5	30
2-Methylnaphthalene	ND		8.29	7.30		mg/Kg	☼	88	52 - 88	5	30
2-Methylphenol	ND		8.32	7.42		mg/Kg	☼	89	48 - 94	5	30
3 & 4 Methylphenol	ND		8.31	8.40		mg/Kg	☼	101	39 - 107	4	30
Naphthalene	ND		8.31	7.77	F1	mg/Kg	☼	93	52 - 86	5	30
2-Nitroaniline	ND		8.33	9.60	F1	mg/Kg	☼	115	52 - 108	5	30
3-Nitroaniline	ND		8.31	7.16		mg/Kg	☼	86	44 - 103	1	30
4-Nitroaniline	ND		8.34	7.14		mg/Kg	☼	86	43 - 102	6	30
Nitrobenzene	ND		8.31	8.38	F1	mg/Kg	☼	101	52 - 90	5	30
2-Nitrophenol	ND		8.32	7.99	F1	mg/Kg	☼	96	51 - 94	5	30
4-Nitrophenol	ND		8.32	8.52		mg/Kg	☼	102	48 - 105	4	30
N-Nitrosodiphenylamine	ND		8.31	10.3		mg/Kg	☼	124	52 - 131	4	30
N-Nitrosodi-n-propylamine	ND		8.31	7.86		mg/Kg	☼	95	55 - 99	5	30
bis (2-chloroisopropyl) ether	ND		8.31	8.19	F1	mg/Kg	☼	99	42 - 97	6	30
Pentachlorophenol	ND		8.31	8.53		mg/Kg	☼	103	35 - 104	4	30
Phenanthrene	ND		8.32	8.09		mg/Kg	☼	97	60 - 98	4	30
Phenol	ND		8.31	7.06		mg/Kg	☼	85	43 - 90	4	30
Pyrene	ND		8.31	7.86		mg/Kg	☼	94	53 - 106	6	30
1,2,4-Trichlorobenzene	ND		8.36	7.57	F1	mg/Kg	☼	90	51 - 87	4	30
2,4,5-Trichlorophenol	ND		8.31	9.04	F1	mg/Kg	☼	109	55 - 95	6	30
2,4,6-Trichlorophenol	ND		8.31	9.08	F1	mg/Kg	☼	109	48 - 98	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-7628-1 MSD
Matrix: Solid
Analysis Batch: 134230

Client Sample ID: SXG0169-06
Prep Type: Total/NA
Prep Batch: 133955

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol (Surr)	94		53 - 97
2,4,6-Tribromophenol (Surr)	87		46 - 111
Nitrobenzene-d5 (Surr)	100	X	55 - 98
Phenol-d5 (Surr)	93		54 - 101
Terphenyl-d14 (Surr)	87		58 - 123
2-Fluorobiphenyl (Surr)	106	X	56 - 97

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14G0189-BLK1
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0189_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		07/25/14 10:39	07/25/14 14:19	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		07/25/14 10:39	07/25/14 14:19	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99.1		50 - 150	07/25/14 10:39	07/25/14 14:19	1.00
n-Triacontane-d62	81.3		50 - 150	07/25/14 10:39	07/25/14 14:19	1.00

Lab Sample ID: 14G0189-BS1
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0189_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	62.2		mg/kg wet		93.3	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	101		50 - 150
n-Triacontane-d62	81.9		50 - 150

Lab Sample ID: 14G0189-DUP1
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: EX6-1-3
Prep Type: Total
Prep Batch: 14G0189_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	31.6			25.2		mg/kg dry	☼			22.6	40
Heavy Oil Range Hydrocarbons	55.7			38.0		mg/kg dry	☼			37.8	40

Surrogate	Duplicate %Recovery	Duplicate Qualifier	Limits
o-Terphenyl	103		50 - 150
n-Triacontane-d62	92.7		50 - 150

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14G0189-DUP2
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: EX6-2-3
Prep Type: Total
Prep Batch: 14G0189_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	419			401		mg/kg dry	☼			4.52	40
Heavy Oil Range Hydrocarbons	1480			1420		mg/kg dry	☼			3.96	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*98.8*		*50 - 150*
n-Triacontane-d62	*101*		*50 - 150*

Client Sample ID: EX6-1-3

Lab Sample ID: SXG0169-01

Date Collected: 07/23/14 12:40

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.740	14G0166_P	07/24/14 11:15	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 14:47	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/25/14 15:08	MS	TAL SPK
Total	Prep	Wet Chem		1.00	14G0196_P	07/25/14 16:00	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0196	07/28/14 13:30	MS	TAL SPK

Client Sample ID: EX6-2-3

Lab Sample ID: SXG0169-02

Date Collected: 07/23/14 12:50

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.17	14G0166_P	07/24/14 11:15	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 15:10	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	14G0189	07/25/14 15:55	MS	TAL SPK

Client Sample ID: EX6-3-3

Lab Sample ID: SXG0169-03

Date Collected: 07/23/14 13:00

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.943	14G0166_P	07/24/14 11:15	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 15:32	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/25/14 16:41	MS	TAL SPK

Client Sample ID: EX6-4-3

Lab Sample ID: SXG0169-04

Date Collected: 07/23/14 13:05

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 86

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.924	14G0166_P	07/24/14 11:15	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 15:55	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/25/14 17:05	MS	TAL SPK

Client Sample ID: EX6-5-3

Lab Sample ID: SXG0169-05

Date Collected: 07/23/14 13:10

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.835	14G0166_P	07/24/14 11:15	CBW	TAL SPK

Client Sample ID: EX6-5-3

Lab Sample ID: SXG0169-05

Date Collected: 07/23/14 13:10

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 16:17	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/25/14 17:28	MS	TAL SPK

Client Sample ID: EX6-6-3

Lab Sample ID: SXG0169-06

Date Collected: 07/23/14 13:15

Matrix: Soil

Date Received: 07/24/14 10:15

Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.803	14G0166_P	07/24/14 11:15	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0166	07/24/14 16:40	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.803	14G0166_P	07/24/14 11:15	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0166	07/24/14 16:40	CBW	TAL SPK
Total/NA	Prep	3550C			133955	07/25/14 12:28	KKA	TAL SL
Total/NA	Analysis	8270D		1	134230	07/27/14 19:55	JSW	TAL SL
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		50.0	14G0189	07/28/14 10:15	MS	TAL SPK
Total/NA	Analysis	Moisture		1	133986	07/27/14 07:21	SDB	TAL SL

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15
California	NELAP	9	2886	03-31-15
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-15
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14 *
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15
Maryland	State Program	3	310	09-30-15
Missouri	State Program	7	780	06-30-15
Nevada	State Program	9	MO000542013-1	07-31-15
New Jersey	NELAP	2	MO002	06-30-15
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	03-31-15
North Dakota	State Program	8	R207	06-30-14 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-15
Pennsylvania	NELAP	3	68-00540	02-28-15
South Carolina	State Program	4	85002001	06-30-14 *
Texas	NELAP	6	T104704193-13-6	07-31-15
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-15
Virginia	NELAP	3	460230	06-14-15
Washington	State Program	10	C592	08-30-15
West Virginia DEP	State Program	3	381	12-31-14 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0169

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
Moisture	Percent Moisture	EPA	TAL SL
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 X
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXG0169

CLIENT: GeoEngineers

REPORT TO: dhuder@geoengineers.com

ADDRESS: 523 E Second Ave
Spokane, WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere, WA

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH-Gx	NWTPH-Dx	VOCs	SVOCs	Hg	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 EX6-1-3	7/23/2014 1240	X	X				S	3		
2 EX6-2-3	1250	X	X					3		
3 EX6-3-3	1300	X	X					3		
4 EX6-4-3	1305	X	X					3		
5 EX6-5-3	1310	X	X					3		
6 EX6-6-3	1315	X	X	X	X			4		
7 EX6-7-8	1320							3	hold	
8 EX6-8-8	1330						V	3	hold	
9										
10										

RELEASED BY: Josh Lee DATE: 7/23/2014
PRINT NAME: Josh Lee FIRM: Geo TIME: 1600

RECEIVED BY: Pat Stapleton DATE: 7-24-14
PRINT NAME: Pat Stapleton FIRM: TestAmerica TIME: 10:15

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 5.4

PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXG0169	Client: GeoEngineers	Project: Cashmere, WA
Date/Time Received: 7-24-14 10:15	By: CS	
Samples Delivered By: ☒ Shipping Service ☐ Courier ☐ Client ☐ Other:		
List Air Bill Number(s) or Attach a photocopy of the Air Bill:		

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry Ice ☐ None ☐ Other:

Temperature: 5.4 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐ Not enough ice ☐ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other:

Log-In Phase Date/Time: 7-24-14 10:40 By: CD	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)	Y			
Are dissolved parameters field filtered			Y	
Do any samples need to be filtered or preserved by the lab			N	
Does this project require quick turnaround analysis	N			2days
Are there any short hold time tests (see chart below)		N		
Are any samples within 2 days of or past expiration		N		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		N		
If yes, was a CAR generated #			N	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXG0172
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
7/30/2014 2:45:38 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 10
Chronicle 13
Certification Summary 17
Method Summary 18
Chain of Custody 19

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXG0172-01	EX7-1-2	Soil	07/24/14 07:50	07/25/14 09:50
SXG0172-02	EX7-2-2	Soil	07/24/14 07:55	07/25/14 09:50
SXG0172-03	EX7-3-2	Soil	07/24/14 08:00	07/25/14 09:50
SXG0172-04	EX7-4-2	Soil	07/24/14 08:05	07/25/14 09:50
SXG0172-06	EX8-1-5	Soil	07/24/14 10:00	07/25/14 09:50
SXG0172-07	EX8-2-5	Soil	07/24/14 10:05	07/25/14 09:50
SXG0172-08	EX8-3-5	Soil	07/24/14 10:10	07/25/14 09:50
SXG0172-09	EX8-4-5	Soil	07/24/14 10:15	07/25/14 09:50
SXG0172-11	EX9-1-4	Soil	07/24/14 12:00	07/25/14 09:50
SXG0172-12	EX9-2-4	Soil	07/24/14 12:05	07/25/14 09:50
SXG0172-13	EX9-3-4	Soil	07/24/14 12:10	07/25/14 09:50
SXG0172-14	EX9-4-4	Soil	07/24/14 12:15	07/25/14 09:50
SXG0172-15	EX9-5-4	Soil	07/24/14 12:20	07/25/14 09:50
SXG0172-16	EX10-1-2	Soil	07/24/14 13:00	07/25/14 09:50
SXG0172-17	EX10-2-6	Soil	07/24/14 14:50	07/25/14 09:50
SXG0172-18	EX10-3-6	Soil	07/24/14 14:55	07/25/14 09:50
SXG0172-19	EX10-4-6	Soil	07/24/14 15:00	07/25/14 09:50
SXG0172-20	EX10-5-6	Soil	07/24/14 15:05	07/25/14 09:50
SXG0172-21	EX10-6-6	Soil	07/24/14 15:10	07/25/14 09:50

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Qualifiers

Metals

Qualifier	Qualifier Description
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: EX7-1-2 — **Lab Sample ID: SXG0172-01**
Date Collected: 07/24/14 07:50 — Matrix: Soil
Date Received: 07/25/14 09:50 — Percent Solids: 71.6

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6500		385		ug/kg dry	☼	07/29/14 09:08	07/29/14 17:01	10.0

Client Sample ID: EX7-2-2 — **Lab Sample ID: SXG0172-02**
Date Collected: 07/24/14 07:55 — Matrix: Soil
Date Received: 07/25/14 09:50 — Percent Solids: 67.3

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1610		455		ug/kg dry	☼	07/29/14 09:08	07/29/14 17:03	10.0

Client Sample ID: EX7-3-2 — **Lab Sample ID: SXG0172-03**
Date Collected: 07/24/14 08:00 — Matrix: Soil
Date Received: 07/25/14 09:50 — Percent Solids: 68.5

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1890		472		ug/kg dry	☼	07/29/14 09:08	07/29/14 17:05	10.0

Client Sample ID: EX7-4-2 — **Lab Sample ID: SXG0172-04**
Date Collected: 07/24/14 08:05 — Matrix: Soil
Date Received: 07/25/14 09:50 — Percent Solids: 84

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1220		391		ug/kg dry	☼	07/29/14 09:08	07/29/14 17:08	10.0

Client Sample ID: EX8-1-5 — **Lab Sample ID: SXG0172-06**
Date Collected: 07/24/14 10:00 — Matrix: Soil
Date Received: 07/25/14 09:50 — Percent Solids: 73.5

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		43.1		ug/kg dry	☼	07/29/14 09:08	07/29/14 15:27	1.00

Client Sample ID: EX8-2-5 — **Lab Sample ID: SXG0172-07**
Date Collected: 07/24/14 10:05 — Matrix: Soil
Date Received: 07/25/14 09:50 — Percent Solids: 73.6

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		48.1		ug/kg dry	☼	07/29/14 09:08	07/29/14 15:29	1.00

Client Sample ID: EX8-3-5 — **Lab Sample ID: SXG0172-08**
Date Collected: 07/24/14 10:10 — Matrix: Soil
Date Received: 07/25/14 09:50 — Percent Solids: 80.1

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		41.7		ug/kg dry	☼	07/29/14 09:08	07/29/14 15:32	1.00

Client Sample ID: EX8-4-5

Lab Sample ID: SXG0172-09
Date Collected: 07/24/14 10:15
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 44.1

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2510		410		ug/kg dry	☼	07/29/14 09:08	07/29/14 17:10	10.0

Client Sample ID: EX9-1-4

Lab Sample ID: SXG0172-11
Date Collected: 07/24/14 12:00
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 93.2

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.17		mg/kg dry	☼	07/28/14 08:07	07/28/14 12:07	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*91.1*		*41.5 - 162*	*07/28/14 08:07*	*07/28/14 12:07*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.7		mg/kg dry	☼	07/25/14 10:39	07/28/14 10:59	1.00
Heavy Oil Range Hydrocarbons	ND		26.8		mg/kg dry	☼	07/25/14 10:39	07/28/14 10:59	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93.5*		*50 - 150*	*07/25/14 10:39*	*07/28/14 10:59*	*1.00*
n-Triacontane-d62	*86.8*		*50 - 150*	*07/25/14 10:39*	*07/28/14 10:59*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	☼	07/29/14 09:08	07/29/14 15:38	1.00

Client Sample ID: EX9-2-4

Lab Sample ID: SXG0172-12
Date Collected: 07/24/14 12:05
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 87.1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.16		mg/kg dry	☼	07/28/14 08:07	07/28/14 12:30	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*90.3*		*41.5 - 162*	*07/28/14 08:07*	*07/28/14 12:30*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		11.5		mg/kg dry	☼	07/25/14 10:39	07/28/14 11:23	1.00
Heavy Oil Range Hydrocarbons	ND		28.7		mg/kg dry	☼	07/25/14 10:39	07/28/14 11:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99.9*		*50 - 150*	*07/25/14 10:39*	*07/28/14 11:23*	*1.00*
n-Triacontane-d62	*90.8*		*50 - 150*	*07/25/14 10:39*	*07/28/14 11:23*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		45.5		ug/kg dry	☼	07/29/14 09:08	07/29/14 15:41	1.00

Client Sample ID: EX9-3-4

Lab Sample ID: SXG0172-13

Date Collected: 07/24/14 12:10

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 91.8

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	10.8		5.07		mg/kg dry	☼	07/28/14 08:07	07/28/14 12:54	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*89.0*		*41.5 - 162*	*07/28/14 08:07*	*07/28/14 12:54*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.9		mg/kg dry	☼	07/25/14 10:39	07/28/14 11:46	1.00
Heavy Oil Range Hydrocarbons	ND		27.2		mg/kg dry	☼	07/25/14 10:39	07/28/14 11:46	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99.0*		*50 - 150*	*07/25/14 10:39*	*07/28/14 11:46*	*1.00*
n-Triacontane-d62	*90.4*		*50 - 150*	*07/25/14 10:39*	*07/28/14 11:46*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		41.7		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:27	1.00

Client Sample ID: EX9-4-4

Lab Sample ID: SXG0172-14

Date Collected: 07/24/14 12:15

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 92.7

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.53		mg/kg dry	☼	07/28/14 08:07	07/28/14 13:17	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*88.9*		*41.5 - 162*	*07/28/14 08:07*	*07/28/14 13:17*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.8		mg/kg dry	☼	07/25/14 10:39	07/28/14 12:10	1.00
Heavy Oil Range Hydrocarbons	ND		27.0		mg/kg dry	☼	07/25/14 10:39	07/28/14 12:10	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94.6*		*50 - 150*	*07/25/14 10:39*	*07/28/14 12:10*	*1.00*
n-Triacontane-d62	*87.0*		*50 - 150*	*07/25/14 10:39*	*07/28/14 12:10*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		40.3		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:29	1.00

Client Sample ID: EX9-5-4

Lab Sample ID: SXG0172-15

Date Collected: 07/24/14 12:20

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 74.7

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		10.0		mg/kg dry	☼	07/28/14 08:07	07/28/14 13:40	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*90.4*		*41.5 - 162*	*07/28/14 08:07*	*07/28/14 13:40*	*1.00*

Client Sample ID: EX9-5-4

Lab Sample ID: SXG0172-15

Date Collected: 07/24/14 12:20
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 74.7

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	42.5		13.4		mg/kg dry	☼	07/25/14 10:39	07/28/14 09:31	1.00
Heavy Oil Range Hydrocarbons	121		33.5		mg/kg dry	☼	07/25/14 10:39	07/28/14 09:31	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97.5*		*50 - 150*	*07/25/14 10:39*	*07/28/14 09:31*	*1.00*
n-Triacontane-d62	*90.4*		*50 - 150*	*07/25/14 10:39*	*07/28/14 09:31*	*1.00*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	120		43.9		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:31	1.00

Client Sample ID: EX10-1-2

Lab Sample ID: SXG0172-16

Date Collected: 07/24/14 13:00
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 85.4

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		39.7		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:34	1.00

Client Sample ID: EX10-2-6

Lab Sample ID: SXG0172-17

Date Collected: 07/24/14 14:50
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 84.8

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		38.5		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:36	1.00

Client Sample ID: EX10-3-6

Lab Sample ID: SXG0172-18

Date Collected: 07/24/14 14:55
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 94.4

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:43	1.00

Client Sample ID: EX10-4-6

Lab Sample ID: SXG0172-19

Date Collected: 07/24/14 15:00
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 85.8

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		44.6		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:45	1.00

Client Sample ID: EX10-5-6

Lab Sample ID: SXG0172-20

Date Collected: 07/24/14 15:05
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 84.8

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		33.8		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:47	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Client Sample ID: EX10-6-6
Date Collected: 07/24/14 15:10
Date Received: 07/25/14 09:50

Lab Sample ID: SXG0172-21
Matrix: Soil
Percent Solids: 86.3

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		46.3		ug/kg dry	☼	07/29/14 09:08	07/29/14 16:50	1.00

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14G0191-BLK1
Matrix: Soil
Analysis Batch: 14G0191

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0191_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		07/28/14 08:07	07/28/14 10:14	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*98.6*		*41.5 - 162*	*07/28/14 08:07*	*07/28/14 10:14*	*1.00*

Lab Sample ID: 14G0191-BS2
Matrix: Soil
Analysis Batch: 14G0191

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0191_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Hydrocarbons			50.0	46.3		mg/kg wet		92.6	74.4 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*90.6*		*41.5 - 162*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14G0189-BLK1
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0189_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		07/25/14 10:39	07/25/14 14:19	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		07/25/14 10:39	07/25/14 14:19	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99.1*		*50 - 150*	*07/25/14 10:39*	*07/25/14 14:19*	*1.00*
n-Triacontane-d62	*81.3*		*50 - 150*	*07/25/14 10:39*	*07/25/14 14:19*	*1.00*

Lab Sample ID: 14G0189-BS1
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0189_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	62.2		mg/kg wet		93.3	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*101*		*50 - 150*
n-Triacontane-d62	*81.9*		*50 - 150*

Lab Sample ID: 14G0189-DUP1
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0189_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	31.6			25.2		mg/kg dry	☼			22.6	40
Heavy Oil Range Hydrocarbons	55.7			38.0		mg/kg dry	☼			37.8	40

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14G0189-DUP1
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0189_P

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*103*		*50 - 150*
n-Triacontane-d62	*92.7*		*50 - 150*

Lab Sample ID: 14G0189-DUP2
Matrix: Soil
Analysis Batch: 14G0189

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0189_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	419			401		mg/kg dry	☼			4.52	40
Heavy Oil Range Hydrocarbons	1480			1420		mg/kg dry	☼			3.96	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*98.8*		*50 - 150*
n-Triacontane-d62	*101*		*50 - 150*

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Lab Sample ID: 14G0198-BLK1
Matrix: Soil
Analysis Batch: 14G0198

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0198_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		07/29/14 09:08	07/29/14 14:46	1.00

Lab Sample ID: 14G0198-BS1
Matrix: Soil
Analysis Batch: 14G0198

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0198_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			200	205		ug/kg wet		102	80 - 120		

Lab Sample ID: 14G0198-MS1
Matrix: Soil
Analysis Batch: 14G0198

Client Sample ID: EX7-1-2
Prep Type: Total
Prep Batch: 14G0198_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	6500		237	7580	M4	ug/kg dry	☼	454	80 - 120		

Lab Sample ID: 14G0198-MSD1
Matrix: Soil
Analysis Batch: 14G0198

Client Sample ID: EX7-1-2
Prep Type: Total
Prep Batch: 14G0198_P

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	6500		215	6530	M4	ug/kg dry	☼	15.0	80 - 120	14.8	20

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods (Continued)

Lab Sample ID: 14G0198-DUP1 — **Client Sample ID: EX7-1-2**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0198 — **Prep Batch: 14G0198_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Mercury	6500			7840		ug/kg dry	☼			18.7	40

Lab Sample ID: 14G0199-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0199 — **Prep Batch: 14G0199_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		07/29/14 09:08	07/29/14 15:50	1.00

Lab Sample ID: 14G0199-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0199 — **Prep Batch: 14G0199_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			200	200		ug/kg wet		100	80 - 120		

Lab Sample ID: 14G0199-MS1 — **Client Sample ID: Matrix Spike**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0199 — **Prep Batch: 14G0199_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		194	200		ug/kg dry	☼	103	80 - 120		

Lab Sample ID: 14G0199-MSD1 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0199 — **Prep Batch: 14G0199_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		194	202		ug/kg dry	☼	104	80 - 120	0.966	20

Lab Sample ID: 14G0199-DUP1 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14G0199 — **Prep Batch: 14G0199_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		ug/kg dry	☼				40

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Client Sample ID: EX7-1-2
Lab Sample ID: SXG0172-01
Date Collected: 07/24/14 07:50
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.769	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		10.0	14G0198	07/29/14 17:01	ZZZ	TAL SPK

Client Sample ID: EX7-2-2
Lab Sample ID: SXG0172-02
Date Collected: 07/24/14 07:55
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.909	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		10.0	14G0198	07/29/14 17:03	ZZZ	TAL SPK

Client Sample ID: EX7-3-2
Lab Sample ID: SXG0172-03
Date Collected: 07/24/14 08:00
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 68.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.943	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		10.0	14G0198	07/29/14 17:05	ZZZ	TAL SPK

Client Sample ID: EX7-4-2
Lab Sample ID: SXG0172-04
Date Collected: 07/24/14 08:05
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 84

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.781	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		10.0	14G0198	07/29/14 17:08	ZZZ	TAL SPK

Client Sample ID: EX8-1-5
Lab Sample ID: SXG0172-06
Date Collected: 07/24/14 10:00
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.862	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0198	07/29/14 15:27	ZZZ	TAL SPK

Client Sample ID: EX8-2-5
Lab Sample ID: SXG0172-07
Date Collected: 07/24/14 10:05
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.962	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0198	07/29/14 15:29	ZZZ	TAL SPK

Client Sample ID: EX8-3-5

Lab Sample ID: SXG0172-08

Date Collected: 07/24/14 10:10

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.833	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0198	07/29/14 15:32	ZZZ	TAL SPK

Client Sample ID: EX8-4-5

Lab Sample ID: SXG0172-09

Date Collected: 07/24/14 10:15

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 44.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.820	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		10.0	14G0198	07/29/14 17:10	ZZZ	TAL SPK

Client Sample ID: EX9-1-4

Lab Sample ID: SXG0172-11

Date Collected: 07/24/14 12:00

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.896	14G0191_P	07/28/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0191	07/28/14 12:07	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/28/14 10:59	MS	TAL SPK
Total	Prep	EPA 7471		0.943	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0198	07/29/14 15:38	ZZZ	TAL SPK

Client Sample ID: EX9-2-4

Lab Sample ID: SXG0172-12

Date Collected: 07/24/14 12:05

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.943	14G0191_P	07/28/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0191	07/28/14 12:30	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/28/14 11:23	MS	TAL SPK
Total	Prep	EPA 7471		0.909	14G0198_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0198	07/29/14 15:41	ZZZ	TAL SPK

Client Sample ID: EX9-3-4

Lab Sample ID: SXG0172-13

Date Collected: 07/24/14 12:10

Matrix: Soil

Date Received: 07/25/14 09:50

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.849	14G0191_P	07/28/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0191	07/28/14 12:54	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Client Sample ID: EX9-3-4

Lab Sample ID: SXG0172-13

Date Collected: 07/24/14 12:10
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/28/14 11:46	MS	TAL SPK
Total	Prep	EPA 7471		0.833	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:27	ZZZ	TAL SPK

Client Sample ID: EX9-4-4

Lab Sample ID: SXG0172-14

Date Collected: 07/24/14 12:15
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.767	14G0191_P	07/28/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0191	07/28/14 13:17	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/28/14 12:10	MS	TAL SPK
Total	Prep	EPA 7471		0.806	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:29	ZZZ	TAL SPK

Client Sample ID: EX9-5-4

Lab Sample ID: SXG0172-15

Date Collected: 07/24/14 12:20
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.25	14G0191_P	07/28/14 08:07	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14G0191	07/28/14 13:40	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	14G0189_P	07/25/14 10:39	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14G0189	07/28/14 09:31	MS	TAL SPK
Total	Prep	EPA 7471		0.877	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:31	ZZZ	TAL SPK

Client Sample ID: EX10-1-2

Lab Sample ID: SXG0172-16

Date Collected: 07/24/14 13:00
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.794	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:34	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14G0196_P	07/25/14 16:00	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0196	07/28/14 13:30	MS	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Client Sample ID: EX10-2-6
Lab Sample ID: SXG0172-17

Date Collected: 07/24/14 14:50
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.769	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:36	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14G0207_P	07/28/14 16:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14G0207	07/29/14 11:21	MS	TAL SPK

Client Sample ID: EX10-3-6
Lab Sample ID: SXG0172-18

Date Collected: 07/24/14 14:55
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.943	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:43	ZZZ	TAL SPK

Client Sample ID: EX10-4-6
Lab Sample ID: SXG0172-19

Date Collected: 07/24/14 15:00
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.893	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:45	ZZZ	TAL SPK

Client Sample ID: EX10-5-6
Lab Sample ID: SXG0172-20

Date Collected: 07/24/14 15:05
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.676	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:47	ZZZ	TAL SPK

Client Sample ID: EX10-6-6
Lab Sample ID: SXG0172-21

Date Collected: 07/24/14 15:10
Matrix: Soil
Date Received: 07/25/14 09:50
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.926	14G0199_P	07/29/14 09:08	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14G0199	07/29/14 16:50	ZZZ	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXG0172

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 [X]
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order # EXG0178

CLIENT: GeoEngineers

REPORT TO: dlander@geoengineers.com

ADDRESS: 523 E Second Ave Spokane, WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: [10] STD. [7] [5] [4] [3] [2] [1] [<1]

Petroleum Hydrocarbon Analyses: [5] STD. [4] [3] [2] [1] [<1]

[OTHER] Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: NWTPH Gx	NWTPH Dx	HCID	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	EX7-1-2	7/24/2014 0750				X	S	3		
2	EX7-2-2	0755				X				
3	EX7-3-2	0800				X				
4	EX7-4-2	0805				X				
5	EX7-5-6	0810				X			hold	
6	EX8-1-5	1000				X				
7	EX8-2-5	1005				X				
8	EX8-3-5	1010				X				
9	EX8-4-5	1015				X				
10	EX8-5-7	1020				X			Hold	

RELEASED BY: [signature] PRINT NAME: Josh Lee FIRM: GeO DATE: 7/24/14 TIME: 1600

RECEIVED BY: [signature] PRINT NAME: Cat Stapleton FIRM: TestAmerica DATE: 7-25-14 TIME: 9:50

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP: 7.3

PAGE 1 OF 3

TAL-1000 (0612)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 [X]
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXG0172

CLIENT: GeoEngineers

REPORT TO: dlander@geoengineers.com
ADDRESS: 523 E Second Ave Spokane, WA 99202
PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere
PROJECT NUMBER: 18593-001-04
SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: [10] STD. [7] [5] [4] [3] [X] [1] [<1]
Petroleum Hydrocarbon Analyses: [5] STD. [4] [3] [X] [1] [<1]
[OTHER] Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: NWTPH Gx	NWTPH Dx	TPH	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 EX9-1-4	7/24/2014 1200		X	X	X	S	3		
2 EX9-2-4	1205		X	X	X				
3 EX9-3-4	1210		X	X	X				
4 EX9-4-4	1215		X	X	X				
5 EX9-5-4	1220		X	X	X				
6 EX10-1-2	1300				X				
7 EX10-2-6	1450				X				
8 EX10-3-6	1455				X				
9 EX10-4-6	1500				X				
10 EX10-5-6	1505				X				

RELEASED BY: [signature] PRINT NAME: Josh Lu FIRM: GeoEngineers DATE: 7/24/2014 TIME: 1600

RECEIVED BY: Cat Hamilton PRINT NAME: Cat Hamilton FIRM: TestAmerica DATE: 7/25/14 TIME: 9:50

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP. 7.3

PAGE 2 OF 3

TAL-1000 (0612)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXG0172

CLIENT: Geoengineers

REPORT TO: dlandon@geoengineers.com

ADDRESS: 525 E Second Ave

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE: Hg	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	EX10-6-6	7/24/2014 1510	X	S	3		
2							
3							
4							
5							
6							
7							
8							
9							
10							

REQUESTED ANALYSES

RELEASED BY: Josh Lu — DATE: 7/24/2014 — TIME: 1600

PRINT NAME: Josh Lu — FIRM: Geo

RECEIVED BY: Cat Stapleton — DATE: 7-25-14 — TIME: 9:50

PRINT NAME: Cat Stapleton — FIRM: TestAmerica

RELEASED BY: — DATE: — TIME:

PRINT NAME: — FIRM:

RECEIVED BY: — DATE: — TIME:

PRINT NAME: — FIRM:

ADDITIONAL REMARKS:

TEMP:

PAGE 3 OF 3

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXG0172	Client: GeoEngineers	Project: Cashmere, WA
Date/Time Received: 7-25-14 9:50	By: CS	

Samples Delivered By: ☒ Shipping Service ☐ Courier ☐ Client ☐ Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry Ice ☐ None ☐ Other: _____

Temperature: 7.3 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☒ Not enough ice ☒ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other: _____

Log-in Phase Date/Time: 7-25-14 10:40 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)			Y	
Are dissolved parameters field filtered			Y	
Do any samples need to be filtered or preserved by the lab		N		
Does this project require quick turnaround analysis	N			2days
Are there any short hold time tests (see chart below)		N		
Are any samples within 2 days of or past expiration		N		
Was the CoC scanned	N			
Were there Non-conformance issues at login		N		
If yes, was a CAR generated # _____			N	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXH0001
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
8/5/2014 4:27:31 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 7
Chronicle 9
Certification Summary 12
Method Summary 13
Chain of Custody 14

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXH0001-01	EX8-6-4	Soil	07/31/14 09:30	08/01/14 10:30
SXH0001-02	EX6-9-3	Soil	07/31/14 12:30	08/01/14 10:30
SXH0001-03	EX6-10-3	Soil	07/31/14 12:40	08/01/14 10:30
SXH0001-04	EX7-6-2	Soil	07/31/14 08:30	08/01/14 10:30
SXH0001-05	EX7-7-3	Soil	07/31/14 14:10	08/01/14 10:30
SXH0001-06	EX7-8-2	Soil	07/31/14 14:15	08/01/14 10:30
SXH0001-07	EX7-9-3	Soil	07/31/14 14:20	08/01/14 10:30
SXH0001-08	EX7-10-2	Soil	07/31/14 14:25	08/01/14 10:30
SXH0001-09	EX7-11-3	Soil	07/31/14 14:30	08/01/14 10:30
SXH0001-10	EX7-12-2	Soil	07/31/14 14:35	08/01/14 10:30
SXH0001-11	EX7-13-3	Soil	07/31/14 14:40	08/01/14 10:30

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0001

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0001

Client Sample ID: EX8-6-4

Lab Sample ID: SXH0001-01
Date Collected: 07/31/14 09:30
Matrix: Soil
Date Received: 08/01/14 10:30
Percent Solids: 74.0

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.55		0.12		mg/Kg	☼	08/04/14 16:23	08/04/14 22:27	1

Client Sample ID: EX6-9-3

Lab Sample ID: SXH0001-02
Date Collected: 07/31/14 12:30
Matrix: Soil
Date Received: 08/01/14 10:30
Percent Solids: 87.9

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.61		mg/kg dry	☼	08/04/14 12:28	08/04/14 15:28	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*91.0*		*41.5 - 162*	*08/04/14 12:28*	*08/04/14 15:28*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	33.8		9.74		mg/kg dry	☼	08/04/14 11:40	08/04/14 14:31	1.00
Heavy Oil Range Hydrocarbons	108		24.4		mg/kg dry	☼	08/04/14 11:40	08/04/14 14:31	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*08/04/14 11:40*	*08/04/14 14:31*	*1.00*
n-Triacontane-d62	*94.3*		*50 - 150*	*08/04/14 11:40*	*08/04/14 14:31*	*1.00*

Client Sample ID: EX6-10-3

Lab Sample ID: SXH0001-03
Date Collected: 07/31/14 12:40
Matrix: Soil
Date Received: 08/01/14 10:30
Percent Solids: 91.7

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.61		mg/kg dry	☼	08/04/14 12:28	08/04/14 15:50	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*90.7*		*41.5 - 162*	*08/04/14 12:28*	*08/04/14 15:50*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	269		107		mg/kg dry	☼	08/04/14 11:40	08/04/14 15:42	10.0
Heavy Oil Range Hydrocarbons	1720		268		mg/kg dry	☼	08/04/14 11:40	08/04/14 15:42	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90.2*		*50 - 150*	*08/04/14 11:40*	*08/04/14 15:42*	*10.0*
n-Triacontane-d62	*125*		*50 - 150*	*08/04/14 11:40*	*08/04/14 15:42*	*10.0*

Client Sample ID: EX7-6-2

Lab Sample ID: SXH0001-04
Date Collected: 07/31/14 08:30
Matrix: Soil
Date Received: 08/01/14 10:30
Percent Solids: 94.2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.91		0.10		mg/Kg	☼	08/04/14 16:23	08/04/14 22:37	1

Client Sample ID: EX7-7-3 — **Lab Sample ID: SXH0001-05**
Date Collected: 07/31/14 14:10 — Matrix: Soil
Date Received: 08/01/14 10:30 — Percent Solids: 19.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	29		18		mg/Kg	☼	08/04/14 16:23	08/04/14 23:36	50

Client Sample ID: EX7-8-2 — **Lab Sample ID: SXH0001-06**
Date Collected: 07/31/14 14:15 — Matrix: Soil
Date Received: 08/01/14 10:30 — Percent Solids: 75.6

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.87		0.13		mg/Kg	☼	08/04/14 16:23	08/04/14 23:03	1

Client Sample ID: EX7-9-3 — **Lab Sample ID: SXH0001-07**
Date Collected: 07/31/14 14:20 — Matrix: Soil
Date Received: 08/01/14 10:30 — Percent Solids: 59.1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.7		1.6		mg/Kg	☼	08/04/14 16:23	08/04/14 23:38	10

Client Sample ID: EX7-10-2 — **Lab Sample ID: SXH0001-08**
Date Collected: 07/31/14 14:25 — Matrix: Soil
Date Received: 08/01/14 10:30 — Percent Solids: 73.9

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.12		mg/Kg	☼	08/04/14 16:23	08/04/14 23:10	1

Client Sample ID: EX7-11-3 — **Lab Sample ID: SXH0001-09**
Date Collected: 07/31/14 14:30 — Matrix: Soil
Date Received: 08/01/14 10:30 — Percent Solids: 79.4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.086		mg/Kg	☼	08/04/14 16:23	08/04/14 23:12	1

Client Sample ID: EX7-12-2 — **Lab Sample ID: SXH0001-10**
Date Collected: 07/31/14 14:35 — Matrix: Soil
Date Received: 08/01/14 10:30 — Percent Solids: 80.0

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.11		mg/Kg	☼	08/04/14 16:23	08/04/14 23:15	1

Client Sample ID: EX7-13-3 — **Lab Sample ID: SXH0001-11**
Date Collected: 07/31/14 14:40 — Matrix: Soil
Date Received: 08/01/14 10:30 — Percent Solids: 32.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.25		mg/Kg	☼	08/04/14 16:23	08/04/14 23:18	1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14H0005-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0005 — **Prep Batch: 14H0005_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		08/04/14 12:28	08/04/14 14:20	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*99.4*		*41.5 - 162*	*08/04/14 12:28*	*08/04/14 14:20*	*1.00*

Lab Sample ID: 14H0005-BS2 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0005 — **Prep Batch: 14H0005_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Hydrocarbons			50.0	49.4		mg/kg wet		98.9	74.4 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*88.5*		*41.5 - 162*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14H0004-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0004 — **Prep Batch: 14H0004_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		08/04/14 11:40	08/04/14 13:45	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		08/04/14 11:40	08/04/14 13:45	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98.1*		*50 - 150*	*08/04/14 11:40*	*08/04/14 13:45*	*1.00*
n-Triacontane-d62	*80.4*		*50 - 150*	*08/04/14 11:40*	*08/04/14 13:45*	*1.00*

Lab Sample ID: 14H0004-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0004 — **Prep Batch: 14H0004_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	62.1		mg/kg wet		93.1	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*100*		*50 - 150*
n-Triacontane-d62	*80.7*		*50 - 150*

Lab Sample ID: 14H0004-DUP1 — **Client Sample ID: EX6-9-3**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0004 — **Prep Batch: 14H0004_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	33.8			26.7		mg/kg dry	☼			23.3	40
Heavy Oil Range Hydrocarbons	108			111		mg/kg dry	☼			3.02	40

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14H0004-DUP1
Matrix: Soil
Analysis Batch: 14H0004

Client Sample ID: EX6-9-3
Prep Type: Total
Prep Batch: 14H0004_P

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*98.0*		*50 - 150*
n-Triacontane-d62	*90.1*		*50 - 150*

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 250-29232/10-A
Matrix: Solid
Analysis Batch: 29247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.084		mg/Kg		08/04/14 16:23	08/04/14 22:12	1

Lab Sample ID: LCS 250-29232/11-A
Matrix: Solid
Analysis Batch: 29247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.542	0.547		mg/Kg		101	80 - 120

Lab Sample ID: 250-20571-1 MS
Matrix: Solid
Analysis Batch: 29247

Client Sample ID: SXH0001-01
Prep Type: Total/NA
Prep Batch: 29232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.55		0.691	1.16		mg/Kg	☼	88	75 - 125

Lab Sample ID: 250-20571-1 MSD
Matrix: Solid
Analysis Batch: 29247

Client Sample ID: SXH0001-01
Prep Type: Total/NA
Prep Batch: 29232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.55		0.696	1.21		mg/Kg	☼	94	75 - 125	4	40

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0001

Client Sample ID: EX8-6-4 — Lab Sample ID: SXH0001-01

Date Collected: 07/31/14 09:30 — **Matrix: Soil**
Date Received: 08/01/14 10:30 — **Percent Solids: 74.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		1	29247	08/04/14 22:27	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Client Sample ID: EX6-9-3 — Lab Sample ID: SXH0001-02

Date Collected: 07/31/14 12:30 — **Matrix: Soil**
Date Received: 08/01/14 10:30 — **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.04	14H0005_P	08/04/14 12:28	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14H0005	08/04/14 15:28	CBW	TAL SPK
Total	Prep	EPA 3550B		0.856	14H0004_P	08/04/14 11:40	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14H0004	08/04/14 14:31	MS	TAL SPK

Client Sample ID: EX6-10-3 — Lab Sample ID: SXH0001-03

Date Collected: 07/31/14 12:40 — **Matrix: Soil**
Date Received: 08/01/14 10:30 — **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.945	14H0005_P	08/04/14 12:28	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14H0005	08/04/14 15:50	CBW	TAL SPK
Total	Prep	EPA 3550B		0.982	14H0004_P	08/04/14 11:40	MS	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14H0004	08/04/14 15:42	MS	TAL SPK
Total	Prep	Wet Chem		1.00	14H0012_P	08/05/14 11:23	MS	TAL SPK
Total	Analysis	TA SOP		1.00	14H0012	08/05/14 16:23	MS	TAL SPK

Client Sample ID: EX7-6-2 — Lab Sample ID: SXH0001-04

Date Collected: 07/31/14 08:30 — **Matrix: Soil**
Date Received: 08/01/14 10:30 — **Percent Solids: 94.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		1	29247	08/04/14 22:37	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Client Sample ID: EX7-7-3 — Lab Sample ID: SXH0001-05

Date Collected: 07/31/14 14:10 — **Matrix: Soil**
Date Received: 08/01/14 10:30 — **Percent Solids: 19.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		50	29247	08/04/14 23:36	LQN	TAL PRT

Client Sample ID: EX7-7-3

Lab Sample ID: SXH0001-05

Date Collected: 07/31/14 14:10

Matrix: Soil

Date Received: 08/01/14 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Client Sample ID: EX7-8-2

Lab Sample ID: SXH0001-06

Date Collected: 07/31/14 14:15

Matrix: Soil

Date Received: 08/01/14 10:30

Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		1	29247	08/04/14 23:03	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Client Sample ID: EX7-9-3

Lab Sample ID: SXH0001-07

Date Collected: 07/31/14 14:20

Matrix: Soil

Date Received: 08/01/14 10:30

Percent Solids: 59.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		10	29247	08/04/14 23:38	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Client Sample ID: EX7-10-2

Lab Sample ID: SXH0001-08

Date Collected: 07/31/14 14:25

Matrix: Soil

Date Received: 08/01/14 10:30

Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		1	29247	08/04/14 23:10	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Client Sample ID: EX7-11-3

Lab Sample ID: SXH0001-09

Date Collected: 07/31/14 14:30

Matrix: Soil

Date Received: 08/01/14 10:30

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		1	29247	08/04/14 23:12	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0001

Client Sample ID: EX7-12-2

Lab Sample ID: SXH0001-10

Date Collected: 07/31/14 14:35
Matrix: Soil
Date Received: 08/01/14 10:30
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		1	29247	08/04/14 23:15	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Client Sample ID: EX7-13-3

Lab Sample ID: SXH0001-11

Date Collected: 07/31/14 14:40
Matrix: Soil
Date Received: 08/01/14 10:30
Percent Solids: 32.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			29232	08/04/14 16:23	LQN	TAL PRT
Total/NA	Analysis	7471A		1	29247	08/04/14 23:18	LQN	TAL PRT
Total/NA	Analysis	D2216-80		1	29244	08/04/14 19:33	LQN	TAL PRT

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0001

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica Portland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13 *
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-15
USDA	Federal		P330-11-00092	04-17-17
Washington	State Program	10	C586	06-23-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0001

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
7471A	Mercury (CVAA)	SW846	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Dave Lander	Site Contact: JM	Date:	COC No:
Your Company Name here: GeoEngineers	Tel/Fax:	Lab Contact: Ruslee Arriola	Carrier:	____ of ____ COCs
Address: 523 E Second Ave	Analysis Turnaround Time			Sampler: JM
City/State/Zip: Spokane/WA/99202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx: 509-363-3125 Phone	TAT if different from Below ____			Walk-in Client:
(xxx) xxx-xxxx: 509-363-3126 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Cashmere, WA	☐ 1 week			
Site: Mill Site	☒ 2 days			Job / SDG No.: SXH0001
PO# 18593-001-04	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	HD	DX	GX	Sample Specific Notes:
EX8-6-4	7/31/2014	0930	G	S	3			X			
EX6-9-3	"	1230	"	"	"				X	X	
EX6-10-3	"	1240	"	"	"				X	X	
EX7-6-2	"	0830	"	"	"			X			
EX7-7-3	"	1410	"	"	"			X			
EX7-8-2	"	1415	"	"	"			X			
EX7-9-3	"	1420	"	"	"			X			
EX7-10-2	"	1425	"	"	"			X			
EX7-11-3	"	1430	"	"	"			X			
EX7-12-2	"	1435	"	"	"			X			
EX7-13-3	"	1440	"	"	"			X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

5.6°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: Josh	Company: GEO	Date/Time: 7/31 1600	Received by:	Company: TA-Spk	Date/Time: 8-1-14 0810:30
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXH0001	**Client:** Bro Eng.	**Project:** Cashmere
Date/Time Received: 10:30 8-1-14	By: CW	
Samples Delivered By: ☒ Shipping Service ☐ Courier ☐ Client ☐ Other: UPS		
List Air Bill Number(s) or Attach a photocopy of the Air Bill: 1Z2706267610		

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry Ice ☐ None ☐ Other: _____

Temperature: 5.6 °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐ Not enough ice ☐ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other: _____

Log-in Phase Date/Time: 8/1/14 1055 By: KA	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification			X	
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis	X			
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated # _____			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXH0053
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Randee Arrington

Authorized for release by:
8/26/2014 4:31:04 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 6
Chronicle 8
Certification Summary 9
Method Summary 10
Chain of Custody 11

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0053

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXH0053-01	EX7-14-2	Soil	08/07/14 14:00	08/08/14 11:45
SXH0053-02	EX7-15-3	Soil	08/07/14 14:05	08/08/14 11:45
SXH0053-03	EX7-16-2	Soil	08/07/14 14:10	08/08/14 11:45
SXH0053-04	EX7-17-3	Soil	08/07/14 14:15	08/08/14 11:45

Definitions/Glossary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0053

Qualifiers

Metals

Qualifier	Qualifier Description
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
T5	Less than the prescribed sample amount was available to perform the leachate extraction. The volume of extraction fluid was adjusted proportionately based on the method prescribed ratio of extraction fluid to sample weight.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0053

Client Sample ID: EX7-14-2

Lab Sample ID: SXH0053-01
Date Collected: 08/07/14 14:00
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 91.1

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	567		46.3		ug/kg dry	☼	08/12/14 10:22	08/12/14 15:50	1.00

Client Sample ID: EX7-15-3

Lab Sample ID: SXH0053-02
Date Collected: 08/07/14 14:05
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 51.3

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1500		41.0		ug/kg dry	☼	08/12/14 10:22	08/12/14 15:53	1.00

Client Sample ID: EX7-16-2

Lab Sample ID: SXH0053-03
Date Collected: 08/07/14 14:10
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 57.2

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3380		472		ug/kg dry	☼	08/12/14 10:22	08/12/14 16:19	10.0

Client Sample ID: EX7-17-3

Lab Sample ID: SXH0053-04
Date Collected: 08/07/14 14:15
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 28.1

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	29300		446		ug/kg dry	☼	08/12/14 10:22	08/12/14 16:21	10.0

Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	T5	0.000500		mg/L		08/26/14 08:57	08/26/14 14:10	1.00

Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods

Lab Sample ID: 14H0145-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0145 — **Prep Batch: 14H0145_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500		mg/L		08/26/14 08:57	08/26/14 14:08	1.00

Lab Sample ID: 14H0145-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0145 — **Prep Batch: 14H0145_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00201		mg/L		100	80 - 120		

Lab Sample ID: 14H0145-MS1 — **Client Sample ID: EX7-17-3**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0145 — **Prep Batch: 14H0145_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND	T5	0.00200	0.00188		mg/L		94.0	80 - 120		

Lab Sample ID: 14H0145-MSD1 — **Client Sample ID: EX7-17-3**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0145 — **Prep Batch: 14H0145_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND	T5	0.00200	0.00196		mg/L		98.0	80 - 120	4.17	20

Lab Sample ID: 14H0145-DUP1 — **Client Sample ID: EX7-17-3**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0145 — **Prep Batch: 14H0145_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND	T5		ND		mg/L					20

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Lab Sample ID: 14H0044-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0044 — **Prep Batch: 14H0044_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		08/12/14 10:22	08/12/14 15:18	1.00

Lab Sample ID: 14H0044-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0044 — **Prep Batch: 14H0044_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			200	200		ug/kg wet		100	80 - 120		

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods (Continued)

Lab Sample ID: 14H0044-MS1 — **Client Sample ID: Matrix Spike**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0044 — **Prep Batch: 14H0044_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	43.1		200	212		ug/kg wet		84.4	80 - 120

Lab Sample ID: 14H0044-MSD1 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0044 — **Prep Batch: 14H0044_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	43.1		135	140	M2	ug/kg wet		71.6	80 - 120	41.0	20

Lab Sample ID: 14H0044-DUP1 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14H0044 — **Prep Batch: 14H0044_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	43.1		43.9		ug/kg wet		1.70	40

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0053

Client Sample ID: EX7-14-2

Lab Sample ID: SXH0053-01

Date Collected: 08/07/14 14:00
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.926	14H0044_P	08/12/14 10:22	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0044	08/12/14 15:50	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14H0048_P	08/12/14 16:19	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14H0048	08/12/14 16:41	JSP	TAL SPK

Client Sample ID: EX7-15-3

Lab Sample ID: SXH0053-02

Date Collected: 08/07/14 14:05
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 51.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.820	14H0044_P	08/12/14 10:22	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0044	08/12/14 15:53	ZZZ	TAL SPK

Client Sample ID: EX7-16-2

Lab Sample ID: SXH0053-03

Date Collected: 08/07/14 14:10
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 57.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.943	14H0044_P	08/12/14 10:22	JSP	TAL SPK
Total	Analysis	EPA 7471B		10.0	14H0044	08/12/14 16:19	ZZZ	TAL SPK

Client Sample ID: EX7-17-3

Lab Sample ID: SXH0053-04

Date Collected: 08/07/14 14:15
Matrix: Soil
Date Received: 08/08/14 11:45
Percent Solids: 28.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	TCLP Extraction		1.00	14H0138	08/25/14 08:50	JSP	TAL SPK
TCLP	Prep	EPA 7471		1.00	14H0145_P	08/26/14 08:57	JSP	TAL SPK
TCLP	Analysis	EPA 7471		1.00	14H0145	08/26/14 14:10	ZZZ	TAL SPK
Total	Prep	EPA 7471		0.893	14H0044_P	08/12/14 10:22	JSP	TAL SPK
Total	Analysis	EPA 7471B		10.0	14H0044	08/12/14 16:21	ZZZ	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0053

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0053

Method	Method Description	Protocol	Laboratory
EPA 7471	TCLP Metals by EPA 1311/6010/7000 Series Methods		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 [X]
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 8XH0058

CLIENT: GeoEngineers

REPORT TO: DLAUBER@GEOENGINEERS.COM

ADDRESS: 523 E Second Ave
Spokane, WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: HS	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	EX7-14-2	1400 8/7/2014		X	S	3		
2	EX7-15-3	1405		X	S	3		
3	EX7-16-2	1410		X	S	3		
4	EX7-17-3	1415		X	S	3		
5								
6								
7								
8								
9								
10								

RELEASED BY: Josh Lee — DATE: 8/8/2014 — RECEIVED BY: Cal Stapleton — DATE: 8.8.14

PRINT NAME: Josh Lee — FIRM: GeO — TIME: 1145 — PRINT NAME: — FIRM: TestAmerica — TIME: 11:45

RELEASED BY: — DATE: — RECEIVED BY: — DATE:

PRINT NAME: — FIRM: — TIME: — PRINT NAME: — FIRM: — TIME:

ADDITIONAL REMARKS:

TEMP: 1.4.8 — PAGE OF

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXH0053	Client: GeoEngineers	Project: Cashmere
Date/Time Received: 8-8-14 11:45	By: CS	

Samples Delivered By: ☐Shipping Service ☐Courier ☐Client ☐Other:

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	Y	~~N~~ 8		
Custody Seals are present and intact:			Y	
Are CoC documents present:	Y			
Necessary signatures:	Y			

Thermal Preservation Type: ☐Blue Ice ☐Gel Ice ☒Real Ice ☐Dry Ice ☐None ☐Other:

Temperature: 14.8 °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐Not enough ice ☐Ice melted ☐w/in 4hrs of collection ☐NA ☐Other:

Log-In Phase Date/Time: 8-8-14 13:45 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)	Y			
Are dissolved parameters field filtered			Y	
Do any samples need to be filtered or preserved by the lab			Y	
Does this project require quick turnaround analysis	Y			2days
Are there any short hold time tests (see chart below)		Y		
Are any samples within 2 days of or past expiration		Y		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		e		
If yes, was a CAR generated #			Y	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXH0188
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
9/3/2014 5:16:17 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 7
Chronicle 10
Certification Summary 12
Method Summary 13
Chain of Custody 14

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXH0188-01	EX7-SP-1	Soil	08/27/14 08:15	08/28/14 10:15
SXH0188-02	EX7-SP-2	Soil	08/27/14 08:25	08/28/14 10:15
SXH0188-03	EX7-SP-3	Soil	08/27/14 08:35	08/28/14 10:15
SXH0188-04	EX7-18-3.5	Soil	08/27/14 09:00	08/28/14 10:15
SXH0188-05	EX7-19-3	Soil	08/27/14 09:10	08/28/14 10:15
SXH0188-06	EX7-20-2	Soil	08/27/14 09:20	08/28/14 10:15

Definitions/Glossary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Qualifiers

Metals

Qualifier	Qualifier Description
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Client Sample ID: EX7-SP-1

Lab Sample ID: SXH0188-01
Date Collected: 08/27/14 08:15
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 74.2

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1930		223		ug/kg dry	☼	09/03/14 09:04	09/03/14 16:50	5.00

Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500		mg/L		08/29/14 08:33	08/29/14 14:20	1.00

Client Sample ID: EX7-SP-2

Lab Sample ID: SXH0188-02
Date Collected: 08/27/14 08:25
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 71.3

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1170		45.5		ug/kg dry	☼	09/03/14 09:04	09/03/14 16:19	1.00

Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500		mg/L		08/29/14 08:33	08/29/14 14:29	1.00

Client Sample ID: EX7-SP-3

Lab Sample ID: SXH0188-03
Date Collected: 08/27/14 08:35
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 81.3

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	779		41.7		ug/kg dry	☼	09/03/14 09:04	09/03/14 16:21	1.00

Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500		mg/L		08/29/14 08:33	08/29/14 14:32	1.00

Client Sample ID: EX7-18-3.5

Lab Sample ID: SXH0188-04
Date Collected: 08/27/14 09:00
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 63.8

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	804		45.5		ug/kg dry	☼	09/02/14 10:01	09/02/14 15:23	1.00

Client Sample ID: EX7-19-3

Lab Sample ID: SXH0188-05
Date Collected: 08/27/14 09:10
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 91

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1520		106		ug/kg dry	☼	09/02/14 10:01	09/02/14 15:42	2.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Client Sample ID: EX7-20-2
Date Collected: 08/27/14 09:20
Date Received: 08/28/14 10:15

Lab Sample ID: SXH0188-06
Matrix: Soil
Percent Solids: 91.8

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	351		52.1		ug/kg dry	☼	09/02/14 10:01	09/02/14 15:34	1.00

Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods

Lab Sample ID: 14H0180-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0180 — **Prep Batch: 14H0180_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500		mg/L		08/29/14 08:33	09/02/14 14:30	1.00

Lab Sample ID: 14H0180-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0180 — **Prep Batch: 14H0180_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00199		mg/L		99.5	80 - 120		

Lab Sample ID: 14H0180-MS1 — **Client Sample ID: EX7-SP-1**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0180 — **Prep Batch: 14H0180_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.000173		0.00200	0.00219		mg/L		101	80 - 120		

Lab Sample ID: 14H0180-MSD1 — **Client Sample ID: EX7-SP-1**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0180 — **Prep Batch: 14H0180_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.000173		0.00200	0.00215		mg/L		98.8	80 - 120	1.84	20

Lab Sample ID: 14H0180-DUP1 — **Client Sample ID: EX7-SP-1**
Matrix: Soil — **Prep Type: TCLP**
Analysis Batch: 14H0180 — **Prep Batch: 14H0180_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.000173		0.000199		mg/L		14.0	20

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Lab Sample ID: 14I0002-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0002 — **Prep Batch: 14I0002_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		09/02/14 10:01	09/02/14 15:20	1.00

Lab Sample ID: 14I0002-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0002 — **Prep Batch: 14I0002_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			200	204		ug/kg wet		102	80 - 120		

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods (Continued)

Lab Sample ID: 14I0002-MS1 — **Client Sample ID: EX7-18-3.5**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0002 — **Prep Batch: 14I0002_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	804		307	974	M2	ug/kg dry	☼	55.5	80 - 120

Lab Sample ID: 14I0002-MSD1 — **Client Sample ID: EX7-18-3.5**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0002 — **Prep Batch: 14I0002_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	804		307	1230	M1	ug/kg dry	☼	140	80 - 120	23.5	20

Lab Sample ID: 14I0002-DUP1 — **Client Sample ID: EX7-18-3.5**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0002 — **Prep Batch: 14I0002_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	804		511	R3	ug/kg dry	☼	44.5	40

Lab Sample ID: 14I0015-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0015 — **Prep Batch: 14I0015_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		09/03/14 09:04	09/03/14 15:55	1.00

Lab Sample ID: 14I0015-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0015 — **Prep Batch: 14I0015_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	200	198		ug/kg wet		99.0	80 - 120

Lab Sample ID: 14I0015-MS1 — **Client Sample ID: EX7-SP-1**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0015 — **Prep Batch: 14I0015_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1930		259	2720	M1	ug/kg dry	☼	307	80 - 120

Lab Sample ID: 14I0015-MSD1 — **Client Sample ID: EX7-SP-1**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0015 — **Prep Batch: 14I0015_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	1930		217	2540	M1	ug/kg dry	☼	282	80 - 120	6.98	20

Lab Sample ID: 14I0015-DUP1 — **Client Sample ID: EX7-SP-1**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0015 — **Prep Batch: 14I0015_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	1930		1580		ug/kg dry	☼	19.9	40

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Client Sample ID: EX7-SP-1

Lab Sample ID: SXH0188-01

Date Collected: 08/27/14 08:15
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	TCLP Extraction		1.00	14H0173	08/28/14 15:36	JSP	TAL SPK
TCLP	Prep	EPA 7471		1.00	14H0180_P	08/29/14 08:33	JSP	TAL SPK
TCLP	Analysis	EPA 7471		1.00	14H0180	08/29/14 14:20	ZZZ	TAL SPK
Total	Prep	EPA 7471		0.893	14I0015_P	09/03/14 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		5.00	14I0015	09/03/14 16:50	ZZZ	TAL SPK
Total	Analysis	TA SOP		1.00	14I0020	09/03/14 16:42	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	14I0020_P	09/03/14 16:42	JSP	TAL SPK

Client Sample ID: EX7-SP-2

Lab Sample ID: SXH0188-02

Date Collected: 08/27/14 08:25
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	TCLP Extraction		1.00	14H0173	08/28/14 15:36	JSP	TAL SPK
TCLP	Prep	EPA 7471		1.00	14H0180_P	08/29/14 08:33	JSP	TAL SPK
TCLP	Analysis	EPA 7471		1.00	14H0180	08/29/14 14:29	ZZZ	TAL SPK
Total	Prep	EPA 7471		0.909	14I0015_P	09/03/14 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14I0015	09/03/14 16:19	ZZZ	TAL SPK

Client Sample ID: EX7-SP-3

Lab Sample ID: SXH0188-03

Date Collected: 08/27/14 08:35
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	TCLP Extraction		1.00	14H0173	08/28/14 15:36	JSP	TAL SPK
TCLP	Prep	EPA 7471		1.00	14H0180_P	08/29/14 08:33	JSP	TAL SPK
TCLP	Analysis	EPA 7471		1.00	14H0180	08/29/14 14:32	ZZZ	TAL SPK
Total	Prep	EPA 7471		0.833	14I0015_P	09/03/14 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14I0015	09/03/14 16:21	ZZZ	TAL SPK

Client Sample ID: EX7-18-3.5

Lab Sample ID: SXH0188-04

Date Collected: 08/27/14 09:00
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 63.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.909	14I0002_P	09/02/14 10:01	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14I0002	09/02/14 15:23	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14I0010_P	09/02/14 16:08	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14I0010	09/02/14 16:09	JSP	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Client Sample ID: EX7-19-3

Lab Sample ID: SXH0188-05

Date Collected: 08/27/14 09:10
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 91

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.06	14I0002_P	09/02/14 10:01	JSP	TAL SPK
Total	Analysis	EPA 7471B		2.00	14I0002	09/02/14 15:42	ZZZ	TAL SPK

Client Sample ID: EX7-20-2

Lab Sample ID: SXH0188-06

Date Collected: 08/27/14 09:20
Matrix: Soil
Date Received: 08/28/14 10:15
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.04	14I0002_P	09/02/14 10:01	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14I0002	09/02/14 15:34	ZZZ	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0188

Method	Method Description	Protocol	Laboratory
EPA 7471	TCLP Metals by EPA 1311/6010/7000 Series Methods		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 X
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: SXH0188

CLIENT: GeoEngineers

REPORT TO: Dave Lauder DLAUDER@GEOENGINEERS.COM

ADDRESS: 523 E Second Ave Spokane, WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: Cashmere

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE: TCLP Hg	PRESERVATIVE: Hg	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	Ex7-SP-1	8/27/14 0815	X		S	2		
2	Ex7-SP-2	8/27/14 0825	X			2		
3	Ex7-SP-3	8/27/14 0835	X			2		
4	Ex7-18-3.5	8/27/14 0900		X		3		
5	Ex7-19-3	8/27/14 0910		X		3		
6	Ex7-20-2	8/27/14 0920		X		3		
7								
8								
9								
10								

REQUESTED ANALYSES

RELEASED BY: PRINT NAME: Justin Rice FIRM: Geo DATE: 8/27/14 TIME: 1530

RECEIVED BY: PRINT NAME: Pat Stapleton FIRM: TA DATE: 8/28/14 TIME: 10:15

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP: 5.1

PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SNH0188	Client: GeoEngineers	Project: Cashmere
Date/Time Received: 8-28-14 10:15	By:	
Samples Delivered By: ☒ Shipping Service ☐ Courier ☐ Client ☐ Other:		
List Air Bill Number(s) or Attach a photocopy of the Air Bill:		

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	Y			
Custody Seals are present and intact:			Y	
Are CoC documents present:	Y			
Necessary signatures:	Y			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry Ice ☐ None ☐ Other:

Temperature: 5.1 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐ Not enough ice ☐ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other:

Log-in Phase Date/Time: 8/28/14 10:45 By: CD	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		N		
Does this project require quick turnaround analysis	Y	~~N~~ Y		1day
Are there any short hold time tests (see chart below)		N		
~~Are any samples within 2 days of or past expiration~~		N		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		Y		
If yes, was a CAR generated #			Y	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXH0199
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
9/8/2014 4:33:00 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Definitions 5
Client Sample Results 6
QC Sample Results 18
Chronicle 33
Certification Summary 35
Method Summary 36
Chain of Custody 37

Case Narrative

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Job ID: SXH0199

Laboratory: TestAmerica Portland

Narrative

Receipt
The sample was received on 9/2/2014 9:25 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 21.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Laboratory: TestAmerica Seattle

Narrative

Receipt
The sample was received on 9/3/2014 10:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6º C.

GC/MS Semi VOA Method(s) 8270C:
In analytical batch 168957, the following analyte(s) recovered outside control limits for the LCS/LCSD associated with prep batch 168810: 4-Nitroaniline, 2-Nitrophenol and Benzo(a)anthracene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 168957 recovered outside control limits for the following analytes: 2,4-Dinitrophenol and Pentachlorophenol. Individual LCS/LCSD recoveries for these analytes were in control; re-extraction/re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Laboratory: TestAmerica Spokane

Narrative

Receipt
The sample(s) were received on 8/29/2014 9:52:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.1 ºC.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXH0199-01	EX11-1-6	Soil	08/28/14 09:23	08/29/14 09:52
SXH0199-02	EX11-2-10	Soil	08/28/14 14:40	08/29/14 09:52
SXH0199-03	EX11-3-4	Soil	08/28/14 14:10	08/29/14 09:52
SXH0199-04	EX11-4-3	Soil	08/28/14 14:15	08/29/14 09:52
SXH0199-05	EX11-5-3.25	Soil	08/28/14 14:30	08/29/14 09:52
SXH0199-06	Infiltration Pond 8/28/14	Water	08/28/14 15:30	08/29/14 09:52

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Fuels

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
Q9	Hydrocarbon pattern most closely resembles biogenic intereference..
Q6	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Client Sample ID: EX11-1-6
Date Collected: 08/28/14 09:23
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-01
Matrix: Soil
Percent Solids: 87.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.118	0.0110	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Chloromethane	ND		0.591	0.00626	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Vinyl chloride	ND		0.0709	0.00733	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Bromomethane	ND		0.591	0.0362	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Chloroethane	ND		0.118	0.0290	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Trichlorofluoromethane	ND		0.0355	0.00934	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,1-Dichloroethene	ND		0.118	0.0150	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Carbon disulfide	ND		0.118	0.0126	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Methylene chloride	ND	C	0.236	0.00615	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Acetone	**1.06**	**J**	3.55	0.103	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
trans-1,2-Dichloroethene	ND		0.118	0.0122	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Methyl tert-butyl ether	ND		0.0591	0.00378	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,1-Dichloroethane	ND		0.118	0.0134	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
cis-1,2-Dichloroethene	ND		0.118	0.00674	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
2,2-Dichloropropane	ND		0.118	0.0201	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Bromochloromethane	ND		0.118	0.00461	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Chloroform	ND		0.118	0.00910	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Carbon tetrachloride	ND		0.118	0.0246	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,1,1-Trichloroethane	ND		0.118	0.0204	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
2-Butanone	ND		1.18	0.130	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Hexane	ND		0.118	0.00957	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,1-Dichloropropene	ND		0.118	0.0206	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Benzene	ND		0.0177	0.0115	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2-Dichloroethane (EDC)	ND		0.118	0.00579	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Trichloroethene	ND		0.0295	0.0151	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Dibromomethane	ND		0.118	0.0108	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2-Dichloropropane	ND		0.118	0.00709	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Bromodichloromethane	ND		0.118	0.00827	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
cis-1,3-Dichloropropene	ND		0.118	0.00733	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Toluene	ND		0.118	0.0157	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
4-Methyl-2-pentanone	ND		1.18	0.0241	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
trans-1,3-Dichloropropene	ND		0.118	0.00780	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Tetrachloroethene	ND		0.0473	0.0208	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,1,2-Trichloroethane	ND		0.118	0.00733	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Dibromochloromethane	ND		0.118	0.00709	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,3-Dichloropropane	ND		0.118	0.00875	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2-Dibromoethane	ND		0.0118	0.00685	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
2-Hexanone	ND		1.18	0.0550	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Ethylbenzene	ND		0.118	0.0191	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Chlorobenzene	ND		0.118	0.00898	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,1,1,2-Tetrachloroethane	ND		0.118	0.0121	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
m,p-Xylene	ND		0.473	0.0201	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
o-Xylene	ND		0.236	0.0155	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Styrene	ND		0.118	0.0110	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Bromoform	ND		0.118	0.0148	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Isopropylbenzene	**0.0349**	**J**	0.118	0.0225	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
n-Propylbenzene	ND		0.118	0.0245	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,1,2,2-Tetrachloroethane	ND		0.118	0.00886	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Bromobenzene	ND		0.118	0.0111	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00

Client Sample ID: EX11-1-6

Lab Sample ID: SXH0199-01

Date Collected: 08/28/14 09:23
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 87.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.118	0.0220	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
2-Chlorotoluene	ND		0.118	0.0193	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2,3-Trichloropropane	ND		0.118	0.00993	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
4-Chlorotoluene	ND		0.118	0.0169	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
tert-Butylbenzene	ND		0.118	0.0255	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2,4-Trimethylbenzene	ND		0.118	0.0171	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
sec-Butylbenzene	ND		0.118	0.0278	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
p-Isopropyltoluene	ND		0.118	0.0282	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,3-Dichlorobenzene	ND		0.118	0.0149	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,4-Dichlorobenzene	ND		0.118	0.0125	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
n-Butylbenzene	ND		0.118	0.0325	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2-Dichlorobenzene	ND		0.118	0.00898	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2-Dibromo-3-chloropropane	ND		0.591	0.0336	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Hexachlorobutadiene	ND		0.118	0.0674	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2,4-Trichlorobenzene	ND		0.118	0.0235	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
Naphthalene	ND		0.236	0.0161	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00
1,2,3-Trichlorobenzene	ND		0.118	0.0420	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.3*		*80 - 120*	*09/02/14 10:27*	*09/02/14 12:24*	*1.00*
1,2-dichloroethane-d4	*94.2*		*74.7 - 120*	*09/02/14 10:27*	*09/02/14 12:24*	*1.00*
Toluene-d8	*104*		*78.5 - 125*	*09/02/14 10:27*	*09/02/14 12:24*	*1.00*
4-bromofluorobenzene	*102*		*69.8 - 140*	*09/02/14 10:27*	*09/02/14 12:24*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**13.7**		5.91		mg/kg dry	☼	09/02/14 10:27	09/02/14 12:24	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*41.5 - 162*	*09/02/14 10:27*	*09/02/14 12:24*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**10.9**		10.6		mg/kg dry	☼	09/02/14 08:07	09/02/14 13:55	1.00
Heavy Oil Range Hydrocarbons	**34.8**		26.5		mg/kg dry	☼	09/02/14 08:07	09/02/14 13:55	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92.8*		*50 - 150*	*09/02/14 08:07*	*09/02/14 13:55*	*1.00*
n-Triacontane-d62	*89.7*		*50 - 150*	*09/02/14 08:07*	*09/02/14 13:55*	*1.00*

Client Sample ID: EX11-2-10

Lab Sample ID: SXH0199-02

Date Collected: 08/28/14 14:40
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 74.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.157	0.0146	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Chloromethane	ND		0.787	0.00834	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Vinyl chloride	ND		0.0944	0.00976	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Bromomethane	ND		0.787	0.0482	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Chloroethane	ND		0.157	0.0386	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Client Sample ID: EX11-2-10
Date Collected: 08/28/14 14:40
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-02
Matrix: Soil
Percent Solids: 74.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.0472	0.0124	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,1-Dichloroethene	ND		0.157	0.0200	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Carbon disulfide	ND		0.157	0.0168	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Methylene chloride	ND	C	0.315	0.00818	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Acetone	**0.888**	**J**	4.72	0.137	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
trans-1,2-Dichloroethene	ND		0.157	0.0162	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Methyl tert-butyl ether	ND		0.0787	0.00504	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,1-Dichloroethane	ND		0.157	0.0178	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
cis-1,2-Dichloroethene	ND		0.157	0.00897	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
2,2-Dichloropropane	ND		0.157	0.0268	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Bromochloromethane	ND		0.157	0.00614	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Chloroform	ND		0.157	0.0121	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Carbon tetrachloride	ND		0.157	0.0327	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,1,1-Trichloroethane	ND		0.157	0.0272	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
2-Butanone	ND		1.57	0.173	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Hexane	ND		0.157	0.0127	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,1-Dichloropropene	ND		0.157	0.0274	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Benzene	ND		0.0236	0.0153	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2-Dichloroethane (EDC)	ND		0.157	0.00771	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Trichloroethene	ND		0.0393	0.0201	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Dibromomethane	ND		0.157	0.0143	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2-Dichloropropane	ND		0.157	0.00944	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Bromodichloromethane	ND		0.157	0.0110	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
cis-1,3-Dichloropropene	ND		0.157	0.00976	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Toluene	ND		0.157	0.0209	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
4-Methyl-2-pentanone	ND		1.57	0.0321	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
trans-1,3-Dichloropropene	ND		0.157	0.0104	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Tetrachloroethene	ND		0.0630	0.0277	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,1,2-Trichloroethane	ND		0.157	0.00976	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Dibromochloromethane	ND		0.157	0.00944	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,3-Dichloropropane	ND		0.157	0.0116	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2-Dibromoethane	ND		0.0157	0.00913	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
2-Hexanone	ND		1.57	0.0732	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Ethylbenzene	ND		0.157	0.0255	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Chlorobenzene	ND		0.157	0.0120	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,1,1,2-Tetrachloroethane	ND		0.157	0.0161	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
m,p-Xylene	**0.124**	**J**	0.630	0.0268	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
o-Xylene	ND		0.315	0.0206	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Styrene	ND		0.157	0.0146	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Bromoform	ND		0.157	0.0197	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Isopropylbenzene	**0.0630**	**J**	0.157	0.0299	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
n-Propylbenzene	**0.0992**	**J**	0.157	0.0326	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,1,2,2-Tetrachloroethane	ND		0.157	0.0118	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Bromobenzene	ND		0.157	0.0148	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,3,5-Trimethylbenzene	**0.259**		0.157	0.0293	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
2-Chlorotoluene	ND		0.157	0.0257	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2,3-Trichloropropane	ND		0.157	0.0132	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
4-Chlorotoluene	ND		0.157	0.0225	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
tert-Butylbenzene	ND		0.157	0.0340	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00

Client Sample ID: EX11-2-10

Lab Sample ID: SXH0199-02

Date Collected: 08/28/14 14:40
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 74.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**0.830**		0.157	0.0228	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
sec-Butylbenzene	**0.0944**	**J**	0.157	0.0370	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
p-Isopropyltoluene	**0.172**		0.157	0.0376	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,3-Dichlorobenzene	ND		0.157	0.0198	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,4-Dichlorobenzene	ND		0.157	0.0167	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
n-Butylbenzene	**0.153**	**J**	0.157	0.0433	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2-Dichlorobenzene	ND		0.157	0.0120	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2-Dibromo-3-chloropropane	ND		0.787	0.0447	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Hexachlorobutadiene	ND		0.157	0.0897	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2,4-Trichlorobenzene	ND		0.157	0.0313	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
Naphthalene	**0.331**		0.315	0.0214	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00
1,2,3-Trichlorobenzene	ND		0.157	0.0559	mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*80 - 120*	*09/02/14 10:27*	*09/02/14 12:47*	*1.00*
1,2-dichloroethane-d4	*97.6*		*74.7 - 120*	*09/02/14 10:27*	*09/02/14 12:47*	*1.00*
Toluene-d8	*101*		*78.5 - 125*	*09/02/14 10:27*	*09/02/14 12:47*	*1.00*
4-bromofluorobenzene	*127*		*69.8 - 140*	*09/02/14 10:27*	*09/02/14 12:47*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**40.7**		7.87		mg/kg dry	☼	09/02/14 10:27	09/02/14 12:47	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*127*		*41.5 - 162*	*09/02/14 10:27*	*09/02/14 12:47*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**458**		128		mg/kg dry	☼	09/02/14 08:07	09/02/14 19:03	10.0
Heavy Oil Range Hydrocarbons	**1860**		320		mg/kg dry	☼	09/02/14 08:07	09/02/14 19:03	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98.4*		*50 - 150*	*09/02/14 08:07*	*09/02/14 19:03*	*10.0*
n-Triacontane-d62	*84.2*		*50 - 150*	*09/02/14 08:07*	*09/02/14 19:03*	*10.0*

Client Sample ID: EX11-3-4

Lab Sample ID: SXH0199-03

Date Collected: 08/28/14 14:10
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 71.1

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.207	0.0193	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Chloromethane	ND		1.04	0.0110	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Vinyl chloride	ND		0.124	0.0129	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Bromomethane	ND		1.04	0.0634	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Chloroethane	ND		0.207	0.0508	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Trichlorofluoromethane	ND		0.0622	0.0164	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,1-Dichloroethene	ND		0.207	0.0263	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Carbon disulfide	ND		0.207	0.0222	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Methylene chloride	ND	C	0.415	0.0108	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Acetone	**0.961**	**J**	6.22	0.180	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Client Sample ID: EX11-3-4
Date Collected: 08/28/14 14:10
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-03
Matrix: Soil
Percent Solids: 71.1

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.207	0.0214	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Methyl tert-butyl ether	ND		0.104	0.00663	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,1-Dichloroethane	ND		0.207	0.0234	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
cis-1,2-Dichloroethene	ND		0.207	0.0118	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
2,2-Dichloropropane	ND		0.207	0.0352	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Bromochloromethane	ND		0.207	0.00808	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Chloroform	ND		0.207	0.0160	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Carbon tetrachloride	ND		0.207	0.0431	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,1,1-Trichloroethane	ND		0.207	0.0359	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
2-Butanone	ND		2.07	0.228	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Hexane	ND		0.207	0.0168	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,1-Dichloropropene	ND		0.207	0.0361	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Benzene	ND		0.0311	0.0201	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2-Dichloroethane (EDC)	ND		0.207	0.0102	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Trichloroethene	ND		0.0518	0.0265	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Dibromomethane	ND		0.207	0.0189	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2-Dichloropropane	ND		0.207	0.0124	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Bromodichloromethane	ND		0.207	0.0145	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
cis-1,3-Dichloropropene	ND		0.207	0.0129	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Toluene	ND		0.207	0.0276	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
4-Methyl-2-pentanone	ND		2.07	0.0423	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
trans-1,3-Dichloropropene	ND		0.207	0.0137	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Tetrachloroethene	ND		0.0829	0.0365	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,1,2-Trichloroethane	ND		0.207	0.0129	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Dibromochloromethane	ND		0.207	0.0124	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,3-Dichloropropane	ND		0.207	0.0153	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2-Dibromoethane	ND		0.0207	0.0120	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
2-Hexanone	ND		2.07	0.0964	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Ethylbenzene	ND		0.207	0.0336	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Chlorobenzene	ND		0.207	0.0158	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,1,1,2-Tetrachloroethane	ND		0.207	0.0211	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
m,p-Xylene	**0.0591**	**J**	0.829	0.0352	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
o-Xylene	ND		0.415	0.0272	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Styrene	ND		0.207	0.0193	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Bromoform	ND		0.207	0.0259	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Isopropylbenzene	ND		0.207	0.0394	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
n-Propylbenzene	ND		0.207	0.0429	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,1,2,2-Tetrachloroethane	ND		0.207	0.0155	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Bromobenzene	ND		0.207	0.0195	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,3,5-Trimethylbenzene	ND		0.207	0.0386	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
2-Chlorotoluene	ND		0.207	0.0338	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2,3-Trichloropropane	ND		0.207	0.0174	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
4-Chlorotoluene	ND		0.207	0.0296	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
tert-Butylbenzene	ND		0.207	0.0448	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2,4-Trimethylbenzene	**0.0321**	**J**	0.207	0.0301	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
sec-Butylbenzene	ND		0.207	0.0487	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
p-Isopropyltoluene	ND		0.207	0.0495	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,3-Dichlorobenzene	ND		0.207	0.0261	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,4-Dichlorobenzene	ND		0.207	0.0220	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00

Client Sample ID: EX11-3-4

Lab Sample ID: SXH0199-03

Date Collected: 08/28/14 14:10
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 71.1

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.207	0.0570	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2-Dichlorobenzene	ND		0.207	0.0158	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2-Dibromo-3-chloropropane	ND		1.04	0.0589	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Hexachlorobutadiene	ND		0.207	0.118	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2,4-Trichlorobenzene	ND		0.207	0.0413	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
Naphthalene	ND		0.415	0.0282	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00
1,2,3-Trichlorobenzene	ND		0.207	0.0736	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*80 - 120*	*09/02/14 10:27*	*09/02/14 13:10*	*1.00*
1,2-dichloroethane-d4	*92.9*		*74.7 - 120*	*09/02/14 10:27*	*09/02/14 13:10*	*1.00*
Toluene-d8	*100*		*78.5 - 125*	*09/02/14 10:27*	*09/02/14 13:10*	*1.00*
4-bromofluorobenzene	*105*		*69.8 - 140*	*09/02/14 10:27*	*09/02/14 13:10*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		10.4		mg/kg dry	☼	09/02/14 10:27	09/02/14 13:10	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*105*		*41.5 - 162*	*09/02/14 10:27*	*09/02/14 13:10*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**22.0**	**Q9**	13.9		mg/kg dry	☼	09/02/14 08:07	09/02/14 14:43	1.00
Heavy Oil Range Hydrocarbons	**84.0**	**Q9**	34.7		mg/kg dry	☼	09/02/14 08:07	09/02/14 14:43	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*121*		*50 - 150*	*09/02/14 08:07*	*09/02/14 14:43*	*1.00*
n-Triacontane-d62	*126*		*50 - 150*	*09/02/14 08:07*	*09/02/14 14:43*	*1.00*

Client Sample ID: EX11-4-3

Lab Sample ID: SXH0199-04

Date Collected: 08/28/14 14:15
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 73.4

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.155	0.0144	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Chloromethane	ND		0.777	0.00823	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Vinyl chloride	ND		0.0932	0.00963	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Bromomethane	ND		0.777	0.0475	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Chloroethane	ND		0.155	0.0381	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Trichlorofluoromethane	ND		0.0466	0.0123	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,1-Dichloroethene	ND		0.155	0.0197	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Carbon disulfide	ND		0.155	0.0166	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Methylene chloride	ND	C	0.311	0.00808	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Acetone	**0.414**	**J**	4.66	0.135	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
trans-1,2-Dichloroethene	ND		0.155	0.0160	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Methyl tert-butyl ether	ND		0.0777	0.00497	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,1-Dichloroethane	ND		0.155	0.0176	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
cis-1,2-Dichloroethene	ND		0.155	0.00885	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
2,2-Dichloropropane	ND		0.155	0.0264	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Client Sample ID: EX11-4-3
Date Collected: 08/28/14 14:15
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-04
Matrix: Soil
Percent Solids: 73.4

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.155	0.00606	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Chloroform	ND		0.155	0.0120	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Carbon tetrachloride	ND		0.155	0.0323	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,1,1-Trichloroethane	ND		0.155	0.0269	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
2-Butanone	ND		1.55	0.171	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Hexane	ND		0.155	0.0126	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,1-Dichloropropene	ND		0.155	0.0270	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Benzene	ND		0.0233	0.0151	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2-Dichloroethane (EDC)	ND		0.155	0.00761	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Trichloroethene	ND		0.0388	0.0199	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Dibromomethane	ND		0.155	0.0141	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2-Dichloropropane	ND		0.155	0.00932	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Bromodichloromethane	ND		0.155	0.0109	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
cis-1,3-Dichloropropene	ND		0.155	0.00963	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Toluene	ND		0.155	0.0207	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
4-Methyl-2-pentanone	ND		1.55	0.0317	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
trans-1,3-Dichloropropene	ND		0.155	0.0103	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Tetrachloroethene	ND		0.0621	0.0273	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,1,2-Trichloroethane	ND		0.155	0.00963	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Dibromochloromethane	ND		0.155	0.00932	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,3-Dichloropropane	ND		0.155	0.0115	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2-Dibromoethane	ND		0.0155	0.00901	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
2-Hexanone	ND		1.55	0.0722	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Ethylbenzene	ND		0.155	0.0252	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Chlorobenzene	ND		0.155	0.0118	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,1,1,2-Tetrachloroethane	ND		0.155	0.0158	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
m,p-Xylene	ND		0.621	0.0264	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
o-Xylene	ND		0.311	0.0203	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Styrene	ND		0.155	0.0144	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Bromoform	ND		0.155	0.0194	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Isopropylbenzene	ND		0.155	0.0295	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
n-Propylbenzene	ND		0.155	0.0322	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,1,2,2-Tetrachloroethane	ND		0.155	0.0116	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Bromobenzene	ND		0.155	0.0146	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,3,5-Trimethylbenzene	ND		0.155	0.0289	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
2-Chlorotoluene	ND		0.155	0.0253	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2,3-Trichloropropane	ND		0.155	0.0130	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
4-Chlorotoluene	ND		0.155	0.0222	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
tert-Butylbenzene	ND		0.155	0.0336	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2,4-Trimethylbenzene	ND		0.155	0.0225	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
sec-Butylbenzene	ND		0.155	0.0365	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
p-Isopropyltoluene	ND		0.155	0.0371	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,3-Dichlorobenzene	ND		0.155	0.0196	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,4-Dichlorobenzene	ND		0.155	0.0165	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
n-Butylbenzene	ND		0.155	0.0427	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2-Dichlorobenzene	ND		0.155	0.0118	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2-Dibromo-3-chloropropane	ND		0.777	0.0441	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
Hexachlorobutadiene	ND		0.155	0.0885	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2,4-Trichlorobenzene	ND		0.155	0.0309	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00

Client Sample ID: EX11-4-3

Lab Sample ID: SXH0199-04

Date Collected: 08/28/14 14:15

Matrix: Soil

Date Received: 08/29/14 09:52

Percent Solids: 73.4

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.311	0.0211	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00
1,2,3-Trichlorobenzene	ND		0.155	0.0551	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*80 - 120*	*09/02/14 10:27*	*09/02/14 13:32*	*1.00*
1,2-dichloroethane-d4	*93.0*		*74.7 - 120*	*09/02/14 10:27*	*09/02/14 13:32*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*09/02/14 10:27*	*09/02/14 13:32*	*1.00*
4-bromofluorobenzene	*103*		*69.8 - 140*	*09/02/14 10:27*	*09/02/14 13:32*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.77		mg/kg dry	☼	09/02/14 10:27	09/02/14 13:32	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*103*		*41.5 - 162*	*09/02/14 10:27*	*09/02/14 13:32*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		13.1		mg/kg dry	☼	09/02/14 08:07	09/02/14 15:07	1.00
Heavy Oil Range Hydrocarbons	ND		32.8		mg/kg dry	☼	09/02/14 08:07	09/02/14 15:07	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*09/02/14 08:07*	*09/02/14 15:07*	*1.00*
n-Triacontane-d62	*108*		*50 - 150*	*09/02/14 08:07*	*09/02/14 15:07*	*1.00*

Client Sample ID: EX11-5-3.25

Lab Sample ID: SXH0199-05

Date Collected: 08/28/14 14:30

Matrix: Soil

Date Received: 08/29/14 09:52

Percent Solids: 78.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.150	0.0139	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Chloromethane	ND		0.749	0.00794	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Vinyl chloride	ND		0.0899	0.00929	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Bromomethane	ND		0.749	0.0458	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Chloroethane	ND		0.150	0.0367	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Trichlorofluoromethane	ND		0.0449	0.0118	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,1-Dichloroethene	ND		0.150	0.0190	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Carbon disulfide	ND		0.150	0.0160	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Methylene chloride	ND	C	0.300	0.00779	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Acetone	**0.502**	**J**	4.49	0.130	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
trans-1,2-Dichloroethene	ND		0.150	0.0154	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Methyl tert-butyl ether	ND		0.0749	0.00479	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,1-Dichloroethane	ND		0.150	0.0169	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
cis-1,2-Dichloroethene	ND		0.150	0.00854	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
2,2-Dichloropropane	ND		0.150	0.0255	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Bromochloromethane	ND		0.150	0.00584	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Chloroform	ND		0.150	0.0115	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Carbon tetrachloride	ND		0.150	0.0312	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,1,1-Trichloroethane	ND		0.150	0.0259	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
2-Butanone	ND		1.50	0.165	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Client Sample ID: EX11-5-3.25
Date Collected: 08/28/14 14:30
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-05
Matrix: Soil
Percent Solids: 78.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	ND		0.150	0.0121	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,1-Dichloropropene	ND		0.150	0.0261	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Benzene	ND		0.0225	0.0145	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2-Dichloroethane (EDC)	ND		0.150	0.00734	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Trichloroethene	ND		0.0375	0.0192	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Dibromomethane	ND		0.150	0.0136	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2-Dichloropropane	ND		0.150	0.00899	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Bromodichloromethane	ND		0.150	0.0105	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
cis-1,3-Dichloropropene	ND		0.150	0.00929	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Toluene	ND		0.150	0.0199	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
4-Methyl-2-pentanone	ND		1.50	0.0306	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
trans-1,3-Dichloropropene	ND		0.150	0.00989	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Tetrachloroethene	ND		0.0599	0.0264	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,1,2-Trichloroethane	ND		0.150	0.00929	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Dibromochloromethane	ND		0.150	0.00899	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,3-Dichloropropane	ND		0.150	0.0111	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2-Dibromoethane	ND		0.0150	0.00869	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
2-Hexanone	ND		1.50	0.0697	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Ethylbenzene	ND		0.150	0.0243	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Chlorobenzene	ND		0.150	0.0114	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,1,1,2-Tetrachloroethane	ND		0.150	0.0153	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
m,p-Xylene	**0.0315**	**J**	0.599	0.0255	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
o-Xylene	ND		0.300	0.0196	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Styrene	ND		0.150	0.0139	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Bromoform	ND		0.150	0.0187	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Isopropylbenzene	ND		0.150	0.0285	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
n-Propylbenzene	ND		0.150	0.0310	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,1,2,2-Tetrachloroethane	ND		0.150	0.0112	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Bromobenzene	ND		0.150	0.0141	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,3,5-Trimethylbenzene	ND		0.150	0.0279	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
2-Chlorotoluene	ND		0.150	0.0244	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2,3-Trichloropropane	ND		0.150	0.0126	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
4-Chlorotoluene	ND		0.150	0.0214	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
tert-Butylbenzene	ND		0.150	0.0324	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2,4-Trimethylbenzene	**0.0764**	**J**	0.150	0.0217	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
sec-Butylbenzene	ND		0.150	0.0352	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
p-Isopropyltoluene	ND		0.150	0.0358	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,3-Dichlorobenzene	ND		0.150	0.0189	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,4-Dichlorobenzene	ND		0.150	0.0159	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
n-Butylbenzene	ND		0.150	0.0412	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2-Dichlorobenzene	ND		0.150	0.0114	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2-Dibromo-3-chloropropane	ND		0.749	0.0425	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Hexachlorobutadiene	ND		0.150	0.0854	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2,4-Trichlorobenzene	ND		0.150	0.0298	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
Naphthalene	ND		0.300	0.0204	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00
1,2,3-Trichlorobenzene	ND		0.150	0.0532	mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*99.8*		*80 - 120*	*09/02/14 10:27*	*09/02/14 13:55*	*1.00*
1,2-dichloroethane-d4	*94.1*		*74.7 - 120*	*09/02/14 10:27*	*09/02/14 13:55*	*1.00*

Client Sample ID: EX11-5-3.25
Date Collected: 08/28/14 14:30
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-05
Matrix: Soil
Percent Solids: 78.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8	*101*		*78.5 - 125*	*09/02/14 10:27*	*09/02/14 13:55*	*1.00*
4-bromofluorobenzene	*101*		*69.8 - 140*	*09/02/14 10:27*	*09/02/14 13:55*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.49		mg/kg dry	☼	09/02/14 10:27	09/02/14 13:55	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*41.5 - 162*	*09/02/14 10:27*	*09/02/14 13:55*	*1.00*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Bis(2-chloroethyl)ether	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2-Chlorophenol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
1,3-Dichlorobenzene	ND		67		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
1,4-Dichlorobenzene	ND		67		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Benzyl alcohol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
1,2-Dichlorobenzene	ND		73		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2-Methylphenol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
3 & 4 Methylphenol	ND		270		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
N-Nitrosodi-n-propylamine	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Hexachloroethane	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Nitrobenzene	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Isophorone	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2-Nitrophenol	ND	*	130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2,4-Dimethylphenol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Benzoic acid	ND		3300		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Bis(2-chloroethoxy)methane	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2,4-Dichlorophenol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
1,2,4-Trichlorobenzene	ND		67		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Naphthalene	**43**		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
4-Chloroaniline	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Hexachlorobutadiene	ND		67		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
4-Chloro-3-methylphenol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2-Methylnaphthalene	**65**		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Hexachlorocyclopentadiene	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2,4,6-Trichlorophenol	ND		200		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2,4,5-Trichlorophenol	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2-Chloronaphthalene	ND		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2-Nitroaniline	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Dimethyl phthalate	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Acenaphthylene	ND		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2,6-Dinitrotoluene	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
3-Nitroaniline	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Acenaphthene	ND		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2,4-Dinitrophenol	ND	*	1300		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
4-Nitrophenol	ND		1300		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Dibenzofuran	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
2,4-Dinitrotoluene	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1

Client Sample ID: EX11-5-3.25
Date Collected: 08/28/14 14:30
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-05
Matrix: Soil
Percent Solids: 73.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		270		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
4-Chlorophenyl phenyl ether	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Fluorene	ND		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
4-Nitroaniline	ND	*	130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
4,6-Dinitro-2-methylphenol	ND		1300		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
N-Nitrosodiphenylamine	ND		67		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
4-Bromophenyl phenyl ether	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Hexachlorobenzene	ND		67		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Pentachlorophenol	ND	*	270		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Phenanthrene	**47**		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Anthracene	ND		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Di-n-butyl phthalate	ND		670		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Fluoranthene	**54**		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Pyrene	**58**		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Butyl benzyl phthalate	ND		270		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
3,3'-Dichlorobenzidine	ND		270		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Benzo[a]anthracene	ND	*	27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Chrysene	ND		33		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Bis(2-ethylhexyl) phthalate	ND		800		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Di-n-octyl phthalate	ND		670		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Benzo[a]pyrene	ND		40		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Indeno[1,2,3-cd]pyrene	ND		53		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Dibenz(a,h)anthracene	ND		53		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Benzo[g,h,i]perylene	ND		33		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Carbazole	ND		130		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
1-Methylnaphthalene	**47**		40		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Benzo[b]fluoranthene	ND		27		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
Benzo[k]fluoranthene	ND		33		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1
bis (2-chloroisopropyl) ether	ND		330		ug/Kg	☼	09/04/14 12:15	09/06/14 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*81*		*36 - 145*	*09/04/14 12:15*	*09/06/14 00:41*	*1*
Phenol-d5	*85*		*38 - 149*	*09/04/14 12:15*	*09/06/14 00:41*	*1*
Nitrobenzene-d5	*76*		*38 - 141*	*09/04/14 12:15*	*09/06/14 00:41*	*1*
2-Fluorobiphenyl	*82*		*42 - 140*	*09/04/14 12:15*	*09/06/14 00:41*	*1*
2,4,6-Tribromophenol	*81*		*28 - 143*	*09/04/14 12:15*	*09/06/14 00:41*	*1*
Terphenyl-d14	*89*		*42 - 151*	*09/04/14 12:15*	*09/06/14 00:41*	*1*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**132**	**Q6**	123		mg/kg dry	☼	09/02/14 08:07	09/02/14 19:27	10.0
Heavy Oil Range Hydrocarbons	**589**		307		mg/kg dry	☼	09/02/14 08:07	09/02/14 19:27	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*20.2*	*Z3*	*50 - 150*	*09/02/14 08:07*	*09/02/14 19:27*	*10.0*
n-Triacontane-d62	*17.8*	*Z3*	*50 - 150*	*09/02/14 08:07*	*09/02/14 19:27*	*10.0*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Client Sample ID: Infiltration Pond 8/28/14
Date Collected: 08/28/14 15:30
Date Received: 08/29/14 09:52

Lab Sample ID: SXH0199-06
Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0057		0.0010		mg/L		09/02/14 15:37	09/02/14 19:29	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/03/14 08:47	09/03/14 15:16	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14I0003-BLK1
Matrix: Soil
Analysis Batch: 14I0003

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0003_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Methylene chloride	ND	C	0.200	0.00520	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2-Dichloropropane	ND		0.100	0.00600	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Bromodichloromethane	ND		0.100	0.00700	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Dibromochloromethane	ND		0.100	0.00600	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Bromoform	ND		0.100	0.0125	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14I0003-BLK1
Matrix: Soil
Analysis Batch: 14I0003

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0003_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*80 - 120*	*09/02/14 10:27*	*09/02/14 11:16*	*1.00*
1,2-dichloroethane-d4	*91.7*		*74.7 - 120*	*09/02/14 10:27*	*09/02/14 11:16*	*1.00*
Toluene-d8	*104*		*78.5 - 125*	*09/02/14 10:27*	*09/02/14 11:16*	*1.00*
4-bromofluorobenzene	*105*		*69.8 - 140*	*09/02/14 10:27*	*09/02/14 11:16*	*1.00*

Lab Sample ID: 14I0003-BS1
Matrix: Soil
Analysis Batch: 14I0003

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0003_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.524		mg/kg wet		105	60.5 - 130
Chloromethane	0.500	0.501		mg/kg wet		100	68.9 - 130
Vinyl chloride	0.500	0.498		mg/kg wet		99.6	74 - 142
Bromomethane	0.500	0.456	J	mg/kg wet		91.1	70.5 - 146
Chloroethane	0.500	0.508		mg/kg wet		102	60 - 140
Trichlorofluoromethane	0.500	0.477		mg/kg wet		95.4	70.5 - 139
1,1-Dichloroethene	0.500	0.498		mg/kg wet		99.6	72.9 - 135
Carbon disulfide	0.500	0.510		mg/kg wet		102	66.8 - 146
Methylene chloride	0.500	0.434		mg/kg wet		86.9	60 - 140
Acetone	2.50	2.16	J	mg/kg wet		86.6	39.2 - 145
trans-1,2-Dichloroethene	0.500	0.486		mg/kg wet		97.1	60 - 140
Methyl tert-butyl ether	0.500	0.454		mg/kg wet		90.9	60 - 140
1,1-Dichloroethane	0.500	0.489		mg/kg wet		97.8	80 - 131
cis-1,2-Dichloroethene	0.500	0.506		mg/kg wet		101	80 - 126
2,2-Dichloropropane	0.500	0.471		mg/kg wet		94.2	71.5 - 132
Bromochloromethane	0.500	0.498		mg/kg wet		99.6	69.1 - 139
Chloroform	0.500	0.479		mg/kg wet		95.8	80 - 130
Carbon tetrachloride	0.500	0.471		mg/kg wet		94.2	73.6 - 148

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14I0003-BS1
Matrix: Soil
Analysis Batch: 14I0003

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0003_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.480		mg/kg wet		96.0	74.3 - 138
2-Butanone	2.50	2.04		mg/kg wet		81.6	56.1 - 124
Hexane	0.500	0.496		mg/kg wet		99.1	77 - 130
1,1-Dichloropropene	0.500	0.492		mg/kg wet		98.3	78.3 - 132
Benzene	0.500	0.484		mg/kg wet		96.8	75.8 - 123
1,2-Dichloroethane (EDC)	0.500	0.462		mg/kg wet		92.5	71.1 - 142
Trichloroethene	0.500	0.514		mg/kg wet		103	78.5 - 134
Dibromomethane	0.500	0.464		mg/kg wet		92.8	80 - 129
1,2-Dichloropropane	0.500	0.491		mg/kg wet		98.2	50.8 - 155
Bromodichloromethane	0.500	0.490		mg/kg wet		98.0	80 - 128
cis-1,3-Dichloropropene	0.500	0.484		mg/kg wet		96.8	80 - 126
Toluene	0.500	0.478		mg/kg wet		95.5	76.6 - 125
4-Methyl-2-pentanone	2.50	2.40		mg/kg wet		96.0	66.4 - 131
trans-1,3-Dichloropropene	0.500	0.502		mg/kg wet		100	79 - 124
Tetrachloroethene	0.500	0.490		mg/kg wet		98.1	80 - 127
1,1,2-Trichloroethane	0.500	0.512		mg/kg wet		102	78.4 - 125
Dibromochloromethane	0.500	0.506		mg/kg wet		101	78.4 - 127
1,3-Dichloropropane	0.500	0.484		mg/kg wet		96.9	80 - 125
1,2-Dibromoethane	0.500	0.503		mg/kg wet		101	77.1 - 129
2-Hexanone	2.50	2.31		mg/kg wet		92.4	64.6 - 127
Ethylbenzene	0.500	0.476		mg/kg wet		95.2	77.3 - 121
Chlorobenzene	0.500	0.506		mg/kg wet		101	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.515		mg/kg wet		103	80 - 120
m,p-Xylene	0.500	0.468		mg/kg wet		93.5	77.7 - 124
o-Xylene	0.500	0.476		mg/kg wet		95.3	76.7 - 129
Styrene	0.500	0.520		mg/kg wet		104	80 - 128
Bromoform	0.500	0.504		mg/kg wet		101	76 - 135
Isopropylbenzene	0.500	0.470		mg/kg wet		94.1	78.4 - 131
n-Propylbenzene	0.500	0.465		mg/kg wet		93.0	80 - 120
1,1,2,2-Tetrachloroethane	0.500	0.476		mg/kg wet		95.2	60.3 - 137
Bromobenzene	0.500	0.450		mg/kg wet		90.0	60 - 140
1,3,5-Trimethylbenzene	0.500	0.482		mg/kg wet		96.3	80 - 121
2-Chlorotoluene	0.500	0.496		mg/kg wet		99.1	80 - 123
1,2,3-Trichloropropane	0.500	0.528		mg/kg wet		106	59.9 - 131
4-Chlorotoluene	0.500	0.470		mg/kg wet		94.1	80 - 124
tert-Butylbenzene	0.500	0.488		mg/kg wet		97.6	78.8 - 130
1,2,4-Trimethylbenzene	0.500	0.488		mg/kg wet		97.6	80 - 122
sec-Butylbenzene	0.500	0.472		mg/kg wet		94.3	80 - 120
p-Isopropyltoluene	0.500	0.472		mg/kg wet		94.3	67.2 - 147
1,3-Dichlorobenzene	0.500	0.484		mg/kg wet		96.8	80 - 122
1,4-Dichlorobenzene	0.500	0.478		mg/kg wet		95.5	80 - 125
n-Butylbenzene	0.500	0.442		mg/kg wet		88.4	80 - 120
1,2-Dichlorobenzene	0.500	0.476		mg/kg wet		95.2	80 - 124
1,2-Dibromo-3-chloropropane	0.500	0.519		mg/kg wet		104	60 - 140
Hexachlorobutadiene	0.500	0.490		mg/kg wet		97.9	71.8 - 138
1,2,4-Trichlorobenzene	0.500	0.458		mg/kg wet		91.7	75.3 - 126
Naphthalene	0.500	0.439		mg/kg wet		87.8	55.1 - 142
1,2,3-Trichlorobenzene	0.500	0.492		mg/kg wet		98.5	69.6 - 127

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14I0003-BS1
Matrix: Soil
Analysis Batch: 14I0003

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0003_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*103*		*80 - 120*
1,2-dichloroethane-d4	*95.4*		*74.7 - 120*
Toluene-d8	*101*		*78.5 - 125*
4-bromofluorobenzene	*102*		*69.8 - 140*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14I0003-BLK1
Matrix: Soil
Analysis Batch: 14I0003

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0003_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		09/02/14 10:27	09/02/14 11:16	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*105*		*41.5 - 162*	*09/02/14 10:27*	*09/02/14 11:16*	*1.00*

Lab Sample ID: 14I0003-BS2
Matrix: Soil
Analysis Batch: 14I0003

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0003_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	46.2		mg/kg wet		92.3	74.4 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*90.9*		*41.5 - 162*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-168810/1-A
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Bis(2-chloroethyl)ether	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2-Chlorophenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
1,3-Dichlorobenzene	ND		50		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
1,4-Dichlorobenzene	ND		50		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Benzyl alcohol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
1,2-Dichlorobenzene	ND		55		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2-Methylphenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
3 & 4 Methylphenol	ND		200		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
N-Nitrosodi-n-propylamine	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Hexachloroethane	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Nitrobenzene	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Isophorone	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-168810/1-A
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2,4-Dimethylphenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Benzoic acid	ND		2500		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Bis(2-chloroethoxy)methane	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2,4-Dichlorophenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
1,2,4-Trichlorobenzene	ND		50		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Naphthalene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
4-Chloroaniline	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Hexachlorobutadiene	ND		50		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
4-Chloro-3-methylphenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2-Methylnaphthalene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Hexachlorocyclopentadiene	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2,4,6-Trichlorophenol	ND		150		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2,4,5-Trichlorophenol	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2-Chloronaphthalene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2-Nitroaniline	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Dimethyl phthalate	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Acenaphthylene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2,6-Dinitrotoluene	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
3-Nitroaniline	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Acenaphthene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2,4-Dinitrophenol	ND		1000		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
4-Nitrophenol	ND		1000		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Dibenzofuran	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
2,4-Dinitrotoluene	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Diethyl phthalate	ND		200		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
4-Chlorophenyl phenyl ether	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Fluorene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
4-Nitroaniline	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
4,6-Dinitro-2-methylphenol	ND		1000		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
N-Nitrosodiphenylamine	ND		50		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
4-Bromophenyl phenyl ether	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Hexachlorobenzene	ND		50		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Pentachlorophenol	ND		200		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Phenanthrene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Anthracene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Di-n-butyl phthalate	ND		500		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Fluoranthene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Pyrene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Butyl benzyl phthalate	ND		200		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
3,3'-Dichlorobenzidine	ND		200		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Benzo[a]anthracene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Chrysene	ND		25		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Bis(2-ethylhexyl) phthalate	ND		600		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Di-n-octyl phthalate	ND		500		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Benzo[a]pyrene	ND		30		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Dibenz(a,h)anthracene	ND		40		ug/Kg		09/04/14 12:15	09/05/14 19:31	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-168810/1-A
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		25		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Carbazole	ND		100		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
1-Methylnaphthalene	ND		30		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Benzo[b]fluoranthene	ND		20		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
Benzo[k]fluoranthene	ND		25		ug/Kg		09/04/14 12:15	09/05/14 19:31	1
bis (2-chloroisopropyl) ether	ND		250		ug/Kg		09/04/14 12:15	09/05/14 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*85*		*36 - 145*	*09/04/14 12:15*	*09/05/14 19:31*	*1*
Phenol-d5	*81*		*38 - 149*	*09/04/14 12:15*	*09/05/14 19:31*	*1*
Nitrobenzene-d5	*74*		*38 - 141*	*09/04/14 12:15*	*09/05/14 19:31*	*1*
2-Fluorobiphenyl	*85*		*42 - 140*	*09/04/14 12:15*	*09/05/14 19:31*	*1*
2,4,6-Tribromophenol	*63*		*28 - 143*	*09/04/14 12:15*	*09/05/14 19:31*	*1*
Terphenyl-d14	*88*		*42 - 151*	*09/04/14 12:15*	*09/05/14 19:31*	*1*

Lab Sample ID: LCS 580-168810/2-A
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1000	815		ug/Kg		81	63 - 111
Bis(2-chloroethyl)ether	1000	727		ug/Kg		73	62 - 110
2-Chlorophenol	1000	812		ug/Kg		81	68 - 117
1,3-Dichlorobenzene	1000	732		ug/Kg		73	64 - 111
1,4-Dichlorobenzene	1000	702		ug/Kg		70	65 - 110
Benzyl alcohol	1000	812		ug/Kg		81	55 - 123
1,2-Dichlorobenzene	1000	757		ug/Kg		76	64 - 112
2-Methylphenol	1000	779		ug/Kg		78	71 - 116
3 & 4 Methylphenol	1000	827		ug/Kg		83	70 - 116
N-Nitrosodi-n-propylamine	1000	727		ug/Kg		73	62 - 116
Hexachloroethane	1000	762		ug/Kg		76	62 - 120
Nitrobenzene	1000	759		ug/Kg		76	64 - 118
Isophorone	1000	766		ug/Kg		77	67 - 119
2-Nitrophenol	1000	662	*	ug/Kg		66	67 - 127
2,4-Dimethylphenol	1000	747		ug/Kg		75	54 - 139
Benzoic acid	2000	1420	J	ug/Kg		71	29 - 158
Bis(2-chloroethoxy)methane	1000	790		ug/Kg		79	69 - 107
2,4-Dichlorophenol	1000	759		ug/Kg		76	68 - 125
1,2,4-Trichlorobenzene	1000	785		ug/Kg		79	66 - 115
Naphthalene	1000	781		ug/Kg		78	62 - 112
4-Chloroaniline	1000	366		ug/Kg		37	20 - 103
Hexachlorobutadiene	1000	757		ug/Kg		76	65 - 116
4-Chloro-3-methylphenol	1000	782		ug/Kg		78	69 - 121
2-Methylnaphthalene	1000	805		ug/Kg		81	64 - 119
Hexachlorocyclopentadiene	1000	749		ug/Kg		75	46 - 131
2,4,6-Trichlorophenol	1000	763		ug/Kg		76	62 - 133
2,4,5-Trichlorophenol	1000	775		ug/Kg		78	57 - 133
2-Chloronaphthalene	1000	741		ug/Kg		74	68 - 112

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-168810/2-A
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1000	811		ug/Kg		81	64 - 112
Dimethyl phthalate	1000	870		ug/Kg		87	78 - 117
Acenaphthylene	1000	829		ug/Kg		83	68 - 120
2,6-Dinitrotoluene	1000	687		ug/Kg		69	66 - 123
3-Nitroaniline	1000	620		ug/Kg		62	27 - 103
Acenaphthene	1000	766		ug/Kg		77	68 - 116
2,4-Dinitrophenol	2000	888	J	ug/Kg		44	20 - 141
4-Nitrophenol	2000	1540		ug/Kg		77	20 - 165
Dibenzofuran	1000	805		ug/Kg		80	72 - 109
2,4-Dinitrotoluene	1000	733		ug/Kg		73	68 - 121
Diethyl phthalate	1000	904		ug/Kg		90	73 - 116
4-Chlorophenyl phenyl ether	1000	804		ug/Kg		80	75 - 108
Fluorene	1000	817		ug/Kg		82	70 - 121
4-Nitroaniline	1000	1460	*	ug/Kg		146	58 - 108
4,6-Dinitro-2-methylphenol	2000	1240		ug/Kg		62	48 - 130
N-Nitrosodiphenylamine	1000	864		ug/Kg		86	73 - 115
4-Bromophenyl phenyl ether	1000	843		ug/Kg		84	68 - 122
Hexachlorobenzene	1000	773		ug/Kg		77	66 - 117
Pentachlorophenol	2000	1250		ug/Kg		62	45 - 117
Phenanthrene	1000	803		ug/Kg		80	73 - 106
Anthracene	1000	795		ug/Kg		80	73 - 116
Di-n-butyl phthalate	1000	849		ug/Kg		85	66 - 140
Fluoranthene	1000	794		ug/Kg		79	73 - 125
Pyrene	1000	815		ug/Kg		82	70 - 120
Butyl benzyl phthalate	1000	767		ug/Kg		77	69 - 142
3,3'-Dichlorobenzidine	2000	1480		ug/Kg		74	20 - 103
Benzo[a]anthracene	1000	821		ug/Kg		82	76 - 119
Chrysene	1000	772		ug/Kg		77	75 - 114
Bis(2-ethylhexyl) phthalate	1000	825		ug/Kg		82	62 - 144
Di-n-octyl phthalate	1000	740		ug/Kg		74	65 - 141
Benzo[a]pyrene	1000	803		ug/Kg		80	72 - 117
Indeno[1,2,3-cd]pyrene	1000	707		ug/Kg		71	56 - 127
Dibenz(a,h)anthracene	1000	734		ug/Kg		73	56 - 134
Benzo[g,h,i]perylene	1000	762		ug/Kg		76	55 - 139
Carbazole	1000	1310		ug/Kg		131	76 - 135
1-Methylnaphthalene	1000	797		ug/Kg		80	62 - 118
Benzo[b]fluoranthene	1000	737		ug/Kg		74	63 - 132
Benzo[k]fluoranthene	1000	800		ug/Kg		80	63 - 119
bis (2-chloroisopropyl) ether	1000	763		ug/Kg		76	41 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*81*		*36 - 145*
Phenol-d5	*78*		*38 - 149*
Nitrobenzene-d5	*72*		*38 - 141*
2-Fluorobiphenyl	*81*		*42 - 140*
2,4,6-Tribromophenol	*80*		*28 - 143*
Terphenyl-d14	*80*		*42 - 151*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-168810/3-A
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168810

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	1000	809		ug/Kg		81	63 - 111	1	26
Bis(2-chloroethyl)ether	1000	729		ug/Kg		73	62 - 110	0	22
2-Chlorophenol	1000	781		ug/Kg		78	68 - 117	4	27
1,3-Dichlorobenzene	1000	740		ug/Kg		74	64 - 111	1	30
1,4-Dichlorobenzene	1000	730		ug/Kg		73	65 - 110	4	30
Benzyl alcohol	1000	760		ug/Kg		76	55 - 123	7	60
1,2-Dichlorobenzene	1000	752		ug/Kg		75	64 - 112	1	30
2-Methylphenol	1000	734		ug/Kg		73	71 - 116	6	25
3 & 4 Methylphenol	1000	826		ug/Kg		83	70 - 116	0	27
N-Nitrosodi-n-propylamine	1000	735		ug/Kg		74	62 - 116	1	28
Hexachloroethane	1000	729		ug/Kg		73	62 - 120	4	30
Nitrobenzene	1000	673		ug/Kg		67	64 - 118	12	30
Isophorone	1000	728		ug/Kg		73	67 - 119	5	30
2-Nitrophenol	1000	635	*	ug/Kg		63	67 - 127	4	30
2,4-Dimethylphenol	1000	736		ug/Kg		74	54 - 139	2	30
Benzoic acid	2000	1220	J	ug/Kg		61	29 - 158	15	28
Bis(2-chloroethoxy)methane	1000	737		ug/Kg		74	69 - 107	7	30
2,4-Dichlorophenol	1000	705		ug/Kg		70	68 - 125	7	30
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	66 - 115	8	28
Naphthalene	1000	718		ug/Kg		72	62 - 112	8	26
4-Chloroaniline	1000	333		ug/Kg		33	20 - 103	10	60
Hexachlorobutadiene	1000	702		ug/Kg		70	65 - 116	8	30
4-Chloro-3-methylphenol	1000	735		ug/Kg		74	69 - 121	6	27
2-Methylnaphthalene	1000	743		ug/Kg		74	64 - 119	8	27
Hexachlorocyclopentadiene	1000	665		ug/Kg		66	46 - 131	12	29
2,4,6-Trichlorophenol	1000	696		ug/Kg		70	62 - 133	9	30
2,4,5-Trichlorophenol	1000	696		ug/Kg		70	57 - 133	11	30
2-Chloronaphthalene	1000	705		ug/Kg		70	68 - 112	5	25
2-Nitroaniline	1000	697		ug/Kg		70	64 - 112	15	22
Dimethyl phthalate	1000	834		ug/Kg		83	78 - 117	4	30
Acenaphthylene	1000	780		ug/Kg		78	68 - 120	6	28
2,6-Dinitrotoluene	1000	741		ug/Kg		74	66 - 123	8	30
3-Nitroaniline	1000	574		ug/Kg		57	27 - 103	8	33
Acenaphthene	1000	697		ug/Kg		70	68 - 116	9	27
2,4-Dinitrophenol	2000	611	J *	ug/Kg		31	20 - 141	37	36
4-Nitrophenol	2000	1450		ug/Kg		73	20 - 165	6	30
Dibenzofuran	1000	783		ug/Kg		78	72 - 109	3	30
2,4-Dinitrotoluene	1000	704		ug/Kg		70	68 - 121	4	30
Diethyl phthalate	1000	860		ug/Kg		86	73 - 116	5	26
4-Chlorophenyl phenyl ether	1000	775		ug/Kg		77	75 - 108	4	30
Fluorene	1000	790		ug/Kg		79	70 - 121	3	30
4-Nitroaniline	1000	1360	*	ug/Kg		136	58 - 108	7	32
4,6-Dinitro-2-methylphenol	2000	995	J	ug/Kg		50	48 - 130	22	22
N-Nitrosodiphenylamine	1000	820		ug/Kg		82	73 - 115	5	30
4-Bromophenyl phenyl ether	1000	777		ug/Kg		78	68 - 122	8	30
Hexachlorobenzene	1000	758		ug/Kg		76	66 - 117	2	30
Pentachlorophenol	2000	962	*	ug/Kg		48	45 - 117	26	23
Phenanthrene	1000	789		ug/Kg		79	73 - 106	2	28

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-168810/3-A
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 168810

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			1000	758		ug/Kg		76	73 - 116	5	27
Di-n-butyl phthalate			1000	815		ug/Kg		81	66 - 140	4	30
Fluoranthene			1000	768		ug/Kg		77	73 - 125	3	30
Pyrene			1000	777		ug/Kg		78	70 - 120	5	30
Butyl benzyl phthalate			1000	720		ug/Kg		72	69 - 142	6	30
3,3'-Dichlorobenzidine			2000	1340		ug/Kg		67	20 - 103	10	60
Benzo[a]anthracene			1000	754	*	ug/Kg		75	76 - 119	9	27
Chrysene			1000	781		ug/Kg		78	75 - 114	1	26
Bis(2-ethylhexyl) phthalate			1000	762		ug/Kg		76	62 - 144	8	30
Di-n-octyl phthalate			1000	702		ug/Kg		70	65 - 141	5	30
Benzo[a]pyrene			1000	717		ug/Kg		72	72 - 117	11	30
Indeno[1,2,3-cd]pyrene			1000	674		ug/Kg		67	56 - 127	5	29
Dibenz(a,h)anthracene			1000	686		ug/Kg		69	56 - 134	7	30
Benzo[g,h,i]perylene			1000	758		ug/Kg		76	55 - 139	0	28
Carbazole			1000	1260		ug/Kg		126	76 - 135	4	30
1-Methylnaphthalene			1000	723		ug/Kg		72	62 - 118	10	30
Benzo[b]fluoranthene			1000	719		ug/Kg		72	63 - 132	3	30
Benzo[k]fluoranthene			1000	803		ug/Kg		80	63 - 119	0	30
bis (2-chloroisopropyl) ether			1000	700		ug/Kg		70	41 - 126	9	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*79*		*36 - 145*
Phenol-d5	*78*		*38 - 149*
Nitrobenzene-d5	*70*		*38 - 141*
2-Fluorobiphenyl	*76*		*42 - 140*
2,4,6-Tribromophenol	*75*		*28 - 143*
Terphenyl-d14	*78*		*42 - 151*

Lab Sample ID: 580-45211-1 MS
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: SXH0199-05
Prep Type: Total/NA
Prep Batch: 168810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	ND		1350	1200		ug/Kg	☼	89	63 - 111
Bis(2-chloroethyl)ether	ND		1350	992		ug/Kg	☼	74	62 - 110
2-Chlorophenol	ND		1350	1200		ug/Kg	☼	89	68 - 117
1,3-Dichlorobenzene	ND		1350	1050		ug/Kg	☼	78	64 - 111
1,4-Dichlorobenzene	ND		1350	980		ug/Kg	☼	73	65 - 110
Benzyl alcohol	ND		1350	1100		ug/Kg	☼	82	55 - 123
1,2-Dichlorobenzene	ND		1350	1080		ug/Kg	☼	80	64 - 112
2-Methylphenol	ND		1350	1210		ug/Kg	☼	89	71 - 116
3 & 4 Methylphenol	ND		1350	1190		ug/Kg	☼	89	70 - 116
N-Nitrosodi-n-propylamine	ND		1350	1080		ug/Kg	☼	80	62 - 116
Hexachloroethane	ND		1350	826	F1	ug/Kg	☼	61	62 - 120
Nitrobenzene	ND		1350	1020		ug/Kg	☼	75	64 - 118
Isophorone	ND		1350	1140		ug/Kg	☼	84	67 - 119
2-Nitrophenol	ND	*	1350	1020		ug/Kg	☼	75	67 - 127
2,4-Dimethylphenol	ND		1350	1150		ug/Kg	☼	85	54 - 139

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45211-1 MS
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: SXH0199-05
Prep Type: Total/NA
Prep Batch: 168810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzoic acid	ND		2700	ND		ug/Kg	☼	121	29 - 158
Bis(2-chloroethoxy)methane	ND		1350	1020		ug/Kg	☼	76	69 - 107
2,4-Dichlorophenol	ND		1350	1070		ug/Kg	☼	80	68 - 125
1,2,4-Trichlorobenzene	ND		1350	1040		ug/Kg	☼	77	66 - 115
Naphthalene	43		1350	1100		ug/Kg	☼	78	62 - 112
4-Chloroaniline	ND		1350	405		ug/Kg	☼	30	20 - 103
Hexachlorobutadiene	ND		1350	947		ug/Kg	☼	70	65 - 116
4-Chloro-3-methylphenol	ND		1350	1140		ug/Kg	☼	84	69 - 121
2-Methylnaphthalene	65		1350	1180		ug/Kg	☼	83	64 - 119
Hexachlorocyclopentadiene	ND		1350	172	F1	ug/Kg	☼	13	46 - 131
2,4,6-Trichlorophenol	ND		1350	1130		ug/Kg	☼	84	62 - 133
2,4,5-Trichlorophenol	ND		1350	1120		ug/Kg	☼	83	57 - 133
2-Chloronaphthalene	ND		1350	1040		ug/Kg	☼	77	68 - 112
2-Nitroaniline	ND		1350	1180		ug/Kg	☼	87	64 - 112
Dimethyl phthalate	ND		1350	1140		ug/Kg	☼	85	78 - 117
Acenaphthylene	ND		1350	1170		ug/Kg	☼	87	68 - 120
2,6-Dinitrotoluene	ND		1350	1020		ug/Kg	☼	76	66 - 123
3-Nitroaniline	ND		1350	845		ug/Kg	☼	63	27 - 103
Acenaphthene	ND		1350	1030		ug/Kg	☼	77	68 - 116
2,4-Dinitrophenol	ND	*	2700	ND	F1	ug/Kg	☼	18	20 - 141
4-Nitrophenol	ND		2700	2200		ug/Kg	☼	81	20 - 165
Dibenzofuran	ND		1350	1090		ug/Kg	☼	81	72 - 109
2,4-Dinitrotoluene	ND		1350	994		ug/Kg	☼	74	68 - 121
Diethyl phthalate	ND		1350	1140		ug/Kg	☼	76	73 - 116
4-Chlorophenyl phenyl ether	ND		1350	1050		ug/Kg	☼	78	75 - 108
Fluorene	ND		1350	1110		ug/Kg	☼	82	70 - 121
4-Nitroaniline	ND	*	1350	1700	F1	ug/Kg	☼	126	58 - 108
4,6-Dinitro-2-methylphenol	ND		2700	ND	F1	ug/Kg	☼	19	48 - 130
N-Nitrosodiphenylamine	ND		1350	1190		ug/Kg	☼	88	73 - 115
4-Bromophenyl phenyl ether	ND		1350	1110		ug/Kg	☼	82	68 - 122
Hexachlorobenzene	ND		1350	1040		ug/Kg	☼	77	66 - 117
Pentachlorophenol	ND	*	2700	2200		ug/Kg	☼	81	45 - 117
Phenanthrene	47		1350	1150		ug/Kg	☼	82	73 - 106
Anthracene	ND		1350	1090		ug/Kg	☼	81	73 - 116
Di-n-butyl phthalate	ND		1350	1280		ug/Kg	☼	95	66 - 140
Fluoranthene	54		1350	1260		ug/Kg	☼	89	73 - 125
Pyrene	58		1350	1260		ug/Kg	☼	89	70 - 120
Butyl benzyl phthalate	ND		1350	1290		ug/Kg	☼	95	69 - 142
3,3'-Dichlorobenzidine	ND		2700	1050		ug/Kg	☼	39	20 - 103
Benzo[a]anthracene	ND	*	1350	1280		ug/Kg	☼	95	76 - 119
Chrysene	ND		1350	1120		ug/Kg	☼	83	75 - 114
Bis(2-ethylhexyl) phthalate	ND		1350	1520		ug/Kg	☼	113	62 - 144
Di-n-octyl phthalate	ND		1350	1490		ug/Kg	☼	111	65 - 141
Benzo[a]pyrene	ND		1350	1130		ug/Kg	☼	84	72 - 117
Indeno[1,2,3-cd]pyrene	ND		1350	630	F1	ug/Kg	☼	47	56 - 127
Dibenz(a,h)anthracene	ND		1350	552	F1	ug/Kg	☼	41	56 - 134
Benzo[g,h,i]perylene	ND		1350	562	F1	ug/Kg	☼	42	55 - 139
Carbazole	ND		1350	1840	F1	ug/Kg	☼	136	76 - 135

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45211-1 MS
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: SXH0199-05
Prep Type: Total/NA
Prep Batch: 168810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	47		1350	1150		ug/Kg	☼	82	62 - 118
Benzo[b]fluoranthene	ND		1350	1230		ug/Kg	☼	91	63 - 132
Benzo[k]fluoranthene	ND		1350	1070		ug/Kg	☼	79	63 - 119
bis (2-chloroisopropyl) ether	ND		1350	995		ug/Kg	☼	74	41 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*87*		*36 - 145*
Phenol-d5	*85*		*38 - 149*
Nitrobenzene-d5	*78*		*38 - 141*
2-Fluorobiphenyl	*82*		*42 - 140*
2,4,6-Tribromophenol	*83*		*28 - 143*
Terphenyl-d14	*92*		*42 - 151*

Lab Sample ID: 580-45211-1 MSD
Matrix: Solid
Analysis Batch: 168957

Client Sample ID: SXH0199-05
Prep Type: Total/NA
Prep Batch: 168810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	ND		1310	1120		ug/Kg	☼	85	63 - 111	7	26
Bis(2-chloroethyl)ether	ND		1310	992		ug/Kg	☼	76	62 - 110	0	60
2-Chlorophenol	ND		1310	1130		ug/Kg	☼	86	68 - 117	6	27
1,3-Dichlorobenzene	ND		1310	943		ug/Kg	☼	72	64 - 111	11	60
1,4-Dichlorobenzene	ND		1310	918		ug/Kg	☼	70	65 - 110	7	32
Benzyl alcohol	ND		1310	946		ug/Kg	☼	72	55 - 123	15	60
1,2-Dichlorobenzene	ND		1310	1020		ug/Kg	☼	78	64 - 112	6	60
2-Methylphenol	ND		1310	1090		ug/Kg	☼	83	71 - 116	10	25
3 & 4 Methylphenol	ND		1310	1220		ug/Kg	☼	93	70 - 116	2	27
N-Nitrosodi-n-propylamine	ND		1310	997		ug/Kg	☼	76	62 - 116	8	28
Hexachloroethane	ND		1310	828		ug/Kg	☼	63	62 - 120	0	60
Nitrobenzene	ND		1310	1040		ug/Kg	☼	80	64 - 118	3	60
Isophorone	ND		1310	1090		ug/Kg	☼	83	67 - 119	4	60
2-Nitrophenol	ND	*	1310	995		ug/Kg	☼	76	67 - 127	2	60
2,4-Dimethylphenol	ND		1310	1150		ug/Kg	☼	87	54 - 139	0	60
Benzoic acid	ND		2620	ND		ug/Kg	☼	123	29 - 158	2	60
Bis(2-chloroethoxy)methane	ND		1310	1010		ug/Kg	☼	77	69 - 107	2	60
2,4-Dichlorophenol	ND		1310	1090		ug/Kg	☼	83	68 - 125	2	60
1,2,4-Trichlorobenzene	ND		1310	1050		ug/Kg	☼	80	66 - 115	2	28
Naphthalene	43		1310	1080		ug/Kg	☼	79	62 - 112	1	26
4-Chloroaniline	ND		1310	393		ug/Kg	☼	30	20 - 103	3	60
Hexachlorobutadiene	ND		1310	971		ug/Kg	☼	74	65 - 116	3	60
4-Chloro-3-methylphenol	ND		1310	1160		ug/Kg	☼	88	69 - 121	2	27
2-Methylnaphthalene	65		1310	1170		ug/Kg	☼	84	64 - 119	1	27
Hexachlorocyclopentadiene	ND		1310	154	F1	ug/Kg	☼	12	46 - 131	11	60
2,4,6-Trichlorophenol	ND		1310	1130		ug/Kg	☼	86	62 - 133	0	60
2,4,5-Trichlorophenol	ND		1310	1050		ug/Kg	☼	80	57 - 133	7	60
2-Chloronaphthalene	ND		1310	979		ug/Kg	☼	75	68 - 112	6	25
2-Nitroaniline	ND		1310	1060		ug/Kg	☼	81	64 - 112	10	60
Dimethyl phthalate	ND		1310	1120		ug/Kg	☼	85	78 - 117	2	60

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45211-1 MSD | **Client Sample ID: SXH0199-05**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 168957 | **Prep Batch: 168810**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		1310	1130		ug/Kg	☼	86	68 - 120	3	28
2,6-Dinitrotoluene	ND		1310	1070		ug/Kg	☼	82	66 - 123	5	60
3-Nitroaniline	ND		1310	930		ug/Kg	☼	71	27 - 103	10	60
Acenaphthene	ND		1310	995		ug/Kg	☼	76	68 - 116	4	27
2,4-Dinitrophenol	ND	*	2620	ND	F1	ug/Kg	☼	15	20 - 141	19	60
4-Nitrophenol	ND		2620	2410		ug/Kg	☼	92	20 - 165	9	33
Dibenzofuran	ND		1310	1080		ug/Kg	☼	82	72 - 109	2	60
2,4-Dinitrotoluene	ND		1310	992		ug/Kg	☼	76	68 - 121	0	31
Diethyl phthalate	ND		1310	1150		ug/Kg	☼	79	73 - 116	1	26
4-Chlorophenyl phenyl ether	ND		1310	1010		ug/Kg	☼	77	75 - 108	4	60
Fluorene	ND		1310	1100		ug/Kg	☼	84	70 - 121	1	31
4-Nitroaniline	ND	*	1310	1860	F1	ug/Kg	☼	142	58 - 108	9	60
4,6-Dinitro-2-methylphenol	ND		2620	ND	F1	ug/Kg	☼	14	48 - 130	33	60
N-Nitrosodiphenylamine	ND		1310	1240		ug/Kg	☼	94	73 - 115	4	60
4-Bromophenyl phenyl ether	ND		1310	1090		ug/Kg	☼	83	68 - 122	2	60
Hexachlorobenzene	ND		1310	1010		ug/Kg	☼	77	66 - 117	3	60
Pentachlorophenol	ND	*	2620	2200		ug/Kg	☼	84	45 - 117	0	68
Phenanthrene	47		1310	1130		ug/Kg	☼	82	73 - 106	2	28
Anthracene	ND		1310	1100		ug/Kg	☼	84	73 - 116	1	27
Di-n-butyl phthalate	ND		1310	1300		ug/Kg	☼	99	66 - 140	1	60
Fluoranthene	54		1310	1210		ug/Kg	☼	88	73 - 125	4	36
Pyrene	58		1310	1200		ug/Kg	☼	87	70 - 120	4	31
Butyl benzyl phthalate	ND		1310	1200		ug/Kg	☼	92	69 - 142	7	60
3,3'-Dichlorobenzidine	ND		2620	933		ug/Kg	☼	36	20 - 103	12	60
Benzo[a]anthracene	ND	*	1310	1190		ug/Kg	☼	91	76 - 119	7	27
Chrysene	ND		1310	1050		ug/Kg	☼	80	75 - 114	6	26
Bis(2-ethylhexyl) phthalate	ND		1310	1390		ug/Kg	☼	106	62 - 144	10	60
Di-n-octyl phthalate	ND		1310	1530		ug/Kg	☼	117	65 - 141	3	31
Benzo[a]pyrene	ND		1310	1100		ug/Kg	☼	84	72 - 117	4	30
Indeno[1,2,3-cd]pyrene	ND		1310	664	F1	ug/Kg	☼	51	56 - 127	5	29
Dibenz(a,h)anthracene	ND		1310	571	F1	ug/Kg	☼	44	56 - 134	3	30
Benzo[g,h,i]perylene	ND		1310	521	F1	ug/Kg	☼	40	55 - 139	8	28
Carbazole	ND		1310	1870	F1	ug/Kg	☼	143	76 - 135	2	60
1-Methylnaphthalene	47		1310	1130		ug/Kg	☼	83	62 - 118	2	30
Benzo[b]fluoranthene	ND		1310	1240		ug/Kg	☼	95	63 - 132	1	31
Benzo[k]fluoranthene	ND		1310	1090		ug/Kg	☼	83	63 - 119	1	31
bis (2-chloroisopropyl) ether	ND		1310	919		ug/Kg	☼	70	41 - 126	8	60

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*87*		*36 - 145*
Phenol-d5	*85*		*38 - 149*
Nitrobenzene-d5	*81*		*38 - 141*
2-Fluorobiphenyl	*84*		*42 - 140*
2,4,6-Tribromophenol	*85*		*28 - 143*
Terphenyl-d14	*92*		*42 - 151*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14I0001-BLK1 — **Client Sample ID: Method Blank**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0001 — **Prep Batch: 14I0001_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		09/02/14 08:07	09/02/14 12:44	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		09/02/14 08:07	09/02/14 12:44	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*110*		*50 - 150*	*09/02/14 08:07*	*09/02/14 12:44*	*1.00*
n-Triacontane-d62	*107*		*50 - 150*	*09/02/14 08:07*	*09/02/14 12:44*	*1.00*

Lab Sample ID: 14I0001-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0001 — **Prep Batch: 14I0001_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	60.1		mg/kg wet		90.1	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*120*		*50 - 150*
n-Triacontane-d62	*116*		*50 - 150*

Lab Sample ID: 14I0001-DUP1 — **Client Sample ID: EX11-1-6**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0001 — **Prep Batch: 14I0001_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	10.9			12.8		mg/kg dry	☼			15.7	40
Heavy Oil Range Hydrocarbons	34.8			40.9		mg/kg dry	☼			16.0	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*117*		*50 - 150*
n-Triacontane-d62	*114*		*50 - 150*

Lab Sample ID: 14I0001-DUP2 — **Client Sample ID: Duplicate**
Matrix: Soil — **Prep Type: Total**
Analysis Batch: 14I0001 — **Prep Batch: 14I0001_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	7.33			11.2	R4	mg/kg dry	☼			42.1	40
Heavy Oil Range Hydrocarbons	8.54			11.6		mg/kg dry	☼			30.1	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*106*		*50 - 150*
n-Triacontane-d62	*103*		*50 - 150*

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 250-30033/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 30058 — **Prep Batch: 30033**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		09/02/14 10:08	09/02/14 17:54	1

Lab Sample ID: LCS 250-30033/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 30058 — **Prep Batch: 30033**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0992		mg/L		99	85 - 115

Lab Sample ID: 250-21110-C-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 30058 — **Prep Batch: 30033**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.100	0.100		mg/L		97	70 - 130

Lab Sample ID: 250-21107-A-11-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 30058 — **Prep Batch: 30033**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND		ND		mg/L		NC	20

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Lab Sample ID: 14I0014-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 14I0014 — **Prep Batch: 14I0014_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/03/14 08:47	09/03/14 14:58	1.00

Lab Sample ID: 14I0014-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 14I0014 — **Prep Batch: 14I0014_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	1.92		ug/L		96.0	85 - 115

Lab Sample ID: 14I0014-MS1 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 14I0014 — **Prep Batch: 14I0014_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		2.00	1.61		ug/L		80.5	70 - 130

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods (Continued)

Lab Sample ID: 14I0014-MSD1
Matrix: Water
Analysis Batch: 14I0014

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 14I0014_P

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		2.00	1.65		ug/L		82.5	70 - 130	2.45	18.2

Lab Sample ID: 14I0014-DUP1
Matrix: Water
Analysis Batch: 14I0014

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14I0014_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		ug/L					17.1

Client Sample ID: EX11-1-6

Lab Sample ID: SXH0199-01

Date Collected: 08/28/14 09:23

Matrix: Soil

Date Received: 08/29/14 09:52

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.903	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0003	09/02/14 12:24	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.903	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0003	09/02/14 12:24	CBW	TAL SPK
Total	Prep	EPA 3550B		0.924	14I0001_P	09/02/14 08:07	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14I0001	09/02/14 13:55	NMI	TAL SPK
Total	Prep	Wet Chem		1.00	14I0016_P	09/02/14 11:45	NI	TAL SPK
Total	Analysis	TA SOP		1.00	14I0016	09/03/14 09:54	NI	TAL SPK

Client Sample ID: EX11-2-10

Lab Sample ID: SXH0199-02

Date Collected: 08/28/14 14:40

Matrix: Soil

Date Received: 08/29/14 09:52

Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.912	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0003	09/02/14 12:47	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.912	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0003	09/02/14 12:47	CBW	TAL SPK
Total	Prep	EPA 3550B		0.952	14I0001_P	09/02/14 08:07	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14I0001	09/02/14 19:03	NMI	TAL SPK

Client Sample ID: EX11-3-4

Lab Sample ID: SXH0199-03

Date Collected: 08/28/14 14:10

Matrix: Soil

Date Received: 08/29/14 09:52

Percent Solids: 71.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.18	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0003	09/02/14 13:10	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.18	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0003	09/02/14 13:10	CBW	TAL SPK
Total	Prep	EPA 3550B		0.986	14I0001_P	09/02/14 08:07	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14I0001	09/02/14 14:43	NMI	TAL SPK

Client Sample ID: EX11-4-3

Lab Sample ID: SXH0199-04

Date Collected: 08/28/14 14:15

Matrix: Soil

Date Received: 08/29/14 09:52

Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.874	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0003	09/02/14 13:32	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.874	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0003	09/02/14 13:32	CBW	TAL SPK
Total	Prep	EPA 3550B		0.963	14I0001_P	09/02/14 08:07	IAB	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Client Sample ID: EX11-4-3

Lab Sample ID: SXH0199-04

Date Collected: 08/28/14 14:15
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Dx		1.00	14I0001	09/02/14 15:07	NMI	TAL SPK

Client Sample ID: EX11-5-3.25

Lab Sample ID: SXH0199-05

Date Collected: 08/28/14 14:30
Matrix: Soil
Date Received: 08/29/14 09:52
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.956	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0003	09/02/14 13:55	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.956	14I0003_P	09/02/14 10:27	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0003	09/02/14 13:55	CBW	TAL SPK
Total/NA	Prep	3550B			168810	09/04/14 12:15	RMB	TAL SEA
Total/NA	Analysis	8270C		1	168957	09/06/14 00:41	ERB	TAL SEA
Total	Prep	EPA 3550B		0.963	14I0001_P	09/02/14 08:07	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14I0001	09/02/14 19:27	NMI	TAL SPK
Total/NA	Analysis	D 2216		1	168773	09/04/14 10:12	LHJ	TAL SEA

Client Sample ID: Infiltration Pond 8/28/14

Lab Sample ID: SXH0199-06

Date Collected: 08/28/14 15:30
Matrix: Water
Date Received: 08/29/14 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			30033	09/02/14 15:37	KTN	TAL PRT
Total/NA	Analysis	200.8		1	30058	09/02/14 19:29	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14I0014_P	09/03/14 08:47	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14I0014	09/03/14 15:16	ZZZ	TAL SPK

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica Portland

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C586	06-23-15

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-113	07-25-15
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXH0199

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SEA
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
200.8	Metals (ICP/MS)	EPA	TAL PRT
EPA 245.1	Total Metals by EPA 200 Series Methods		TAL SPK
D 2216	Percent Moisture	ASTM	TAL SEA
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: JXH0199

CLIENT: GeoEngineers

REPORT TO: dlawder@geoengineers.com (Dave Lawder)
ADDRESS: 523 E Second Ave
Spokane WA 99202
PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: Cashmere

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JWTR

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	NWTPH-Gx	NWTPH-Dx	VOCs	SVOCs	Hg	As	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 Ex11-1-6	8/28/14 0923		X	X	X				S	3		
2 Ex11-2-10	8/28/14 1440		X	X	X				S	3		
3 Ex11-3-4	8/28/14 1410		X	X	X				S	3		
4 Ex11-4-3	8/28/14 1415		X	X	X				S	3		
5 Ex11-5-3.25	8/28/14 1430		X	X	X	X			S	4		
6 Infiltration-Pond-8/28/14	8/28/14 1530						X	X	W	1		
7												
8												
9												
10												

REQUESTED ANALYSES

RELEASED BY: [signature] DATE: 8/29/14
PRINT NAME: Justin Rice FIRM: Geo TIME: 0932

RECEIVED BY: [signature] DATE: 8-29-14
PRINT NAME: Cal Stapleton FIRM: TA TIME: 9:52

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 9.1

PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXH0199	Client: GeoEngineers	Project: Cashmere
Date/Time Received: 8-29-14 9:52	By: CS	

Samples Delivered By: ☐Shipping Service ☐Courier ☒Client ☐Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐Blue Ice ☐Gel Ice ☒Real Ice ☐Dry Ice ☐None ☐Other: _____

Temperature: 4.1 °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐Not enough ice ☒Ice melted ☐w/in 4hrs of collection ☐NA ☐Other: _____

Log-In Phase Date/Time: 8-29-14 10:00 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis	X			2days
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXI0031
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
9/11/2014 11:34:25 AM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Definitions 5
Client Sample Results 6
QC Sample Results 21
Chronicle 34
Certification Summary 37
Method Summary 38
Chain of Custody 39

Case Narrative

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Job ID: SXI0031

Laboratory: TestAmerica Seattle

Narrative

Receipt
The sample was received on 9/6/2014 10:10 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS Semi VOA Method(s) 8270C:
The continuing calibration verification (CCV) associated with batch 169302 recovered above the upper control limit for n-Octadecane and 2,2'-Oxybis(1-chloropropane). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (580-45261-1), (580-45261-1 MS), (580-45261-1 MSD), (CCVIS 580-169302/3), (LCS 580-169185/2-A), (LCSD 580-169185/3-A), (MB 580-169185/1-A), SXI0031-04 (580-45261-1).

Diethyl phthalate recovered below control limits for the LCS and LCSD associated with batch 169185. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Laboratory: TestAmerica Spokane

Narrative

Receipt
The sample(s) were received on 9/4/2014 3:50:00 PM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.8 ºC.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXI0031-01	EX12-1-2.5	Soil	09/04/14 09:35	09/04/14 15:50
SXI0031-02	EX12-2-3	Soil	09/04/14 10:03	09/04/14 15:50
SXI0031-03	EX12-3-2	Soil	09/04/14 10:20	09/04/14 15:50
SXI0031-04	EX12-4-3	Soil	09/04/14 11:15	09/04/14 15:50
SXI0031-05	EX12-6-8	Soil	09/04/14 11:30	09/04/14 15:50
SXI0031-06	EX12-7-6	Soil	09/04/14 11:40	09/04/14 15:50
SXI0031-07	EX12-5-3	Soil	09/04/14 11:00	09/04/14 15:50

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Fuels

Qualifier	Qualifier Description
Q6	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Client Sample ID: EX12-1-2.5
Date Collected: 09/04/14 09:35
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-01
Matrix: Soil
Percent Solids: 92.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.129	0.0120	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Chloromethane	ND		0.644	0.00682	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Vinyl chloride	ND		0.0772	0.00798	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Bromomethane	ND		0.644	0.0394	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Chloroethane	ND		0.129	0.0315	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Trichlorofluoromethane	ND		0.0386	0.0102	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,1-Dichloroethene	ND		0.129	0.0163	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Carbon disulfide	ND		0.129	0.0138	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Methylene chloride	ND		0.257	0.00669	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Acetone	ND		3.86	0.112	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
trans-1,2-Dichloroethene	ND		0.129	0.0133	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Methyl tert-butyl ether	ND		0.0644	0.00412	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,1-Dichloroethane	ND		0.129	0.0145	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
cis-1,2-Dichloroethene	ND		0.129	0.00734	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
2,2-Dichloropropane	ND		0.129	0.0219	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Bromochloromethane	ND		0.129	0.00502	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Chloroform	ND		0.129	0.00991	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Carbon tetrachloride	ND		0.129	0.0268	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,1,1-Trichloroethane	ND		0.129	0.0223	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
2-Butanone	ND		1.29	0.142	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Hexane	ND		0.129	0.0104	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,1-Dichloropropene	ND		0.129	0.0224	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Benzene	ND		0.0193	0.0125	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2-Dichloroethane (EDC)	ND		0.129	0.00631	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Trichloroethene	ND		0.0322	0.0165	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Dibromomethane	ND		0.129	0.0117	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2-Dichloropropane	ND		0.129	0.00772	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Bromodichloromethane	ND		0.129	0.00901	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
cis-1,3-Dichloropropene	ND		0.129	0.00798	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Toluene	ND		0.129	0.0171	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
4-Methyl-2-pentanone	ND		1.29	0.0263	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
trans-1,3-Dichloropropene	ND		0.129	0.00849	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Tetrachloroethene	ND		0.0515	0.0227	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,1,2-Trichloroethane	ND		0.129	0.00798	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Dibromochloromethane	ND		0.129	0.00772	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,3-Dichloropropane	ND		0.129	0.00952	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2-Dibromoethane	ND		0.0129	0.00746	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
2-Hexanone	ND		1.29	0.0598	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Ethylbenzene	ND		0.129	0.0208	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Chlorobenzene	ND		0.129	0.00978	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,1,1,2-Tetrachloroethane	ND		0.129	0.0131	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
m,p-Xylene	ND		0.515	0.0219	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
o-Xylene	ND		0.257	0.0169	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Styrene	ND		0.129	0.0120	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Bromoform	ND		0.129	0.0161	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Isopropylbenzene	ND		0.129	0.0245	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
n-Propylbenzene	ND		0.129	0.0266	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,1,2,2-Tetrachloroethane	ND		0.129	0.00965	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Bromobenzene	ND		0.129	0.0121	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00

Client Sample ID: EX12-1-2.5 — **Lab Sample ID: SXI0031-01**
Date Collected: 09/04/14 09:35 — **Matrix: Soil**
Date Received: 09/04/14 15:50 — **Percent Solids: 92.2**

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**0.0367**	**J**	0.129	0.0239	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
2-Chlorotoluene	ND		0.129	0.0210	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2,3-Trichloropropane	ND		0.129	0.0108	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
4-Chlorotoluene	ND		0.129	0.0184	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
tert-Butylbenzene	ND		0.129	0.0278	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2,4-Trimethylbenzene	**0.0592**	**J**	0.129	0.0187	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
sec-Butylbenzene	ND		0.129	0.0302	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
p-Isopropyltoluene	ND		0.129	0.0308	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,3-Dichlorobenzene	ND		0.129	0.0162	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,4-Dichlorobenzene	ND		0.129	0.0136	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
n-Butylbenzene	ND		0.129	0.0354	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2-Dichlorobenzene	ND		0.129	0.00978	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2-Dibromo-3-chloropropane	ND		0.644	0.0366	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Hexachlorobutadiene	ND		0.129	0.0734	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2,4-Trichlorobenzene	ND		0.129	0.0256	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
Naphthalene	ND		0.257	0.0175	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00
1,2,3-Trichlorobenzene	ND		0.129	0.0457	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*80 - 120*	*09/05/14 11:06*	*09/05/14 13:13*	*1.00*
1,2-dichloroethane-d4	*97.5*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 13:13*	*1.00*
Toluene-d8	*99.9*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 13:13*	*1.00*
4-bromofluorobenzene	*148*	*ZX*	*69.8 - 140*	*09/05/14 11:06*	*09/05/14 13:13*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**76.2**		6.44		mg/kg dry	☼	09/05/14 11:06	09/05/14 13:13	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*148*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 13:13*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**914**		106		mg/kg dry	☼	09/05/14 08:31	09/08/14 12:10	10.0
Heavy Oil Range Hydrocarbons	**2800**		265		mg/kg dry	☼	09/05/14 08:31	09/08/14 12:10	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*		*50 - 150*	*09/05/14 08:31*	*09/08/14 12:10*	*10.0*
n-Triacontane-d62	*134*		*50 - 150*	*09/05/14 08:31*	*09/08/14 12:10*	*10.0*

Client Sample ID: EX12-2-3 — **Lab Sample ID: SXI0031-02**
Date Collected: 09/04/14 10:03 — **Matrix: Soil**
Date Received: 09/04/14 15:50 — **Percent Solids: 69.4**

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.194	0.0181	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Chloromethane	ND		0.971	0.0103	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Vinyl chloride	ND		0.117	0.0120	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Bromomethane	ND		0.971	0.0594	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Chloroethane	ND		0.194	0.0476	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Client Sample ID: EX12-2-3
Date Collected: 09/04/14 10:03
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-02
Matrix: Soil
Percent Solids: 69.4

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.0583	0.0153	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,1-Dichloroethene	ND		0.194	0.0247	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Carbon disulfide	ND		0.194	0.0208	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Methylene chloride	ND		0.388	0.0101	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Acetone	ND		5.83	0.169	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
trans-1,2-Dichloroethene	ND		0.194	0.0200	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Methyl tert-butyl ether	ND		0.0971	0.00621	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,1-Dichloroethane	ND		0.194	0.0219	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
cis-1,2-Dichloroethene	ND		0.194	0.0111	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
2,2-Dichloropropane	ND		0.194	0.0330	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Bromochloromethane	ND		0.194	0.00757	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Chloroform	ND		0.194	0.0150	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Carbon tetrachloride	ND		0.194	0.0404	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,1,1-Trichloroethane	ND		0.194	0.0336	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
2-Butanone	ND		1.94	0.214	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Hexane	ND		0.194	0.0157	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,1-Dichloropropene	ND		0.194	0.0338	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Benzene	ND		0.0291	0.0188	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2-Dichloroethane (EDC)	ND		0.194	0.00952	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Trichloroethene	ND		0.0485	0.0249	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Dibromomethane	ND		0.194	0.0177	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2-Dichloropropane	ND		0.194	0.0117	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Bromodichloromethane	ND		0.194	0.0136	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
cis-1,3-Dichloropropene	ND		0.194	0.0120	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Toluene	ND		0.194	0.0258	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
4-Methyl-2-pentanone	ND		1.94	0.0396	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
trans-1,3-Dichloropropene	ND		0.194	0.0128	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Tetrachloroethene	ND		0.0777	0.0342	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,1,2-Trichloroethane	ND		0.194	0.0120	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Dibromochloromethane	ND		0.194	0.0117	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,3-Dichloropropane	ND		0.194	0.0144	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2-Dibromoethane	ND		0.0194	0.0113	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
2-Hexanone	ND		1.94	0.0903	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Ethylbenzene	ND		0.194	0.0315	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Chlorobenzene	ND		0.194	0.0148	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,1,1,2-Tetrachloroethane	ND		0.194	0.0198	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
m,p-Xylene	ND		0.777	0.0330	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
o-Xylene	ND		0.388	0.0254	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Styrene	ND		0.194	0.0181	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Bromoform	ND		0.194	0.0243	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Isopropylbenzene	ND		0.194	0.0369	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
n-Propylbenzene	ND		0.194	0.0402	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,1,2,2-Tetrachloroethane	ND		0.194	0.0146	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Bromobenzene	ND		0.194	0.0183	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,3,5-Trimethylbenzene	ND		0.194	0.0361	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
2-Chlorotoluene	ND		0.194	0.0317	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2,3-Trichloropropane	ND		0.194	0.0163	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
4-Chlorotoluene	ND		0.194	0.0278	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
tert-Butylbenzene	ND		0.194	0.0419	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00

Client Sample ID: EX12-2-3

Date Collected: 09/04/14 10:03
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-02

Matrix: Soil
Percent Solids: 69.4

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.194	0.0282	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
sec-Butylbenzene	ND		0.194	0.0456	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
p-Isopropyltoluene	ND		0.194	0.0464	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,3-Dichlorobenzene	ND		0.194	0.0245	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,4-Dichlorobenzene	ND		0.194	0.0206	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
n-Butylbenzene	ND		0.194	0.0534	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2-Dichlorobenzene	ND		0.194	0.0148	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2-Dibromo-3-chloropropane	ND		0.971	0.0551	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Hexachlorobutadiene	ND		0.194	0.111	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2,4-Trichlorobenzene	ND		0.194	0.0386	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
Naphthalene	ND		0.388	0.0264	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00
1,2,3-Trichlorobenzene	ND		0.194	0.0689	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*80 - 120*	*09/05/14 11:06*	*09/05/14 13:35*	*1.00*
1,2-dichloroethane-d4	*88.1*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 13:35*	*1.00*
Toluene-d8	*102*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 13:35*	*1.00*
4-bromofluorobenzene	*105*		*69.8 - 140*	*09/05/14 11:06*	*09/05/14 13:35*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		9.71		mg/kg dry	☼	09/05/14 11:06	09/05/14 13:35	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*105*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 13:35*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**718**	**Q6**	69.3		mg/kg dry	☼	09/05/14 08:31	09/08/14 12:33	5.00
Heavy Oil Range Hydrocarbons	**3430**		173		mg/kg dry	☼	09/05/14 08:31	09/08/14 12:33	5.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*110*		*50 - 150*	*09/05/14 08:31*	*09/08/14 12:33*	*5.00*
n-Triacontane-d62	*133*		*50 - 150*	*09/05/14 08:31*	*09/08/14 12:33*	*5.00*

Client Sample ID: EX12-3-2

Date Collected: 09/04/14 10:20
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-03

Matrix: Soil
Percent Solids: 93.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0982	0.00913	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Chloromethane	ND		0.491	0.00521	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Vinyl chloride	ND		0.0589	0.00609	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Bromomethane	ND		0.491	0.0301	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Chloroethane	ND		0.0982	0.0241	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Trichlorofluoromethane	ND		0.0295	0.00776	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,1-Dichloroethene	ND		0.0982	0.0125	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Carbon disulfide	ND		0.0982	0.0105	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Methylene chloride	ND		0.196	0.00511	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Acetone	ND		2.95	0.0854	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Client Sample ID: EX12-3-2
Date Collected: 09/04/14 10:20
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-03
Matrix: Soil
Percent Solids: 93.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.0982	0.0101	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Methyl tert-butyl ether	ND		0.0491	0.00314	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,1-Dichloroethane	ND		0.0982	0.0111	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
cis-1,2-Dichloroethene	ND		0.0982	0.00560	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
2,2-Dichloropropane	ND		0.0982	0.0167	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Bromochloromethane	ND		0.0982	0.00383	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Chloroform	ND		0.0982	0.00756	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Carbon tetrachloride	ND		0.0982	0.0204	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,1,1-Trichloroethane	ND		0.0982	0.0170	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
2-Butanone	ND		0.982	0.108	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Hexane	ND		0.0982	0.00795	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,1-Dichloropropene	ND		0.0982	0.0171	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Benzene	ND		0.0147	0.00953	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2-Dichloroethane (EDC)	ND		0.0982	0.00481	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Trichloroethene	ND		0.0246	0.0126	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Dibromomethane	ND		0.0982	0.00894	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2-Dichloropropane	ND		0.0982	0.00589	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Bromodichloromethane	ND		0.0982	0.00687	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
cis-1,3-Dichloropropene	ND		0.0982	0.00609	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Toluene	ND		0.0982	0.0131	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
4-Methyl-2-pentanone	ND		0.982	0.0200	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
trans-1,3-Dichloropropene	ND		0.0982	0.00648	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Tetrachloroethene	ND		0.0393	0.0173	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,1,2-Trichloroethane	ND		0.0982	0.00609	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Dibromochloromethane	**0.0137**	**J**	0.0982	0.00589	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,3-Dichloropropane	ND		0.0982	0.00727	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2-Dibromoethane	ND		0.00982	0.00570	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
2-Hexanone	ND		0.982	0.0457	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Ethylbenzene	ND		0.0982	0.0159	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Chlorobenzene	ND		0.0982	0.00746	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,1,1,2-Tetrachloroethane	ND		0.0982	0.0100	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
m,p-Xylene	ND		0.393	0.0167	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
o-Xylene	ND		0.196	0.0129	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Styrene	ND		0.0982	0.00913	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Bromoform	ND		0.0982	0.0123	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Isopropylbenzene	ND		0.0982	0.0187	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
n-Propylbenzene	ND		0.0982	0.0203	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,1,2,2-Tetrachloroethane	ND		0.0982	0.00737	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Bromobenzene	ND		0.0982	0.00923	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,3,5-Trimethylbenzene	ND		0.0982	0.0183	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
2-Chlorotoluene	ND		0.0982	0.0160	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2,3-Trichloropropane	ND		0.0982	0.00825	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
4-Chlorotoluene	ND		0.0982	0.0140	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
tert-Butylbenzene	ND		0.0982	0.0212	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2,4-Trimethylbenzene	**0.0334**	**J**	0.0982	0.0142	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
sec-Butylbenzene	ND		0.0982	0.0231	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
p-Isopropyltoluene	ND		0.0982	0.0235	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,3-Dichlorobenzene	ND		0.0982	0.0124	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,4-Dichlorobenzene	ND		0.0982	0.0104	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00

Client Sample ID: EX12-3-2

Lab Sample ID: SXI0031-03

Date Collected: 09/04/14 10:20
Matrix: Soil
Date Received: 09/04/14 15:50
Percent Solids: 93.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.0982	0.0270	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2-Dichlorobenzene	ND		0.0982	0.00746	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2-Dibromo-3-chloropropane	ND		0.491	0.0279	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Hexachlorobutadiene	ND		0.0982	0.0560	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2,4-Trichlorobenzene	ND		0.0982	0.0195	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
Naphthalene	**0.0373**	**J**	0.196	0.0134	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00
1,2,3-Trichlorobenzene	ND		0.0982	0.0349	mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*80 - 120*	*09/05/14 11:06*	*09/05/14 13:57*	*1.00*
1,2-dichloroethane-d4	*88.3*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 13:57*	*1.00*
Toluene-d8	*102*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 13:57*	*1.00*
4-bromofluorobenzene	*112*		*69.8 - 140*	*09/05/14 11:06*	*09/05/14 13:57*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**7.45**		4.91		mg/kg dry	☼	09/05/14 11:06	09/05/14 13:57	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*112*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 13:57*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**363**	**Q6**	99.4		mg/kg dry	☼	09/05/14 08:31	09/08/14 12:56	10.0
Heavy Oil Range Hydrocarbons	**1420**		248		mg/kg dry	☼	09/05/14 08:31	09/08/14 12:56	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*127*		*50 - 150*	*09/05/14 08:31*	*09/08/14 12:56*	*10.0*
n-Triacontane-d62	*109*		*50 - 150*	*09/05/14 08:31*	*09/08/14 12:56*	*10.0*

Client Sample ID: EX12-4-3

Lab Sample ID: SXI0031-04

Date Collected: 09/04/14 11:15
Matrix: Soil
Date Received: 09/04/14 15:50
Percent Solids: 80.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.125	0.0116	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Chloromethane	ND		0.624	0.00661	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Vinyl chloride	ND		0.0749	0.00774	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Bromomethane	ND		0.624	0.0382	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Chloroethane	ND		0.125	0.0306	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Trichlorofluoromethane	ND		0.0374	0.00986	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,1-Dichloroethene	ND		0.125	0.0158	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Carbon disulfide	ND		0.125	0.0133	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Methylene chloride	ND		0.250	0.00649	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Acetone	ND		3.74	0.109	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
trans-1,2-Dichloroethene	ND		0.125	0.0129	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Methyl tert-butyl ether	ND		0.0624	0.00399	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,1-Dichloroethane	ND		0.125	0.0141	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
cis-1,2-Dichloroethene	ND		0.125	0.00711	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
2,2-Dichloropropane	ND		0.125	0.0212	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Client Sample ID: EX12-4-3
Date Collected: 09/04/14 11:15
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-04
Matrix: Soil
Percent Solids: 80.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.125	0.00487	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Chloroform	ND		0.125	0.00961	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Carbon tetrachloride	ND		0.125	0.0259	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,1,1-Trichloroethane	ND		0.125	0.0216	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
2-Butanone	ND		1.25	0.137	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Hexane	ND		0.125	0.0101	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,1-Dichloropropene	ND		0.125	0.0217	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Benzene	ND		0.0187	0.0121	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2-Dichloroethane (EDC)	ND		0.125	0.00611	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Trichloroethene	ND		0.0312	0.0160	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Dibromomethane	ND		0.125	0.0114	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2-Dichloropropane	ND		0.125	0.00749	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Bromodichloromethane	ND		0.125	0.00873	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
cis-1,3-Dichloropropene	ND		0.125	0.00774	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Toluene	ND		0.125	0.0166	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
4-Methyl-2-pentanone	ND		1.25	0.0255	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
trans-1,3-Dichloropropene	ND		0.125	0.00823	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Tetrachloroethene	ND		0.0499	0.0220	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,1,2-Trichloroethane	ND		0.125	0.00774	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Dibromochloromethane	**0.0274**	**J**	0.125	0.00749	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,3-Dichloropropane	ND		0.125	0.00923	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2-Dibromoethane	ND		0.0125	0.00724	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
2-Hexanone	ND		1.25	0.0580	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Ethylbenzene	ND		0.125	0.0202	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Chlorobenzene	ND		0.125	0.00948	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,1,1,2-Tetrachloroethane	ND		0.125	0.0127	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
m,p-Xylene	ND		0.499	0.0212	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
o-Xylene	ND		0.250	0.0163	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Styrene	ND		0.125	0.0116	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Bromoform	ND		0.125	0.0156	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Isopropylbenzene	ND		0.125	0.0237	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
n-Propylbenzene	ND		0.125	0.0258	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,1,2,2-Tetrachloroethane	ND		0.125	0.00936	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Bromobenzene	ND		0.125	0.0117	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,3,5-Trimethylbenzene	ND		0.125	0.0232	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
2-Chlorotoluene	ND		0.125	0.0203	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2,3-Trichloropropane	ND		0.125	0.0105	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
4-Chlorotoluene	ND		0.125	0.0178	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
tert-Butylbenzene	ND		0.125	0.0269	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2,4-Trimethylbenzene	ND		0.125	0.0181	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
sec-Butylbenzene	ND		0.125	0.0293	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
p-Isopropyltoluene	ND		0.125	0.0298	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,3-Dichlorobenzene	ND		0.125	0.0157	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,4-Dichlorobenzene	ND		0.125	0.0132	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
n-Butylbenzene	ND		0.125	0.0343	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2-Dichlorobenzene	ND		0.125	0.00948	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2-Dibromo-3-chloropropane	ND		0.624	0.0354	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
Hexachlorobutadiene	ND		0.125	0.0711	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2,4-Trichlorobenzene	ND		0.125	0.0248	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00

Client Sample ID: EX12-4-3
Date Collected: 09/04/14 11:15
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-04
Matrix: Soil
Percent Solids: 80.2

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.250	0.0170	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00
1,2,3-Trichlorobenzene	ND		0.125	0.0443	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*80 - 120*	*09/05/14 11:06*	*09/05/14 14:20*	*1.00*
1,2-dichloroethane-d4	*86.5*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 14:20*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 14:20*	*1.00*
4-bromofluorobenzene	*105*		*69.8 - 140*	*09/05/14 11:06*	*09/05/14 14:20*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.24		mg/kg dry	☼	09/05/14 11:06	09/05/14 14:20	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*105*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 14:20*	*1.00*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Bis(2-chloroethyl)ether	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2-Chlorophenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
1,3-Dichlorobenzene	ND		61		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
1,4-Dichlorobenzene	ND		61		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Benzyl alcohol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
1,2-Dichlorobenzene	ND		67		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2-Methylphenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
3 & 4 Methylphenol	ND		240		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
N-Nitrosodi-n-propylamine	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Hexachloroethane	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Nitrobenzene	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Isophorone	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2-Nitrophenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2,4-Dimethylphenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Benzoic acid	ND		3100		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Bis(2-chloroethoxy)methane	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2,4-Dichlorophenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
1,2,4-Trichlorobenzene	ND		61		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Naphthalene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
4-Chloroaniline	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Hexachlorobutadiene	ND		61		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
4-Chloro-3-methylphenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2-Methylnaphthalene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Hexachlorocyclopentadiene	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2,4,6-Trichlorophenol	ND		180		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2,4,5-Trichlorophenol	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2-Chloronaphthalene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2-Nitroaniline	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Dimethyl phthalate	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Acenaphthylene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2,6-Dinitrotoluene	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Client Sample ID: EX12-4-3
Date Collected: 09/04/14 11:15
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-04
Matrix: Soil
Percent Solids: 80.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Acenaphthene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2,4-Dinitrophenol	ND		1200		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
4-Nitrophenol	ND		1200		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Dibenzofuran	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
2,4-Dinitrotoluene	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Diethyl phthalate	ND	*	240		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
4-Chlorophenyl phenyl ether	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Fluorene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
4-Nitroaniline	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
4,6-Dinitro-2-methylphenol	ND		1200		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
N-Nitrosodiphenylamine	ND		61		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
4-Bromophenyl phenyl ether	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Hexachlorobenzene	ND		61		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Pentachlorophenol	ND		240		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Phenanthrene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Anthracene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Di-n-butyl phthalate	ND		610		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Fluoranthene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Pyrene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Butyl benzyl phthalate	ND		240		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
3,3'-Dichlorobenzidine	ND		240		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Benzo[a]anthracene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Chrysene	ND		31		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Bis(2-ethylhexyl) phthalate	ND		730		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Di-n-octyl phthalate	ND		610		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Benzo[a]pyrene	ND		37		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Dibenz(a,h)anthracene	ND		49		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Benzo[g,h,i]perylene	ND		31		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Carbazole	ND		120		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
1-Methylnaphthalene	ND		37		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Benzo[b]fluoranthene	ND		24		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
Benzo[k]fluoranthene	ND		31		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1
bis (2-chloroisopropyl) ether	ND	^	310		ug/Kg	☼	09/09/14 09:10	09/10/14 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*76*		*36 - 145*	*09/09/14 09:10*	*09/10/14 13:52*	*1*
Phenol-d5	*83*		*38 - 149*	*09/09/14 09:10*	*09/10/14 13:52*	*1*
Nitrobenzene-d5	*86*		*38 - 141*	*09/09/14 09:10*	*09/10/14 13:52*	*1*
2-Fluorobiphenyl	*75*		*42 - 140*	*09/09/14 09:10*	*09/10/14 13:52*	*1*
2,4,6-Tribromophenol	*82*		*28 - 143*	*09/09/14 09:10*	*09/10/14 13:52*	*1*
Terphenyl-d14	*83*		*42 - 151*	*09/09/14 09:10*	*09/10/14 13:52*	*1*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**12.3**		11.2		mg/kg dry	☼	09/05/14 08:31	09/08/14 13:19	1.00
Heavy Oil Range Hydrocarbons	**38.1**		28.1		mg/kg dry	☼	09/05/14 08:31	09/08/14 13:19	1.00

Client Sample ID: EX12-4-3

Lab Sample ID: SXI0031-04

Date Collected: 09/04/14 11:15

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 80.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*113*		*50 - 150*	*09/05/14 08:31*	*09/08/14 13:19*	*1.00*
n-Triacontane-d62	*112*		*50 - 150*	*09/05/14 08:31*	*09/08/14 13:19*	*1.00*

Client Sample ID: EX12-6-8

Lab Sample ID: SXI0031-05

Date Collected: 09/04/14 11:30

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 90.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.112	0.0105	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Chloromethane	ND		0.562	0.00596	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Vinyl chloride	ND		0.0675	0.00697	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Bromomethane	ND		0.562	0.0344	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Chloroethane	ND		0.112	0.0275	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Trichlorofluoromethane	ND		0.0337	0.00888	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,1-Dichloroethene	ND		0.112	0.0143	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Carbon disulfide	ND		0.112	0.0120	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Methylene chloride	ND		0.225	0.00585	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Acetone	ND		3.37	0.0978	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
trans-1,2-Dichloroethene	ND		0.112	0.0116	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Methyl tert-butyl ether	ND		0.0562	0.00360	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,1-Dichloroethane	ND		0.112	0.0127	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
cis-1,2-Dichloroethene	ND		0.112	0.00641	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
2,2-Dichloropropane	ND		0.112	0.0191	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Bromochloromethane	ND		0.112	0.00438	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Chloroform	ND		0.112	0.00866	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Carbon tetrachloride	ND		0.112	0.0234	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,1,1-Trichloroethane	ND		0.112	0.0195	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
2-Butanone	ND		1.12	0.124	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Hexane	ND		0.112	0.00911	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,1-Dichloropropene	ND		0.112	0.0196	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Benzene	ND		0.0169	0.0109	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2-Dichloroethane (EDC)	ND		0.112	0.00551	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Trichloroethene	ND		0.0281	0.0144	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Dibromomethane	ND		0.112	0.0102	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2-Dichloropropane	ND		0.112	0.00675	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Bromodichloromethane	ND		0.112	0.00787	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
cis-1,3-Dichloropropene	ND		0.112	0.00697	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Toluene	ND		0.112	0.0150	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
4-Methyl-2-pentanone	ND		1.12	0.0229	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
trans-1,3-Dichloropropene	ND		0.112	0.00742	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Tetrachloroethene	ND		0.0450	0.0198	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,1,2-Trichloroethane	ND		0.112	0.00697	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Dibromochloromethane	**0.0157**	**J**	0.112	0.00675	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,3-Dichloropropane	ND		0.112	0.00832	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2-Dibromoethane	ND		0.0112	0.00652	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
2-Hexanone	ND		1.12	0.0523	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Ethylbenzene	ND		0.112	0.0182	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Chlorobenzene	ND		0.112	0.00854	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,1,1,2-Tetrachloroethane	ND		0.112	0.0115	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00

Client Sample ID: EX12-6-8
Date Collected: 09/04/14 11:30
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-05
Matrix: Soil
Percent Solids: 90.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	**0.0410**	**J**	0.450	0.0191	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
o-Xylene	ND		0.225	0.0147	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Styrene	ND		0.112	0.0105	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Bromoform	ND		0.112	0.0141	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Isopropylbenzene	ND		0.112	0.0214	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
n-Propylbenzene	ND		0.112	0.0233	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,1,2,2-Tetrachloroethane	ND		0.112	0.00843	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Bromobenzene	ND		0.112	0.0106	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,3,5-Trimethylbenzene	**0.0433**	**J**	0.112	0.0209	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
2-Chlorotoluene	ND		0.112	0.0183	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2,3-Trichloropropane	ND		0.112	0.00944	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
4-Chlorotoluene	ND		0.112	0.0161	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
tert-Butylbenzene	ND		0.112	0.0243	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2,4-Trimethylbenzene	**0.125**		0.112	0.0163	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
sec-Butylbenzene	ND		0.112	0.0264	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
p-Isopropyltoluene	ND		0.112	0.0269	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,3-Dichlorobenzene	ND		0.112	0.0142	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,4-Dichlorobenzene	ND		0.112	0.0119	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
n-Butylbenzene	ND		0.112	0.0309	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2-Dichlorobenzene	ND		0.112	0.00854	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2-Dibromo-3-chloropropane	ND		0.562	0.0319	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Hexachlorobutadiene	ND		0.112	0.0641	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2,4-Trichlorobenzene	ND		0.112	0.0224	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
Naphthalene	**0.0292**	**J**	0.225	0.0153	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00
1,2,3-Trichlorobenzene	ND		0.112	0.0399	mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*80 - 120*	*09/05/14 11:06*	*09/05/14 14:42*	*1.00*
1,2-dichloroethane-d4	*89.2*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 14:42*	*1.00*
Toluene-d8	*101*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 14:42*	*1.00*
4-bromofluorobenzene	*115*		*69.8 - 140*	*09/05/14 11:06*	*09/05/14 14:42*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	**11.6**		5.62		mg/kg dry	☼	09/05/14 11:06	09/05/14 14:42	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*115*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 14:42*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**178**	**Q6**	110		mg/kg dry	☼	09/05/14 08:31	09/08/14 13:39	10.0
Heavy Oil Range Hydrocarbons	**984**		276		mg/kg dry	☼	09/05/14 08:31	09/08/14 13:39	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*112*		*50 - 150*	*09/05/14 08:31*	*09/08/14 13:39*	*10.0*
n-Triacontane-d62	*104*		*50 - 150*	*09/05/14 08:31*	*09/08/14 13:39*	*10.0*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Client Sample ID: EX12-7-6
Date Collected: 09/04/14 11:40
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-06
Matrix: Soil
Percent Solids: 94.6

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.107	0.00997	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Chloromethane	ND		0.536	0.00568	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Vinyl chloride	ND		0.0643	0.00664	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Bromomethane	ND		0.536	0.0328	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Chloroethane	ND		0.107	0.0263	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Trichlorofluoromethane	ND		0.0321	0.00847	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,1-Dichloroethene	ND		0.107	0.0136	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Carbon disulfide	ND		0.107	0.0115	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Methylene chloride	ND		0.214	0.00557	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Acetone	ND		3.21	0.0932	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
trans-1,2-Dichloroethene	ND		0.107	0.0110	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Methyl tert-butyl ether	ND		0.0536	0.00343	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,1-Dichloroethane	ND		0.107	0.0121	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
cis-1,2-Dichloroethene	ND		0.107	0.00611	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
2,2-Dichloropropane	ND		0.107	0.0182	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Bromochloromethane	ND		0.107	0.00418	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Chloroform	ND		0.107	0.00825	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Carbon tetrachloride	ND		0.107	0.0223	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,1,1-Trichloroethane	ND		0.107	0.0185	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
2-Butanone	ND		1.07	0.118	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Hexane	ND		0.107	0.00868	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,1-Dichloropropene	ND		0.107	0.0186	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Benzene	ND		0.0161	0.0104	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2-Dichloroethane (EDC)	ND		0.107	0.00525	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Trichloroethene	ND		0.0268	0.0137	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Dibromomethane	ND		0.107	0.00975	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2-Dichloropropane	ND		0.107	0.00643	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Bromodichloromethane	ND		0.107	0.00750	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
cis-1,3-Dichloropropene	ND		0.107	0.00664	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Toluene	ND		0.107	0.0143	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
4-Methyl-2-pentanone	ND		1.07	0.0219	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
trans-1,3-Dichloropropene	ND		0.107	0.00707	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Tetrachloroethene	ND		0.0429	0.0189	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,1,2-Trichloroethane	ND		0.107	0.00664	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Dibromochloromethane	**0.0129**	**J**	0.107	0.00643	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,3-Dichloropropane	ND		0.107	0.00793	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2-Dibromoethane	ND		0.0107	0.00622	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
2-Hexanone	ND		1.07	0.0498	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Ethylbenzene	ND		0.107	0.0174	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Chlorobenzene	ND		0.107	0.00814	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,1,1,2-Tetrachloroethane	ND		0.107	0.0109	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
m,p-Xylene	ND		0.429	0.0182	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
o-Xylene	ND		0.214	0.0140	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Styrene	ND		0.107	0.00997	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Bromoform	ND		0.107	0.0134	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Isopropylbenzene	ND		0.107	0.0204	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
n-Propylbenzene	ND		0.107	0.0222	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,1,2,2-Tetrachloroethane	ND		0.107	0.00804	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Bromobenzene	ND		0.107	0.0101	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00

Client Sample ID: EX12-7-6

Lab Sample ID: SXI0031-06

Date Collected: 09/04/14 11:40
Matrix: Soil
Date Received: 09/04/14 15:50
Percent Solids: 94.6

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.107	0.0199	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
2-Chlorotoluene	ND		0.107	0.0175	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2,3-Trichloropropane	ND		0.107	0.00900	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
4-Chlorotoluene	ND		0.107	0.0153	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
tert-Butylbenzene	ND		0.107	0.0231	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2,4-Trimethylbenzene	ND		0.107	0.0155	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
sec-Butylbenzene	ND		0.107	0.0252	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
p-Isopropyltoluene	ND		0.107	0.0256	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,3-Dichlorobenzene	ND		0.107	0.0135	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,4-Dichlorobenzene	ND		0.107	0.0114	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
n-Butylbenzene	ND		0.107	0.0295	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2-Dichlorobenzene	ND		0.107	0.00814	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2-Dibromo-3-chloropropane	ND		0.536	0.0304	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Hexachlorobutadiene	ND		0.107	0.0611	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2,4-Trichlorobenzene	ND		0.107	0.0213	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
Naphthalene	ND		0.214	0.0146	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00
1,2,3-Trichlorobenzene	ND		0.107	0.0380	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*99.8*		*80 - 120*	*09/05/14 11:06*	*09/05/14 15:04*	*1.00*
1,2-dichloroethane-d4	*90.0*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 15:04*	*1.00*
Toluene-d8	*102*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 15:04*	*1.00*
4-bromofluorobenzene	*105*		*69.8 - 140*	*09/05/14 11:06*	*09/05/14 15:04*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.36		mg/kg dry	☼	09/05/14 11:06	09/05/14 15:04	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*105*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 15:04*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**61.7**		48.5		mg/kg dry	☼	09/05/14 08:31	09/08/14 14:00	5.00
Heavy Oil Range Hydrocarbons	**213**		121		mg/kg dry	☼	09/05/14 08:31	09/08/14 14:00	5.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*117*		*50 - 150*	*09/05/14 08:31*	*09/08/14 14:00*	*5.00*
n-Triacontane-d62	*110*		*50 - 150*	*09/05/14 08:31*	*09/08/14 14:00*	*5.00*

Client Sample ID: EX12-5-3

Lab Sample ID: SXI0031-07

Date Collected: 09/04/14 11:00
Matrix: Soil
Date Received: 09/04/14 15:50
Percent Solids: 70.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.195	0.0181	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Chloromethane	ND		0.973	0.0103	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Vinyl chloride	ND		0.117	0.0121	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Bromomethane	ND		0.973	0.0595	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Chloroethane	ND		0.195	0.0477	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Client Sample ID: EX12-5-3
Date Collected: 09/04/14 11:00
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-07
Matrix: Soil
Percent Solids: 70.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.0584	0.0154	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,1-Dichloroethene	ND		0.195	0.0247	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Carbon disulfide	ND		0.195	0.0208	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Methylene chloride	ND		0.389	0.0101	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Acetone	ND		5.84	0.169	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
trans-1,2-Dichloroethene	ND		0.195	0.0200	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Methyl tert-butyl ether	ND		0.0973	0.00623	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,1-Dichloroethane	ND		0.195	0.0220	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
cis-1,2-Dichloroethene	ND		0.195	0.0111	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
2,2-Dichloropropane	ND		0.195	0.0331	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Bromochloromethane	ND		0.195	0.00759	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Chloroform	ND		0.195	0.0150	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Carbon tetrachloride	ND		0.195	0.0405	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,1,1-Trichloroethane	ND		0.195	0.0337	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
2-Butanone	ND		1.95	0.214	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Hexane	ND		0.195	0.0158	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,1-Dichloropropene	ND		0.195	0.0339	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Benzene	ND		0.0292	0.0189	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2-Dichloroethane (EDC)	ND		0.195	0.00953	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Trichloroethene	ND		0.0486	0.0249	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Dibromomethane	ND		0.195	0.0177	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2-Dichloropropane	ND		0.195	0.0117	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Bromodichloromethane	ND		0.195	0.0136	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
cis-1,3-Dichloropropene	ND		0.195	0.0121	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Toluene	ND		0.195	0.0259	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
4-Methyl-2-pentanone	ND		1.95	0.0397	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
trans-1,3-Dichloropropene	ND		0.195	0.0128	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Tetrachloroethene	ND		0.0778	0.0342	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,1,2-Trichloroethane	ND		0.195	0.0121	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Dibromochloromethane	**0.0243**	**J**	0.195	0.0117	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,3-Dichloropropane	ND		0.195	0.0144	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2-Dibromoethane	ND		0.0195	0.0113	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
2-Hexanone	ND		1.95	0.0905	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Ethylbenzene	ND		0.195	0.0315	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Chlorobenzene	ND		0.195	0.0148	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,1,1,2-Tetrachloroethane	ND		0.195	0.0198	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
m,p-Xylene	ND		0.778	0.0331	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
o-Xylene	ND		0.389	0.0255	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Styrene	ND		0.195	0.0181	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Bromoform	ND		0.195	0.0243	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Isopropylbenzene	ND		0.195	0.0370	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
n-Propylbenzene	ND		0.195	0.0403	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,1,2,2-Tetrachloroethane	ND		0.195	0.0146	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Bromobenzene	ND		0.195	0.0183	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,3,5-Trimethylbenzene	**0.0447**	**J**	0.195	0.0362	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
2-Chlorotoluene	ND		0.195	0.0317	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2,3-Trichloropropane	ND		0.195	0.0163	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
4-Chlorotoluene	ND		0.195	0.0278	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
tert-Butylbenzene	ND		0.195	0.0420	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00

Client Sample ID: EX12-5-3
Date Collected: 09/04/14 11:00
Date Received: 09/04/14 15:50

Lab Sample ID: SXI0031-07
Matrix: Soil
Percent Solids: 70.3

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**0.0856**	**J**	0.195	0.0282	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
sec-Butylbenzene	ND		0.195	0.0457	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
p-Isopropyltoluene	ND		0.195	0.0465	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,3-Dichlorobenzene	ND		0.195	0.0245	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,4-Dichlorobenzene	ND		0.195	0.0206	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
n-Butylbenzene	ND		0.195	0.0535	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2-Dichlorobenzene	ND		0.195	0.0148	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2-Dibromo-3-chloropropane	ND		0.973	0.0553	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Hexachlorobutadiene	ND		0.195	0.111	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2,4-Trichlorobenzene	ND		0.195	0.0387	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
Naphthalene	ND		0.389	0.0265	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00
1,2,3-Trichlorobenzene	ND		0.195	0.0691	mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*80 - 120*	*09/05/14 11:06*	*09/05/14 15:26*	*1.00*
1,2-dichloroethane-d4	*89.1*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 15:26*	*1.00*
Toluene-d8	*101*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 15:26*	*1.00*
4-bromofluorobenzene	*106*		*69.8 - 140*	*09/05/14 11:06*	*09/05/14 15:26*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		9.73		mg/kg dry	☼	09/05/14 11:06	09/05/14 15:26	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*106*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 15:26*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**215**	**Q6**	140		mg/kg dry	☼	09/05/14 08:31	09/08/14 14:23	10.0
Heavy Oil Range Hydrocarbons	**1390**		350		mg/kg dry	☼	09/05/14 08:31	09/08/14 14:23	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*50 - 150*	*09/05/14 08:31*	*09/08/14 14:23*	*10.0*
n-Triacontane-d62	*108*		*50 - 150*	*09/05/14 08:31*	*09/08/14 14:23*	*10.0*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14I0037-BLK1
Matrix: Soil
Analysis Batch: 14I0037

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0037_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Methylene chloride	ND		0.200	0.00520	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2-Dichloropropane	ND		0.100	0.00600	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Bromodichloromethane	ND		0.100	0.00700	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Dibromochloromethane	ND		0.100	0.00600	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Bromoform	ND		0.100	0.0125	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14I0037-BLK1
Matrix: Soil
Analysis Batch: 14I0037

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0037_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*80 - 120*	*09/05/14 11:06*	*09/05/14 12:06*	*1.00*
1,2-dichloroethane-d4	*103*		*74.7 - 120*	*09/05/14 11:06*	*09/05/14 12:06*	*1.00*
Toluene-d8	*99.7*		*78.5 - 125*	*09/05/14 11:06*	*09/05/14 12:06*	*1.00*
4-bromofluorobenzene	*102*		*69.8 - 140*	*09/05/14 11:06*	*09/05/14 12:06*	*1.00*

Lab Sample ID: 14I0037-BS1
Matrix: Soil
Analysis Batch: 14I0037

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0037_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.582		mg/kg wet		116	60.5 - 130
Chloromethane	0.500	0.529		mg/kg wet		106	68.9 - 130
Vinyl chloride	0.500	0.535		mg/kg wet		107	74 - 142
Bromomethane	0.500	0.543		mg/kg wet		109	70.5 - 146
Chloroethane	0.500	0.626		mg/kg wet		125	60 - 140
Trichlorofluoromethane	0.500	0.606		mg/kg wet		121	70.5 - 139
1,1-Dichloroethene	0.500	0.540		mg/kg wet		108	72.9 - 135
Carbon disulfide	0.500	0.544		mg/kg wet		109	66.8 - 146
Methylene chloride	0.500	0.532		mg/kg wet		106	60 - 140
Acetone	2.50	1.26	J	mg/kg wet		50.5	39.2 - 145
trans-1,2-Dichloroethene	0.500	0.506		mg/kg wet		101	60 - 140
Methyl tert-butyl ether	0.500	0.462		mg/kg wet		92.4	60 - 140
1,1-Dichloroethane	0.500	0.537		mg/kg wet		107	80 - 131
cis-1,2-Dichloroethene	0.500	0.542		mg/kg wet		108	80 - 126
2,2-Dichloropropane	0.500	0.572		mg/kg wet		114	71.5 - 132
Bromochloromethane	0.500	0.541		mg/kg wet		108	69.1 - 139
Chloroform	0.500	0.548		mg/kg wet		110	80 - 130
Carbon tetrachloride	0.500	0.569		mg/kg wet		114	73.6 - 148

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14I0037-BS1
Matrix: Soil
Analysis Batch: 14I0037

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0037_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.591		mg/kg wet		118	74.3 - 138
2-Butanone	2.50	1.52		mg/kg wet		60.9	56.1 - 124
Hexane	0.500	0.482		mg/kg wet		96.4	77 - 130
1,1-Dichloropropene	0.500	0.545		mg/kg wet		109	78.3 - 132
Benzene	0.500	0.518		mg/kg wet		104	75.8 - 123
1,2-Dichloroethane (EDC)	0.500	0.564		mg/kg wet		113	71.1 - 142
Trichloroethene	0.500	0.557		mg/kg wet		111	78.5 - 134
Dibromomethane	0.500	0.514		mg/kg wet		103	80 - 129
1,2-Dichloropropane	0.500	0.514		mg/kg wet		103	50.8 - 155
Bromodichloromethane	0.500	0.570		mg/kg wet		114	80 - 128
cis-1,3-Dichloropropene	0.500	0.536		mg/kg wet		107	80 - 126
Toluene	0.500	0.487		mg/kg wet		97.4	76.6 - 125
4-Methyl-2-pentanone	2.50	1.93		mg/kg wet		77.3	66.4 - 131
trans-1,3-Dichloropropene	0.500	0.497		mg/kg wet		99.4	79 - 124
Tetrachloroethene	0.500	0.544		mg/kg wet		109	80 - 127
1,1,2-Trichloroethane	0.500	0.490		mg/kg wet		98.1	78.4 - 125
Dibromochloromethane	0.500	0.542		mg/kg wet		108	78.4 - 127
1,3-Dichloropropane	0.500	0.478		mg/kg wet		95.5	80 - 125
1,2-Dibromoethane	0.500	0.468		mg/kg wet		93.7	77.1 - 129
2-Hexanone	2.50	1.74		mg/kg wet		69.4	64.6 - 127
Ethylbenzene	0.500	0.491		mg/kg wet		98.2	77.3 - 121
Chlorobenzene	0.500	0.530		mg/kg wet		106	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.547		mg/kg wet		109	80 - 120
m,p-Xylene	0.500	0.496		mg/kg wet		99.2	77.7 - 124
o-Xylene	0.500	0.504		mg/kg wet		101	76.7 - 129
Styrene	0.500	0.527		mg/kg wet		105	80 - 128
Bromoform	0.500	0.526		mg/kg wet		105	76 - 135
Isopropylbenzene	0.500	0.479		mg/kg wet		95.8	78.4 - 131
n-Propylbenzene	0.500	0.452		mg/kg wet		90.5	80 - 120
1,1,2,2-Tetrachloroethane	0.500	0.420		mg/kg wet		84.1	60.3 - 137
Bromobenzene	0.500	0.484		mg/kg wet		96.7	60 - 140
1,3,5-Trimethylbenzene	0.500	0.488		mg/kg wet		97.5	80 - 121
2-Chlorotoluene	0.500	0.508		mg/kg wet		102	80 - 123
1,2,3-Trichloropropane	0.500	0.438		mg/kg wet		87.7	59.9 - 131
4-Chlorotoluene	0.500	0.492		mg/kg wet		98.3	80 - 124
tert-Butylbenzene	0.500	0.488		mg/kg wet		97.6	78.8 - 130
1,2,4-Trimethylbenzene	0.500	0.486		mg/kg wet		97.3	80 - 122
sec-Butylbenzene	0.500	0.474		mg/kg wet		94.9	80 - 120
p-Isopropyltoluene	0.500	0.458		mg/kg wet		91.7	67.2 - 147
1,3-Dichlorobenzene	0.500	0.501		mg/kg wet		100	80 - 122
1,4-Dichlorobenzene	0.500	0.502		mg/kg wet		100	80 - 125
n-Butylbenzene	0.500	0.453		mg/kg wet		90.6	80 - 120
1,2-Dichlorobenzene	0.500	0.478		mg/kg wet		95.5	80 - 124
1,2-Dibromo-3-chloropropane	0.500	0.390	J	mg/kg wet		77.9	60 - 140
Hexachlorobutadiene	0.500	0.464		mg/kg wet		92.9	71.8 - 138
1,2,4-Trichlorobenzene	0.500	0.429		mg/kg wet		85.8	75.3 - 126
Naphthalene	0.500	0.356		mg/kg wet		71.1	55.1 - 142
1,2,3-Trichlorobenzene	0.500	0.424		mg/kg wet		84.7	69.6 - 127

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14I0037-BS1
Matrix: Soil
Analysis Batch: 14I0037

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0037_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*105*		*80 - 120*
1,2-dichloroethane-d4	*105*		*74.7 - 120*
Toluene-d8	*96.3*		*78.5 - 125*
4-bromofluorobenzene	*97.6*		*69.8 - 140*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14I0037-BLK1
Matrix: Soil
Analysis Batch: 14I0037

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0037_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		09/05/14 11:06	09/05/14 12:06	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*41.5 - 162*	*09/05/14 11:06*	*09/05/14 12:06*	*1.00*

Lab Sample ID: 14I0037-BS2
Matrix: Soil
Analysis Batch: 14I0037

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0037_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	44.0		mg/kg wet		88.1	74.4 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*90.8*		*41.5 - 162*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-169185/1-A
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Bis(2-chloroethyl)ether	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2-Chlorophenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
1,3-Dichlorobenzene	ND		50		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
1,4-Dichlorobenzene	ND		50		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Benzyl alcohol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
1,2-Dichlorobenzene	ND		55		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2-Methylphenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
3 & 4 Methylphenol	ND		200		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
N-Nitrosodi-n-propylamine	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Hexachloroethane	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Nitrobenzene	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Isophorone	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-169185/1-A
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2,4-Dimethylphenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Benzoic acid	ND		2500		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Bis(2-chloroethoxy)methane	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2,4-Dichlorophenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
1,2,4-Trichlorobenzene	ND		50		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Naphthalene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
4-Chloroaniline	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Hexachlorobutadiene	ND		50		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
4-Chloro-3-methylphenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2-Methylnaphthalene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Hexachlorocyclopentadiene	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2,4,6-Trichlorophenol	ND		150		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2,4,5-Trichlorophenol	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2-Chloronaphthalene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2-Nitroaniline	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Dimethyl phthalate	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Acenaphthylene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2,6-Dinitrotoluene	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
3-Nitroaniline	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Acenaphthene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2,4-Dinitrophenol	ND		1000		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
4-Nitrophenol	ND		1000		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Dibenzofuran	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
2,4-Dinitrotoluene	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Diethyl phthalate	ND		200		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
4-Chlorophenyl phenyl ether	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Fluorene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
4-Nitroaniline	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
4,6-Dinitro-2-methylphenol	ND		1000		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
N-Nitrosodiphenylamine	ND		50		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
4-Bromophenyl phenyl ether	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Hexachlorobenzene	ND		50		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Pentachlorophenol	ND		200		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Phenanthrene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Anthracene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Di-n-butyl phthalate	ND		500		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Fluoranthene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Pyrene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Butyl benzyl phthalate	ND		200		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
3,3'-Dichlorobenzidine	ND		200		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Benzo[a]anthracene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Chrysene	ND		25		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Bis(2-ethylhexyl) phthalate	ND		600		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Di-n-octyl phthalate	ND		500		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Benzo[a]pyrene	ND		30		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Dibenz(a,h)anthracene	ND		40		ug/Kg		09/09/14 09:10	09/10/14 12:41	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-169185/1-A
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 169185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		25		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Carbazole	ND		100		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
1-Methylnaphthalene	ND		30		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Benzo[b]fluoranthene	ND		20		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
Benzo[k]fluoranthene	ND		25		ug/Kg		09/09/14 09:10	09/10/14 12:41	1
bis (2-chloroisopropyl) ether	ND	^	250		ug/Kg		09/09/14 09:10	09/10/14 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*75*		*36 - 145*	*09/09/14 09:10*	*09/10/14 12:41*	*1*
Phenol-d5	*82*		*38 - 149*	*09/09/14 09:10*	*09/10/14 12:41*	*1*
Nitrobenzene-d5	*93*		*38 - 141*	*09/09/14 09:10*	*09/10/14 12:41*	*1*
2-Fluorobiphenyl	*86*		*42 - 140*	*09/09/14 09:10*	*09/10/14 12:41*	*1*
2,4,6-Tribromophenol	*82*		*28 - 143*	*09/09/14 09:10*	*09/10/14 12:41*	*1*
Terphenyl-d14	*89*		*42 - 151*	*09/09/14 09:10*	*09/10/14 12:41*	*1*

Lab Sample ID: LCS 580-169185/2-A
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1000	863		ug/Kg		86	63 - 111
Bis(2-chloroethyl)ether	1000	766		ug/Kg		77	62 - 110
2-Chlorophenol	1000	869		ug/Kg		87	68 - 117
1,3-Dichlorobenzene	1000	806		ug/Kg		81	64 - 111
1,4-Dichlorobenzene	1000	769		ug/Kg		77	65 - 110
Benzyl alcohol	1000	863		ug/Kg		86	55 - 123
1,2-Dichlorobenzene	1000	808		ug/Kg		81	64 - 112
2-Methylphenol	1000	814		ug/Kg		81	71 - 116
3 & 4 Methylphenol	1000	883		ug/Kg		88	70 - 116
N-Nitrosodi-n-propylamine	1000	828		ug/Kg		83	62 - 116
Hexachloroethane	1000	819		ug/Kg		82	62 - 120
Nitrobenzene	1000	962		ug/Kg		96	64 - 118
Isophorone	1000	895		ug/Kg		89	67 - 119
2-Nitrophenol	1000	858		ug/Kg		86	67 - 127
2,4-Dimethylphenol	1000	907		ug/Kg		91	54 - 139
Benzoic acid	2000	816	J	ug/Kg		41	29 - 158
Bis(2-chloroethoxy)methane	1000	844		ug/Kg		84	69 - 107
2,4-Dichlorophenol	1000	871		ug/Kg		87	68 - 125
1,2,4-Trichlorobenzene	1000	800		ug/Kg		80	66 - 115
Naphthalene	1000	840		ug/Kg		84	62 - 112
4-Chloroaniline	1000	247		ug/Kg		25	20 - 103
Hexachlorobutadiene	1000	760		ug/Kg		76	65 - 116
4-Chloro-3-methylphenol	1000	914		ug/Kg		91	69 - 121
2-Methylnaphthalene	1000	848		ug/Kg		85	64 - 119
Hexachlorocyclopentadiene	1000	794		ug/Kg		79	46 - 131
2,4,6-Trichlorophenol	1000	886		ug/Kg		89	62 - 133
2,4,5-Trichlorophenol	1000	676		ug/Kg		68	57 - 133
2-Chloronaphthalene	1000	816		ug/Kg		82	68 - 112

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-169185/2-A
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1000	987		ug/Kg		99	64 - 112
Dimethyl phthalate	1000	823		ug/Kg		82	78 - 117
Acenaphthylene	1000	856		ug/Kg		86	68 - 120
2,6-Dinitrotoluene	1000	803		ug/Kg		80	66 - 123
3-Nitroaniline	1000	393		ug/Kg		39	27 - 103
Acenaphthene	1000	888		ug/Kg		89	68 - 116
2,4-Dinitrophenol	2000	1090		ug/Kg		55	20 - 141
4-Nitrophenol	2000	1650		ug/Kg		83	20 - 165
Dibenzofuran	1000	824		ug/Kg		82	72 - 109
2,4-Dinitrotoluene	1000	810		ug/Kg		81	68 - 121
Diethyl phthalate	1000	653	*	ug/Kg		65	73 - 116
4-Chlorophenyl phenyl ether	1000	857		ug/Kg		86	75 - 108
Fluorene	1000	865		ug/Kg		87	70 - 121
4-Nitroaniline	1000	649		ug/Kg		65	58 - 108
4,6-Dinitro-2-methylphenol	2000	1480		ug/Kg		74	48 - 130
N-Nitrosodiphenylamine	1000	878		ug/Kg		88	73 - 115
4-Bromophenyl phenyl ether	1000	899		ug/Kg		90	68 - 122
Hexachlorobenzene	1000	835		ug/Kg		84	66 - 117
Pentachlorophenol	2000	1230		ug/Kg		62	45 - 117
Phenanthrene	1000	837		ug/Kg		84	73 - 106
Anthracene	1000	860		ug/Kg		86	73 - 116
Di-n-butyl phthalate	1000	864		ug/Kg		86	66 - 140
Fluoranthene	1000	841		ug/Kg		84	73 - 125
Pyrene	1000	806		ug/Kg		81	70 - 120
Butyl benzyl phthalate	1000	1070		ug/Kg		107	69 - 142
3,3'-Dichlorobenzidine	2000	1070		ug/Kg		53	20 - 103
Benzo[a]anthracene	1000	863		ug/Kg		86	76 - 119
Chrysene	1000	887		ug/Kg		89	75 - 114
Bis(2-ethylhexyl) phthalate	1000	940		ug/Kg		94	62 - 144
Di-n-octyl phthalate	1000	926		ug/Kg		93	65 - 141
Benzo[a]pyrene	1000	827		ug/Kg		83	72 - 117
Indeno[1,2,3-cd]pyrene	1000	1020		ug/Kg		102	56 - 127
Dibenz(a,h)anthracene	1000	845		ug/Kg		85	56 - 134
Benzo[g,h,i]perylene	1000	838		ug/Kg		84	55 - 139
Carbazole	1000	939		ug/Kg		94	76 - 135
1-Methylnaphthalene	1000	838		ug/Kg		84	62 - 118
Benzo[b]fluoranthene	1000	808		ug/Kg		81	63 - 132
Benzo[k]fluoranthene	1000	878		ug/Kg		88	63 - 119
bis (2-chloroisopropyl) ether	1000	974	^	ug/Kg		97	41 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*72*		*36 - 145*
Phenol-d5	*77*		*38 - 149*
Nitrobenzene-d5	*94*		*38 - 141*
2-Fluorobiphenyl	*74*		*42 - 140*
2,4,6-Tribromophenol	*85*		*28 - 143*
Terphenyl-d14	*86*		*42 - 151*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-169185/3-A
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	1000	880		ug/Kg		88	63 - 111	2	26
Bis(2-chloroethyl)ether	1000	769		ug/Kg		77	62 - 110	0	22
2-Chlorophenol	1000	893		ug/Kg		89	68 - 117	3	27
1,3-Dichlorobenzene	1000	806		ug/Kg		81	64 - 111	0	30
1,4-Dichlorobenzene	1000	819		ug/Kg		82	65 - 110	6	30
Benzyl alcohol	1000	835		ug/Kg		84	55 - 123	3	60
1,2-Dichlorobenzene	1000	838		ug/Kg		84	64 - 112	4	30
2-Methylphenol	1000	842		ug/Kg		84	71 - 116	3	25
3 & 4 Methylphenol	1000	915		ug/Kg		92	70 - 116	4	27
N-Nitrosodi-n-propylamine	1000	824		ug/Kg		82	62 - 116	1	28
Hexachloroethane	1000	895		ug/Kg		89	62 - 120	9	30
Nitrobenzene	1000	921		ug/Kg		92	64 - 118	4	30
Isophorone	1000	878		ug/Kg		88	67 - 119	2	30
2-Nitrophenol	1000	881		ug/Kg		88	67 - 127	3	30
2,4-Dimethylphenol	1000	901		ug/Kg		90	54 - 139	1	30
Benzoic acid	2000	ND		ug/Kg		37	29 - 158	10	28
Bis(2-chloroethoxy)methane	1000	828		ug/Kg		83	69 - 107	2	30
2,4-Dichlorophenol	1000	903		ug/Kg		90	68 - 125	4	30
1,2,4-Trichlorobenzene	1000	800		ug/Kg		80	66 - 115	0	28
Naphthalene	1000	828		ug/Kg		83	62 - 112	1	26
4-Chloroaniline	1000	291		ug/Kg		29	20 - 103	16	60
Hexachlorobutadiene	1000	775		ug/Kg		78	65 - 116	2	30
4-Chloro-3-methylphenol	1000	923		ug/Kg		92	69 - 121	1	27
2-Methylnaphthalene	1000	839		ug/Kg		84	64 - 119	1	27
Hexachlorocyclopentadiene	1000	860		ug/Kg		86	46 - 131	8	29
2,4,6-Trichlorophenol	1000	835		ug/Kg		83	62 - 133	6	30
2,4,5-Trichlorophenol	1000	740		ug/Kg		74	57 - 133	9	30
2-Chloronaphthalene	1000	882		ug/Kg		88	68 - 112	8	25
2-Nitroaniline	1000	1060		ug/Kg		106	64 - 112	8	22
Dimethyl phthalate	1000	865		ug/Kg		87	78 - 117	5	30
Acenaphthylene	1000	870		ug/Kg		87	68 - 120	2	28
2,6-Dinitrotoluene	1000	885		ug/Kg		88	66 - 123	10	30
3-Nitroaniline	1000	418		ug/Kg		42	27 - 103	6	33
Acenaphthene	1000	898		ug/Kg		90	68 - 116	1	27
2,4-Dinitrophenol	2000	887	J	ug/Kg		44	20 - 141	21	36
4-Nitrophenol	2000	1570		ug/Kg		78	20 - 165	5	30
Dibenzofuran	1000	816		ug/Kg		82	72 - 109	1	30
2,4-Dinitrotoluene	1000	887		ug/Kg		89	68 - 121	9	30
Diethyl phthalate	1000	668	*	ug/Kg		67	73 - 116	2	26
4-Chlorophenyl phenyl ether	1000	850		ug/Kg		85	75 - 108	1	30
Fluorene	1000	884		ug/Kg		88	70 - 121	2	30
4-Nitroaniline	1000	797		ug/Kg		80	58 - 108	20	32
4,6-Dinitro-2-methylphenol	2000	1480		ug/Kg		74	48 - 130	0	22
N-Nitrosodiphenylamine	1000	888		ug/Kg		89	73 - 115	1	30
4-Bromophenyl phenyl ether	1000	920		ug/Kg		92	68 - 122	2	30
Hexachlorobenzene	1000	825		ug/Kg		82	66 - 117	1	30
Pentachlorophenol	2000	1290		ug/Kg		64	45 - 117	4	23
Phenanthrene	1000	832		ug/Kg		83	73 - 106	1	28

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-169185/3-A
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 169185

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			1000	823		ug/Kg		82	73 - 116	4	27
Di-n-butyl phthalate			1000	778		ug/Kg		78	66 - 140	10	30
Fluoranthene			1000	764		ug/Kg		76	73 - 125	10	30
Pyrene			1000	747		ug/Kg		75	70 - 120	8	30
Butyl benzyl phthalate			1000	1040		ug/Kg		104	69 - 142	3	30
3,3'-Dichlorobenzidine			2000	1110		ug/Kg		56	20 - 103	4	60
Benzo[a]anthracene			1000	877		ug/Kg		88	76 - 119	2	27
Chrysene			1000	877		ug/Kg		88	75 - 114	1	26
Bis(2-ethylhexyl) phthalate			1000	950		ug/Kg		95	62 - 144	1	30
Di-n-octyl phthalate			1000	884		ug/Kg		88	65 - 141	5	30
Benzo[a]pyrene			1000	831		ug/Kg		83	72 - 117	1	30
Indeno[1,2,3-cd]pyrene			1000	924		ug/Kg		92	56 - 127	10	29
Dibenz(a,h)anthracene			1000	846		ug/Kg		85	56 - 134	0	30
Benzo[g,h,i]perylene			1000	806		ug/Kg		81	55 - 139	4	28
Carbazole			1000	851		ug/Kg		85	76 - 135	10	30
1-Methylnaphthalene			1000	843		ug/Kg		84	62 - 118	1	30
Benzo[b]fluoranthene			1000	774		ug/Kg		77	63 - 132	4	30
Benzo[k]fluoranthene			1000	840		ug/Kg		84	63 - 119	4	30
bis (2-chloroisopropyl) ether			1000	1020	^	ug/Kg		102	41 - 126	4	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*81*		*36 - 145*
Phenol-d5	*81*		*38 - 149*
Nitrobenzene-d5	*90*		*38 - 141*
2-Fluorobiphenyl	*78*		*42 - 140*
2,4,6-Tribromophenol	*84*		*28 - 143*
Terphenyl-d14	*76*		*42 - 151*

Lab Sample ID: 580-45261-1 MS
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: SXI0031-04
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	ND		1220	1180		ug/Kg	☼	97	63 - 111
Bis(2-chloroethyl)ether	ND		1220	1070		ug/Kg	☼	88	62 - 110
2-Chlorophenol	ND		1220	1160		ug/Kg	☼	95	68 - 117
1,3-Dichlorobenzene	ND		1220	954		ug/Kg	☼	78	64 - 111
1,4-Dichlorobenzene	ND		1220	953		ug/Kg	☼	78	65 - 110
Benzyl alcohol	ND		1220	1060		ug/Kg	☼	87	55 - 123
1,2-Dichlorobenzene	ND		1220	1000		ug/Kg	☼	82	64 - 112
2-Methylphenol	ND		1220	1030		ug/Kg	☼	84	71 - 116
3 & 4 Methylphenol	ND		1220	1080		ug/Kg	☼	89	70 - 116
N-Nitrosodi-n-propylamine	ND		1220	1060		ug/Kg	☼	87	62 - 116
Hexachloroethane	ND		1220	976		ug/Kg	☼	80	62 - 120
Nitrobenzene	ND		1220	1110		ug/Kg	☼	91	64 - 118
Isophorone	ND		1220	1090		ug/Kg	☼	89	67 - 119
2-Nitrophenol	ND		1220	1110		ug/Kg	☼	91	67 - 127
2,4-Dimethylphenol	ND		1220	1190		ug/Kg	☼	98	54 - 139

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45261-1 MS
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: SXI0031-04
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzoic acid	ND		2430	ND		ug/Kg	☼	115	29 - 158
Bis(2-chloroethoxy)methane	ND		1220	999		ug/Kg	☼	82	69 - 107
2,4-Dichlorophenol	ND		1220	1130		ug/Kg	☼	93	68 - 125
1,2,4-Trichlorobenzene	ND		1220	988		ug/Kg	☼	81	66 - 115
Naphthalene	ND		1220	1010		ug/Kg	☼	83	62 - 112
4-Chloroaniline	ND		1220	556		ug/Kg	☼	46	20 - 103
Hexachlorobutadiene	ND		1220	876		ug/Kg	☼	72	65 - 116
4-Chloro-3-methylphenol	ND		1220	1080		ug/Kg	☼	89	69 - 121
2-Methylnaphthalene	ND		1220	1050		ug/Kg	☼	86	64 - 119
Hexachlorocyclopentadiene	ND		1220	882		ug/Kg	☼	73	46 - 131
2,4,6-Trichlorophenol	ND		1220	1120		ug/Kg	☼	92	62 - 133
2,4,5-Trichlorophenol	ND		1220	898		ug/Kg	☼	74	57 - 133
2-Chloronaphthalene	ND		1220	1050		ug/Kg	☼	86	68 - 112
2-Nitroaniline	ND		1220	1210		ug/Kg	☼	99	64 - 112
Dimethyl phthalate	ND		1220	1080		ug/Kg	☼	89	78 - 117
Acenaphthylene	ND		1220	1060		ug/Kg	☼	87	68 - 120
2,6-Dinitrotoluene	ND		1220	1090		ug/Kg	☼	90	66 - 123
3-Nitroaniline	ND		1220	652		ug/Kg	☼	54	27 - 103
Acenaphthene	ND		1220	1090		ug/Kg	☼	90	68 - 116
2,4-Dinitrophenol	ND		2430	2410		ug/Kg	☼	99	20 - 141
4-Nitrophenol	ND		2430	2110		ug/Kg	☼	87	20 - 165
Dibenzofuran	ND		1220	1060		ug/Kg	☼	87	72 - 109
2,4-Dinitrotoluene	ND		1220	1070		ug/Kg	☼	88	68 - 121
Diethyl phthalate	ND	*	1220	921		ug/Kg	☼	76	73 - 116
4-Chlorophenyl phenyl ether	ND		1220	1110		ug/Kg	☼	91	75 - 108
Fluorene	ND		1220	1210		ug/Kg	☼	100	70 - 121
4-Nitroaniline	ND		1220	993		ug/Kg	☼	82	58 - 108
4,6-Dinitro-2-methylphenol	ND		2430	2360		ug/Kg	☼	97	48 - 130
N-Nitrosodiphenylamine	ND		1220	1120		ug/Kg	☼	92	73 - 115
4-Bromophenyl phenyl ether	ND		1220	1130		ug/Kg	☼	93	68 - 122
Hexachlorobenzene	ND		1220	1030		ug/Kg	☼	84	66 - 117
Pentachlorophenol	ND		2430	1950		ug/Kg	☼	80	45 - 117
Phenanthrene	ND		1220	1040		ug/Kg	☼	86	73 - 106
Anthracene	ND		1220	1050		ug/Kg	☼	86	73 - 116
Di-n-butyl phthalate	ND		1220	1080		ug/Kg	☼	89	66 - 140
Fluoranthene	ND		1220	1050		ug/Kg	☼	86	73 - 125
Pyrene	ND		1220	959		ug/Kg	☼	79	70 - 120
Butyl benzyl phthalate	ND		1220	1310		ug/Kg	☼	107	69 - 142
3,3'-Dichlorobenzidine	ND		2430	1540		ug/Kg	☼	63	20 - 103
Benzo[a]anthracene	ND		1220	1050		ug/Kg	☼	86	76 - 119
Chrysene	ND		1220	1040		ug/Kg	☼	86	75 - 114
Bis(2-ethylhexyl) phthalate	ND		1220	1200		ug/Kg	☼	99	62 - 144
Di-n-octyl phthalate	ND		1220	1250		ug/Kg	☼	103	65 - 141
Benzo[a]pyrene	ND		1220	1090		ug/Kg	☼	89	72 - 117
Indeno[1,2,3-cd]pyrene	ND		1220	1360		ug/Kg	☼	112	56 - 127
Dibenz(a,h)anthracene	ND		1220	1080		ug/Kg	☼	88	56 - 134
Benzo[g,h,i]perylene	ND		1220	1030		ug/Kg	☼	85	55 - 139
Carbazole	ND		1220	1160		ug/Kg	☼	95	76 - 135

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45261-1 MS
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: SXI0031-04
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	ND		1220	1030		ug/Kg	☼	84	62 - 118
Benzo[b]fluoranthene	ND		1220	1050		ug/Kg	☼	85	63 - 132
Benzo[k]fluoranthene	ND		1220	1100		ug/Kg	☼	89	63 - 119
bis (2-chloroisopropyl) ether	ND	^	1220	1200	^	ug/Kg	☼	98	41 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol	*81*		*36 - 145*
Phenol-d5	*88*		*38 - 149*
Nitrobenzene-d5	*90*		*38 - 141*
2-Fluorobiphenyl	*77*		*42 - 140*
2,4,6-Tribromophenol	*89*		*28 - 143*
Terphenyl-d14	*78*		*42 - 151*

Lab Sample ID: 580-45261-1 MSD
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: SXI0031-04
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	ND		1220	1040		ug/Kg	☼	85	63 - 111	13	26
Bis(2-chloroethyl)ether	ND		1220	954		ug/Kg	☼	78	62 - 110	11	60
2-Chlorophenol	ND		1220	1130		ug/Kg	☼	92	68 - 117	3	27
1,3-Dichlorobenzene	ND		1220	933		ug/Kg	☼	76	64 - 111	2	60
1,4-Dichlorobenzene	ND		1220	955		ug/Kg	☼	78	65 - 110	0	32
Benzyl alcohol	ND		1220	1030		ug/Kg	☼	84	55 - 123	2	60
1,2-Dichlorobenzene	ND		1220	984		ug/Kg	☼	80	64 - 112	2	60
2-Methylphenol	ND		1220	1020		ug/Kg	☼	83	71 - 116	0	25
3 & 4 Methylphenol	ND		1220	1070		ug/Kg	☼	87	70 - 116	1	27
N-Nitrosodi-n-propylamine	ND		1220	1020		ug/Kg	☼	83	62 - 116	4	28
Hexachloroethane	ND		1220	961		ug/Kg	☼	79	62 - 120	1	60
Nitrobenzene	ND		1220	1110		ug/Kg	☼	90	64 - 118	0	60
Isophorone	ND		1220	1040		ug/Kg	☼	85	67 - 119	4	60
2-Nitrophenol	ND		1220	1050		ug/Kg	☼	86	67 - 127	5	60
2,4-Dimethylphenol	ND		1220	1090		ug/Kg	☼	89	54 - 139	9	60
Benzoic acid	ND		2450	ND		ug/Kg	☼	105	29 - 158	8	60
Bis(2-chloroethoxy)methane	ND		1220	970		ug/Kg	☼	79	69 - 107	3	60
2,4-Dichlorophenol	ND		1220	1090		ug/Kg	☼	89	68 - 125	4	60
1,2,4-Trichlorobenzene	ND		1220	975		ug/Kg	☼	80	66 - 115	1	28
Naphthalene	ND		1220	980		ug/Kg	☼	80	62 - 112	3	26
4-Chloroaniline	ND		1220	531		ug/Kg	☼	43	20 - 103	4	60
Hexachlorobutadiene	ND		1220	923		ug/Kg	☼	75	65 - 116	5	60
4-Chloro-3-methylphenol	ND		1220	1110		ug/Kg	☼	91	69 - 121	3	27
2-Methylnaphthalene	ND		1220	1010		ug/Kg	☼	82	64 - 119	4	27
Hexachlorocyclopentadiene	ND		1220	792		ug/Kg	☼	65	46 - 131	11	60
2,4,6-Trichlorophenol	ND		1220	954		ug/Kg	☼	78	62 - 133	16	60
2,4,5-Trichlorophenol	ND		1220	807		ug/Kg	☼	66	57 - 133	11	60
2-Chloronaphthalene	ND		1220	949		ug/Kg	☼	78	68 - 112	10	25
2-Nitroaniline	ND		1220	1100		ug/Kg	☼	90	64 - 112	9	60
Dimethyl phthalate	ND		1220	1030		ug/Kg	☼	84	78 - 117	5	60

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-45261-1 MSD
Matrix: Solid
Analysis Batch: 169302

Client Sample ID: SXI0031-04
Prep Type: Total/NA
Prep Batch: 169185

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		1220	1050		ug/Kg	☼	86	68 - 120	1	28
2,6-Dinitrotoluene	ND		1220	1010		ug/Kg	☼	82	66 - 123	8	60
3-Nitroaniline	ND		1220	689		ug/Kg	☼	56	27 - 103	5	60
Acenaphthene	ND		1220	1040		ug/Kg	☼	85	68 - 116	5	27
2,4-Dinitrophenol	ND		2450	2250		ug/Kg	☼	92	20 - 141	7	60
4-Nitrophenol	ND		2450	2020		ug/Kg	☼	82	20 - 165	4	33
Dibenzofuran	ND		1220	977		ug/Kg	☼	80	72 - 109	8	60
2,4-Dinitrotoluene	ND		1220	1090		ug/Kg	☼	89	68 - 121	1	31
Diethyl phthalate	ND	*	1220	785	F1	ug/Kg	☼	64	73 - 116	16	26
4-Chlorophenyl phenyl ether	ND		1220	994		ug/Kg	☼	81	75 - 108	11	60
Fluorene	ND		1220	1070		ug/Kg	☼	88	70 - 121	12	31
4-Nitroaniline	ND		1220	929		ug/Kg	☼	76	58 - 108	7	60
4,6-Dinitro-2-methylphenol	ND		2450	2150		ug/Kg	☼	88	48 - 130	9	60
N-Nitrosodiphenylamine	ND		1220	1060		ug/Kg	☼	87	73 - 115	5	60
4-Bromophenyl phenyl ether	ND		1220	1120		ug/Kg	☼	91	68 - 122	1	60
Hexachlorobenzene	ND		1220	959		ug/Kg	☼	78	66 - 117	7	60
Pentachlorophenol	ND		2450	1910		ug/Kg	☼	78	45 - 117	2	68
Phenanthrene	ND		1220	978		ug/Kg	☼	80	73 - 106	6	28
Anthracene	ND		1220	995		ug/Kg	☼	81	73 - 116	5	27
Di-n-butyl phthalate	ND		1220	1060		ug/Kg	☼	86	66 - 140	2	60
Fluoranthene	ND		1220	935		ug/Kg	☼	76	73 - 125	12	36
Pyrene	ND		1220	903		ug/Kg	☼	74	70 - 120	6	31
Butyl benzyl phthalate	ND		1220	1290		ug/Kg	☼	105	69 - 142	1	60
3,3'-Dichlorobenzidine	ND		2450	1600		ug/Kg	☼	65	20 - 103	4	60
Benzo[a]anthracene	ND		1220	1050		ug/Kg	☼	86	76 - 119	0	27
Chrysene	ND		1220	1040		ug/Kg	☼	85	75 - 114	0	26
Bis(2-ethylhexyl) phthalate	ND		1220	1200		ug/Kg	☼	98	62 - 144	0	60
Di-n-octyl phthalate	ND		1220	1210		ug/Kg	☼	99	65 - 141	3	31
Benzo[a]pyrene	ND		1220	1040		ug/Kg	☼	85	72 - 117	4	30
Indeno[1,2,3-cd]pyrene	ND		1220	1240		ug/Kg	☼	101	56 - 127	10	29
Dibenz(a,h)anthracene	ND		1220	1070		ug/Kg	☼	88	56 - 134	0	30
Benzo[g,h,i]perylene	ND		1220	971		ug/Kg	☼	79	55 - 139	6	28
Carbazole	ND		1220	1120		ug/Kg	☼	91	76 - 135	4	60
1-Methylnaphthalene	ND		1220	1040		ug/Kg	☼	85	62 - 118	1	30
Benzo[b]fluoranthene	ND		1220	1000		ug/Kg	☼	80	63 - 132	4	31
Benzo[k]fluoranthene	ND		1220	1020		ug/Kg	☼	82	63 - 119	7	31
bis (2-chloroisopropyl) ether	ND	^	1220	1230	^	ug/Kg	☼	100	41 - 126	2	60

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol	*80*		*36 - 145*
Phenol-d5	*76*		*38 - 149*
Nitrobenzene-d5	*86*		*38 - 141*
2-Fluorobiphenyl	*69*		*42 - 140*
2,4,6-Tribromophenol	*82*		*28 - 143*
Terphenyl-d14	*74*		*42 - 151*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14I0033-BLK1
Matrix: Soil
Analysis Batch: 14I0033

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0033_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		09/05/14 08:31	09/08/14 11:04	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		09/05/14 08:31	09/08/14 11:04	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*50 - 150*	*09/05/14 08:31*	*09/08/14 11:04*	*1.00*
n-Triacontane-d62	*107*		*50 - 150*	*09/05/14 08:31*	*09/08/14 11:04*	*1.00*

Lab Sample ID: 14I0033-BS1
Matrix: Soil
Analysis Batch: 14I0033

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0033_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	63.7		mg/kg wet		95.6	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*114*		*50 - 150*
n-Triacontane-d62	*108*		*50 - 150*

Lab Sample ID: 14I0033-DUP1
Matrix: Soil
Analysis Batch: 14I0033

Client Sample ID: EX12-1-2.5
Prep Type: Total
Prep Batch: 14I0033_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	914			909		mg/kg dry	☼			0.559	40
Heavy Oil Range Hydrocarbons	2800			2760		mg/kg dry	☼			1.51	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*114*		*50 - 150*
n-Triacontane-d62	*85.5*		*50 - 150*

Client Sample ID: EX12-1-2.5

Lab Sample ID: SXI0031-01

Date Collected: 09/04/14 09:35

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.11	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0037	09/05/14 13:13	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.11	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0037	09/05/14 13:13	CBW	TAL SPK
Total	Prep	EPA 3550B		0.978	14I0033_P	09/05/14 08:31	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14I0033	09/08/14 12:10	NMI	TAL SPK
Total	Prep	Wet Chem		1.00	14I0046_P	09/05/14 11:10	NI	TAL SPK
Total	Analysis	TA SOP		1.00	14I0046	09/08/14 15:24	NI	TAL SPK

Client Sample ID: EX12-2-3

Lab Sample ID: SXI0031-02

Date Collected: 09/04/14 10:03

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.04	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0037	09/05/14 13:35	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.04	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0037	09/05/14 13:35	CBW	TAL SPK
Total	Prep	EPA 3550B		0.962	14I0033_P	09/05/14 08:31	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	14I0033	09/08/14 12:33	NMI	TAL SPK

Client Sample ID: EX12-3-2

Lab Sample ID: SXI0031-03

Date Collected: 09/04/14 10:20

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.853	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0037	09/05/14 13:57	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.853	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0037	09/05/14 13:57	CBW	TAL SPK
Total	Prep	EPA 3550B		0.929	14I0033_P	09/05/14 08:31	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14I0033	09/08/14 12:56	NMI	TAL SPK

Client Sample ID: EX12-4-3

Lab Sample ID: SXI0031-04

Date Collected: 09/04/14 11:15

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.803	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0037	09/05/14 14:20	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.803	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0037	09/05/14 14:20	CBW	TAL SPK
Total/NA	Prep	3550B			169185	09/09/14 09:10	ALL	TAL SEA

Client Sample ID: EX12-4-3

Lab Sample ID: SXI0031-04

Date Collected: 09/04/14 11:15

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	169302	09/10/14 13:52	ERB	TAL SEA
Total	Prep	EPA 3550B		0.901	14I0033_P	09/05/14 08:31	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14I0033	09/08/14 13:19	NMI	TAL SPK
Total/NA	Analysis	D 2216		1	169223	09/09/14 12:37	LHJ	TAL SEA

Client Sample ID: EX12-6-8

Lab Sample ID: SXI0031-05

Date Collected: 09/04/14 11:30

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.923	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0037	09/05/14 14:42	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.923	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0037	09/05/14 14:42	CBW	TAL SPK
Total	Prep	EPA 3550B		0.999	14I0033_P	09/05/14 08:31	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14I0033	09/08/14 13:39	NMI	TAL SPK

Client Sample ID: EX12-7-6

Lab Sample ID: SXI0031-06

Date Collected: 09/04/14 11:40

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.960	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0037	09/05/14 15:04	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.960	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0037	09/05/14 15:04	CBW	TAL SPK
Total	Prep	EPA 3550B		0.919	14I0033_P	09/05/14 08:31	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	14I0033	09/08/14 14:00	NMI	TAL SPK

Client Sample ID: EX12-5-3

Lab Sample ID: SXI0031-07

Date Collected: 09/04/14 11:00

Matrix: Soil

Date Received: 09/04/14 15:50

Percent Solids: 70.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.07	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14I0037	09/05/14 15:26	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.07	14I0037_P	09/05/14 11:06	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0037	09/05/14 15:26	CBW	TAL SPK
Total	Prep	EPA 3550B		0.984	14I0033_P	09/05/14 08:31	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14I0033	09/08/14 14:23	NMI	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-113	07-25-15
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0031

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SEA
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
D 2216	Percent Moisture	ASTM	TAL SEA
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047 ☐
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 ☒
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210 ☐
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210 ☐

CHAIN OF CUSTODY REPORT

Work Order # SXD0031

CLIENT: GeoEngineers

REPORT TO: Dave Lauder dlauder@geoengineers.com

ADDRESS: 523 E Second Ave Spokane WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: Cashmere

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JWR

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH-Gx	NWTPH-Dx	VOCs	SVOCs	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	Ex12-1-2.5	9/4/14 0935	X	X	X		S	3		
2	Ex12-2-3	9/4/14 1003	X	X	X			3		
3	Ex12-3-2	9/4/14 1020	X	X	X			3		
4	Ex12-4-3	9/4/14 1115	X	X	X	X		4		
5	Ex12-5-3	9/4/14 1100	X	X	X			3		
6	Ex12-6-8	9/4/14 1130	X	X	X			3		
7	Ex12-7-6	9/4/14 1140	X	X	X			3		
8										
9										
10										

PRESERVATIVE

REQUESTED ANALYSES

RELEASED BY: Justin Rice DATE: 9/4/14

PRINT NAME: JR FIRM: Geo TIME: 1550

RECEIVED BY: Cat Stapleton

PRINT NAME: Cat Stapleton FIRM: TestAmerica DATE: 9-4-14 TIME: 1550

RELEASED BY: DATE:

PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:

PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP:

PAGE 1 OF 1

TAL-1000 (0612)

9/11/2014

TestAmerica Spokane
Sample Receipt Form

Work Order #:	Client: GeoEngineers	Project: Cashmere
Date/Time Received: 9-4-14 15:50	By: CS	

Samples Delivered By: ☐Shipping Service ☐Courier ☑Client ☐Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐Blue Ice ☐Gel Ice ☒Real Ice ☐Dry Ice ☐None ☐Other: _____

Temperature: 9.9 °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐Not enough ice ☐Ice melted ☐w/in 4hrs of collection ☐NA ☐Other: _____

Log-in Phase Date/Time: 9-4-14 16:35 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)	Y			
Are dissolved parameters field filtered			Y	
Do any samples need to be filtered or preserved by the lab			Y	
Does this project require quick turnaround analysis	Y			2days
Are there any short hold time tests (see chart below)		Y		
Are any samples within 2 days of or past expiration		Y		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			/	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXI0084
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
9/16/2014 4:03:47 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 7
Chronicle 9
Certification Summary 10
Method Summary 11
Chain of Custody 12

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0084

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXI0084-01	EX12-8-3	Soil	09/12/14 09:10	09/12/14 14:50
SXI0084-02	EX12-9-3	Soil	09/12/14 09:20	09/12/14 14:50
SXI0084-03	EX12-10-7	Soil	09/12/14 09:30	09/12/14 14:50
SXI0084-04	EX12-11-3	Soil	09/12/14 10:00	09/12/14 14:50

Definitions/Glossary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0084

Qualifiers

Fuels

Qualifier	Qualifier Description
Q6	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: EX12-8-3

Lab Sample ID: SXI0084-01

Date Collected: 09/12/14 09:10

Matrix: Soil

Date Received: 09/12/14 14:50

Percent Solids: 94.8

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.58		mg/kg dry	☼	09/15/14 08:52	09/15/14 11:29	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*88.9*		*41.5 - 162*	*09/15/14 08:52*	*09/15/14 11:29*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.3		mg/kg dry	☼	09/15/14 08:21	09/15/14 12:34	1.00
Heavy Oil Range Hydrocarbons	ND		25.8		mg/kg dry	☼	09/15/14 08:21	09/15/14 12:34	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91.1*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:34*	*1.00*
n-Triacontane-d62	*104*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:34*	*1.00*

Client Sample ID: EX12-9-3

Lab Sample ID: SXI0084-02

Date Collected: 09/12/14 09:20

Matrix: Soil

Date Received: 09/12/14 14:50

Percent Solids: 95.3

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.17		mg/kg dry	☼	09/15/14 08:52	09/15/14 11:52	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*89.0*		*41.5 - 162*	*09/15/14 08:52*	*09/15/14 11:52*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		9.73		mg/kg dry	☼	09/15/14 08:21	09/15/14 12:59	1.00
Heavy Oil Range Hydrocarbons	ND		24.3		mg/kg dry	☼	09/15/14 08:21	09/15/14 12:59	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93.2*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:59*	*1.00*
n-Triacontane-d62	*112*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:59*	*1.00*

Client Sample ID: EX12-10-7

Lab Sample ID: SXI0084-03

Date Collected: 09/12/14 09:30

Matrix: Soil

Date Received: 09/12/14 14:50

Percent Solids: 91.5

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.56		mg/kg dry	☼	09/15/14 08:52	09/15/14 12:15	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*89.0*		*41.5 - 162*	*09/15/14 08:52*	*09/15/14 12:15*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**109**	**Q6**	55.7		mg/kg dry	☼	09/15/14 08:21	09/15/14 12:59	5.00
Heavy Oil Range Hydrocarbons	**657**		139		mg/kg dry	☼	09/15/14 08:21	09/15/14 12:59	5.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:59*	*5.00*

Client Sample ID: EX12-10-7

Lab Sample ID: SXI0084-03

Date Collected: 09/12/14 09:30

Matrix: Soil

Date Received: 09/12/14 14:50

Percent Solids: 91.5

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Triacontane-d62	*131*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:59*	*5.00*

Client Sample ID: EX12-11-3

Lab Sample ID: SXI0084-04

Date Collected: 09/12/14 10:00

Matrix: Soil

Date Received: 09/12/14 14:50

Percent Solids: 90

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.37		mg/kg dry	☼	09/15/14 08:52	09/15/14 12:37	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*90.3*		*41.5 - 162*	*09/15/14 08:52*	*09/15/14 12:37*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**112**	**Q6**	112		mg/kg dry	☼	09/15/14 08:21	09/15/14 13:23	10.0
Heavy Oil Range Hydrocarbons	**923**		280		mg/kg dry	☼	09/15/14 08:21	09/15/14 13:23	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99.0*		*50 - 150*	*09/15/14 08:21*	*09/15/14 13:23*	*10.0*
n-Triacontane-d62	*115*		*50 - 150*	*09/15/14 08:21*	*09/15/14 13:23*	*10.0*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14I0082-BLK1
Matrix: Soil
Analysis Batch: 14I0082

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0082_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		09/15/14 08:52	09/15/14 10:39	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*89.5*		*41.5 - 162*	*09/15/14 08:52*	*09/15/14 10:39*	*1.00*

Lab Sample ID: 14I0082-BS1
Matrix: Soil
Analysis Batch: 14I0082

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0082_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Hydrocarbons			50.0	46.6		mg/kg wet		93.3	74.4 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*87.9*		*41.5 - 162*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14I0080-BLK1
Matrix: Soil
Analysis Batch: 14I0080

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14I0080_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		09/15/14 08:21	09/15/14 12:10	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		09/15/14 08:21	09/15/14 12:10	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94.6*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:10*	*1.00*
n-Triacontane-d62	*106*		*50 - 150*	*09/15/14 08:21*	*09/15/14 12:10*	*1.00*

Lab Sample ID: 14I0080-BS1
Matrix: Soil
Analysis Batch: 14I0080

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14I0080_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	62.3		mg/kg wet		93.4	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*99.0*		*50 - 150*
n-Triacontane-d62	*115*		*50 - 150*

Lab Sample ID: 14I0080-DUP1
Matrix: Soil
Analysis Batch: 14I0080

Client Sample ID: EX12-8-3
Prep Type: Total
Prep Batch: 14I0080_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	3.23			3.31		mg/kg dry	☼			2.31	40
Heavy Oil Range Hydrocarbons	5.01			6.12		mg/kg dry	☼			19.9	40

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0084

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14I0080-DUP1
Matrix: Soil
Analysis Batch: 14I0080

Client Sample ID: EX12-8-3
Prep Type: Total
Prep Batch: 14I0080_P

Surrogate	Duplicate %Recovery	Duplicate Qualifier	Limits
o-Terphenyl	*95.5*		*50 - 150*
n-Triacontane-d62	*113*		*50 - 150*

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0084

Client Sample ID: EX12-8-3

Lab Sample ID: SXI0084-01

Date Collected: 09/12/14 09:10
Matrix: Soil
Date Received: 09/12/14 14:50
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.01	14I0082_P	09/15/14 08:52	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0082	09/15/14 11:29	CBW	TAL SPK
Total	Prep	EPA 3550B		0.977	14I0080_P	09/15/14 08:21	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14I0080	09/15/14 12:34	NMI	TAL SPK

Client Sample ID: EX12-9-3

Lab Sample ID: SXI0084-02

Date Collected: 09/12/14 09:20
Matrix: Soil
Date Received: 09/12/14 14:50
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.938	14I0082_P	09/15/14 08:52	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0082	09/15/14 11:52	CBW	TAL SPK

Client Sample ID: EX12-10-7

Lab Sample ID: SXI0084-03

Date Collected: 09/12/14 09:30
Matrix: Soil
Date Received: 09/12/14 14:50
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.12	14I0082_P	09/15/14 08:52	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0082	09/15/14 12:15	CBW	TAL SPK
Total	Prep	EPA 3550B		1.02	14I0080_P	09/15/14 08:21	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	14I0080	09/15/14 12:59	NMI	TAL SPK
Total	Prep	Wet Chem		1.00	14I0098_P	09/15/14 10:10	NI	TAL SPK
Total	Analysis	TA SOP		1.00	14I0098	09/16/14 13:03	NI	TAL SPK

Client Sample ID: EX12-11-3

Lab Sample ID: SXI0084-04

Date Collected: 09/12/14 10:00
Matrix: Soil
Date Received: 09/12/14 14:50
Percent Solids: 90

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.05	14I0082_P	09/15/14 08:52	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14I0082	09/15/14 12:37	CBW	TAL SPK
Total	Prep	EPA 3550B		1.01	14I0080_P	09/15/14 08:21	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	14I0080	09/15/14 13:23	NMI	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0084

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXI0084

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

9/16/2014

CHAIN OF CUSTODY REPORT

Work Order #: SXI00864

CLIENT: GeoEngineers
REPORT TO: PLAUDER@Geoengineers.com
ADDRESS: 523 E Second Ave Spokane, WA 99202
PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan
P.O. NUMBER:

PROJECT NAME: Cashmere
PROJECT NUMBER: 18593-001-04
SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: NWTPH-Gx	REQUESTED ANALYSES: NWTPH-Dx	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	EX12-8-3	9/12/2014 0910		X	X	S	3		
2	EX12-9-3	0920		X	X				
3	EX12-10-7	0930		X	X				
4	EX12-11-3	1000		X	X				
5									
6									
7									
8									
9									
10									

RELEASED BY: Josh Lee — PRINT NAME: Josh Lee — FIRM: GEO — DATE: 9/12/2014 — TIME: 1450

RECEIVED BY: Chris Williams — PRINT NAME: Chris Williams — FIRM: TA-SPK — DATE: 9/12/14 — TIME: 14 50

RELEASED BY: — PRINT NAME: — FIRM: — DATE: — TIME:

RECEIVED BY: — PRINT NAME: — FIRM: — DATE: — TIME:

ADDITIONAL REMARKS:

TEMP: 19.1 C

PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXI0004	Client: Geo Eng.	Project: Cashmere
Date/Time Received: 9-17-14 1450	By: LW	

Samples Delivered By: ☐Shipping Service ☐Courier ☑Client ☐Other:

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:	19.1		X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐Blue Ice ☐Gel Ice ☒Real Ice ☐Dry Ice ☐None ☐Other:

Temperature: 19.1 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☒Not enough ice ☐Ice melted ☐w/in 4hrs of collection ☐NA ☐Other:

Log-in Phase Date/Time: 9/17/14 By: MS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification			X	
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis	X			
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXJ0095
Client Project/Site: 18593-001-04
Client Project Description: Cashmere, WA
Revision: 1

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
11/11/2014 1:15:42 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 11
Chronicle 23
Certification Summary 25
Method Summary 26
Chain of Custody 27

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXJ0095-01	EX13-1-3	Soil	10/13/14 13:00	10/14/14 10:20
SXJ0095-02	EX13-2-3	Soil	10/13/14 13:05	10/14/14 10:20
SXJ0095-03	EX13-3-3	Soil	10/13/14 13:10	10/14/14 10:20
SXJ0095-04	EX13-4-3	Soil	10/13/14 13:15	10/14/14 10:20
SXJ0095-05	EX13-SP-1	Soil	10/13/14 13:40	10/14/14 10:20
SXJ0095-06	EX13-SP-2	Soil	10/13/14 13:45	10/14/14 10:20
SXJ0095-07	EX13-SP-3	Soil	10/13/14 13:50	10/14/14 10:20

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Fuels

Qualifier	Qualifier Description
Q6	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
QP	Hydrocarbon result partly due to individual peak(s) in quantitation range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Client Sample ID: EX13-1-3

Lab Sample ID: SXJ0095-01

Date Collected: 10/13/14 13:00

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 92.4

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.35		mg/kg dry	☼	10/14/14 10:43	10/14/14 18:38	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*96.3*		*41.5 - 162*	*10/14/14 10:43*	*10/14/14 18:38*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**158**	**Q6**	39.6		mg/kg dry	☼	10/14/14 11:19	10/15/14 11:43	1.00
Heavy Oil Range Hydrocarbons	**631**		99.0		mg/kg dry	☼	10/14/14 11:19	10/15/14 11:43	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*50 - 150*	*10/14/14 11:19*	*10/15/14 11:43*	*1.00*
n-Triacontane-d62	*116*		*50 - 150*	*10/14/14 11:19*	*10/15/14 11:43*	*1.00*

Client Sample ID: EX13-2-3

Lab Sample ID: SXJ0095-02

Date Collected: 10/13/14 13:05

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 92.7

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0922	0.00857	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Chloromethane	ND		0.461	0.00488	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Vinyl chloride	ND		0.0553	0.00571	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Bromomethane	ND		0.461	0.0282	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Chloroethane	ND		0.0922	0.0226	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Trichlorofluoromethane	ND		0.0276	0.00728	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,1-Dichloroethene	ND		0.0922	0.0117	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Carbon disulfide	ND		0.0922	0.00986	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Methylene chloride	ND		0.184	0.00479	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Acetone	ND		2.76	0.0802	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
trans-1,2-Dichloroethene	ND		0.0922	0.00949	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Methyl tert-butyl ether	ND		0.0461	0.00295	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,1-Dichloroethane	ND		0.0922	0.0104	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
cis-1,2-Dichloroethene	ND		0.0922	0.00525	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
2,2-Dichloropropane	ND		0.0922	0.0157	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Bromochloromethane	ND		0.0922	0.00359	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Chloroform	ND		0.0922	0.00710	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Carbon tetrachloride	ND		0.0922	0.0192	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,1,1-Trichloroethane	ND		0.0922	0.0159	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
2-Butanone	ND		0.922	0.101	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Hexane	ND		0.0922	0.00746	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,1-Dichloropropene	ND		0.0922	0.0160	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Benzene	ND		0.0138	0.00894	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2-Dichloroethane (EDC)	ND		0.0922	0.00452	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Trichloroethene	ND		0.0230	0.0118	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Dibromomethane	ND		0.0922	0.00839	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2-Dichloropropane	ND		0.0922	0.00553	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Bromodichloromethane	ND		0.0922	0.00645	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
cis-1,3-Dichloropropene	ND		0.0922	0.00571	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Toluene	ND		0.0922	0.0123	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00

Client Sample ID: EX13-2-3
Date Collected: 10/13/14 13:05
Date Received: 10/14/14 10:20

Lab Sample ID: SXJ0095-02
Matrix: Soil
Percent Solids: 92.7

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		0.922	0.0188	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
trans-1,3-Dichloropropene	ND		0.0922	0.00608	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Tetrachloroethene	ND		0.0369	0.0162	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,1,2-Trichloroethane	ND		0.0922	0.00571	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Dibromochloromethane	ND		0.0922	0.00553	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,3-Dichloropropane	ND		0.0922	0.00682	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2-Dibromoethane	ND		0.00922	0.00534	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
2-Hexanone	ND		0.922	0.0429	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Ethylbenzene	ND		0.0922	0.0149	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Chlorobenzene	ND		0.0922	0.00700	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,1,1,2-Tetrachloroethane	ND		0.0922	0.00940	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
m,p-Xylene	ND		0.369	0.0157	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
o-Xylene	ND		0.184	0.0121	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Styrene	ND		0.0922	0.00857	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Bromoform	**0.0184**	**J**	0.0922	0.0115	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Isopropylbenzene	ND		0.0922	0.0175	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
n-Propylbenzene	ND		0.0922	0.0191	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,1,2,2-Tetrachloroethane	ND		0.0922	0.00691	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Bromobenzene	ND		0.0922	0.00866	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,3,5-Trimethylbenzene	ND		0.0922	0.0171	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
2-Chlorotoluene	ND		0.0922	0.0150	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2,3-Trichloropropane	ND		0.0922	0.00774	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
4-Chlorotoluene	ND		0.0922	0.0132	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
tert-Butylbenzene	ND		0.0922	0.0199	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2,4-Trimethylbenzene	ND		0.0922	0.0134	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
sec-Butylbenzene	ND		0.0922	0.0217	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
p-Isopropyltoluene	ND		0.0922	0.0220	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,3-Dichlorobenzene	ND		0.0922	0.0116	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,4-Dichlorobenzene	ND		0.0922	0.00977	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
n-Butylbenzene	ND		0.0922	0.0253	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2-Dichlorobenzene	ND		0.0922	0.00700	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2-Dibromo-3-chloropropane	ND		0.461	0.0262	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Hexachlorobutadiene	ND		0.0922	0.0525	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2,4-Trichlorobenzene	ND		0.0922	0.0183	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
Naphthalene	ND		0.184	0.0125	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00
1,2,3-Trichlorobenzene	ND		0.0922	0.0327	mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.9*		*80 - 120*	*10/14/14 10:43*	*10/14/14 19:01*	*1.00*
1,2-dichloroethane-d4	*94.5*		*74.7 - 120*	*10/14/14 10:43*	*10/14/14 19:01*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*10/14/14 10:43*	*10/14/14 19:01*	*1.00*
4-bromofluorobenzene	*100*		*69.8 - 140*	*10/14/14 10:43*	*10/14/14 19:01*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.61		mg/kg dry	☼	10/14/14 10:43	10/14/14 19:01	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*100*		*41.5 - 162*	*10/14/14 10:43*	*10/14/14 19:01*	*1.00*

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Client Sample ID: EX13-2-3
Date Collected: 10/13/14 13:05
Date Received: 10/14/14 10:20

Lab Sample ID: SXJ0095-02
Matrix: Soil
Percent Solids: 92.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Bis(2-chloroethyl)ether	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2-Chlorophenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
1,3-Dichlorobenzene	ND		53		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
1,4-Dichlorobenzene	ND		53		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Benzyl alcohol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
1,2-Dichlorobenzene	ND		59		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2-Methylphenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
3 & 4 Methylphenol	ND		210		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
N-Nitrosodi-n-propylamine	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Hexachloroethane	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Nitrobenzene	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Isophorone	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2-Nitrophenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2,4-Dimethylphenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Benzoic acid	ND		2700		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Bis(2-chloroethoxy)methane	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2,4-Dichlorophenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
1,2,4-Trichlorobenzene	ND		53		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Naphthalene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
4-Chloroaniline	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Hexachlorobutadiene	ND		53		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
4-Chloro-3-methylphenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2-Methylnaphthalene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Hexachlorocyclopentadiene	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2,4,6-Trichlorophenol	ND		160		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2,4,5-Trichlorophenol	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2-Chloronaphthalene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2-Nitroaniline	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Dimethyl phthalate	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Acenaphthylene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2,6-Dinitrotoluene	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
3-Nitroaniline	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Acenaphthene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2,4-Dinitrophenol	ND		1100		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
4-Nitrophenol	ND		1100		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Dibenzofuran	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
2,4-Dinitrotoluene	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Diethyl phthalate	ND		210		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
4-Chlorophenyl phenyl ether	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Fluorene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
4-Nitroaniline	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
4,6-Dinitro-2-methylphenol	ND		1100		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
N-Nitrosodiphenylamine	ND		53		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
4-Bromophenyl phenyl ether	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Hexachlorobenzene	ND		53		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Pentachlorophenol	ND		210		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Phenanthrene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Anthracene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Client Sample ID: EX13-2-3

Lab Sample ID: SXJ0095-02

Date Collected: 10/13/14 13:05
Matrix: Soil
Date Received: 10/14/14 10:20
Percent Solids: 92.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		530		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Fluoranthene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Pyrene	**39**		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Butyl benzyl phthalate	ND		210		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
3,3'-Dichlorobenzidine	ND		210		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Benzo[a]anthracene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Chrysene	ND		27		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Bis(2-ethylhexyl) phthalate	**740**		640		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Di-n-octyl phthalate	ND		530		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Benzo[a]pyrene	ND		32		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Indeno[1,2,3-cd]pyrene	ND		43		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Dibenz(a,h)anthracene	ND		43		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Benzo[g,h,i]perylene	ND		27		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Carbazole	ND		110		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
1-Methylnaphthalene	ND		32		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Benzo[b]fluoranthene	ND		21		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
Benzo[k]fluoranthene	ND		27		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1
bis (2-chloroisopropyl) ether	ND		270		ug/Kg	☼	10/17/14 10:16	10/18/14 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*87*		*36 - 145*	*10/17/14 10:16*	*10/18/14 23:53*	*1*
Phenol-d5	*86*		*38 - 149*	*10/17/14 10:16*	*10/18/14 23:53*	*1*
Nitrobenzene-d5	*85*		*38 - 141*	*10/17/14 10:16*	*10/18/14 23:53*	*1*
2-Fluorobiphenyl	*87*		*42 - 140*	*10/17/14 10:16*	*10/18/14 23:53*	*1*
2,4,6-Tribromophenol	*94*		*28 - 143*	*10/17/14 10:16*	*10/18/14 23:53*	*1*
Terphenyl-d14	*99*		*42 - 151*	*10/17/14 10:16*	*10/18/14 23:53*	*1*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**85.3**	**Q6**	10.4		mg/kg dry	☼	10/14/14 11:19	10/15/14 12:52	1.00
Heavy Oil Range Hydrocarbons	**296**		26.0		mg/kg dry	☼	10/14/14 11:19	10/15/14 12:52	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*50 - 150*	*10/14/14 11:19*	*10/15/14 12:52*	*1.00*
n-Triacontane-d62	*111*		*50 - 150*	*10/14/14 11:19*	*10/15/14 12:52*	*1.00*

Client Sample ID: EX13-3-3

Lab Sample ID: SXJ0095-03

Date Collected: 10/13/14 13:10
Matrix: Soil
Date Received: 10/14/14 10:20
Percent Solids: 94.7

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.82		mg/kg dry	☼	10/14/14 10:43	10/14/14 19:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*97.1*		*41.5 - 162*	*10/14/14 10:43*	*10/14/14 19:23*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**12.0**	**QP**	10.4		mg/kg dry	☼	10/14/14 11:19	10/15/14 13:16	1.00
Heavy Oil Range Hydrocarbons	ND		26.1		mg/kg dry	☼	10/14/14 11:19	10/15/14 13:16	1.00

Client Sample ID: EX13-3-3

Lab Sample ID: SXJ0095-03

Date Collected: 10/13/14 13:10

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 94.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	115		50 - 150	10/14/14 11:19	10/15/14 13:16	1.00
n-Triacontane-d62	118		50 - 150	10/14/14 11:19	10/15/14 13:16	1.00

Client Sample ID: EX13-4-3

Lab Sample ID: SXJ0095-04

Date Collected: 10/13/14 13:15

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 88.1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.85		mg/kg dry	☼	10/14/14 10:43	10/14/14 19:46	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	94.9		41.5 - 162	10/14/14 10:43	10/14/14 19:46	1.00

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	267	Q6	54.4		mg/kg dry	☼	10/14/14 11:19	10/15/14 13:39	5.00
Heavy Oil Range Hydrocarbons	626		136		mg/kg dry	☼	10/14/14 11:19	10/15/14 13:39	5.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	110		50 - 150	10/14/14 11:19	10/15/14 13:39	5.00
n-Triacontane-d62	117		50 - 150	10/14/14 11:19	10/15/14 13:39	5.00

Client Sample ID: EX13-SP-1

Lab Sample ID: SXJ0095-05

Date Collected: 10/13/14 13:40

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 92.4

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.43		mg/kg dry	☼	10/14/14 10:43	10/14/14 20:08	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	95.0		41.5 - 162	10/14/14 10:43	10/14/14 20:08	1.00

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	140	Q6	55.0		mg/kg dry	☼	10/14/14 11:19	10/15/14 14:03	5.00
Heavy Oil Range Hydrocarbons	565		137		mg/kg dry	☼	10/14/14 11:19	10/15/14 14:03	5.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	113		50 - 150	10/14/14 11:19	10/15/14 14:03	5.00
n-Triacontane-d62	136		50 - 150	10/14/14 11:19	10/15/14 14:03	5.00

Client Sample ID: EX13-SP-2

Lab Sample ID: SXJ0095-06

Date Collected: 10/13/14 13:45

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 93.5

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	7.38		4.98		mg/kg dry	☼	10/14/14 10:43	10/14/14 20:31	1.00

Client Sample ID: EX13-SP-2

Lab Sample ID: SXJ0095-06

Date Collected: 10/13/14 13:45

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 93.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	95.0		41.5 - 162	10/14/14 10:43	10/14/14 20:31	1.00

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	659		31.6		mg/kg dry	☼	10/14/14 11:19	10/15/14 14:27	1.00
Heavy Oil Range Hydrocarbons	751		79.1		mg/kg dry	☼	10/14/14 11:19	10/15/14 14:27	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	149		50 - 150	10/14/14 11:19	10/15/14 14:27	1.00
n-Triacontane-d62	126		50 - 150	10/14/14 11:19	10/15/14 14:27	1.00

Client Sample ID: EX13-SP-3

Lab Sample ID: SXJ0095-07

Date Collected: 10/13/14 13:50

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 94.1

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	17.2		4.46		mg/kg dry	☼	10/14/14 10:43	10/14/14 20:53	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	99.3		41.5 - 162	10/14/14 10:43	10/14/14 20:53	1.00

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	623		27.6		mg/kg dry	☼	10/14/14 11:19	10/15/14 14:51	1.00
Heavy Oil Range Hydrocarbons	636		69.1		mg/kg dry	☼	10/14/14 11:19	10/15/14 14:51	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	145		50 - 150	10/14/14 11:19	10/15/14 14:51	1.00
n-Triacontane-d62	125		50 - 150	10/14/14 11:19	10/15/14 14:51	1.00

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14J0083-BLK1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14J0083_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Methylene chloride	0.0240	J	0.200	0.00520	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2-Dichloropropane	0.0195	J	0.100	0.00600	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Bromodichloromethane	0.0165	J	0.100	0.00700	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Dibromochloromethane	0.0715	J	0.100	0.00600	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Bromoform	0.0715	J	0.100	0.0125	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14J0083-BLK1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14J0083_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.3*		*80 - 120*	*10/14/14 10:43*	*10/14/14 12:27*	*1.00*
1,2-dichloroethane-d4	*95.3*		*74.7 - 120*	*10/14/14 10:43*	*10/14/14 12:27*	*1.00*
Toluene-d8	*105*		*78.5 - 125*	*10/14/14 10:43*	*10/14/14 12:27*	*1.00*
4-bromofluorobenzene	*99.3*		*69.8 - 140*	*10/14/14 10:43*	*10/14/14 12:27*	*1.00*

Lab Sample ID: 14J0083-BS1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14J0083_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.443		mg/kg wet		88.6	60.5 - 130
Chloromethane	0.500	0.462	J	mg/kg wet		92.4	68.9 - 130
Vinyl chloride	0.500	0.489		mg/kg wet		97.8	74 - 142
Bromomethane	0.500	0.514		mg/kg wet		103	70.5 - 146
Chloroethane	0.500	0.443		mg/kg wet		88.6	60 - 140
Trichlorofluoromethane	0.500	0.490		mg/kg wet		97.9	70.5 - 139
1,1-Dichloroethene	0.500	0.505		mg/kg wet		101	72.9 - 135
Carbon disulfide	0.500	0.480		mg/kg wet		96.1	66.8 - 146
Methylene chloride	0.500	0.556		mg/kg wet		111	60 - 140
Acetone	2.50	2.48	J	mg/kg wet		99.2	39.2 - 145
trans-1,2-Dichloroethene	0.500	0.472		mg/kg wet		94.3	60 - 140
Methyl tert-butyl ether	0.500	0.455		mg/kg wet		91.0	60 - 140
1,1-Dichloroethane	0.500	0.530		mg/kg wet		106	80 - 131
cis-1,2-Dichloroethene	0.500	0.512		mg/kg wet		102	80 - 126
2,2-Dichloropropane	0.500	0.504		mg/kg wet		101	71.5 - 132
Bromochloromethane	0.500	0.519		mg/kg wet		104	69.1 - 139
Chloroform	0.500	0.516		mg/kg wet		103	80 - 130
Carbon tetrachloride	0.500	0.515		mg/kg wet		103	73.6 - 148

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14J0083-BS1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14J0083_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.504		mg/kg wet		101	74.3 - 138
2-Butanone	2.50	2.27		mg/kg wet		90.7	56.1 - 124
Hexane	0.500	0.464		mg/kg wet		92.7	77 - 130
1,1-Dichloropropene	0.500	0.517		mg/kg wet		103	78.3 - 132
Benzene	0.500	0.521		mg/kg wet		104	75.8 - 123
1,2-Dichloroethane (EDC)	0.500	0.504		mg/kg wet		101	71.1 - 142
Trichloroethene	0.500	0.514		mg/kg wet		103	78.5 - 134
Dibromomethane	0.500	0.483		mg/kg wet		96.6	80 - 129
1,2-Dichloropropane	0.500	0.515		mg/kg wet		103	50.8 - 155
Bromodichloromethane	0.500	0.510		mg/kg wet		102	80 - 128
cis-1,3-Dichloropropene	0.500	0.512		mg/kg wet		102	80 - 126
Toluene	0.500	0.542		mg/kg wet		108	76.6 - 125
4-Methyl-2-pentanone	2.50	2.42		mg/kg wet		96.7	66.4 - 131
trans-1,3-Dichloropropene	0.500	0.495		mg/kg wet		99.0	79 - 124
Tetrachloroethene	0.500	0.551		mg/kg wet		110	80 - 127
1,1,2-Trichloroethane	0.500	0.500		mg/kg wet		100	78.4 - 125
Dibromochloromethane	0.500	0.580		mg/kg wet		116	78.4 - 127
1,3-Dichloropropane	0.500	0.496		mg/kg wet		99.3	80 - 125
1,2-Dibromoethane	0.500	0.520		mg/kg wet		104	77.1 - 129
2-Hexanone	2.50	2.42		mg/kg wet		96.8	64.6 - 127
Ethylbenzene	0.500	0.496		mg/kg wet		99.2	77.3 - 121
Chlorobenzene	0.500	0.502		mg/kg wet		100	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.514		mg/kg wet		103	80 - 120
m,p-Xylene	0.500	0.520		mg/kg wet		104	77.7 - 124
o-Xylene	0.500	0.507		mg/kg wet		101	76.7 - 129
Styrene	0.500	0.519		mg/kg wet		104	80 - 128
Bromoform	0.500	0.542		mg/kg wet		108	76 - 135
Isopropylbenzene	0.500	0.500		mg/kg wet		100	78.4 - 131
n-Propylbenzene	0.500	0.483		mg/kg wet		96.6	80 - 120
1,1,2,2-Tetrachloroethane	0.500	0.488		mg/kg wet		97.6	60.3 - 137
Bromobenzene	0.500	0.462		mg/kg wet		92.3	60 - 140
1,3,5-Trimethylbenzene	0.500	0.491		mg/kg wet		98.2	80 - 121
2-Chlorotoluene	0.500	0.502		mg/kg wet		100	80 - 123
1,2,3-Trichloropropane	0.500	0.466		mg/kg wet		93.3	59.9 - 131
4-Chlorotoluene	0.500	0.492		mg/kg wet		98.5	80 - 124
tert-Butylbenzene	0.500	0.496		mg/kg wet		99.2	78.8 - 130
1,2,4-Trimethylbenzene	0.500	0.520		mg/kg wet		104	80 - 122
sec-Butylbenzene	0.500	0.498		mg/kg wet		99.7	80 - 120
p-Isopropyltoluene	0.500	0.492		mg/kg wet		98.5	67.2 - 147
1,3-Dichlorobenzene	0.500	0.499		mg/kg wet		99.8	80 - 122
1,4-Dichlorobenzene	0.500	0.494		mg/kg wet		98.8	80 - 125
n-Butylbenzene	0.500	0.494		mg/kg wet		98.9	80 - 120
1,2-Dichlorobenzene	0.500	0.501		mg/kg wet		100	80 - 124
1,2-Dibromo-3-chloropropane	0.500	0.495	J	mg/kg wet		99.0	60 - 140
Hexachlorobutadiene	0.500	0.518		mg/kg wet		104	71.8 - 138
1,2,4-Trichlorobenzene	0.500	0.487		mg/kg wet		97.4	75.3 - 126
Naphthalene	0.500	0.516		mg/kg wet		103	55.1 - 142
1,2,3-Trichlorobenzene	0.500	0.493		mg/kg wet		98.6	69.6 - 127

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14J0083-BS1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14J0083_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*100*		*80 - 120*
1,2-dichloroethane-d4	*99.3*		*74.7 - 120*
Toluene-d8	*102*		*78.5 - 125*
4-bromofluorobenzene	*100*		*69.8 - 140*

Lab Sample ID: 14J0083-BSD1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14J0083_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			0.500	0.428		mg/kg wet		85.7	60.5 - 130	3.33	25
Chloromethane			0.500	0.434	J	mg/kg wet		86.7	68.9 - 130	6.37	25
Vinyl chloride			0.500	0.464		mg/kg wet		92.9	74 - 142	5.14	25
Bromomethane			0.500	0.466	J	mg/kg wet		93.2	70.5 - 146	9.80	25
Chloroethane			0.500	0.414		mg/kg wet		82.7	60 - 140	6.89	25
Trichlorofluoromethane			0.500	0.472		mg/kg wet		94.3	70.5 - 139	3.75	25
1,1-Dichloroethene			0.500	0.478		mg/kg wet		95.5	72.9 - 135	5.60	25
Carbon disulfide			0.500	0.466		mg/kg wet		93.2	66.8 - 146	3.06	25
Methylene chloride			0.500	0.534		mg/kg wet		107	60 - 140	3.94	25
Acetone			2.50	2.44	J	mg/kg wet		97.4	39.2 - 145	1.83	25
trans-1,2-Dichloroethene			0.500	0.449		mg/kg wet		89.8	60 - 140	4.89	25
Methyl tert-butyl ether			0.500	0.443		mg/kg wet		88.6	60 - 140	2.67	25
1,1-Dichloroethane			0.500	0.508		mg/kg wet		102	80 - 131	4.34	25
cis-1,2-Dichloroethene			0.500	0.490		mg/kg wet		98.1	80 - 126	4.19	25
2,2-Dichloropropane			0.500	0.471		mg/kg wet		94.2	71.5 - 132	6.67	25
Bromochloromethane			0.500	0.510		mg/kg wet		102	69.1 - 139	1.65	25
Chloroform			0.500	0.495		mg/kg wet		99.0	80 - 130	4.06	25
Carbon tetrachloride			0.500	0.489		mg/kg wet		97.8	73.6 - 148	5.18	25
1,1,1-Trichloroethane			0.500	0.472		mg/kg wet		94.5	74.3 - 138	6.55	25
2-Butanone			2.50	2.20		mg/kg wet		88.2	56.1 - 124	2.84	25
Hexane			0.500	0.446		mg/kg wet		89.3	77 - 130	3.74	25
1,1-Dichloropropene			0.500	0.491		mg/kg wet		98.2	78.3 - 132	5.16	25
Benzene			0.500	0.499		mg/kg wet		99.8	75.8 - 123	4.31	25
1,2-Dichloroethane (EDC)			0.500	0.494		mg/kg wet		98.7	71.1 - 142	2.20	25
Trichloroethene			0.500	0.495		mg/kg wet		99.0	78.5 - 134	3.67	25
Dibromomethane			0.500	0.480		mg/kg wet		96.0	80 - 129	0.623	25
1,2-Dichloropropane			0.500	0.498		mg/kg wet		99.5	50.8 - 155	3.46	25
Bromodichloromethane			0.500	0.494		mg/kg wet		98.7	80 - 128	3.29	25
cis-1,3-Dichloropropene			0.500	0.494		mg/kg wet		98.8	80 - 126	3.48	25
Toluene			0.500	0.520		mg/kg wet		104	76.6 - 125	3.95	25
4-Methyl-2-pentanone			2.50	2.39		mg/kg wet		95.7	66.4 - 131	1.06	25
trans-1,3-Dichloropropene			0.500	0.492		mg/kg wet		98.3	79 - 124	0.710	25
Tetrachloroethene			0.500	0.526		mg/kg wet		105	80 - 127	4.74	25
1,1,2-Trichloroethane			0.500	0.498		mg/kg wet		99.7	78.4 - 125	0.400	25
Dibromochloromethane			0.500	0.571		mg/kg wet		114	78.4 - 127	1.48	25
1,3-Dichloropropane			0.500	0.500		mg/kg wet		100	80 - 125	0.702	25
1,2-Dibromoethane			0.500	0.519		mg/kg wet		104	77.1 - 129	0.192	25
2-Hexanone			2.50	2.39		mg/kg wet		95.4	64.6 - 127	1.39	25

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14J0083-BSD1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14J0083_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			0.500	0.484		mg/kg wet		96.9	77.3 - 121	2.35	25
Chlorobenzene			0.500	0.484		mg/kg wet		96.9	80 - 120	3.55	25
1,1,1,2-Tetrachloroethane			0.500	0.495		mg/kg wet		99.0	80 - 120	3.67	25
m,p-Xylene			0.500	0.502		mg/kg wet		100	77.7 - 124	3.52	25
o-Xylene			0.500	0.490		mg/kg wet		97.9	76.7 - 129	3.51	25
Styrene			0.500	0.505		mg/kg wet		101	80 - 128	2.73	25
Bromoform			0.500	0.548		mg/kg wet		110	76 - 135	1.10	25
Isopropylbenzene			0.500	0.483		mg/kg wet		96.6	78.4 - 131	3.56	25
n-Propylbenzene			0.500	0.462		mg/kg wet		92.5	80 - 120	4.34	25
1,1,2,2-Tetrachloroethane			0.500	0.484		mg/kg wet		96.7	60.3 - 137	0.926	25
Bromobenzene			0.500	0.446		mg/kg wet		89.3	60 - 140	3.30	25
1,3,5-Trimethylbenzene			0.500	0.468		mg/kg wet		93.6	80 - 121	4.80	25
2-Chlorotoluene			0.500	0.483		mg/kg wet		96.6	80 - 123	3.76	25
1,2,3-Trichloropropane			0.500	0.474		mg/kg wet		94.9	59.9 - 131	1.70	25
4-Chlorotoluene			0.500	0.481		mg/kg wet		96.2	80 - 124	2.36	25
tert-Butylbenzene			0.500	0.474		mg/kg wet		94.7	78.8 - 130	4.64	25
1,2,4-Trimethylbenzene			0.500	0.500		mg/kg wet		99.9	80 - 122	4.12	25
sec-Butylbenzene			0.500	0.479		mg/kg wet		95.8	80 - 120	3.99	25
p-Isopropyltoluene			0.500	0.484		mg/kg wet		96.8	67.2 - 147	1.74	25
1,3-Dichlorobenzene			0.500	0.485		mg/kg wet		97.0	80 - 122	2.85	25
1,4-Dichlorobenzene			0.500	0.487		mg/kg wet		97.4	80 - 125	1.43	25
n-Butylbenzene			0.500	0.483		mg/kg wet		96.6	80 - 120	2.35	25
1,2-Dichlorobenzene			0.500	0.490		mg/kg wet		98.0	80 - 124	2.22	25
1,2-Dibromo-3-chloropropane			0.500	0.480	J	mg/kg wet		96.0	60 - 140	3.08	25
Hexachlorobutadiene			0.500	0.512		mg/kg wet		102	71.8 - 138	1.26	25
1,2,4-Trichlorobenzene			0.500	0.488		mg/kg wet		97.5	75.3 - 126	0.103	25
Naphthalene			0.500	0.492		mg/kg wet		98.3	55.1 - 142	4.96	25
1,2,3-Trichlorobenzene			0.500	0.480		mg/kg wet		95.9	69.6 - 127	2.78	25

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
Dibromofluoromethane	*100*		*80 - 120*
1,2-dichloroethane-d4	*97.5*		*74.7 - 120*
Toluene-d8	*102*		*78.5 - 125*
4-bromofluorobenzene	*99.9*		*69.8 - 140*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14J0083-BLK1
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14J0083_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		10/14/14 10:43	10/14/14 12:27	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*99.3*		*41.5 - 162*	*10/14/14 10:43*	*10/14/14 12:27*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx (Continued)

Lab Sample ID: 14J0083-BS2
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14J0083_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Hydrocarbons			50.0	47.9		mg/kg wet		95.8	74.4 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-bromofluorobenzene	*100*		*41.5 - 162*

Lab Sample ID: 14J0083-BSD2
Matrix: Soil
Analysis Batch: 14J0083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14J0083_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Hydrocarbons			50.0	46.9		mg/kg wet		93.7	74.4 - 124	2.20	20

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
4-bromofluorobenzene	*104*		*41.5 - 162*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-172976/1-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Bis(2-chloroethyl)ether	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2-Chlorophenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
1,3-Dichlorobenzene	ND		50		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
1,4-Dichlorobenzene	ND		50		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Benzyl alcohol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
1,2-Dichlorobenzene	ND		55		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2-Methylphenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
3 & 4 Methylphenol	ND		200		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
N-Nitrosodi-n-propylamine	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Hexachloroethane	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Nitrobenzene	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Isophorone	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2-Nitrophenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2,4-Dimethylphenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Benzoic acid	ND		2500		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Bis(2-chloroethoxy)methane	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2,4-Dichlorophenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
1,2,4-Trichlorobenzene	ND		50		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Naphthalene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
4-Chloroaniline	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Hexachlorobutadiene	ND		50		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
4-Chloro-3-methylphenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2-Methylnaphthalene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Hexachlorocyclopentadiene	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-172976/1-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		150		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2,4,5-Trichlorophenol	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2-Chloronaphthalene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2-Nitroaniline	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Dimethyl phthalate	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Acenaphthylene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2,6-Dinitrotoluene	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
3-Nitroaniline	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Acenaphthene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2,4-Dinitrophenol	ND		1000		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
4-Nitrophenol	ND		1000		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Dibenzofuran	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
2,4-Dinitrotoluene	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Diethyl phthalate	ND		200		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
4-Chlorophenyl phenyl ether	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Fluorene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
4-Nitroaniline	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
4,6-Dinitro-2-methylphenol	ND		1000		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
N-Nitrosodiphenylamine	ND		50		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
4-Bromophenyl phenyl ether	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Hexachlorobenzene	ND		50		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Pentachlorophenol	ND		200		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Phenanthrene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Anthracene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Di-n-butyl phthalate	ND		500		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Fluoranthene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Pyrene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Butyl benzyl phthalate	ND		200		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
3,3'-Dichlorobenzidine	ND		200		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Benzo[a]anthracene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Chrysene	ND		25		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Bis(2-ethylhexyl) phthalate	ND		600		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Di-n-octyl phthalate	ND		500		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Benzo[a]pyrene	ND		30		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Dibenz(a,h)anthracene	ND		40		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Benzo[g,h,i]perylene	ND		25		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Carbazole	ND		100		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
1-Methylnaphthalene	ND		30		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Benzo[b]fluoranthene	ND		20		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
Benzo[k]fluoranthene	ND		25		ug/Kg		10/17/14 10:16	10/18/14 16:23	1
bis (2-chloroisopropyl) ether	ND		250		ug/Kg		10/17/14 10:16	10/18/14 16:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*77*		*36 - 145*	*10/17/14 10:16*	*10/18/14 16:23*	*1*
Phenol-d5	*79*		*38 - 149*	*10/17/14 10:16*	*10/18/14 16:23*	*1*
Nitrobenzene-d5	*82*		*38 - 141*	*10/17/14 10:16*	*10/18/14 16:23*	*1*
2-Fluorobiphenyl	*77*		*42 - 140*	*10/17/14 10:16*	*10/18/14 16:23*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-172976/1-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 172976

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		28 - 143	10/17/14 10:16	10/18/14 16:23	1
Terphenyl-d14	89		42 - 151	10/17/14 10:16	10/18/14 16:23	1

Lab Sample ID: LCS 580-172976/2-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1000	773		ug/Kg		77	63 - 111
Bis(2-chloroethyl)ether	1000	805		ug/Kg		80	62 - 110
2-Chlorophenol	1000	777		ug/Kg		78	68 - 117
1,3-Dichlorobenzene	1000	787		ug/Kg		79	64 - 111
1,4-Dichlorobenzene	1000	801		ug/Kg		80	65 - 110
Benzyl alcohol	1000	564		ug/Kg		56	55 - 123
1,2-Dichlorobenzene	1000	777		ug/Kg		78	64 - 112
2-Methylphenol	1000	805		ug/Kg		81	71 - 116
3 & 4 Methylphenol	1000	751		ug/Kg		75	70 - 116
N-Nitrosodi-n-propylamine	1000	710		ug/Kg		71	62 - 116
Hexachloroethane	1000	804		ug/Kg		80	62 - 120
Nitrobenzene	1000	781		ug/Kg		78	64 - 118
Isophorone	1000	781		ug/Kg		78	67 - 119
2-Nitrophenol	1000	785		ug/Kg		78	67 - 127
2,4-Dimethylphenol	1000	773		ug/Kg		77	54 - 139
Benzoic acid	2000	881	J	ug/Kg		44	29 - 158
Bis(2-chloroethoxy)methane	1000	816		ug/Kg		82	69 - 107
2,4-Dichlorophenol	1000	742		ug/Kg		74	68 - 125
1,2,4-Trichlorobenzene	1000	833		ug/Kg		83	66 - 115
Naphthalene	1000	798		ug/Kg		80	62 - 112
4-Chloroaniline	1000	267		ug/Kg		27	20 - 103
Hexachlorobutadiene	1000	834		ug/Kg		83	65 - 116
4-Chloro-3-methylphenol	1000	859		ug/Kg		86	69 - 121
2-Methylnaphthalene	1000	772		ug/Kg		77	64 - 119
Hexachlorocyclopentadiene	1000	790		ug/Kg		79	46 - 131
2,4,6-Trichlorophenol	1000	757		ug/Kg		76	62 - 133
2,4,5-Trichlorophenol	1000	887		ug/Kg		89	57 - 133
2-Chloronaphthalene	1000	752		ug/Kg		75	68 - 112
2-Nitroaniline	1000	765		ug/Kg		76	64 - 112
Dimethyl phthalate	1000	852		ug/Kg		85	78 - 117
Acenaphthylene	1000	828		ug/Kg		83	68 - 120
2,6-Dinitrotoluene	1000	829		ug/Kg		83	66 - 123
3-Nitroaniline	1000	447		ug/Kg		45	27 - 103
Acenaphthene	1000	789		ug/Kg		79	68 - 116
2,4-Dinitrophenol	2000	811	J	ug/Kg		41	20 - 141
4-Nitrophenol	2000	974	J	ug/Kg		49	20 - 165
Dibenzofuran	1000	779		ug/Kg		78	72 - 109
2,4-Dinitrotoluene	1000	764		ug/Kg		76	68 - 121
Diethyl phthalate	1000	806		ug/Kg		81	73 - 116
4-Chlorophenyl phenyl ether	1000	816		ug/Kg		82	75 - 108

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-172976/2-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 172976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	1000	790		ug/Kg		79	70 - 121
4-Nitroaniline	1000	655		ug/Kg		65	58 - 108
4,6-Dinitro-2-methylphenol	2000	1010		ug/Kg		51	48 - 130
N-Nitrosodiphenylamine	997	843		ug/Kg		85	73 - 115
4-Bromophenyl phenyl ether	1000	876		ug/Kg		88	68 - 122
Hexachlorobenzene	1000	851		ug/Kg		85	66 - 117
Pentachlorophenol	2000	1340		ug/Kg		67	45 - 117
Phenanthrene	1000	802		ug/Kg		80	73 - 106
Anthracene	1000	781		ug/Kg		78	73 - 116
Di-n-butyl phthalate	1000	834		ug/Kg		83	66 - 140
Fluoranthene	1000	816		ug/Kg		82	73 - 125
Pyrene	1000	791		ug/Kg		79	70 - 120
Butyl benzyl phthalate	1000	794		ug/Kg		79	69 - 142
3,3'-Dichlorobenzidine	2000	1140		ug/Kg		57	20 - 103
Benzo[a]anthracene	1000	763		ug/Kg		76	76 - 119
Chrysene	1000	770		ug/Kg		77	75 - 114
Bis(2-ethylhexyl) phthalate	1000	740		ug/Kg		74	62 - 144
Di-n-octyl phthalate	1000	760		ug/Kg		76	65 - 141
Benzo[a]pyrene	1000	763		ug/Kg		76	72 - 117
Indeno[1,2,3-cd]pyrene	1000	915		ug/Kg		91	56 - 127
Dibenz(a,h)anthracene	1000	946		ug/Kg		95	56 - 134
Benzo[g,h,i]perylene	1000	851		ug/Kg		85	55 - 139
Carbazole	1000	795		ug/Kg		79	76 - 135
1-Methylnaphthalene	1000	782		ug/Kg		78	62 - 118
Benzo[b]fluoranthene	1000	848		ug/Kg		85	63 - 132
Benzo[k]fluoranthene	1000	848		ug/Kg		85	63 - 119
bis (2-chloroisopropyl) ether	1000	666		ug/Kg		67	41 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*77*		*36 - 145*
Phenol-d5	*79*		*38 - 149*
Nitrobenzene-d5	*77*		*38 - 141*
2-Fluorobiphenyl	*73*		*42 - 140*
2,4,6-Tribromophenol	*88*		*28 - 143*
Terphenyl-d14	*85*		*42 - 151*

Lab Sample ID: LCSD 580-172976/3-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	1000	802		ug/Kg		80	63 - 111	4	26
Bis(2-chloroethyl)ether	1000	827		ug/Kg		83	62 - 110	3	22
2-Chlorophenol	1000	822		ug/Kg		82	68 - 117	6	27
1,3-Dichlorobenzene	1000	865		ug/Kg		87	64 - 111	9	30
1,4-Dichlorobenzene	1000	845		ug/Kg		85	65 - 110	5	30
Benzyl alcohol	1000	574		ug/Kg		57	55 - 123	2	60
1,2-Dichlorobenzene	1000	826		ug/Kg		83	64 - 112	6	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-172976/3-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylphenol	1000	851		ug/Kg		85	71 - 116	5	25
3 & 4 Methylphenol	1000	763		ug/Kg		76	70 - 116	2	27
N-Nitrosodi-n-propylamine	1000	760		ug/Kg		76	62 - 116	7	28
Hexachloroethane	1000	847		ug/Kg		85	62 - 120	5	30
Nitrobenzene	1000	818		ug/Kg		82	64 - 118	5	30
Isophorone	1000	808		ug/Kg		81	67 - 119	3	30
2-Nitrophenol	1000	838		ug/Kg		84	67 - 127	7	30
2,4-Dimethylphenol	1000	839		ug/Kg		84	54 - 139	8	30
Benzoic acid	2000	856	J	ug/Kg		43	29 - 158	3	28
Bis(2-chloroethoxy)methane	1000	825		ug/Kg		82	69 - 107	1	30
2,4-Dichlorophenol	1000	858		ug/Kg		86	68 - 125	14	30
1,2,4-Trichlorobenzene	1000	894		ug/Kg		89	66 - 115	7	28
Naphthalene	1000	833		ug/Kg		83	62 - 112	4	26
4-Chloroaniline	1000	256		ug/Kg		26	20 - 103	4	60
Hexachlorobutadiene	1000	931		ug/Kg		93	65 - 116	11	30
4-Chloro-3-methylphenol	1000	885		ug/Kg		89	69 - 121	3	27
2-Methylnaphthalene	1000	826		ug/Kg		83	64 - 119	7	27
Hexachlorocyclopentadiene	1000	806		ug/Kg		81	46 - 131	2	29
2,4,6-Trichlorophenol	1000	814		ug/Kg		81	62 - 133	7	30
2,4,5-Trichlorophenol	1000	882		ug/Kg		88	57 - 133	1	30
2-Chloronaphthalene	1000	786		ug/Kg		79	68 - 112	5	25
2-Nitroaniline	1000	834		ug/Kg		83	64 - 112	9	22
Dimethyl phthalate	1000	892		ug/Kg		89	78 - 117	5	30
Acenaphthylene	1000	894		ug/Kg		89	68 - 120	8	28
2,6-Dinitrotoluene	1000	860		ug/Kg		86	66 - 123	4	30
3-Nitroaniline	1000	451		ug/Kg		45	27 - 103	1	33
Acenaphthene	1000	826		ug/Kg		83	68 - 116	5	27
2,4-Dinitrophenol	2000	783	J	ug/Kg		39	20 - 141	4	36
4-Nitrophenol	2000	991	J	ug/Kg		50	20 - 165	2	30
Dibenzofuran	1000	828		ug/Kg		83	72 - 109	6	30
2,4-Dinitrotoluene	1000	881		ug/Kg		88	68 - 121	14	30
Diethyl phthalate	1000	826		ug/Kg		83	73 - 116	2	26
4-Chlorophenyl phenyl ether	1000	857		ug/Kg		86	75 - 108	5	30
Fluorene	1000	835		ug/Kg		83	70 - 121	5	30
4-Nitroaniline	1000	692		ug/Kg		69	58 - 108	6	32
4,6-Dinitro-2-methylphenol	2000	1070		ug/Kg		54	48 - 130	6	22
N-Nitrosodiphenylamine	997	887		ug/Kg		89	73 - 115	5	30
4-Bromophenyl phenyl ether	1000	867		ug/Kg		87	68 - 122	1	30
Hexachlorobenzene	1000	931		ug/Kg		93	66 - 117	9	30
Pentachlorophenol	2000	1570		ug/Kg		79	45 - 117	16	23
Phenanthrene	1000	858		ug/Kg		86	73 - 106	7	28
Anthracene	1000	838		ug/Kg		84	73 - 116	7	27
Di-n-butyl phthalate	1000	887		ug/Kg		89	66 - 140	6	30
Fluoranthene	1000	835		ug/Kg		84	73 - 125	2	30
Pyrene	1000	835		ug/Kg		84	70 - 120	5	30
Butyl benzyl phthalate	1000	866		ug/Kg		87	69 - 142	9	30
3,3'-Dichlorobenzidine	2000	1210		ug/Kg		61	20 - 103	6	60
Benzo[a]anthracene	1000	842		ug/Kg		84	76 - 119	10	27

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-172976/3-A
Matrix: Solid
Analysis Batch: 173092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 172976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene			1000	837		ug/Kg		84	75 - 114	8	26
Bis(2-ethylhexyl) phthalate			1000	801		ug/Kg		80	62 - 144	8	30
Di-n-octyl phthalate			1000	812		ug/Kg		81	65 - 141	7	30
Benzo[a]pyrene			1000	820		ug/Kg		82	72 - 117	7	30
Indeno[1,2,3-cd]pyrene			1000	954		ug/Kg		95	56 - 127	4	29
Dibenz(a,h)anthracene			1000	953		ug/Kg		95	56 - 134	1	30
Benzo[g,h,i]perylene			1000	953		ug/Kg		95	55 - 139	11	28
Carbazole			1000	860		ug/Kg		86	76 - 135	8	30
1-Methylnaphthalene			1000	796		ug/Kg		80	62 - 118	2	30
Benzo[b]fluoranthene			1000	914		ug/Kg		91	63 - 132	7	30
Benzo[k]fluoranthene			1000	896		ug/Kg		90	63 - 119	5	30
bis (2-chloroisopropyl) ether			1000	709		ug/Kg		71	41 - 126	6	57

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*79*		*36 - 145*
Phenol-d5	*82*		*38 - 149*
Nitrobenzene-d5	*78*		*38 - 141*
2-Fluorobiphenyl	*77*		*42 - 140*
2,4,6-Tribromophenol	*89*		*28 - 143*
Terphenyl-d14	*87*		*42 - 151*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14J0085-BLK1
Matrix: Soil
Analysis Batch: 14J0085

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14J0085_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		10/14/14 11:19	10/15/14 09:23	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		10/14/14 11:19	10/15/14 09:23	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*50 - 150*	*10/14/14 11:19*	*10/15/14 09:23*	*1.00*
n-Triacontane-d62	*109*		*50 - 150*	*10/14/14 11:19*	*10/15/14 09:23*	*1.00*

Lab Sample ID: 14J0085-BS1
Matrix: Soil
Analysis Batch: 14J0085

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14J0085_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			66.7	82.1		mg/kg wet		123	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*108*		*50 - 150*
n-Triacontane-d62	*112*		*50 - 150*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

Lab Sample ID: 14J0085-BSD1
Matrix: Soil
Analysis Batch: 14J0085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14J0085_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Hydrocarbons			66.7	81.3		mg/kg wet		122	50 - 150	0.926	25

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
o-Terphenyl	*109*		*50 - 150*
n-Triacontane-d62	*111*		*50 - 150*

Lab Sample ID: 14J0085-DUP1
Matrix: Soil
Analysis Batch: 14J0085

Client Sample ID: EX13-1-3
Prep Type: Total
Prep Batch: 14J0085_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Hydrocarbons	158			164	Q6	mg/kg dry	☼			3.24	40
Heavy Oil Range Hydrocarbons	631			711		mg/kg dry	☼			11.9	40

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
o-Terphenyl	*111*		*50 - 150*
n-Triacontane-d62	*138*		*50 - 150*

Client Sample ID: EX13-1-3

Lab Sample ID: SXJ0095-01

Date Collected: 10/13/14 13:00

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.912	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14J0083	10/14/14 18:38	CBW	TAL SPK
Total	Prep	EPA 3550B		3.66	14J0085_P	10/14/14 11:19	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14J0085	10/15/14 11:43	NMI	TAL SPK
Total	Prep	Wet Chem		1.00	14J0104_P	10/14/14 15:30	IAB	TAL SPK
Total	Analysis	TA SOP		1.00	14J0104	10/16/14 12:24	NI	TAL SPK

Client Sample ID: EX13-2-3

Lab Sample ID: SXJ0095-02

Date Collected: 10/13/14 13:05

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.781	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14J0083	10/14/14 19:01	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		0.781	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14J0083	10/14/14 19:01	CBW	TAL SPK
Total/NA	Prep	3550B			172976	10/17/14 10:16	ALL	TAL SEA
Total/NA	Analysis	8270C		1	173092	10/18/14 23:53	AHP	TAL SEA
Total	Prep	EPA 3550B		0.965	14J0085_P	10/14/14 11:19	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14J0085	10/15/14 12:52	NMI	TAL SPK
Total/NA	Analysis	D 2216		1	172927	10/16/14 18:02	CRH	TAL SEA

Client Sample ID: EX13-3-3

Lab Sample ID: SXJ0095-03

Date Collected: 10/13/14 13:10

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.859	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14J0083	10/14/14 19:23	CBW	TAL SPK
Total	Prep	EPA 3550B		0.987	14J0085_P	10/14/14 11:19	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14J0085	10/15/14 13:16	NMI	TAL SPK

Client Sample ID: EX13-4-3

Lab Sample ID: SXJ0095-04

Date Collected: 10/13/14 13:15

Matrix: Soil

Date Received: 10/14/14 10:20

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.912	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14J0083	10/14/14 19:46	CBW	TAL SPK
Total	Prep	EPA 3550B		0.959	14J0085_P	10/14/14 11:19	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	14J0085	10/15/14 13:39	NMI	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Client Sample ID: EX13-SP-1

Lab Sample ID: SXJ0095-05

Date Collected: 10/13/14 13:40
Matrix: Soil
Date Received: 10/14/14 10:20
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.928	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14J0083	10/14/14 20:08	CBW	TAL SPK
Total	Prep	EPA 3550B		1.02	14J0085_P	10/14/14 11:19	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	14J0085	10/15/14 14:03	NMI	TAL SPK

Client Sample ID: EX13-SP-2

Lab Sample ID: SXJ0095-06

Date Collected: 10/13/14 13:45
Matrix: Soil
Date Received: 10/14/14 10:20
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.867	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14J0083	10/14/14 20:31	CBW	TAL SPK
Total	Prep	EPA 3550B		2.96	14J0085_P	10/14/14 11:19	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14J0085	10/15/14 14:27	NMI	TAL SPK

Client Sample ID: EX13-SP-3

Lab Sample ID: SXJ0095-07

Date Collected: 10/13/14 13:50
Matrix: Soil
Date Received: 10/14/14 10:20
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.781	14J0083_P	10/14/14 10:43	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14J0083	10/14/14 20:53	CBW	TAL SPK
Total	Prep	EPA 3550B		2.60	14J0085_P	10/14/14 11:19	IAB	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14J0085	10/15/14 14:51	NMI	TAL SPK

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-15
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXJ0095

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SEA
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
D 2216	Percent Moisture	ASTM	TAL SEA
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order # SXT0095

CLIENT: Geoengineers

REPORT TO: Dave Lauder DLauder@geoengineers.com

ADDRESS: 523 E Second Ave Spokane, WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO: Port of Chelan

P.O. NUMBER:

PROJECT NAME: Cashmere

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JML

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | X | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | X | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		PRESERVATIVE	REQUESTED ANALYSES: NWTPH-Gx	NWTPH-Dx	VOCs	SVOCs	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	EX13-1-3	10/13/2014	1300		X	X			S	3		
2	EX13-2-3	"	1305		"	"	X	X	"	4		
3	EX13-3-3	"	1310		"	"	"	"	"	3		
4	EX13-4-3	"	1315		"	"	"	"	"	3		
5	EX13-SP-1	"	1340		"	"	"	"	"	3		
6	EX13-SP-2	"	1345		"	"	"	"	"	3		
7	EX13-SP-3	"	1350		"	"	"	"	"	3		
8												
9												
10												

RELEASED BY: Justin Rice DATE: 10/14/14

PRINT NAME: JR FIRM: Geo TIME: 1020

RECEIVED BY: Pat Stapleton DATE: 10-14-14

PRINT NAME: FIRM: TA TIME: 10:20

RELEASED BY: DATE:

PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:

PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 4.0 PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXJ0095	Client: GeoEngineers	Project: Cashmere
Date/Time Received: 10-14-14 10:20	By: CS	

Samples Delivered By: ☐ Shipping Service ☒ Courier ☐ Client ☐ Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill: Y

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐ Blue Ice ☐ Gel Ice ☒ Real Ice ☐ Dry ice ☐ None ☐ Other: _____

Temperature: 4.0 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐ Not enough Ice ☐ Ice melted ☐ w/in 4hrs of collection ☐ NA ☐ Other: _____

Log-in Phase Date/Time: 10-14-14 11:15 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis	X			2 days
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated # _____			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



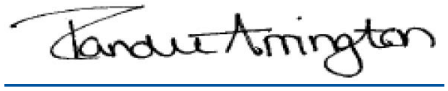
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXG0084
Client Project/Site: [none]
Client Project Description: Wenatchee Pit

For:
Tommer Construction Company, Inc.
PO Box 1150
Ephrata, WA 98823

Attn: Chris Tommer



Authorized for release by:
7/30/2014 12:59:43 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 5
Definitions 6
Client Sample Results 7
QC Sample Results 16
Chronicle 32
Certification Summary 33
Method Summary 35
Chain of Custody 36

Job ID: SXG0084

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: TestAmerica Laboratories, Inc
Project: Tommer Construction Company, Inc.
Report Number: 280-57770-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 07/15/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - METHOD 8270C
Bis(2-ethylhexyl) phthalate was detected in method blank MB 280-234632/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Laboratory: TestAmerica Spokane

Narrative

Receipt
The sample(s) were received on 7/14/2014 11:50:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5 ºC.

GC/MS VOA Method 8260C
Methylene chloride was detected in samples SXG0084-01 (Westside) and SXG0084-02 (Eastside) below the method reporting limit but above the method detection limit. Methylene chloride is a common lab solvent and contaminant. All other analytes were ND.

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: TestAmerica Laboratories, Inc

Project: Analytical Subcontract

Job ID: SXG0084 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Report Number: 160-7625-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 07/25/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

ORGANOCHLORINE PESTICIDES (GC)

Samples SXG0084-01 (160-7625-1) and SXG0084-02 (160-7625-2) were analyzed for Organochlorine Pesticides (GC) in accordance with EPA SW-846 Method 8081B. The samples were prepared on 07/25/2014 and analyzed on 07/25/2014 and 07/26/2014.

The matrix spike / matrix spike duplicate (MS/MSD) alpha-BHC recoveries for batch 133953 were outside the upper control limits. Samples associated with this MS and MSD was ND for this analyte and the associated laboratory control sample (LCS) recovery was within acceptance limits. Sample data is reported with this narrative. (160-7625-1 MS), (160-7625-1 MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples SXG0084-01 (160-7625-1) and SXG0084-02 (160-7625-2) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/26/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXG0084-01	Westside	Soil	07/11/14 15:00	07/14/14 11:50
SXG0084-02	Eastside	Soil	07/11/14 15:00	07/14/14 11:50

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
S2	Compound is a common lab solvent and contaminant.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

TSLO

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Westside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-01
Matrix: Soil
Percent Solids: 93.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Chloromethane	ND		0.508		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Vinyl chloride	ND		0.0609		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Bromomethane	ND		0.508		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Chloroethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Trichlorofluoromethane	ND		0.0305		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,1-Dichloroethene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Carbon disulfide	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Methylene chloride	**0.0203**	**S2**	0.0203		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Acetone	ND		3.05		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
trans-1,2-Dichloroethene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Methyl tert-butyl ether	ND		0.0508		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,1-Dichloroethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
cis-1,2-Dichloroethene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
2,2-Dichloropropane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Bromochloromethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Chloroform	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Carbon tetrachloride	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,1,1-Trichloroethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
2-Butanone	ND		1.02		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Hexane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,1-Dichloropropene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Benzene	ND		0.0152		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2-Dichloroethane (EDC)	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Trichloroethene	ND		0.0254		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Dibromomethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2-Dichloropropane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Bromodichloromethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
cis-1,3-Dichloropropene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Toluene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
4-Methyl-2-pentanone	ND		1.02		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
trans-1,3-Dichloropropene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Tetrachloroethene	ND		0.0406		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,1,2-Trichloroethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Dibromochloromethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,3-Dichloropropane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2-Dibromoethane	ND		0.0102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
2-Hexanone	ND		1.02		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Ethylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Chlorobenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,1,1,2-Tetrachloroethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
m,p-Xylene	ND		0.406		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
o-Xylene	ND		0.203		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Styrene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Bromoform	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Isopropylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
n-Propylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,1,2,2-Tetrachloroethane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Bromobenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Westside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-01
Matrix: Soil
Percent Solids: 93.5

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
2-Chlorotoluene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2,3-Trichloropropane	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
4-Chlorotoluene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
tert-Butylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2,4-Trimethylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
sec-Butylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
p-Isopropyltoluene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,3-Dichlorobenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,4-Dichlorobenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
n-Butylbenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2-Dichlorobenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2-Dibromo-3-chloropropane	ND		0.508		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Hexachlorobutadiene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2,4-Trichlorobenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
Naphthalene	ND		0.203		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00
1,2,3-Trichlorobenzene	ND		0.102		mg/kg dry	☼	07/16/14 07:59	07/17/14 00:43	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.3*		*42.4 - 163*	*07/16/14 07:59*	*07/17/14 00:43*	*1.00*
1,2-dichloroethane-d4	*92.8*		*50 - 150*	*07/16/14 07:59*	*07/17/14 00:43*	*1.00*
Toluene-d8	*104*		*45.8 - 155*	*07/16/14 07:59*	*07/17/14 00:43*	*1.00*
4-bromofluorobenzene	*104*		*41.5 - 162*	*07/16/14 07:59*	*07/17/14 00:43*	*1.00*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.30	0.0094	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Acenaphthylene	ND		0.30	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Acetophenone	ND		0.30	0.018	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Anthracene	ND		0.30	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Atrazine	ND		0.30	0.034	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Benzidine	ND		3.0	0.91	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Benzo[a]anthracene	ND		0.30	0.018	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Benzo[a]pyrene	ND		0.30	0.018	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Benzo[b]fluoranthene	ND		0.30	0.024	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Benzo[g,h,i]perylene	ND		0.30	0.015	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Benzo[k]fluoranthene	ND		0.30	0.037	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Bis(2-chloroethoxy)methane	ND		0.30	0.021	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Bis(2-chloroethyl)ether	ND		0.30	0.015	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Bis(2-ethylhexyl) phthalate	ND		0.30	0.042	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
4-Bromophenyl phenyl ether	ND		0.30	0.017	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Butyl benzyl phthalate	ND		0.30	0.039	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Caprolactam	ND		1.5	0.097	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Carbazole	ND		0.30	0.033	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
4-Chloroaniline	ND		0.30	0.075	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
4-Chloro-3-methylphenol	ND		0.30	0.060	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2-Chloronaphthalene	ND		0.30	0.0091	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2-Chlorophenol	ND		0.30	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
4-Chlorophenyl phenyl ether	ND		0.30	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Chrysene	ND		0.30	0.025	mg/Kg		07/16/14 16:41	07/17/14 15:54	1

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Westside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-01
Matrix: Soil

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cresols, Total	ND		0.30	0.012	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Dibenz(a,h)anthracene	ND		0.30	0.017	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Dibenzofuran	ND		0.30	0.018	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
1,4-Dichlorobenzene	ND		0.30	0.012	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
3,3'-Dichlorobenzidine	ND		0.60	0.082	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,4-Dichlorophenol	ND		0.30	0.0091	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Diethyl phthalate	ND		0.60	0.024	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,4-Dimethylphenol	ND		0.30	0.060	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Dimethyl phthalate	ND		0.30	0.021	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Di-n-butyl phthalate	ND		0.30	0.027	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
4,6-Dinitro-2-methylphenol	ND		1.5	0.30	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,4-Dinitrophenol	ND		1.5	0.30	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,4-Dinitrotoluene	ND		0.30	0.060	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,6-Dinitrotoluene	ND		0.30	0.026	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Di-n-octyl phthalate	ND		0.30	0.013	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Fluoranthene	ND		0.30	0.033	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Fluorene	ND		0.30	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Hexachlorobenzene	ND		0.30	0.027	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Hexachlorobutadiene	ND		0.30	0.0091	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Hexachlorocyclopentadiene	ND		1.5	0.046	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Hexachloroethane	ND		0.30	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Indeno[1,2,3-cd]pyrene	ND		0.30	0.020	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2-Methylnaphthalene	ND		0.30	0.017	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2-Methylphenol	ND		0.30	0.012	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
3 & 4 Methylphenol	ND		0.30	0.030	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Naphthalene	ND		0.30	0.028	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2-Nitroaniline	ND		1.5	0.046	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
3-Nitroaniline	ND		1.5	0.067	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
4-Nitroaniline	ND		1.5	0.066	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Nitrobenzene	ND		0.30	0.020	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2-Nitrophenol	ND		0.30	0.0091	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
4-Nitrophenol	ND		1.5	0.089	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
N-Nitrosodi-n-propylamine	ND		0.30	0.028	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.30	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,2'-oxybis[1-chloropropane]	ND		0.30	0.021	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Pentachlorophenol	ND		1.5	0.30	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Phenanthrene	ND		0.30	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Phenol	ND		0.30	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
Pyrene	ND		0.30	0.011	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
1,2,4-Trichlorobenzene	ND		0.30	0.026	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,4,5-Trichlorophenol	ND		0.30	0.0091	mg/Kg		07/16/14 16:41	07/17/14 15:54	1
2,4,6-Trichlorophenol	ND		0.30	0.0091	mg/Kg		07/16/14 16:41	07/17/14 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*50 - 120*	*07/16/14 16:41*	*07/17/14 15:54*	*1*
2-Fluorophenol	*78*		*53 - 120*	*07/16/14 16:41*	*07/17/14 15:54*	*1*
Nitrobenzene-d5	*78*		*50 - 120*	*07/16/14 16:41*	*07/17/14 15:54*	*1*
Phenol-d5	*77*		*52 - 120*	*07/16/14 16:41*	*07/17/14 15:54*	*1*
Terphenyl-d14	*89*		*55 - 120*	*07/16/14 16:41*	*07/17/14 15:54*	*1*

Client Sample ID: Westside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-01
Matrix: Soil

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*51 - 120*	*07/16/14 16:41*	*07/17/14 15:54*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.8	0.32	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
alpha-BHC	ND		2.1	0.19	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
beta-BHC	ND		1.8	0.31	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
delta-BHC	ND		1.8	0.25	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
alpha-Chlordane	ND		1.8	0.59	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
4,4'-DDD	ND		1.8	0.23	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
4,4'-DDE	ND		1.8	0.41	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
4,4'-DDT	ND		1.8	0.66	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Dieldrin	ND		1.8	0.23	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Endosulfan I	ND		1.8	0.60	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Endosulfan II	ND		1.8	0.25	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Endrin	ND		1.8	0.17	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Heptachlor	ND		2.1	0.21	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Methoxychlor	ND		3.5	0.75	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Toxaphene	ND		70	16	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1
Technical Chlordane	ND		18	3.9	ug/Kg	☼	07/25/14 12:19	07/25/14 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*29 - 150*	*07/25/14 12:19*	*07/25/14 23:46*	*1*
Tetrachloro-m-xylene	*85*		*41 - 125*	*07/25/14 12:19*	*07/25/14 23:46*	*1*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.58**		1.32		mg/kg dry	☼	07/18/14 14:21	07/21/14 16:40	1.00
Chromium	**12.3**		0.529		mg/kg dry	☼	07/18/14 14:21	07/21/14 15:08	1.00
Copper	**24.2**		4.24		mg/kg dry	☼	07/18/14 14:21	07/21/14 15:08	1.00
Lead	**4.04**		1.32		mg/kg dry	☼	07/18/14 14:21	07/21/14 15:08	1.00

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.23	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
4,4'-DDE	ND		1.8	0.41	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
4,4'-DDT	ND		1.8	0.66	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Aldrin	ND		1.8	0.32	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
alpha-BHC	ND		2.1	0.19	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
alpha-Chlordane	ND		1.8	0.59	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
beta-BHC	ND		1.8	0.31	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
delta-BHC	ND		1.8	0.25	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Dieldrin	ND		1.8	0.23	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Endosulfan I	ND		1.8	0.60	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1

Client Sample ID: Westside

Lab Sample ID: SXG0084-01

Date Collected: 07/11/14 15:00
Matrix: Soil
Date Received: 07/14/14 11:50
Percent Solids: 95.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		1.8	0.25	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Endrin	ND		1.8	0.17	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Endrin ketone	ND		1.8	0.44	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Heptachlor	ND		2.1	0.21	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Methoxychlor	ND		3.5	0.75	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Technical Chlordane	ND		18	3.9	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1
Toxaphene	ND		70	16	ug/Kg dry	☼	07/25/14 12:19	07/25/14 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*29 - 150*	*07/25/14 12:19*	*07/25/14 23:46*	*1*
Tetrachloro-m-xylene	*85*		*41 - 125*	*07/25/14 12:19*	*07/25/14 23:46*	*1*

Client Sample ID: Eastside

Lab Sample ID: SXG0084-02

Date Collected: 07/11/14 15:00
Matrix: Soil
Date Received: 07/14/14 11:50
Percent Solids: 93.7

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Chloromethane	ND		0.514		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Vinyl chloride	ND		0.0617		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Bromomethane	ND		0.514		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Chloroethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Trichlorofluoromethane	ND		0.0309		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,1-Dichloroethene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Carbon disulfide	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Methylene chloride	**0.0206**	**S2**	0.0206		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Acetone	ND		3.09		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
trans-1,2-Dichloroethene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Methyl tert-butyl ether	ND		0.0514		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,1-Dichloroethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
cis-1,2-Dichloroethene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
2,2-Dichloropropane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Bromochloromethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Chloroform	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Carbon tetrachloride	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,1,1-Trichloroethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
2-Butanone	ND		1.03		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Hexane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,1-Dichloropropene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Benzene	ND		0.0154		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2-Dichloroethane (EDC)	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Trichloroethene	ND		0.0257		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Dibromomethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2-Dichloropropane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Eastside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-02
Matrix: Soil
Percent Solids: 93.7

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
cis-1,3-Dichloropropene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Toluene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
4-Methyl-2-pentanone	ND		1.03		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
trans-1,3-Dichloropropene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Tetrachloroethene	ND		0.0411		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,1,2-Trichloroethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Dibromochloromethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,3-Dichloropropane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2-Dibromoethane	ND		0.0103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
2-Hexanone	ND		1.03		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Ethylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Chlorobenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,1,1,2-Tetrachloroethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
m,p-Xylene	ND		0.411		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
o-Xylene	ND		0.206		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Styrene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Bromoform	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Isopropylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
n-Propylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,1,2,2-Tetrachloroethane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Bromobenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,3,5-Trimethylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
2-Chlorotoluene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2,3-Trichloropropane	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
4-Chlorotoluene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
tert-Butylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2,4-Trimethylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
sec-Butylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
p-Isopropyltoluene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,3-Dichlorobenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,4-Dichlorobenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
n-Butylbenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2-Dichlorobenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2-Dibromo-3-chloropropane	ND		0.514		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Hexachlorobutadiene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2,4-Trichlorobenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
Naphthalene	ND		0.206		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00
1,2,3-Trichlorobenzene	ND		0.103		mg/kg dry	☼	07/16/14 07:59	07/17/14 01:05	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.3*		*42.4 - 163*	*07/16/14 07:59*	*07/17/14 01:05*	*1.00*
1,2-dichloroethane-d4	*92.6*		*50 - 150*	*07/16/14 07:59*	*07/17/14 01:05*	*1.00*
Toluene-d8	*105*		*45.8 - 155*	*07/16/14 07:59*	*07/17/14 01:05*	*1.00*
4-bromofluorobenzene	*101*		*41.5 - 162*	*07/16/14 07:59*	*07/17/14 01:05*	*1.00*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.31	0.0097	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Acenaphthylene	ND		0.31	0.016	mg/Kg		07/16/14 16:41	07/17/14 17:16	1

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Eastside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-02
Matrix: Soil

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		0.31	0.019	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Anthracene	ND		0.31	0.016	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Atrazine	ND		0.31	0.035	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Benzidine	ND		3.1	0.93	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Benzo[a]anthracene	ND		0.31	0.019	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Benzo[a]pyrene	ND		0.31	0.019	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Benzo[b]fluoranthene	ND		0.31	0.025	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Benzo[g,h,i]perylene	ND		0.31	0.015	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Benzo[k]fluoranthene	ND		0.31	0.038	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Bis(2-chloroethoxy)methane	ND		0.31	0.022	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Bis(2-chloroethyl)ether	ND		0.31	0.016	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Bis(2-ethylhexyl) phthalate	ND		0.31	0.043	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
4-Bromophenyl phenyl ether	ND		0.31	0.018	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Butyl benzyl phthalate	ND		0.31	0.041	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Caprolactam	ND		1.5	0.10	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Carbazole	ND		0.31	0.034	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
4-Chloroaniline	ND		0.31	0.077	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
4-Chloro-3-methylphenol	ND		0.31	0.062	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2-Chloronaphthalene	ND		0.31	0.0094	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2-Chlorophenol	ND		0.31	0.020	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
4-Chlorophenyl phenyl ether	ND		0.31	0.020	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Chrysene	ND		0.31	0.025	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Cresols, Total	ND		0.31	0.012	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Dibenz(a,h)anthracene	ND		0.31	0.018	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Dibenzofuran	ND		0.31	0.019	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
1,4-Dichlorobenzene	ND		0.31	0.013	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
3,3'-Dichlorobenzidine	ND		0.62	0.085	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,4-Dichlorophenol	ND		0.31	0.0094	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Diethyl phthalate	ND		0.62	0.025	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,4-Dimethylphenol	ND		0.31	0.062	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Dimethyl phthalate	ND		0.31	0.022	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Di-n-butyl phthalate	ND		0.31	0.027	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
4,6-Dinitro-2-methylphenol	ND		1.5	0.31	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,4-Dinitrophenol	ND		1.5	0.31	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,4-Dinitrotoluene	ND		0.31	0.062	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,6-Dinitrotoluene	ND		0.31	0.026	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Di-n-octyl phthalate	ND		0.31	0.014	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Fluoranthene	ND		0.31	0.034	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Fluorene	ND		0.31	0.017	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Hexachlorobenzene	ND		0.31	0.027	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Hexachlorobutadiene	ND		0.31	0.0094	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Hexachlorocyclopentadiene	ND		1.5	0.047	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Hexachloroethane	ND		0.31	0.020	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Indeno[1,2,3-cd]pyrene	ND		0.31	0.021	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2-Methylnaphthalene	ND		0.31	0.018	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2-Methylphenol	ND		0.31	0.012	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
3 & 4 Methylphenol	ND		0.31	0.031	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Naphthalene	ND		0.31	0.029	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2-Nitroaniline	ND		1.5	0.047	mg/Kg		07/16/14 16:41	07/17/14 17:16	1

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Eastside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-02
Matrix: Soil

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		1.5	0.069	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
4-Nitroaniline	ND		1.5	0.068	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Nitrobenzene	ND		0.31	0.021	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2-Nitrophenol	ND		0.31	0.0094	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
4-Nitrophenol	ND		1.5	0.092	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
N-Nitrosodi-n-propylamine	ND		0.31	0.029	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.31	0.020	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,2'-oxybis[1-chloropropane]	ND		0.31	0.022	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Pentachlorophenol	ND		1.5	0.31	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Phenanthrene	ND		0.31	0.016	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Phenol	ND		0.31	0.017	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
Pyrene	ND		0.31	0.011	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
1,2,4-Trichlorobenzene	ND		0.31	0.026	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,4,5-Trichlorophenol	ND		0.31	0.0094	mg/Kg		07/16/14 16:41	07/17/14 17:16	1
2,4,6-Trichlorophenol	ND		0.31	0.0094	mg/Kg		07/16/14 16:41	07/17/14 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*50 - 120*	*07/16/14 16:41*	*07/17/14 17:16*	*1*
2-Fluorophenol	*82*		*53 - 120*	*07/16/14 16:41*	*07/17/14 17:16*	*1*
Nitrobenzene-d5	*83*		*50 - 120*	*07/16/14 16:41*	*07/17/14 17:16*	*1*
Phenol-d5	*82*		*52 - 120*	*07/16/14 16:41*	*07/17/14 17:16*	*1*
Terphenyl-d14	*90*		*55 - 120*	*07/16/14 16:41*	*07/17/14 17:16*	*1*
2,4,6-Tribromophenol	*80*		*51 - 120*	*07/16/14 16:41*	*07/17/14 17:16*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.8	0.32	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
alpha-BHC	ND		2.1	0.19	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
beta-BHC	ND		1.8	0.31	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
delta-BHC	ND		1.8	0.25	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
alpha-Chlordane	ND		1.8	0.59	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
4,4'-DDD	ND		1.8	0.23	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
4,4'-DDE	ND		1.8	0.41	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
4,4'-DDT	ND		1.8	0.66	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Dieldrin	ND		1.8	0.23	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Endosulfan I	ND		1.8	0.60	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Endosulfan II	ND		1.8	0.25	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Endrin	ND		1.8	0.17	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Heptachlor	ND		2.1	0.21	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Methoxychlor	ND		3.5	0.75	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Toxaphene	ND		70	16	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1
Technical Chlordane	ND		18	3.9	ug/Kg	☼	07/25/14 12:19	07/26/14 00:46	1

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Eastside
Date Collected: 07/11/14 15:00
Date Received: 07/14/14 11:50

Lab Sample ID: SXG0084-02
Matrix: Soil
Percent Solids: 94.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*98*		*29 - 150*	*07/25/14 12:19*	*07/26/14 00:46*	*1*
Tetrachloro-m-xylene	*90*		*41 - 125*	*07/25/14 12:19*	*07/26/14 00:46*	*1*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.76**		1.25		mg/kg dry	☼	07/18/14 14:21	07/21/14 16:43	1.00
Chromium	**12.4**		0.499		mg/kg dry	☼	07/18/14 14:21	07/21/14 15:12	1.00
Copper	**16.1**		3.99		mg/kg dry	☼	07/18/14 14:21	07/21/14 15:12	1.00
Lead	**4.17**		1.25		mg/kg dry	☼	07/18/14 14:21	07/21/14 15:12	1.00

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.23	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
4,4'-DDE	ND		1.8	0.41	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
4,4'-DDT	ND		1.8	0.66	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Aldrin	ND		1.8	0.32	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
alpha-BHC	ND		2.1	0.19	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
alpha-Chlordane	ND		1.8	0.59	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
beta-BHC	ND		1.8	0.31	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
delta-BHC	ND		1.8	0.25	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Dieldrin	ND		1.8	0.23	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Endosulfan I	ND		1.8	0.60	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Endosulfan II	ND		1.8	0.25	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Endrin	ND		1.8	0.17	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Endrin ketone	ND		1.8	0.44	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Heptachlor	ND		2.1	0.21	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Methoxychlor	ND		3.5	0.75	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Technical Chlordane	ND		18	3.9	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1
Toxaphene	ND		70	16	ug/Kg dry	☼	07/25/14 12:19	07/26/14 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*98*		*29 - 150*	*07/25/14 12:19*	*07/26/14 00:46*	*1*
Tetrachloro-m-xylene	*90*		*41 - 125*	*07/25/14 12:19*	*07/26/14 00:46*	*1*

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14G0115-BLK1
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0115_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Chloromethane	ND		0.500		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Vinyl chloride	ND		0.0600		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Bromomethane	ND		0.500		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Chloroethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Trichlorofluoromethane	ND		0.0300		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,1-Dichloroethene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Carbon disulfide	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Methylene chloride	ND		0.0200		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Acetone	ND		3.00		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
trans-1,2-Dichloroethene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Methyl tert-butyl ether	ND		0.0500		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,1-Dichloroethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
cis-1,2-Dichloroethene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
2,2-Dichloropropane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Bromochloromethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Chloroform	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Carbon tetrachloride	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,1,1-Trichloroethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
2-Butanone	ND		1.00		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Hexane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,1-Dichloropropene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Benzene	ND		0.0150		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2-Dichloroethane (EDC)	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Trichloroethene	ND		0.0250		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Dibromomethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2-Dichloropropane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Bromodichloromethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
cis-1,3-Dichloropropene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Toluene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
4-Methyl-2-pentanone	ND		1.00		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
trans-1,3-Dichloropropene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Tetrachloroethene	ND		0.0400		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,1,2-Trichloroethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Dibromochloromethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,3-Dichloropropane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2-Dibromoethane	ND		0.0100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
2-Hexanone	ND		1.00		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Ethylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Chlorobenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
m,p-Xylene	ND		0.400		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
o-Xylene	ND		0.200		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Styrene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Bromoform	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Isopropylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
n-Propylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0115-BLK1
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0115_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,3,5-Trimethylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
2-Chlorotoluene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2,3-Trichloropropane	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
4-Chlorotoluene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
tert-Butylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2,4-Trimethylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
sec-Butylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
p-Isopropyltoluene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,3-Dichlorobenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,4-Dichlorobenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
n-Butylbenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2-Dichlorobenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2-Dibromo-3-chloropropane	ND		0.500		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Hexachlorobutadiene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2,4-Trichlorobenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
Naphthalene	ND		0.200		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00
1,2,3-Trichlorobenzene	ND		0.100		mg/kg wet		07/16/14 07:59	07/16/14 16:06	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*42.4 - 163*	*07/16/14 07:59*	*07/16/14 16:06*	*1.00*
1,2-dichloroethane-d4	*99.3*		*50 - 150*	*07/16/14 07:59*	*07/16/14 16:06*	*1.00*
Toluene-d8	*103*		*45.8 - 155*	*07/16/14 07:59*	*07/16/14 16:06*	*1.00*
4-bromofluorobenzene	*101*		*41.5 - 162*	*07/16/14 07:59*	*07/16/14 16:06*	*1.00*

Lab Sample ID: 14G0115-BS1
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0115_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.470		mg/kg wet		93.9	60 - 140
Chloromethane	0.500	0.498		mg/kg wet		99.6	60 - 140
Vinyl chloride	0.500	0.506		mg/kg wet		101	60 - 140
Bromomethane	0.500	0.530		mg/kg wet		106	60 - 140
Chloroethane	0.500	0.464		mg/kg wet		92.8	60 - 140
Trichlorofluoromethane	0.500	0.424		mg/kg wet		84.8	60 - 140
1,1-Dichloroethene	0.500	0.464		mg/kg wet		92.8	76 - 187
Carbon disulfide	0.500	0.498		mg/kg wet		99.7	60 - 140
Methylene chloride	0.500	0.483		mg/kg wet		96.6	60 - 140
Acetone	2.50	2.81		mg/kg wet		112	60 - 140
trans-1,2-Dichloroethene	0.500	0.500		mg/kg wet		99.9	60 - 140
Methyl tert-butyl ether	0.500	0.528		mg/kg wet		106	79 - 127
1,1-Dichloroethane	0.500	0.512		mg/kg wet		102	60 - 140
cis-1,2-Dichloroethene	0.500	0.476		mg/kg wet		95.3	60 - 140
2,2-Dichloropropane	0.500	0.422		mg/kg wet		84.4	60 - 140
Bromochloromethane	0.500	0.496		mg/kg wet		99.2	60 - 140
Chloroform	0.500	0.483		mg/kg wet		96.6	60 - 140
Carbon tetrachloride	0.500	0.468		mg/kg wet		93.7	60 - 140

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0115-BS1
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0115_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.470		mg/kg wet		94.0	60 - 140
2-Butanone	2.50	2.71		mg/kg wet		108	60 - 140
Hexane	0.500	0.506		mg/kg wet		101	50 - 150
1,1-Dichloropropene	0.500	0.502		mg/kg wet		100	60 - 140
Benzene	0.500	0.486		mg/kg wet		97.3	75.9 - 123
1,2-Dichloroethane (EDC)	0.500	0.514		mg/kg wet		103	60 - 140
Trichloroethene	0.500	0.479		mg/kg wet		95.8	82.7 - 120
Dibromomethane	0.500	0.518		mg/kg wet		104	60 - 140
1,2-Dichloropropane	0.500	0.481		mg/kg wet		96.2	60 - 140
Bromodichloromethane	0.500	0.478		mg/kg wet		95.5	60 - 140
cis-1,3-Dichloropropene	0.500	0.478		mg/kg wet		95.6	60 - 140
Toluene	0.500	0.494		mg/kg wet		98.9	77.3 - 126
4-Methyl-2-pentanone	2.50	2.95		mg/kg wet		118	60 - 140
trans-1,3-Dichloropropene	0.500	0.540		mg/kg wet		108	60 - 140
Tetrachloroethene	0.500	0.516		mg/kg wet		103	75 - 130
1,1,2-Trichloroethane	0.500	0.564		mg/kg wet		113	60 - 140
Dibromochloromethane	0.500	0.508		mg/kg wet		102	60 - 140
1,3-Dichloropropane	0.500	0.542		mg/kg wet		108	60 - 140
1,2-Dibromoethane	0.500	0.562		mg/kg wet		112	60 - 140
2-Hexanone	2.50	3.00		mg/kg wet		120	60 - 140
Ethylbenzene	0.500	0.492		mg/kg wet		98.3	80.7 - 120
Chlorobenzene	0.500	0.524		mg/kg wet		105	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.518		mg/kg wet		104	60 - 140
m,p-Xylene	0.500	0.486		mg/kg wet		97.2	86.1 - 120
o-Xylene	0.500	0.515		mg/kg wet		103	85.3 - 120
Styrene	0.500	0.524		mg/kg wet		105	60 - 140
Bromoform	0.500	0.554		mg/kg wet		111	60 - 140
Isopropylbenzene	0.500	0.501		mg/kg wet		100	60 - 140
n-Propylbenzene	0.500	0.500		mg/kg wet		100	60 - 140
1,1,2,2-Tetrachloroethane	0.500	0.577		mg/kg wet		115	60 - 140
Bromobenzene	0.500	0.498		mg/kg wet		99.5	60 - 140
1,3,5-Trimethylbenzene	0.500	0.502		mg/kg wet		100	60 - 140
2-Chlorotoluene	0.500	0.514		mg/kg wet		103	60 - 140
1,2,3-Trichloropropane	0.500	0.564		mg/kg wet		113	60 - 140
4-Chlorotoluene	0.500	0.489		mg/kg wet		97.8	60 - 140
tert-Butylbenzene	0.500	0.496		mg/kg wet		99.2	60 - 140
1,2,4-Trimethylbenzene	0.500	0.503		mg/kg wet		101	60 - 140
sec-Butylbenzene	0.500	0.505		mg/kg wet		101	60 - 140
p-Isopropyltoluene	0.500	0.496		mg/kg wet		99.3	60 - 140
1,3-Dichlorobenzene	0.500	0.513		mg/kg wet		103	60 - 140
1,4-Dichlorobenzene	0.500	0.502		mg/kg wet		100	60 - 140
n-Butylbenzene	0.500	0.508		mg/kg wet		102	60 - 140
1,2-Dichlorobenzene	0.500	0.540		mg/kg wet		108	60 - 140
1,2-Dibromo-3-chloropropane	0.500	0.610		mg/kg wet		122	60 - 140
Hexachlorobutadiene	0.500	0.494		mg/kg wet		98.8	60 - 140
1,2,4-Trichlorobenzene	0.500	0.501		mg/kg wet		100	60 - 140
Naphthalene	0.500	0.528		mg/kg wet		106	58.8 - 130
1,2,3-Trichlorobenzene	0.500	0.520		mg/kg wet		104	60 - 140

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0115-BS1
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0115_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*101*		*42.4 - 163*
1,2-dichloroethane-d4	*105*		*50 - 150*
Toluene-d8	*102*		*45.8 - 155*
4-bromofluorobenzene	*98.7*		*41.5 - 162*

Lab Sample ID: 14G0115-BS2
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0115_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*99.3*		*42.4 - 163*
1,2-dichloroethane-d4	*97.7*		*50 - 150*
Toluene-d8	*102*		*45.8 - 155*
4-bromofluorobenzene	*98.1*		*41.5 - 162*

Lab Sample ID: 14G0115-BSD1
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14G0115_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			0.500	0.472		mg/kg wet		94.3	60 - 140	0.425	25
Chloromethane			0.500	0.500		mg/kg wet		100	60 - 140	0.501	25
Vinyl chloride			0.500	0.510		mg/kg wet		102	60 - 140	0.689	25
Bromomethane			0.500	0.518		mg/kg wet		104	60 - 140	2.29	25
Chloroethane			0.500	0.459		mg/kg wet		91.8	60 - 140	1.08	25
Trichlorofluoromethane			0.500	0.441		mg/kg wet		88.2	60 - 140	3.93	25
1,1-Dichloroethene			0.500	0.474		mg/kg wet		94.8	76 - 187	2.13	25
Carbon disulfide			0.500	0.504		mg/kg wet		101	60 - 140	1.10	25
Methylene chloride			0.500	0.473		mg/kg wet		94.6	60 - 140	2.09	25
Acetone			2.50	2.55		mg/kg wet		102	60 - 140	9.65	25
trans-1,2-Dichloroethene			0.500	0.502		mg/kg wet		100	60 - 140	0.499	25
Methyl tert-butyl ether			0.500	0.514		mg/kg wet		103	79 - 127	2.69	25
1,1-Dichloroethane			0.500	0.503		mg/kg wet		101	60 - 140	1.77	25
cis-1,2-Dichloroethene			0.500	0.474		mg/kg wet		94.9	60 - 140	0.421	25
2,2-Dichloropropane			0.500	0.430		mg/kg wet		86.1	60 - 140	1.99	25
Bromochloromethane			0.500	0.485		mg/kg wet		97.0	60 - 140	2.24	25
Chloroform			0.500	0.488		mg/kg wet		97.5	60 - 140	0.927	25
Carbon tetrachloride			0.500	0.469		mg/kg wet		93.8	60 - 140	0.107	25
1,1,1-Trichloroethane			0.500	0.472		mg/kg wet		94.5	60 - 140	0.531	25
2-Butanone			2.50	2.63		mg/kg wet		105	60 - 140	3.00	25
Hexane			0.500	0.503		mg/kg wet		101	50 - 150	0.693	25
1,1-Dichloropropene			0.500	0.498		mg/kg wet		99.6	60 - 140	0.700	25
Benzene			0.500	0.480		mg/kg wet		96.1	75.9 - 123	1.24	25
1,2-Dichloroethane (EDC)			0.500	0.508		mg/kg wet		102	60 - 140	0.978	25
Trichloroethene			0.500	0.485		mg/kg wet		97.0	82.7 - 120	1.24	25
Dibromomethane			0.500	0.506		mg/kg wet		101	60 - 140	2.35	25
1,2-Dichloropropane			0.500	0.476		mg/kg wet		95.1	60 - 140	1.15	25
Bromodichloromethane			0.500	0.473		mg/kg wet		94.6	60 - 140	0.947	25

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0115-BSD1
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14G0115_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			0.500	0.464		mg/kg wet		92.8	60 - 140	2.97	25
Toluene			0.500	0.505		mg/kg wet		101	77.3 - 126	2.10	25
4-Methyl-2-pentanone			2.50	2.90		mg/kg wet		116	60 - 140	1.86	25
trans-1,3-Dichloropropene			0.500	0.528		mg/kg wet		106	60 - 140	2.25	25
Tetrachloroethene			0.500	0.518		mg/kg wet		104	75 - 130	0.290	25
1,1,2-Trichloroethane			0.500	0.555		mg/kg wet		111	60 - 140	1.61	25
Dibromochloromethane			0.500	0.500		mg/kg wet		100	60 - 140	1.69	25
1,3-Dichloropropane			0.500	0.530		mg/kg wet		106	60 - 140	2.05	25
1,2-Dibromoethane			0.500	0.548		mg/kg wet		110	60 - 140	2.61	25
2-Hexanone			2.50	2.92		mg/kg wet		117	60 - 140	2.45	25
Ethylbenzene			0.500	0.498		mg/kg wet		99.6	80.7 - 120	1.31	25
Chlorobenzene			0.500	0.545		mg/kg wet		109	80 - 120	3.83	25
1,1,1,2-Tetrachloroethane			0.500	0.534		mg/kg wet		107	60 - 140	3.14	25
m,p-Xylene			0.500	0.490		mg/kg wet		97.9	86.1 - 120	0.718	25
o-Xylene			0.500	0.515		mg/kg wet		103	85.3 - 120	0.00	25
Styrene			0.500	0.522		mg/kg wet		104	60 - 140	0.191	25
Bromoform			0.500	0.544		mg/kg wet		109	60 - 140	1.73	25
Isopropylbenzene			0.500	0.518		mg/kg wet		104	60 - 140	3.43	25
n-Propylbenzene			0.500	0.506		mg/kg wet		101	60 - 140	1.19	25
1,1,2,2-Tetrachloroethane			0.500	0.540		mg/kg wet		108	60 - 140	6.62	25
Bromobenzene			0.500	0.483		mg/kg wet		96.6	60 - 140	2.96	25
1,3,5-Trimethylbenzene			0.500	0.498		mg/kg wet		99.5	60 - 140	0.900	25
2-Chlorotoluene			0.500	0.518		mg/kg wet		104	60 - 140	0.678	25
1,2,3-Trichloropropane			0.500	0.506		mg/kg wet		101	60 - 140	10.9	25
4-Chlorotoluene			0.500	0.488		mg/kg wet		97.6	60 - 140	0.205	25
tert-Butylbenzene			0.500	0.494		mg/kg wet		98.8	60 - 140	0.404	25
1,2,4-Trimethylbenzene			0.500	0.504		mg/kg wet		101	60 - 140	0.0993	25
sec-Butylbenzene			0.500	0.499		mg/kg wet		99.8	60 - 140	1.20	25
p-Isopropyltoluene			0.500	0.500		mg/kg wet		100	60 - 140	0.802	25
1,3-Dichlorobenzene			0.500	0.502		mg/kg wet		100	60 - 140	2.17	25
1,4-Dichlorobenzene			0.500	0.510		mg/kg wet		102	60 - 140	1.58	25
n-Butylbenzene			0.500	0.507		mg/kg wet		101	60 - 140	0.295	25
1,2-Dichlorobenzene			0.500	0.524		mg/kg wet		105	60 - 140	2.91	25
1,2-Dibromo-3-chloropropane			0.500	0.568		mg/kg wet		114	60 - 140	7.30	25
Hexachlorobutadiene			0.500	0.534		mg/kg wet		107	60 - 140	7.88	25
1,2,4-Trichlorobenzene			0.500	0.506		mg/kg wet		101	60 - 140	0.894	25
Naphthalene			0.500	0.508		mg/kg wet		102	58.8 - 130	3.96	25
1,2,3-Trichlorobenzene			0.500	0.517		mg/kg wet		103	60 - 140	0.579	25

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
Dibromofluoromethane	*99.1*		*42.4 - 163*
1,2-dichloroethane-d4	*105*		*50 - 150*
Toluene-d8	*103*		*45.8 - 155*
4-bromofluorobenzene	*97.6*		*41.5 - 162*

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14G0115-BSD2
Matrix: Soil
Analysis Batch: 14G0115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14G0115_P

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
Dibromofluoromethane	*97.1*		*42.4 - 163*
1,2-dichloroethane-d4	*98.0*		*50 - 150*
Toluene-d8	*105*		*45.8 - 155*
4-bromofluorobenzene	*100*		*41.5 - 162*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-234632/1-A
Matrix: Solid
Analysis Batch: 234757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.32	0.0098	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Acenaphthylene	ND		0.32	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Acetophenone	ND		0.32	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Anthracene	ND		0.32	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Atrazine	ND		0.32	0.035	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Benzidine	ND		3.2	0.95	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Benzo[a]anthracene	ND		0.32	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Benzo[a]pyrene	ND		0.32	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Benzo[b]fluoranthene	ND		0.32	0.025	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Benzo[g,h,i]perylene	ND		0.32	0.015	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Benzo[k]fluoranthene	ND		0.32	0.038	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Bis(2-chloroethoxy)methane	ND		0.32	0.022	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Bis(2-chloroethyl)ether	ND		0.32	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Bis(2-ethylhexyl) phthalate	0.0804	J	0.32	0.044	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
4-Bromophenyl phenyl ether	ND		0.32	0.018	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Butyl benzyl phthalate	ND		0.32	0.041	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Caprolactam	ND		1.5	0.10	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Carbazole	ND		0.32	0.034	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
4-Chloroaniline	ND		0.32	0.078	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
4-Chloro-3-methylphenol	ND		0.32	0.063	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2-Chloronaphthalene	ND		0.32	0.0096	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2-Chlorophenol	ND		0.32	0.020	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
4-Chlorophenyl phenyl ether	ND		0.32	0.020	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Chrysene	ND		0.32	0.026	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Cresols, Total	ND		0.32	0.012	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Dibenz(a,h)anthracene	ND		0.32	0.018	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Dibenzofuran	ND		0.32	0.019	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
1,4-Dichlorobenzene	ND		0.32	0.013	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
3,3'-Dichlorobenzidine	ND		0.63	0.086	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2,4-Dichlorophenol	ND		0.32	0.0096	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Diethyl phthalate	ND		0.63	0.025	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2,4-Dimethylphenol	ND		0.32	0.063	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Dimethyl phthalate	ND		0.32	0.022	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Di-n-butyl phthalate	ND		0.32	0.028	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
4,6-Dinitro-2-methylphenol	ND		1.5	0.32	mg/Kg		07/16/14 16:41	07/17/14 15:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-234632/1-A
Matrix: Solid
Analysis Batch: 234757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		1.5	0.32	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2,4-Dinitrotoluene	ND		0.32	0.063	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2,6-Dinitrotoluene	ND		0.32	0.027	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Di-n-octyl phthalate	ND		0.32	0.014	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Fluoranthene	ND		0.32	0.034	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Fluorene	ND		0.32	0.017	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Hexachlorobenzene	ND		0.32	0.028	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Hexachlorobutadiene	ND		0.32	0.0096	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Hexachlorocyclopentadiene	ND		1.5	0.048	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Hexachloroethane	ND		0.32	0.020	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Indeno[1,2,3-cd]pyrene	ND		0.32	0.021	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2-Methylnaphthalene	ND		0.32	0.018	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2-Methylphenol	ND		0.32	0.012	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
3 & 4 Methylphenol	ND		0.32	0.032	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Naphthalene	ND		0.32	0.030	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2-Nitroaniline	ND		1.5	0.048	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
3-Nitroaniline	ND		1.5	0.070	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
4-Nitroaniline	ND		1.5	0.069	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Nitrobenzene	ND		0.32	0.021	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2-Nitrophenol	ND		0.32	0.0096	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
4-Nitrophenol	ND		1.5	0.093	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
N-Nitrosodi-n-propylamine	ND		0.32	0.030	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.32	0.020	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2,2'-oxybis[1-chloropropane]	ND		0.32	0.022	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Pentachlorophenol	ND		1.5	0.32	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Phenanthrene	ND		0.32	0.016	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Phenol	ND		0.32	0.017	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
Pyrene	ND		0.32	0.012	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
1,2,4-Trichlorobenzene	ND		0.32	0.027	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2,4,5-Trichlorophenol	ND		0.32	0.0096	mg/Kg		07/16/14 16:41	07/17/14 15:00	1
2,4,6-Trichlorophenol	ND		0.32	0.0096	mg/Kg		07/16/14 16:41	07/17/14 15:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*50 - 120*	*07/16/14 16:41*	*07/17/14 15:00*	*1*
2-Fluorophenol	*81*		*53 - 120*	*07/16/14 16:41*	*07/17/14 15:00*	*1*
Nitrobenzene-d5	*81*		*50 - 120*	*07/16/14 16:41*	*07/17/14 15:00*	*1*
Phenol-d5	*81*		*52 - 120*	*07/16/14 16:41*	*07/17/14 15:00*	*1*
Terphenyl-d14	*92*		*55 - 120*	*07/16/14 16:41*	*07/17/14 15:00*	*1*
2,4,6-Tribromophenol	*77*		*51 - 120*	*07/16/14 16:41*	*07/17/14 15:00*	*1*

Lab Sample ID: LCS 280-234632/2-A
Matrix: Solid
Analysis Batch: 234757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.48	2.11		mg/Kg		85	60 - 120
Anthracene	2.48	2.15		mg/Kg		87	63 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-234632/2-A
Matrix: Solid
Analysis Batch: 234757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbazole	2.48	2.20		mg/Kg		89	64 - 120
4-Chloro-3-methylphenol	2.48	2.30		mg/Kg		93	63 - 120
2-Chlorophenol	2.48	1.99		mg/Kg		80	57 - 120
1,4-Dichlorobenzene	2.48	1.90		mg/Kg		77	52 - 120
2,4-Dinitrotoluene	2.48	2.32		mg/Kg		94	68 - 120
2-Methylnaphthalene	2.48	2.11		mg/Kg		85	57 - 120
2-Methylphenol	2.48	1.99		mg/Kg		80	56 - 120
4-Nitrophenol	4.95	4.29		mg/Kg		87	63 - 121
N-Nitrosodi-n-propylamine	2.48	2.04		mg/Kg		82	51 - 120
Pentachlorophenol	4.95	3.60		mg/Kg		73	56 - 120
Phenol	2.48	1.95		mg/Kg		79	56 - 120
Pyrene	2.48	2.24		mg/Kg		91	64 - 120
1,2,4-Trichlorobenzene	2.48	2.00		mg/Kg		81	52 - 120
2,4,5-Trichlorophenol	2.48	2.13		mg/Kg		86	64 - 120
2,4,6-Trichlorophenol	2.48	2.18		mg/Kg		88	61 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*50 - 120*
2-Fluorophenol	*78*		*53 - 120*
Nitrobenzene-d5	*79*		*50 - 120*
Phenol-d5	*79*		*52 - 120*
Terphenyl-d14	*90*		*55 - 120*
2,4,6-Tribromophenol	*82*		*51 - 120*

Lab Sample ID: 280-57770-1 MS
Matrix: Solid
Analysis Batch: 234757

Client Sample ID: SXG0084-01
Prep Type: Total/NA
Prep Batch: 234632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		2.60	2.25		mg/Kg		87	60 - 120
Anthracene	ND		2.60	2.30		mg/Kg		88	63 - 120
Carbazole	ND		2.60	2.32		mg/Kg		89	64 - 120
4-Chloro-3-methylphenol	ND		2.60	2.48		mg/Kg		96	63 - 120
2-Chlorophenol	ND		2.60	2.20		mg/Kg		85	57 - 120
1,4-Dichlorobenzene	ND		2.60	2.07		mg/Kg		80	52 - 120
2,4-Dinitrotoluene	ND		2.60	2.46		mg/Kg		95	68 - 120
2-Methylnaphthalene	ND		2.60	2.29		mg/Kg		88	57 - 120
2-Methylphenol	ND		2.60	2.14		mg/Kg		82	56 - 120
4-Nitrophenol	ND		5.19	4.42		mg/Kg		85	63 - 121
N-Nitrosodi-n-propylamine	ND		2.60	2.19		mg/Kg		84	51 - 120
Pentachlorophenol	ND		5.19	3.60		mg/Kg		69	56 - 120
Phenol	ND		2.60	2.14		mg/Kg		82	56 - 120
Pyrene	ND		2.60	2.34		mg/Kg		90	64 - 120
1,2,4-Trichlorobenzene	ND		2.60	2.18		mg/Kg		84	52 - 120
2,4,5-Trichlorophenol	ND		2.60	2.26		mg/Kg		87	64 - 120
2,4,6-Trichlorophenol	ND		2.60	2.31		mg/Kg		89	61 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-57770-1 MS
Matrix: Solid
Analysis Batch: 234757

Client Sample ID: SXG0084-01
Prep Type: Total/NA
Prep Batch: 234632

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*84*		*50 - 120*
2-Fluorophenol	*81*		*53 - 120*
Nitrobenzene-d5	*82*		*50 - 120*
Phenol-d5	*82*		*52 - 120*
Terphenyl-d14	*91*		*55 - 120*
2,4,6-Tribromophenol	*83*		*51 - 120*

Lab Sample ID: 280-57770-1 MSD
Matrix: Solid
Analysis Batch: 234757

Client Sample ID: SXG0084-01
Prep Type: Total/NA
Prep Batch: 234632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		2.50	2.22		mg/Kg		89	60 - 120	1	30
Anthracene	ND		2.50	2.25		mg/Kg		90	63 - 120	2	30
Carbazole	ND		2.50	2.28		mg/Kg		91	64 - 120	2	30
4-Chloro-3-methylphenol	ND		2.50	2.41		mg/Kg		96	63 - 120	3	30
2-Chlorophenol	ND		2.50	2.09		mg/Kg		84	57 - 120	5	30
1,4-Dichlorobenzene	ND		2.50	1.99		mg/Kg		79	52 - 120	4	30
2,4-Dinitrotoluene	ND		2.50	2.44		mg/Kg		97	68 - 120	1	30
2-Methylnaphthalene	ND		2.50	2.21		mg/Kg		88	57 - 120	3	30
2-Methylphenol	ND		2.50	2.12		mg/Kg		85	56 - 120	1	30
4-Nitrophenol	ND		5.00	4.36		mg/Kg		87	63 - 121	1	30
N-Nitrosodi-n-propylamine	ND		2.50	2.18		mg/Kg		87	51 - 120	0	30
Pentachlorophenol	ND		5.00	3.61		mg/Kg		72	56 - 120	0	30
Phenol	ND		2.50	2.07		mg/Kg		83	56 - 120	3	30
Pyrene	ND		2.50	2.31		mg/Kg		92	64 - 120	1	38
1,2,4-Trichlorobenzene	ND		2.50	2.07		mg/Kg		83	52 - 120	5	30
2,4,5-Trichlorophenol	ND		2.50	2.20		mg/Kg		88	64 - 120	3	30
2,4,6-Trichlorophenol	ND		2.50	2.30		mg/Kg		92	61 - 120	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	*85*		*50 - 120*
2-Fluorophenol	*80*		*53 - 120*
Nitrobenzene-d5	*81*		*50 - 120*
Phenol-d5	*81*		*52 - 120*
Terphenyl-d14	*91*		*55 - 120*
2,4,6-Tribromophenol	*83*		*51 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 160-133953/1-A
Matrix: Solid
Analysis Batch: 133957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.7	0.31	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
alpha-BHC	ND		2.0	0.19	ug/Kg		07/25/14 12:19	07/25/14 23:06	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 160-133953/1-A
Matrix: Solid
Analysis Batch: 133957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 133953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		1.7	0.30	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
delta-BHC	ND		1.7	0.24	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
gamma-BHC (Lindane)	ND		1.7	0.17	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
alpha-Chlordane	ND		1.7	0.57	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
gamma-Chlordane	ND		1.7	0.16	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
4,4'-DDD	ND		1.7	0.22	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
4,4'-DDE	ND		1.7	0.39	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
4,4'-DDT	ND		1.7	0.63	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Dieldrin	ND		1.7	0.22	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Endosulfan I	ND		1.7	0.57	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Endosulfan II	ND		1.7	0.24	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Endosulfan sulfate	ND		1.7	0.34	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Endrin	ND		1.7	0.16	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Endrin aldehyde	ND		1.7	0.39	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Endrin ketone	ND		1.7	0.42	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Heptachlor	ND		2.0	0.20	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Methoxychlor	ND		3.3	0.72	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Toxaphene	ND		67	15	ug/Kg		07/25/14 12:19	07/25/14 23:06	1
Technical Chlordane	ND		17	3.7	ug/Kg		07/25/14 12:19	07/25/14 23:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*29 - 150*	*07/25/14 12:19*	*07/25/14 23:06*	*1*
Tetrachloro-m-xylene	*98*		*41 - 125*	*07/25/14 12:19*	*07/25/14 23:06*	*1*

Lab Sample ID: LCS 160-133953/2-A
Matrix: Solid
Analysis Batch: 133957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	16.3		ug/Kg		98	51 - 116
alpha-BHC	16.7	17.6		ug/Kg		106	50 - 117
beta-BHC	16.7	15.7		ug/Kg		94	50 - 113
delta-BHC	16.7	18.0		ug/Kg		108	53 - 121
gamma-BHC (Lindane)	16.7	15.5		ug/Kg		93	50 - 114
alpha-Chlordane	16.7	16.6		ug/Kg		100	55 - 119
gamma-Chlordane	16.7	16.4		ug/Kg		98	52 - 120
4,4'-DDD	16.7	17.5		ug/Kg		105	53 - 134
4,4'-DDE	16.7	16.2		ug/Kg		97	55 - 123
4,4'-DDT	16.7	17.5		ug/Kg		105	57 - 138
Dieldrin	16.7	16.9		ug/Kg		101	54 - 124
Endosulfan I	16.7	11.4		ug/Kg		68	38 - 99
Endosulfan II	16.7	13.0		ug/Kg		78	42 - 105
Endosulfan sulfate	16.7	17.0		ug/Kg		102	54 - 126
Endrin	16.7	17.5		ug/Kg		105	55 - 124
Endrin aldehyde	16.7	16.1		ug/Kg		96	50 - 116
Endrin ketone	16.7	17.5		ug/Kg		105	53 - 129
Heptachlor	16.7	14.8		ug/Kg		89	40 - 140

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 160-133953/2-A
Matrix: Solid
Analysis Batch: 133957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	16.7	17.2		ug/Kg		103	53 - 118
Methoxychlor	16.7	17.3		ug/Kg		104	54 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*97*		*29 - 150*
Tetrachloro-m-xylene	*94*		*41 - 125*

Lab Sample ID: 160-7625-A-1-B MS
Matrix: Solid
Analysis Batch: 133957

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 133953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		17.4	17.1		ug/Kg	☼	98	46 - 101
alpha-BHC	ND		17.4	18.6	F1	ug/Kg	☼	107	52 - 100
beta-BHC	ND		17.4	16.5		ug/Kg	☼	94	26 - 114
delta-BHC	ND		17.4	18.2		ug/Kg	☼	104	39 - 115
gamma-BHC (Lindane)	ND		17.5	16.8		ug/Kg	☼	96	44 - 101
alpha-Chlordane	ND		17.4	17.3		ug/Kg	☼	99	37 - 111
gamma-Chlordane	ND		17.4	17.2		ug/Kg	☼	99	46 - 117
4,4'-DDD	ND		17.4	17.9		ug/Kg	☼	102	53 - 134
4,4'-DDE	ND		17.5	16.7		ug/Kg	☼	95	55 - 123
4,4'-DDT	ND		17.4	17.7		ug/Kg	☼	101	57 - 138
Dieldrin	ND		17.5	17.7		ug/Kg	☼	101	54 - 124
Endosulfan I	ND		17.4	11.6		ug/Kg	☼	66	38 - 99
Endosulfan II	ND		17.4	13.0		ug/Kg	☼	75	42 - 105
Endosulfan sulfate	ND		17.4	17.4		ug/Kg	☼	100	54 - 126
Endrin	ND		17.5	18.3		ug/Kg	☼	105	36 - 125
Endrin aldehyde	ND		17.5	16.1		ug/Kg	☼	92	37 - 121
Endrin ketone	ND		17.5	17.6		ug/Kg	☼	101	47 - 120
Heptachlor	ND		17.4	16.5		ug/Kg	☼	94	28 - 128
Heptachlor epoxide	ND		17.4	17.3		ug/Kg	☼	99	44 - 107
Methoxychlor	ND		17.4	17.8		ug/Kg	☼	102	24 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*101*		*29 - 150*
Tetrachloro-m-xylene	*92*		*41 - 125*

Lab Sample ID: 160-7625-A-1-C MSD
Matrix: Solid
Analysis Batch: 133957

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 133953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		17.4	16.4		ug/Kg	☼	94	46 - 101	4	30
alpha-BHC	ND		17.4	17.8	F1	ug/Kg	☼	102	52 - 100	5	30
beta-BHC	ND		17.4	15.6		ug/Kg	☼	89	26 - 114	6	30
delta-BHC	ND		17.4	17.0		ug/Kg	☼	98	39 - 115	7	30
gamma-BHC (Lindane)	ND		17.5	15.6		ug/Kg	☼	89	44 - 101	8	30
alpha-Chlordane	ND		17.4	16.5		ug/Kg	☼	95	37 - 111	5	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 160-7625-A-1-C MSD
Matrix: Solid
Analysis Batch: 133957

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 133953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
gamma-Chlordane	ND		17.4	16.3		ug/Kg	☼	93	46 - 117	5	30
4,4'-DDD	ND		17.4	17.2		ug/Kg	☼	98	53 - 134	4	30
4,4'-DDE	ND		17.5	16.0		ug/Kg	☼	92	55 - 123	4	30
4,4'-DDT	ND		17.4	16.9		ug/Kg	☼	97	57 - 138	5	30
Dieldrin	ND		17.5	16.8		ug/Kg	☼	96	54 - 124	5	30
Endosulfan I	ND		17.4	11.0		ug/Kg	☼	63	38 - 99	5	30
Endosulfan II	ND		17.4	12.5		ug/Kg	☼	72	42 - 105	4	30
Endosulfan sulfate	ND		17.4	16.5		ug/Kg	☼	95	54 - 126	5	30
Endrin	ND		17.5	17.4		ug/Kg	☼	100	36 - 125	5	30
Endrin aldehyde	ND		17.4	15.2		ug/Kg	☼	87	37 - 121	6	30
Endrin ketone	ND		17.5	16.7		ug/Kg	☼	96	47 - 120	5	30
Heptachlor	ND		17.4	15.0		ug/Kg	☼	86	28 - 128	9	30
Heptachlor epoxide	ND		17.4	16.4		ug/Kg	☼	94	44 - 107	5	30
Methoxychlor	ND		17.4	16.6		ug/Kg	☼	95	24 - 131	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*29 - 150*
Tetrachloro-m-xylene	*84*		*41 - 125*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Lab Sample ID: 14G0143-BLK1
Matrix: Soil
Analysis Batch: 14G0143

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14G0143_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.25		mg/kg wet		07/18/14 14:21	07/21/14 14:20	1.00
Chromium	ND		0.500		mg/kg wet		07/18/14 14:21	07/21/14 14:20	1.00
Copper	ND		4.00		mg/kg wet		07/18/14 14:21	07/21/14 14:20	1.00
Lead	ND		1.25		mg/kg wet		07/18/14 14:21	07/21/14 14:20	1.00

Lab Sample ID: 14G0143-BS1
Matrix: Soil
Analysis Batch: 14G0143

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14G0143_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.7		mg/kg wet		103	80 - 120
Chromium	50.0	50.5		mg/kg wet		101	80 - 120
Copper	50.0	50.9		mg/kg wet		102	80 - 120
Lead	50.0	50.7		mg/kg wet		101	80 - 120

Lab Sample ID: 14G0143-MS1
Matrix: Soil
Analysis Batch: 14G0143

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 14G0143_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.74		63.8	65.1		mg/kg dry	☼	88.3	75 - 125
Chromium	10.8		63.8	63.6		mg/kg dry	☼	82.8	75 - 125

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B (Continued)

Lab Sample ID: 14G0143-MS1
Matrix: Soil
Analysis Batch: 14G0143

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 14G0143_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	20.4		63.8	84.1		mg/kg dry	☼	99.8	75 - 125
Lead	14.1		63.8	65.8		mg/kg dry	☼	81.1	75 - 125

Lab Sample ID: 14G0143-MSD1
Matrix: Soil
Analysis Batch: 14G0143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 14G0143_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.74		59.6	61.1		mg/kg dry	☼	87.9	75 - 125	6.29	20
Chromium	10.8		59.6	60.0		mg/kg dry	☼	82.6	75 - 125	5.76	20
Copper	20.4		59.6	77.3		mg/kg dry	☼	95.5	75 - 125	8.38	20
Lead	14.1		59.6	62.4		mg/kg dry	☼	81.1	75 - 125	5.32	20

Lab Sample ID: 14G0143-DUP1
Matrix: Soil
Analysis Batch: 14G0143

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0143_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Chromium	10.8		10.9		mg/kg dry	☼	1.05	20
Copper	20.4		19.9		mg/kg dry	☼	2.67	20
Lead	14.1		12.2		mg/kg dry	☼	14.5	20

Lab Sample ID: 14G0143-DUP1
Matrix: Soil
Analysis Batch: 14G0143

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14G0143_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Arsenic	8.74		9.52		mg/kg dry	☼	8.53	20

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: 133957-25
Matrix: Soil
Analysis Batch: 133953

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 133953_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.22	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
4,4'-DDE	ND		1.7	0.39	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
4,4'-DDT	ND		1.7	0.63	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Aldrin	ND		1.7	0.31	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
alpha-BHC	ND		2.0	0.19	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
alpha-Chlordane	ND		1.7	0.57	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
beta-BHC	ND		1.7	0.30	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
delta-BHC	ND		1.7	0.24	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Dieldrin	ND		1.7	0.22	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Endosulfan I	ND		1.7	0.57	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Endosulfan II	ND		1.7	0.24	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Endosulfan sulfate	ND		1.7	0.34	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 133957-25
Matrix: Soil
Analysis Batch: 133953

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 133953_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		1.7	0.16	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Endrin aldehyde	ND		1.7	0.39	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Endrin ketone	ND		1.7	0.42	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
gamma-BHC (Lindane)	ND		1.7	0.17	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
gamma-Chlordane	ND		1.7	0.16	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Heptachlor	ND		2.0	0.20	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Methoxychlor	ND		3.3	0.72	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Technical Chlordane	ND		17	3.7	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1
Toxaphene	ND		67	15	ug/Kg dry		07/25/14 12:19	07/25/14 23:06	1

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*29 - 150*	*07/25/14 12:19*	*07/25/14 23:06*	*1*
Tetrachloro-m-xylene	*98*		*41 - 125*	*07/25/14 12:19*	*07/25/14 23:06*	*1*

Lab Sample ID: 133957-26
Matrix: Soil
Analysis Batch: 133953

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 133953_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.7	17.5		ug/Kg dry		105	53 - 134
4,4'-DDE	16.7	16.2		ug/Kg dry		97	55 - 123
4,4'-DDT	16.7	17.5		ug/Kg dry		105	57 - 138
Aldrin	16.7	16.3		ug/Kg dry		98	51 - 116
alpha-BHC	16.7	17.6		ug/Kg dry		106	50 - 117
alpha-Chlordane	16.7	16.6		ug/Kg dry		100	55 - 119
beta-BHC	16.7	15.7		ug/Kg dry		94	50 - 113
delta-BHC	16.7	18.0		ug/Kg dry		108	53 - 121
Dieldrin	16.7	16.9		ug/Kg dry		101	54 - 124
Endosulfan I	16.7	11.4		ug/Kg dry		68	38 - 99
Endosulfan II	16.7	13.0		ug/Kg dry		78	42 - 105
Endosulfan sulfate	16.7	17.0		ug/Kg dry		102	54 - 126
Endrin	16.7	17.5		ug/Kg dry		105	55 - 124
Endrin aldehyde	16.7	16.1		ug/Kg dry		96	50 - 116
Endrin ketone	16.7	17.5		ug/Kg dry		105	53 - 129
gamma-BHC (Lindane)	16.7	15.5		ug/Kg dry		93	50 - 114
gamma-Chlordane	16.7	16.4		ug/Kg dry		98	52 - 120
Heptachlor	16.7	14.8		ug/Kg dry		89	40 - 140
Heptachlor epoxide	16.7	17.2		ug/Kg dry		103	53 - 118
Methoxychlor	16.7	17.3		ug/Kg dry		104	54 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*97*		*29 - 150*
Tetrachloro-m-xylene	*94*		*41 - 125*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 133957-28
Matrix: Soil
Analysis Batch: 133953

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 133953_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		17.4	17.9		ug/Kg dry	☼	102	53 - 134
4,4'-DDE	ND		17.5	16.7		ug/Kg dry	☼	95	55 - 123
4,4'-DDT	ND		17.4	17.7		ug/Kg dry	☼	101	57 - 138
Aldrin	ND		17.4	17.1		ug/Kg dry	☼	98	46 - 101
alpha-BHC	ND		17.4	18.6	F1	ug/Kg dry	☼	107	52 - 100
alpha-Chlordane	ND		17.4	17.3		ug/Kg dry	☼	99	37 - 111
beta-BHC	ND		17.4	16.5		ug/Kg dry	☼	94	26 - 114
delta-BHC	ND		17.4	18.2		ug/Kg dry	☼	104	39 - 115
Dieldrin	ND		17.5	17.7		ug/Kg dry	☼	101	54 - 124
Endosulfan I	ND		17.4	11.6		ug/Kg dry	☼	66	38 - 99
Endosulfan II	ND		17.4	13.0		ug/Kg dry	☼	75	42 - 105
Endosulfan sulfate	ND		17.4	17.4		ug/Kg dry	☼	100	54 - 126
Endrin	ND		17.5	18.3		ug/Kg dry	☼	105	36 - 125
Endrin aldehyde	ND		17.5	16.1		ug/Kg dry	☼	92	37 - 121
Endrin ketone	ND		17.5	17.6		ug/Kg dry	☼	101	47 - 120
gamma-BHC (Lindane)	ND		17.5	16.8		ug/Kg dry	☼	96	44 - 101
gamma-Chlordane	ND		17.4	17.2		ug/Kg dry	☼	99	46 - 117
Heptachlor	ND		17.4	16.5		ug/Kg dry	☼	94	28 - 128
Heptachlor epoxide	ND		17.4	17.3		ug/Kg dry	☼	99	44 - 107
Methoxychlor	ND		17.4	17.8		ug/Kg dry	☼	102	24 - 131

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*101*		*29 - 150*
Tetrachloro-m-xylene	*92*		*41 - 125*

Lab Sample ID: 133957-29
Matrix: Soil
Analysis Batch: 133953

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 133953_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		17.4	17.2		ug/Kg dry	☼	98	53 - 134	4	30
4,4'-DDE	ND		17.5	16.0		ug/Kg dry	☼	92	55 - 123	4	30
4,4'-DDT	ND		17.4	16.9		ug/Kg dry	☼	97	57 - 138	5	30
Aldrin	ND		17.4	16.4		ug/Kg dry	☼	94	46 - 101	4	30
alpha-BHC	ND		17.4	17.8	F1	ug/Kg dry	☼	102	52 - 100	5	30
alpha-Chlordane	ND		17.4	16.5		ug/Kg dry	☼	95	37 - 111	5	30
beta-BHC	ND		17.4	15.6		ug/Kg dry	☼	89	26 - 114	6	30
delta-BHC	ND		17.4	17.0		ug/Kg dry	☼	98	39 - 115	7	30
Dieldrin	ND		17.5	16.8		ug/Kg dry	☼	96	54 - 124	5	30
Endosulfan I	ND		17.4	11.0		ug/Kg dry	☼	63	38 - 99	5	30
Endosulfan II	ND		17.4	12.5		ug/Kg dry	☼	72	42 - 105	4	30
Endosulfan sulfate	ND		17.4	16.5		ug/Kg dry	☼	95	54 - 126	5	30
Endrin	ND		17.5	17.4		ug/Kg dry	☼	100	36 - 125	5	30
Endrin aldehyde	ND		17.4	15.2		ug/Kg dry	☼	87	37 - 121	6	30
Endrin ketone	ND		17.5	16.7		ug/Kg dry	☼	96	47 - 120	5	30
gamma-BHC (Lindane)	ND		17.5	15.6		ug/Kg dry	☼	89	44 - 101	8	30
gamma-Chlordane	ND		17.4	16.3		ug/Kg dry	☼	93	46 - 117	5	30
Heptachlor	ND		17.4	15.0		ug/Kg dry	☼	86	28 - 128	9	30

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 133957-29
Matrix: Soil
Analysis Batch: 133953

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 133953_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Du Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND		17.4	16.4		ug/Kg dry	☼	94	44 - 107	5	30
Methoxychlor	ND		17.4	16.6		ug/Kg dry	☼	95	24 - 131	7	30

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*29 - 150*
Tetrachloro-m-xylene	*84*		*41 - 125*

Lab Chronicle

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Client Sample ID: Westside

Lab Sample ID: SXG0084-01

Date Collected: 07/11/14 15:00
Matrix: Soil
Date Received: 07/14/14 11:50
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.884	14G0115_P	07/16/14 07:59	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0115	07/17/14 00:43	CBW	TAL SPK
Total/NA	Prep	3550C			234632	07/16/14 16:41	EJP	TAL DEN
Total/NA	Analysis	8270C		1	234757	07/17/14 15:54	MGH	TAL DEN
Total/NA	Prep	3550C			133953	07/25/14 12:19	KKA	TAL SL
Total/NA	Analysis	8081B		1	133957	07/25/14 23:46	CEH	TAL SL
Total	Prep	EPA 3050B		0.990	14G0143_P	07/18/14 14:21	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14G0143	07/21/14 15:08	ICP	TAL SPK
Total	Prep	EPA 3050B		0.990	14G0143_P	07/18/14 14:21	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14G0143	07/21/14 16:40	ICP	TAL SPK
Total/NA	Analysis	Moisture		1	133981	07/26/14 08:18	SDB	TAL SL
Total	Prep	3550C			133953_P	07/25/14 12:19		TAL SL
Total	Analysis	8081B		1	133953	07/25/14 23:46	CEH	TAL SL

Client Sample ID: Eastside

Lab Sample ID: SXG0084-02

Date Collected: 07/11/14 15:00
Matrix: Soil
Date Received: 07/14/14 11:50
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.901	14G0115_P	07/16/14 07:59	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14G0115	07/17/14 01:05	CBW	TAL SPK
Total/NA	Prep	3550C			234632	07/16/14 16:41	EJP	TAL DEN
Total/NA	Analysis	8270C		1	234757	07/17/14 17:16	MGH	TAL DEN
Total/NA	Prep	3550C			133953	07/25/14 12:19	KKA	TAL SL
Total/NA	Analysis	8081B		1	133957	07/26/14 00:46	CEH	TAL SL
Total	Prep	EPA 3050B		0.935	14G0143_P	07/18/14 14:21	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14G0143	07/21/14 15:12	ICP	TAL SPK
Total	Prep	EPA 3050B		0.935	14G0143_P	07/18/14 14:21	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14G0143	07/21/14 16:43	ICP	TAL SPK
Total/NA	Analysis	Moisture		1	133981	07/26/14 08:18	SDB	TAL SL
Total	Prep	Wet Chem		1.00	14G0155_P	07/22/14 09:43	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14G0155	07/22/14 09:44	JSP	TAL SPK
Total	Prep	3550C			133953_P	07/25/14 12:19		TAL SL
Total	Analysis	8081B		1	133953	07/26/14 00:46	CEH	TAL SL
Total	Analysis	Moisture		1	133981	07/26/14 08:18	SDB	TAL SL
Total	Prep	NA			133981_P	07/26/14 08:18		TAL SL

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL 314.298.8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-15
A2LA	ISO/IEC 17025		2907.01	10-31-15
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	07-31-14
Arizona	State Program	9	AZ0713	12-19-14
Arkansas DEQ	State Program	6	88-0687	06-01-14 *
California	State Program	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-15
Georgia	State Program	4	N/A	01-09-15
Illinois	NELAP	5	200017	04-30-15
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-15
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Minnesota	NELAP	5	8-999-405	12-31-14
Nevada	State Program	9	CO0026	07-31-14
New Hampshire	NELAP	1	205310	04-28-15
New Jersey	NELAP	2	CO004	06-30-15
New Mexico	State Program	6	CO00026	01-09-15
New York	NELAP	2	11964	03-31-15
North Carolina (WW/SW)	State Program	4	358	12-31-14
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	4025	01-09-15
Pennsylvania	NELAP	3	68-00664	07-30-14 *
South Carolina	State Program	4	72002001	06-30-14 *
Texas	NELAP	6	T104704183-13-8	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO00026	07-31-14
Virginia	NELAP	3	460232	06-14-15
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	11-30-14
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8	2907.01	10-31-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15
California	NELAP	9	2886	03-31-15
Connecticut	State Program	1	PH-0241	03-31-15

* Certification renewal pending - certification considered valid.

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87689	06-30-15
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15
Louisiana	NELAP	6	LA140007	12-31-14
Maryland	State Program	3	310	09-30-14
Missouri	State Program	7	780	06-30-14
Nevada	State Program	9	MO000542013-1	07-31-14
New Jersey	NELAP	2	MO002	06-30-15
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	03-31-15
North Dakota	State Program	8	R207	06-30-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14
Pennsylvania	NELAP	3	68-00540	02-28-15
South Carolina	State Program	4	85002001	06-30-14
Texas	NELAP	6	T104704193-13-6	07-31-14
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14
Virginia	NELAP	3	460230	06-14-15
Washington	State Program	10	C592	08-30-14
West Virginia DEP	State Program	3	381	08-30-14

* Certification renewal pending - certification considered valid.

Method Summary

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXG0084

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8081B	Organochlorine Pesticides (GC)	SW846	TAL SL
EPA 6010C	Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B		TAL SPK
Moisture	Percent Moisture	EPA	TAL SL
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL 314.298.8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

SXG0084

Client	Client Contact	Date	Chain of Custody Number
Tommer Const. Co. Inc.	Chris Tommer	6-11-14	25688

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page ____ of ____
P.O. Box 1150	(509) 750-8954 509-787-3632		

City	State	Zip Code	Sampler	Lab Contact
Ephrata	Wa.	98823	Chris Tommer	

Project Name and Location (State)	Billing Contact
Wenatchee Pit Wa.	Chris Tommer

Contract/Purchase Order/Quote No.: 58007647

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Volatiles	Semi Volatiles	Pesticides	Arsenic	Lead	PB	Special Instructions/ Conditions of Receipt
West Side	6-11-14	3:00pm											X	X		X	X	X	X
East Side	6-11-14	3:00pm											X	X		X	X	X	X

Cooler: ☒ Yes ☐ No Cooler Temp: 1

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☒ Disposal By Lab ☐ Return To Client ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☒ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Chris Tommer	6-14	9:00	1. Received By Sign/Print:	7-14-14	11:50
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXG0084	Client: Tommer Const.			Project: Wenatchee Pit
Date/Time Received: 7-14-14 11:50	By: CS			
Samples Delivered By: ☐Shipping Service ☐Courier ☒Client ☐Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐Blue Ice ☐Gel Ice ☒Real Ice ☐Dry Ice ☐None ☐Other:

Temperature: 5.5 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐Not enough ice ☐Ice melted ☐w/in 4hrs of collection ☐NA ☐Other:

Log-in Phase Date/Time: 7-14-14 13:25 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis	X			5days
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			7	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



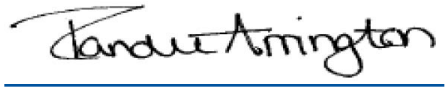
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXH0010
Client Project/Site: [none]
Client Project Description: Wenatchee Pit

For:
Tommer Construction Company, Inc.
PO Box 1150
Ephrata, WA 98823

Attn: Chris Tommer



Authorized for release by:
8/18/2014 4:00:40 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Definitions 5
Client Sample Results 6
QC Sample Results 22
Chronicle 34
Certification Summary 36
Method Summary 37
Chain of Custody 38

Case Narrative

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Job ID: SXH0010

Laboratory: TestAmerica St. Louis

Narrative

Job Narrative
160-7748-1

Comments
No additional comments.

Receipt
The samples were received on 8/5/2014 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

GC/MS Semi VOA
Method(s) 8270D: Surrogate recoveries for the following samples were outside the upper control limit: (LCS 160-137750/2-A), (LCSD 160-137750/3-A), (MB 160-137750/1-A), SXH0010-02 (Southside - Soil) (160-7748-2), SXH0010-03 (Eastside - Soil) (160-7748-3). These samples did not contain any target analytes >RL (except for QC); therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 138228 recovered outside the upper control limits. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 160-137750/2-A), (LCSD 160-137750/3-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550C: 3550 8270
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch <<137750>>. An LCS/LCSD was performed to demonstrate accuracy and replicate precision. SXH0010-01 (Northside - Soil) (160-7748-1), SXH0010-02 (Southside - Soil) (160-7748-2), SXH0010-03 (Eastside - Soil) (160-7748-3), SXH0010-04 (Westside - Soil) (160-7748-4)

Method(s) 3550C: 3550 8081
Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch <<137746>>. An LCS/LCSD was performed to demonstrate accuracy and replicate precision. SXH0010-01 (Northside - Soil) (160-7748-1), SXH0010-02 (Southside - Soil) (160-7748-2), SXH0010-03 (Eastside - Soil) (160-7748-3), SXH0010-04 (Westside - Soil) (160-7748-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXH0010-01	Northside	Soil	07/31/14 11:05	08/04/14 14:30
SXH0010-02	Southside	Soil	07/31/14 11:10	08/04/14 14:30
SXH0010-03	Eastside	Soil	07/31/14 11:15	08/04/14 14:30
SXH0010-04	Westside	Soil	07/31/14 11:20	08/04/14 14:30

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Northside
Date Collected: 07/31/14 11:05
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-01
Matrix: Soil
Percent Solids: 93.9

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.111	0.0103	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Chloromethane	ND		0.555	0.00588	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Vinyl chloride	ND		0.0665	0.00688	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Bromomethane	ND		0.555	0.0339	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Chloroethane	ND		0.111	0.0272	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Trichlorofluoromethane	ND		0.0333	0.00876	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,1-Dichloroethene	ND		0.111	0.0141	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Carbon disulfide	ND		0.111	0.0119	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Methylene chloride	ND		0.222	0.00577	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Acetone	**0.769**	**J**	3.33	0.0965	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
trans-1,2-Dichloroethene	ND		0.111	0.0114	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Methyl tert-butyl ether	ND		0.0555	0.00355	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,1-Dichloroethane	ND		0.111	0.0125	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
cis-1,2-Dichloroethene	ND		0.111	0.00632	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
2,2-Dichloropropane	ND		0.111	0.0189	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Bromochloromethane	ND		0.111	0.00433	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Chloroform	ND		0.111	0.00854	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Carbon tetrachloride	ND		0.111	0.0231	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,1,1-Trichloroethane	ND		0.111	0.0192	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
2-Butanone	ND		1.11	0.122	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Hexane	ND		0.111	0.00898	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,1-Dichloropropene	ND		0.111	0.0193	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Benzene	ND		0.0166	0.0108	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2-Dichloroethane (EDC)	ND		0.111	0.00543	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Trichloroethene	ND		0.0277	0.0142	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Dibromomethane	ND		0.111	0.0101	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2-Dichloropropane	ND		0.111	0.00665	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Bromodichloromethane	ND		0.111	0.00776	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
cis-1,3-Dichloropropene	ND		0.111	0.00688	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Toluene	ND		0.111	0.0148	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
4-Methyl-2-pentanone	ND		1.11	0.0226	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
trans-1,3-Dichloropropene	ND		0.111	0.00732	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Tetrachloroethene	ND		0.0444	0.0195	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,1,2-Trichloroethane	ND		0.111	0.00688	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Dibromochloromethane	**0.0139**	**J**	0.111	0.00665	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,3-Dichloropropane	ND		0.111	0.00821	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2-Dibromoethane	ND		0.0111	0.00643	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
2-Hexanone	ND		1.11	0.0516	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Ethylbenzene	ND		0.111	0.0180	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Chlorobenzene	ND		0.111	0.00843	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,1,1,2-Tetrachloroethane	ND		0.111	0.0113	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
m,p-Xylene	ND		0.444	0.0189	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
o-Xylene	ND		0.222	0.0145	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Styrene	ND		0.111	0.0103	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Bromoform	ND		0.111	0.0139	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Isopropylbenzene	ND		0.111	0.0211	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
n-Propylbenzene	ND		0.111	0.0230	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,1,2,2-Tetrachloroethane	ND		0.111	0.00832	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Bromobenzene	ND		0.111	0.0104	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00

Client Sample ID: Northside
Date Collected: 07/31/14 11:05
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-01
Matrix: Soil
Percent Solids: 93.9

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.111	0.0206	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
2-Chlorotoluene	ND		0.111	0.0181	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2,3-Trichloropropane	ND		0.111	0.00932	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
4-Chlorotoluene	ND		0.111	0.0159	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
tert-Butylbenzene	ND		0.111	0.0240	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2,4-Trimethylbenzene	ND		0.111	0.0161	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
sec-Butylbenzene	ND		0.111	0.0261	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
p-Isopropyltoluene	ND		0.111	0.0265	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,3-Dichlorobenzene	ND		0.111	0.0140	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,4-Dichlorobenzene	ND		0.111	0.0118	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
n-Butylbenzene	ND		0.111	0.0305	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2-Dichlorobenzene	ND		0.111	0.00843	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2-Dibromo-3-chloropropane	ND		0.555	0.0315	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Hexachlorobutadiene	ND		0.111	0.0632	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2,4-Trichlorobenzene	ND		0.111	0.0221	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
Naphthalene	ND		0.222	0.0151	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00
1,2,3-Trichlorobenzene	ND		0.111	0.0394	mg/kg dry	☼	08/06/14 07:41	08/06/14 10:42	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*80 - 120*	*08/06/14 07:41*	*08/06/14 10:42*	*1.00*
1,2-dichloroethane-d4	*102*		*74.7 - 120*	*08/06/14 07:41*	*08/06/14 10:42*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*08/06/14 07:41*	*08/06/14 10:42*	*1.00*
4-bromofluorobenzene	*99.7*		*69.8 - 140*	*08/06/14 07:41*	*08/06/14 10:42*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Acenaphthylene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Benzo[a]anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Benzo[b]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Benzo[k]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Benzo[g,h,i]perylene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Benzo[a]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Bis(2-chloroethoxy)methane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Bis(2-chloroethyl)ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Bis(2-ethylhexyl) phthalate	ND		0.35	0.048	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
4-Bromophenyl phenyl ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Butyl benzyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Carbazole	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
4-Chloroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
4-Chloro-3-methylphenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2-Chloronaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2-Chlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
4-Chlorophenyl phenyl ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Chrysene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Dibenz(a,h)anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Dibenzofuran	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Di-n-butyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
1,2-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Northside
Date Collected: 07/31/14 11:05
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-01
Matrix: Soil
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
1,4-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
3,3'-Dichlorobenzidine	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2,4-Dichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Diethyl phthalate	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2,4-Dimethylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Dimethyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
4,6-Dinitro-2-methylphenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2,4-Dinitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2,4-Dinitrotoluene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2,6-Dinitrotoluene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Di-n-octyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Fluorene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Hexachlorobenzene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Hexachlorobutadiene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Hexachlorocyclopentadiene	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Hexachloroethane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Indeno[1,2,3-cd]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Isophorone	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2-Methylnaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2-Methylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
3 & 4 Methylphenol	ND		0.70	0.071	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Naphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
3-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
4-Nitroaniline	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Nitrobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2-Nitrophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
4-Nitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
N-Nitrosodiphenylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
N-Nitrosodi-n-propylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
bis (2-chloroisopropyl) ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Pentachlorophenol	ND		0.70	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Phenanthrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Phenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Pyrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
1,2,4-Trichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2,4,5-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
2,4,6-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Aniline	ND		0.35	0.063	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
1,4-Dioxane	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Benzyl alcohol	ND		0.35	0.055	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1
Pyridine	ND		0.70	0.071	mg/Kg	☼	08/13/14 08:44	08/14/14 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*91*		*53 - 97*	*08/13/14 08:44*	*08/14/14 22:07*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*46 - 111*	*08/13/14 08:44*	*08/14/14 22:07*	*1*
Nitrobenzene-d5 (Surr)	*93*		*55 - 98*	*08/13/14 08:44*	*08/14/14 22:07*	*1*
Phenol-d5 (Surr)	*91*		*54 - 101*	*08/13/14 08:44*	*08/14/14 22:07*	*1*

Client Sample ID: Northside

Lab Sample ID: SXH0010-01

Date Collected: 07/31/14 11:05

Matrix: Soil

Date Received: 08/04/14 14:30

Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*94*		*58 - 123*	*08/13/14 08:44*	*08/14/14 22:07*	*1*
2-Fluorobiphenyl (Surr)	*94*		*56 - 97*	*08/13/14 08:44*	*08/14/14 22:07*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.8	0.33	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
alpha-BHC	ND		2.1	0.20	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
delta-BHC	ND		1.8	0.26	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
alpha-Chlordane	ND		1.8	0.60	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
4,4'-DDD	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
4,4'-DDE	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
4,4'-DDT	ND		1.8	0.67	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Dieldrin	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Endosulfan I	ND		1.8	0.61	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Endosulfan II	ND		1.8	0.25	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Endrin	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Heptachlor	ND		2.1	0.22	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Heptachlor epoxide	ND		1.8	0.46	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Methoxychlor	ND		3.5	0.76	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Toxaphene	ND		71	16	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1
Technical Chlordane	ND		18	4.0	ug/Kg	☼	08/13/14 09:30	08/13/14 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*106*		*29 - 150*	*08/13/14 09:30*	*08/13/14 18:45*	*1*
Tetrachloro-m-xylene	*88*		*41 - 125*	*08/13/14 09:30*	*08/13/14 18:45*	*1*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.19**		2.32		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:04	2.00
Chromium	**15.1**		0.926		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:04	2.00
Copper	**19.1**		7.41		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:04	2.00
Lead	**3.15**		2.32		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:04	2.00

Client Sample ID: Southside

Lab Sample ID: SXH0010-02

Date Collected: 07/31/14 11:10

Matrix: Soil

Date Received: 08/04/14 14:30

Percent Solids: 93.9

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.115	0.0106	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Chloromethane	ND		0.573	0.00607	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Vinyl chloride	ND		0.0687	0.00710	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Bromomethane	ND		0.573	0.0350	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Chloroethane	ND		0.115	0.0281	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Southside
Date Collected: 07/31/14 11:10
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-02
Matrix: Soil
Percent Solids: 93.9

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.0344	0.00905	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,1-Dichloroethene	ND		0.115	0.0145	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Carbon disulfide	ND		0.115	0.0123	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Methylene chloride	**0.0155**	**J**	0.229	0.00595	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Acetone	**1.33**	**J**	3.44	0.0996	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
trans-1,2-Dichloroethene	ND		0.115	0.0118	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Methyl tert-butyl ether	ND		0.0573	0.00366	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,1-Dichloroethane	ND		0.115	0.0129	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
cis-1,2-Dichloroethene	ND		0.115	0.00653	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
2,2-Dichloropropane	ND		0.115	0.0195	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Bromochloromethane	ND		0.115	0.00447	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Chloroform	ND		0.115	0.00882	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Carbon tetrachloride	ND		0.115	0.0238	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,1,1-Trichloroethane	ND		0.115	0.0198	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
2-Butanone	ND		1.15	0.126	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Hexane	ND		0.115	0.00927	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,1-Dichloropropene	ND		0.115	0.0199	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Benzene	ND		0.0172	0.0111	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2-Dichloroethane (EDC)	ND		0.115	0.00561	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Trichloroethene	ND		0.0286	0.0147	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Dibromomethane	ND		0.115	0.0104	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2-Dichloropropane	ND		0.115	0.00687	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Bromodichloromethane	ND		0.115	0.00802	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
cis-1,3-Dichloropropene	ND		0.115	0.00710	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Toluene	ND		0.115	0.0152	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
4-Methyl-2-pentanone	ND		1.15	0.0234	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
trans-1,3-Dichloropropene	ND		0.115	0.00756	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Tetrachloroethene	ND		0.0458	0.0202	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,1,2-Trichloroethane	ND		0.115	0.00710	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Dibromochloromethane	ND		0.115	0.00687	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,3-Dichloropropane	ND		0.115	0.00847	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2-Dibromoethane	ND		0.0115	0.00664	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
2-Hexanone	ND		1.15	0.0532	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Ethylbenzene	ND		0.115	0.0185	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Chlorobenzene	ND		0.115	0.00870	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,1,1,2-Tetrachloroethane	ND		0.115	0.0117	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
m,p-Xylene	ND		0.458	0.0195	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
o-Xylene	ND		0.229	0.0150	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Styrene	ND		0.115	0.0106	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Bromoform	ND		0.115	0.0143	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Isopropylbenzene	ND		0.115	0.0218	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
n-Propylbenzene	ND		0.115	0.0237	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,1,2,2-Tetrachloroethane	ND		0.115	0.00859	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Bromobenzene	ND		0.115	0.0108	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,3,5-Trimethylbenzene	ND		0.115	0.0213	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
2-Chlorotoluene	ND		0.115	0.0187	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2,3-Trichloropropane	ND		0.115	0.00962	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
4-Chlorotoluene	ND		0.115	0.0164	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
tert-Butylbenzene	ND		0.115	0.0247	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Southside
Date Collected: 07/31/14 11:10
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-02
Matrix: Soil
Percent Solids: 93.9

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.115	0.0166	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
sec-Butylbenzene	ND		0.115	0.0269	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
p-Isopropyltoluene	ND		0.115	0.0274	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,3-Dichlorobenzene	ND		0.115	0.0144	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,4-Dichlorobenzene	ND		0.115	0.0121	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
n-Butylbenzene	ND		0.115	0.0315	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2-Dichlorobenzene	ND		0.115	0.00870	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2-Dibromo-3-chloropropane	ND		0.573	0.0325	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Hexachlorobutadiene	ND		0.115	0.0653	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2,4-Trichlorobenzene	ND		0.115	0.0228	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
Naphthalene	ND		0.229	0.0156	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00
1,2,3-Trichlorobenzene	ND		0.115	0.0406	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:04	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*99.5*		*80 - 120*	*08/06/14 07:41*	*08/06/14 11:04*	*1.00*
1,2-dichloroethane-d4	*99.1*		*74.7 - 120*	*08/06/14 07:41*	*08/06/14 11:04*	*1.00*
Toluene-d8	*103*		*78.5 - 125*	*08/06/14 07:41*	*08/06/14 11:04*	*1.00*
4-bromofluorobenzene	*97.5*		*69.8 - 140*	*08/06/14 07:41*	*08/06/14 11:04*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Acenaphthylene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Benzo[a]anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Benzo[b]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Benzo[k]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Benzo[g,h,i]perylene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Benzo[a]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Bis(2-chloroethoxy)methane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Bis(2-chloroethyl)ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Bis(2-ethylhexyl) phthalate	ND		0.35	0.048	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
4-Bromophenyl phenyl ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Butyl benzyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Carbazole	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
4-Chloroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
4-Chloro-3-methylphenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2-Chloronaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2-Chlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
4-Chlorophenyl phenyl ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Chrysene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Dibenz(a,h)anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Dibenzofuran	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Di-n-butyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
1,2-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
1,3-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
1,4-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
3,3'-Dichlorobenzidine	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2,4-Dichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Diethyl phthalate	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1

Client Sample ID: Southside
Date Collected: 07/31/14 11:10
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-02
Matrix: Soil
Percent Solids: 94.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Dimethyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
4,6-Dinitro-2-methylphenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2,4-Dinitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2,4-Dinitrotoluene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2,6-Dinitrotoluene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Di-n-octyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Fluorene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Hexachlorobenzene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Hexachlorobutadiene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Hexachlorocyclopentadiene	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Hexachloroethane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Indeno[1,2,3-cd]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Isophorone	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2-Methylnaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2-Methylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
3 & 4 Methylphenol	ND		0.70	0.070	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Naphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
3-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
4-Nitroaniline	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Nitrobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2-Nitrophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
4-Nitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
N-Nitrosodiphenylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
N-Nitrosodi-n-propylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
bis (2-chloroisopropyl) ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Pentachlorophenol	ND		0.70	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Phenanthrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Phenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Pyrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
1,2,4-Trichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2,4,5-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
2,4,6-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Aniline	ND		0.35	0.063	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
1,4-Dioxane	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Benzyl alcohol	ND		0.35	0.055	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1
Pyridine	ND		0.70	0.070	mg/Kg	☼	08/13/14 08:44	08/14/14 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*98*	*X*	*53 - 97*	*08/13/14 08:44*	*08/14/14 22:41*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*46 - 111*	*08/13/14 08:44*	*08/14/14 22:41*	*1*
Nitrobenzene-d5 (Surr)	*101*	*X*	*55 - 98*	*08/13/14 08:44*	*08/14/14 22:41*	*1*
Phenol-d5 (Surr)	*98*		*54 - 101*	*08/13/14 08:44*	*08/14/14 22:41*	*1*
Terphenyl-d14 (Surr)	*104*		*58 - 123*	*08/13/14 08:44*	*08/14/14 22:41*	*1*
2-Fluorobiphenyl (Surr)	*102*	*X*	*56 - 97*	*08/13/14 08:44*	*08/14/14 22:41*	*1*

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Southside

Lab Sample ID: SXH0010-02

Date Collected: 07/31/14 11:10
Matrix: Soil
Date Received: 08/04/14 14:30
Percent Solids: 94.5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.8	0.32	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
alpha-BHC	ND		2.1	0.20	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
delta-BHC	ND		1.8	0.26	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
alpha-Chlordane	ND		1.8	0.60	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
4,4'-DDD	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
4,4'-DDE	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
4,4'-DDT	ND		1.8	0.66	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Dieldrin	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Endosulfan I	ND		1.8	0.60	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Endosulfan II	ND		1.8	0.25	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Endrin	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Heptachlor	ND		2.1	0.22	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Methoxychlor	ND		3.5	0.76	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Toxaphene	ND		71	16	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1
Technical Chlordane	ND		18	3.9	ug/Kg	☼	08/13/14 09:30	08/13/14 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*29 - 150*	*08/13/14 09:30*	*08/13/14 19:05*	*1*
Tetrachloro-m-xylene	*95*		*41 - 125*	*08/13/14 09:30*	*08/13/14 19:05*	*1*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.22**		1.28		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:34	1.00
Chromium	**14.1**		0.512		mg/kg dry	☼	08/08/14 11:53	08/11/14 19:06	1.00
Copper	**18.2**		4.10		mg/kg dry	☼	08/08/14 11:53	08/11/14 19:06	1.00
Lead	**3.98**		1.28		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:34	1.00

Client Sample ID: Eastside

Lab Sample ID: SXH0010-03

Date Collected: 07/31/14 11:15
Matrix: Soil
Date Received: 08/04/14 14:30
Percent Solids: 94

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.112	0.0104	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Chloromethane	ND		0.560	0.00593	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Vinyl chloride	ND		0.0672	0.00694	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Bromomethane	ND		0.560	0.0342	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Chloroethane	ND		0.112	0.0274	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Trichlorofluoromethane	ND		0.0336	0.00884	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,1-Dichloroethene	ND		0.112	0.0142	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Carbon disulfide	ND		0.112	0.0120	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Methylene chloride	ND		0.224	0.00582	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Acetone	**0.589**	**J**	3.36	0.0974	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Eastside
Date Collected: 07/31/14 11:15
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-03
Matrix: Soil
Percent Solids: 94

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.112	0.0115	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Methyl tert-butyl ether	ND		0.0560	0.00358	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,1-Dichloroethane	ND		0.112	0.0126	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
cis-1,2-Dichloroethene	ND		0.112	0.00638	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
2,2-Dichloropropane	ND		0.112	0.0190	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Bromochloromethane	ND		0.112	0.00436	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Chloroform	ND		0.112	0.00862	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Carbon tetrachloride	ND		0.112	0.0233	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,1,1-Trichloroethane	ND		0.112	0.0194	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
2-Butanone	ND		1.12	0.123	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Hexane	ND		0.112	0.00907	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,1-Dichloropropene	ND		0.112	0.0195	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Benzene	ND		0.0168	0.0109	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2-Dichloroethane (EDC)	ND		0.112	0.00548	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Trichloroethene	ND		0.0280	0.0143	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Dibromomethane	ND		0.112	0.0102	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2-Dichloropropane	ND		0.112	0.00672	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Bromodichloromethane	ND		0.112	0.00783	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
cis-1,3-Dichloropropene	ND		0.112	0.00694	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Toluene	ND		0.112	0.0149	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
4-Methyl-2-pentanone	ND		1.12	0.0228	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
trans-1,3-Dichloropropene	ND		0.112	0.00739	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Tetrachloroethene	ND		0.0448	0.0197	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,1,2-Trichloroethane	ND		0.112	0.00694	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Dibromochloromethane	ND		0.112	0.00672	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,3-Dichloropropane	ND		0.112	0.00828	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2-Dibromoethane	ND		0.0112	0.00649	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
2-Hexanone	ND		1.12	0.0520	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Ethylbenzene	ND		0.112	0.0181	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Chlorobenzene	ND		0.112	0.00851	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,1,1,2-Tetrachloroethane	ND		0.112	0.0114	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
m,p-Xylene	ND		0.448	0.0190	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
o-Xylene	ND		0.224	0.0147	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Styrene	ND		0.112	0.0104	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Bromoform	ND		0.112	0.0140	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Isopropylbenzene	ND		0.112	0.0213	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
n-Propylbenzene	ND		0.112	0.0232	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,1,2,2-Tetrachloroethane	ND		0.112	0.00839	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Bromobenzene	ND		0.112	0.0105	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,3,5-Trimethylbenzene	ND		0.112	0.0208	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
2-Chlorotoluene	ND		0.112	0.0182	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2,3-Trichloropropane	ND		0.112	0.00940	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
4-Chlorotoluene	ND		0.112	0.0160	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
tert-Butylbenzene	ND		0.112	0.0242	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2,4-Trimethylbenzene	ND		0.112	0.0162	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
sec-Butylbenzene	ND		0.112	0.0263	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
p-Isopropyltoluene	ND		0.112	0.0267	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,3-Dichlorobenzene	ND		0.112	0.0141	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,4-Dichlorobenzene	ND		0.112	0.0119	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00

Client Sample ID: Eastside
Date Collected: 07/31/14 11:15
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-03
Matrix: Soil
Percent Solids: 94

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.112	0.0308	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2-Dichlorobenzene	ND		0.112	0.00851	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2-Dibromo-3-chloropropane	ND		0.560	0.0318	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Hexachlorobutadiene	ND		0.112	0.0638	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2,4-Trichlorobenzene	ND		0.112	0.0223	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
Naphthalene	ND		0.224	0.0152	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00
1,2,3-Trichlorobenzene	ND		0.112	0.0397	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:27	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*80 - 120*	*08/06/14 07:41*	*08/06/14 11:27*	*1.00*
1,2-dichloroethane-d4	*102*		*74.7 - 120*	*08/06/14 07:41*	*08/06/14 11:27*	*1.00*
Toluene-d8	*100*		*78.5 - 125*	*08/06/14 07:41*	*08/06/14 11:27*	*1.00*
4-bromofluorobenzene	*98.0*		*69.8 - 140*	*08/06/14 07:41*	*08/06/14 11:27*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Acenaphthylene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Benzo[a]anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Benzo[b]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Benzo[k]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Benzo[g,h,i]perylene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Benzo[a]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Bis(2-chloroethoxy)methane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Bis(2-chloroethyl)ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Bis(2-ethylhexyl) phthalate	ND		0.35	0.048	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
4-Bromophenyl phenyl ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Butyl benzyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Carbazole	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
4-Chloroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
4-Chloro-3-methylphenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2-Chloronaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2-Chlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
4-Chlorophenyl phenyl ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Chrysene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Dibenz(a,h)anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Dibenzofuran	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Di-n-butyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
1,2-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
1,3-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
1,4-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
3,3'-Dichlorobenzidine	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2,4-Dichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Diethyl phthalate	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2,4-Dimethylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Dimethyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
4,6-Dinitro-2-methylphenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2,4-Dinitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2,4-Dinitrotoluene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1

Client Sample ID: Eastside
Date Collected: 07/31/14 11:15
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-03
Matrix: Soil
Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Di-n-octyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Fluorene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Hexachlorobenzene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Hexachlorobutadiene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Hexachlorocyclopentadiene	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Hexachloroethane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Indeno[1,2,3-cd]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Isophorone	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2-Methylnaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2-Methylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
3 & 4 Methylphenol	ND		0.70	0.070	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Naphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
3-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
4-Nitroaniline	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Nitrobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2-Nitrophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
4-Nitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
N-Nitrosodiphenylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
N-Nitrosodi-n-propylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
bis (2-chloroisopropyl) ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Pentachlorophenol	ND		0.70	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Phenanthrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Phenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Pyrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
1,2,4-Trichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2,4,5-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
2,4,6-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Aniline	ND		0.35	0.063	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
1,4-Dioxane	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Benzyl alcohol	ND		0.35	0.055	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1
Pyridine	ND		0.70	0.070	mg/Kg	☼	08/13/14 08:44	08/14/14 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*95*		*53 - 97*	*08/13/14 08:44*	*08/14/14 23:14*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*46 - 111*	*08/13/14 08:44*	*08/14/14 23:14*	*1*
Nitrobenzene-d5 (Surr)	*97*		*55 - 98*	*08/13/14 08:44*	*08/14/14 23:14*	*1*
Phenol-d5 (Surr)	*94*		*54 - 101*	*08/13/14 08:44*	*08/14/14 23:14*	*1*
Terphenyl-d14 (Surr)	*98*		*58 - 123*	*08/13/14 08:44*	*08/14/14 23:14*	*1*
2-Fluorobiphenyl (Surr)	*98*	*X*	*56 - 97*	*08/13/14 08:44*	*08/14/14 23:14*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.8	0.32	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
alpha-BHC	ND		2.1	0.20	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
delta-BHC	ND		1.8	0.26	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1

Client Sample ID: Eastside

Lab Sample ID: SXH0010-03

Date Collected: 07/31/14 11:15

Matrix: Soil

Date Received: 08/04/14 14:30

Percent Solids: 94.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		1.8	0.60	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
4,4'-DDD	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
4,4'-DDE	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
4,4'-DDT	ND		1.8	0.66	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Dieldrin	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Endosulfan I	ND		1.8	0.60	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Endosulfan II	ND		1.8	0.25	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Endrin	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Heptachlor	ND		2.1	0.22	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Methoxychlor	ND		3.5	0.76	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Toxaphene	ND		71	16	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1
Technical Chlordane	ND		18	3.9	ug/Kg	☼	08/13/14 09:30	08/13/14 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*29 - 150*	*08/13/14 09:30*	*08/13/14 19:26*	*1*
Tetrachloro-m-xylene	*87*		*41 - 125*	*08/13/14 09:30*	*08/13/14 19:26*	*1*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.36**		1.21		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:37	1.00
Chromium	**13.4**		0.484		mg/kg dry	☼	08/08/14 11:53	08/11/14 19:09	1.00
Copper	**17.9**		3.87		mg/kg dry	☼	08/08/14 11:53	08/11/14 19:09	1.00
Lead	**3.07**		1.21		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:37	1.00

Client Sample ID: Westside

Lab Sample ID: SXH0010-04

Date Collected: 07/31/14 11:20

Matrix: Soil

Date Received: 08/04/14 14:30

Percent Solids: 93.6

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.109	0.0102	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Chloromethane	ND		0.547	0.00580	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Vinyl chloride	ND		0.0656	0.00678	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Bromomethane	ND		0.547	0.0335	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Chloroethane	ND		0.109	0.0268	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Trichlorofluoromethane	ND		0.0328	0.00864	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,1-Dichloroethene	ND		0.109	0.0139	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Carbon disulfide	ND		0.109	0.0117	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Methylene chloride	ND		0.219	0.00569	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Acetone	**0.833**	**J**	3.28	0.0952	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
trans-1,2-Dichloroethene	ND		0.109	0.0113	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Methyl tert-butyl ether	ND		0.0547	0.00350	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,1-Dichloroethane	ND		0.109	0.0124	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
cis-1,2-Dichloroethene	ND		0.109	0.00623	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
2,2-Dichloropropane	ND		0.109	0.0186	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Westside
Date Collected: 07/31/14 11:20
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-04
Matrix: Soil
Percent Solids: 93.6

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.109	0.00427	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Chloroform	ND		0.109	0.00842	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Carbon tetrachloride	ND		0.109	0.0227	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,1,1-Trichloroethane	ND		0.109	0.0189	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
2-Butanone	ND		1.09	0.120	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Hexane	ND		0.109	0.00886	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,1-Dichloropropene	ND		0.109	0.0190	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Benzene	ND		0.0164	0.0106	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2-Dichloroethane (EDC)	ND		0.109	0.00536	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Trichloroethene	ND		0.0273	0.0140	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Dibromomethane	ND		0.109	0.00995	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2-Dichloropropane	ND		0.109	0.00656	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Bromodichloromethane	ND		0.109	0.00766	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
cis-1,3-Dichloropropene	ND		0.109	0.00678	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Toluene	ND		0.109	0.0145	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
4-Methyl-2-pentanone	ND		1.09	0.0223	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
trans-1,3-Dichloropropene	ND		0.109	0.00722	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Tetrachloroethene	ND		0.0437	0.0192	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,1,2-Trichloroethane	ND		0.109	0.00678	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Dibromochloromethane	**0.0131**	**J**	0.109	0.00656	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,3-Dichloropropane	ND		0.109	0.00809	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2-Dibromoethane	ND		0.0109	0.00634	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
2-Hexanone	ND		1.09	0.0509	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Ethylbenzene	ND		0.109	0.0177	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Chlorobenzene	ND		0.109	0.00831	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,1,1,2-Tetrachloroethane	ND		0.109	0.0112	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
m,p-Xylene	ND		0.437	0.0186	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
o-Xylene	ND		0.219	0.0143	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Styrene	ND		0.109	0.0102	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Bromoform	ND		0.109	0.0137	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Isopropylbenzene	**0.0219**	**J**	0.109	0.0208	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
n-Propylbenzene	ND		0.109	0.0226	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,1,2,2-Tetrachloroethane	ND		0.109	0.00820	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Bromobenzene	ND		0.109	0.0103	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,3,5-Trimethylbenzene	ND		0.109	0.0203	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
2-Chlorotoluene	ND		0.109	0.0178	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2,3-Trichloropropane	ND		0.109	0.00919	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
4-Chlorotoluene	ND		0.109	0.0156	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
tert-Butylbenzene	ND		0.109	0.0236	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2,4-Trimethylbenzene	ND		0.109	0.0159	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
sec-Butylbenzene	ND		0.109	0.0257	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
p-Isopropyltoluene	ND		0.109	0.0261	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,3-Dichlorobenzene	ND		0.109	0.0138	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,4-Dichlorobenzene	ND		0.109	0.0116	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
n-Butylbenzene	ND		0.109	0.0301	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2-Dichlorobenzene	ND		0.109	0.00831	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2-Dibromo-3-chloropropane	ND		0.547	0.0311	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
Hexachlorobutadiene	ND		0.109	0.0623	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2,4-Trichlorobenzene	ND		0.109	0.0218	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Westside
Date Collected: 07/31/14 11:20
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-04
Matrix: Soil
Percent Solids: 93.6

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.219	0.0149	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00
1,2,3-Trichlorobenzene	ND		0.109	0.0388	mg/kg dry	☼	08/06/14 07:41	08/06/14 11:50	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*98.2*		*80 - 120*	*08/06/14 07:41*	*08/06/14 11:50*	*1.00*
1,2-dichloroethane-d4	*102*		*74.7 - 120*	*08/06/14 07:41*	*08/06/14 11:50*	*1.00*
Toluene-d8	*102*		*78.5 - 125*	*08/06/14 07:41*	*08/06/14 11:50*	*1.00*
4-bromofluorobenzene	*97.9*		*69.8 - 140*	*08/06/14 07:41*	*08/06/14 11:50*	*1.00*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Acenaphthylene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Benzo[a]anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Benzo[b]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Benzo[k]fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Benzo[g,h,i]perylene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Benzo[a]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Bis(2-chloroethoxy)methane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Bis(2-chloroethyl)ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Bis(2-ethylhexyl) phthalate	ND		0.35	0.048	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
4-Bromophenyl phenyl ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Butyl benzyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Carbazole	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
4-Chloroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
4-Chloro-3-methylphenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2-Chloronaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2-Chlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
4-Chlorophenyl phenyl ether	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Chrysene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Dibenz(a,h)anthracene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Dibenzofuran	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Di-n-butyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
1,2-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
1,3-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
1,4-Dichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
3,3'-Dichlorobenzidine	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2,4-Dichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Diethyl phthalate	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2,4-Dimethylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Dimethyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
4,6-Dinitro-2-methylphenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2,4-Dinitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2,4-Dinitrotoluene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2,6-Dinitrotoluene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Di-n-octyl phthalate	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Fluoranthene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Fluorene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Hexachlorobenzene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1

Client Sample ID: Westside
Date Collected: 07/31/14 11:20
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-04
Matrix: Soil
Percent Solids: 94.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Hexachlorocyclopentadiene	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Hexachloroethane	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Indeno[1,2,3-cd]pyrene	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Isophorone	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2-Methylnaphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2-Methylphenol	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
3 & 4 Methylphenol	ND		0.70	0.070	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Naphthalene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
3-Nitroaniline	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
4-Nitroaniline	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Nitrobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2-Nitrophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
4-Nitrophenol	ND		1.7	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
N-Nitrosodiphenylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
N-Nitrosodi-n-propylamine	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
bis (2-chloroisopropyl) ether	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Pentachlorophenol	ND		0.70	0.35	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Phenanthrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Phenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Pyrene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
1,2,4-Trichlorobenzene	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2,4,5-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
2,4,6-Trichlorophenol	ND	*	0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Aniline	ND		0.35	0.063	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
1,4-Dioxane	ND		0.35	0.035	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Benzyl alcohol	ND		0.35	0.055	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1
Pyridine	ND		0.70	0.070	mg/Kg	☼	08/13/14 08:44	08/14/14 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*91*		*53 - 97*	*08/13/14 08:44*	*08/14/14 23:48*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*46 - 111*	*08/13/14 08:44*	*08/14/14 23:48*	*1*
Nitrobenzene-d5 (Surr)	*94*		*55 - 98*	*08/13/14 08:44*	*08/14/14 23:48*	*1*
Phenol-d5 (Surr)	*90*		*54 - 101*	*08/13/14 08:44*	*08/14/14 23:48*	*1*
Terphenyl-d14 (Surr)	*95*		*58 - 123*	*08/13/14 08:44*	*08/14/14 23:48*	*1*
2-Fluorobiphenyl (Surr)	*95*		*56 - 97*	*08/13/14 08:44*	*08/14/14 23:48*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.8	0.32	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
alpha-BHC	ND		2.1	0.19	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
delta-BHC	ND		1.8	0.25	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
gamma-BHC (Lindane)	ND		1.8	0.18	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
alpha-Chlordane	ND		1.8	0.60	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
gamma-Chlordane	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
4,4'-DDD	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
4,4'-DDE	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
4,4'-DDT	ND		1.8	0.66	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Westside
Date Collected: 07/31/14 11:20
Date Received: 08/04/14 14:30

Lab Sample ID: SXH0010-04
Matrix: Soil
Percent Solids: 94.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		1.8	0.23	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Endosulfan I	ND		1.8	0.60	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Endosulfan II	ND		1.8	0.25	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Endosulfan sulfate	ND		1.8	0.36	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Endrin	ND		1.8	0.17	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Endrin aldehyde	ND		1.8	0.41	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Heptachlor	ND		2.1	0.21	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Heptachlor epoxide	ND		1.8	0.45	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Methoxychlor	ND		3.5	0.76	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Toxaphene	ND		70	16	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1
Technical Chlordane	ND		18	3.9	ug/Kg	☼	08/13/14 09:30	08/13/14 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*29 - 150*	*08/13/14 09:30*	*08/13/14 19:46*	*1*
Tetrachloro-m-xylene	*99*		*41 - 125*	*08/13/14 09:30*	*08/13/14 19:46*	*1*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.92**		2.15		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:41	2.00
Chromium	**14.8**		0.862		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:41	2.00
Copper	**19.1**		6.89		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:41	2.00
Lead	**3.06**		2.15		mg/kg dry	☼	08/08/14 11:53	08/12/14 11:41	2.00

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14H0013-BLK1
Matrix: Soil
Analysis Batch: 14H0013

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14H0013_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100	0.00930	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Chloromethane	ND		0.500	0.00530	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Vinyl chloride	ND		0.0600	0.00620	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Bromomethane	ND		0.500	0.0306	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Chloroethane	ND		0.100	0.0245	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Trichlorofluoromethane	ND		0.0300	0.00790	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,1-Dichloroethene	ND		0.100	0.0127	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Carbon disulfide	ND		0.100	0.0107	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Methylene chloride	ND		0.200	0.00520	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Acetone	ND		3.00	0.0870	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
trans-1,2-Dichloroethene	ND		0.100	0.0103	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Methyl tert-butyl ether	ND		0.0500	0.00320	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,1-Dichloroethane	ND		0.100	0.0113	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
cis-1,2-Dichloroethene	ND		0.100	0.00570	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
2,2-Dichloropropane	ND		0.100	0.0170	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Bromochloromethane	ND		0.100	0.00390	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Chloroform	ND		0.100	0.00770	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Carbon tetrachloride	ND		0.100	0.0208	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,1,1-Trichloroethane	ND		0.100	0.0173	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
2-Butanone	ND		1.00	0.110	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Hexane	ND		0.100	0.00810	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,1-Dichloropropene	ND		0.100	0.0174	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Benzene	ND		0.0150	0.00970	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2-Dichloroethane (EDC)	ND		0.100	0.00490	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Trichloroethene	ND		0.0250	0.0128	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Dibromomethane	ND		0.100	0.00910	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2-Dichloropropane	ND		0.100	0.00600	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Bromodichloromethane	ND		0.100	0.00700	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
cis-1,3-Dichloropropene	ND		0.100	0.00620	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Toluene	ND		0.100	0.0133	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
4-Methyl-2-pentanone	ND		1.00	0.0204	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
trans-1,3-Dichloropropene	ND		0.100	0.00660	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Tetrachloroethene	ND		0.0400	0.0176	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,1,2-Trichloroethane	ND		0.100	0.00620	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Dibromochloromethane	ND		0.100	0.00600	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,3-Dichloropropane	ND		0.100	0.00740	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2-Dibromoethane	ND		0.0100	0.00580	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
2-Hexanone	ND		1.00	0.0465	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Ethylbenzene	ND		0.100	0.0162	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Chlorobenzene	ND		0.100	0.00760	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,1,1,2-Tetrachloroethane	ND		0.100	0.0102	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
m,p-Xylene	ND		0.400	0.0170	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
o-Xylene	ND		0.200	0.0131	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Styrene	ND		0.100	0.00930	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Bromoform	ND		0.100	0.0125	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Isopropylbenzene	ND		0.100	0.0190	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
n-Propylbenzene	ND		0.100	0.0207	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,1,2,2-Tetrachloroethane	ND		0.100	0.00750	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14H0013-BLK1
Matrix: Soil
Analysis Batch: 14H0013

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14H0013_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.100	0.00940	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,3,5-Trimethylbenzene	ND		0.100	0.0186	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
2-Chlorotoluene	ND		0.100	0.0163	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2,3-Trichloropropane	ND		0.100	0.00840	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
4-Chlorotoluene	ND		0.100	0.0143	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
tert-Butylbenzene	ND		0.100	0.0216	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2,4-Trimethylbenzene	ND		0.100	0.0145	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
sec-Butylbenzene	ND		0.100	0.0235	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
p-Isopropyltoluene	ND		0.100	0.0239	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,3-Dichlorobenzene	ND		0.100	0.0126	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,4-Dichlorobenzene	ND		0.100	0.0106	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
n-Butylbenzene	ND		0.100	0.0275	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2-Dichlorobenzene	ND		0.100	0.00760	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2-Dibromo-3-chloropropane	ND		0.500	0.0284	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Hexachlorobutadiene	ND		0.100	0.0570	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2,4-Trichlorobenzene	ND		0.100	0.0199	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
Naphthalene	ND		0.200	0.0136	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00
1,2,3-Trichlorobenzene	ND		0.100	0.0355	mg/kg wet		08/06/14 07:41	08/06/14 09:33	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*80 - 120*	*08/06/14 07:41*	*08/06/14 09:33*	*1.00*
1,2-dichloroethane-d4	*104*		*74.7 - 120*	*08/06/14 07:41*	*08/06/14 09:33*	*1.00*
Toluene-d8	*100*		*78.5 - 125*	*08/06/14 07:41*	*08/06/14 09:33*	*1.00*
4-bromofluorobenzene	*98.1*		*69.8 - 140*	*08/06/14 07:41*	*08/06/14 09:33*	*1.00*

Lab Sample ID: 14H0013-BS1
Matrix: Soil
Analysis Batch: 14H0013

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14H0013_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.447		mg/kg wet		89.4	60.5 - 130
Chloromethane	0.500	0.451	J	mg/kg wet		90.2	68.9 - 130
Vinyl chloride	0.500	0.466		mg/kg wet		93.3	74 - 142
Bromomethane	0.500	0.643		mg/kg wet		129	70.5 - 146
Chloroethane	0.500	0.460		mg/kg wet		91.9	60 - 140
Trichlorofluoromethane	0.500	0.438		mg/kg wet		87.6	70.5 - 139
1,1-Dichloroethene	0.500	0.470		mg/kg wet		94.0	72.9 - 135
Carbon disulfide	0.500	0.478		mg/kg wet		95.7	66.8 - 146
Methylene chloride	0.500	0.429		mg/kg wet		85.8	60 - 140
Acetone	2.50	1.80	J	mg/kg wet		72.1	39.2 - 145
trans-1,2-Dichloroethene	0.500	0.484		mg/kg wet		96.9	60 - 140
Methyl tert-butyl ether	0.500	0.557		mg/kg wet		111	60 - 140
1,1-Dichloroethane	0.500	0.502		mg/kg wet		100	80 - 131
cis-1,2-Dichloroethene	0.500	0.478		mg/kg wet		95.7	80 - 126
2,2-Dichloropropane	0.500	0.472		mg/kg wet		94.4	71.5 - 132
Bromochloromethane	0.500	0.490		mg/kg wet		98.0	69.1 - 139
Chloroform	0.500	0.500		mg/kg wet		99.9	80 - 130
Carbon tetrachloride	0.500	0.498		mg/kg wet		99.6	73.6 - 148

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14H0013-BS1
Matrix: Soil
Analysis Batch: 14H0013

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14H0013_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.500		mg/kg wet		99.9	74.3 - 138
2-Butanone	2.50	2.34		mg/kg wet		93.5	56.1 - 124
Hexane	0.500	0.516		mg/kg wet		103	77 - 130
1,1-Dichloropropene	0.500	0.499		mg/kg wet		99.8	78.3 - 132
Benzene	0.500	0.492		mg/kg wet		98.3	75.8 - 123
1,2-Dichloroethane (EDC)	0.500	0.528		mg/kg wet		106	71.1 - 142
Trichloroethene	0.500	0.479		mg/kg wet		95.8	78.5 - 134
Dibromomethane	0.500	0.522		mg/kg wet		104	80 - 129
1,2-Dichloropropane	0.500	0.480		mg/kg wet		96.0	50.8 - 155
Bromodichloromethane	0.500	0.496		mg/kg wet		99.3	80 - 128
cis-1,3-Dichloropropene	0.500	0.469		mg/kg wet		93.8	80 - 126
Toluene	0.500	0.487		mg/kg wet		97.4	76.6 - 125
4-Methyl-2-pentanone	2.50	3.05		mg/kg wet		122	66.4 - 131
trans-1,3-Dichloropropene	0.500	0.550		mg/kg wet		110	79 - 124
Tetrachloroethene	0.500	0.531		mg/kg wet		106	80 - 127
1,1,2-Trichloroethane	0.500	0.562		mg/kg wet		112	78.4 - 125
Dibromochloromethane	0.500	0.521		mg/kg wet		104	78.4 - 127
1,3-Dichloropropane	0.500	0.538		mg/kg wet		108	80 - 125
1,2-Dibromoethane	0.500	0.564		mg/kg wet		113	77.1 - 129
2-Hexanone	2.50	2.51		mg/kg wet		100	64.6 - 127
Ethylbenzene	0.500	0.483		mg/kg wet		96.6	77.3 - 121
Chlorobenzene	0.500	0.530		mg/kg wet		106	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.544		mg/kg wet		109	80 - 120
m,p-Xylene	0.500	0.480		mg/kg wet		95.9	77.7 - 124
o-Xylene	0.500	0.519		mg/kg wet		104	76.7 - 129
Styrene	0.500	0.511		mg/kg wet		102	80 - 128
Bromoform	0.500	0.566		mg/kg wet		113	76 - 135
Isopropylbenzene	0.500	0.505		mg/kg wet		101	78.4 - 131
n-Propylbenzene	0.500	0.476		mg/kg wet		95.1	80 - 120
1,1,2,2-Tetrachloroethane	0.500	0.567		mg/kg wet		113	60.3 - 137
Bromobenzene	0.500	0.464		mg/kg wet		92.8	60 - 140
1,3,5-Trimethylbenzene	0.500	0.482		mg/kg wet		96.3	80 - 121
2-Chlorotoluene	0.500	0.498		mg/kg wet		99.6	80 - 123
1,2,3-Trichloropropane	0.500	0.555		mg/kg wet		111	59.9 - 131
4-Chlorotoluene	0.500	0.477		mg/kg wet		95.4	80 - 124
tert-Butylbenzene	0.500	0.486		mg/kg wet		97.1	78.8 - 130
1,2,4-Trimethylbenzene	0.500	0.492		mg/kg wet		98.4	80 - 122
sec-Butylbenzene	0.500	0.484		mg/kg wet		96.7	80 - 120
p-Isopropyltoluene	0.500	0.492		mg/kg wet		98.3	67.2 - 147
1,3-Dichlorobenzene	0.500	0.503		mg/kg wet		101	80 - 122
1,4-Dichlorobenzene	0.500	0.504		mg/kg wet		101	80 - 125
n-Butylbenzene	0.500	0.498		mg/kg wet		99.5	80 - 120
1,2-Dichlorobenzene	0.500	0.536		mg/kg wet		107	80 - 124
1,2-Dibromo-3-chloropropane	0.500	0.544		mg/kg wet		109	60 - 140
Hexachlorobutadiene	0.500	0.511		mg/kg wet		102	71.8 - 138
1,2,4-Trichlorobenzene	0.500	0.480		mg/kg wet		96.1	75.3 - 126
Naphthalene	0.500	0.495		mg/kg wet		99.0	55.1 - 142
1,2,3-Trichlorobenzene	0.500	0.480		mg/kg wet		96.0	69.6 - 127

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14H0013-BS1
Matrix: Soil
Analysis Batch: 14H0013

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14H0013_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	*101*		*80 - 120*
1,2-dichloroethane-d4	*108*		*74.7 - 120*
Toluene-d8	*99.7*		*78.5 - 125*
4-bromofluorobenzene	*95.1*		*69.8 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-137750/1-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Acenaphthylene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Anthracene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Benzo[a]anthracene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Benzo[b]fluoranthene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Benzo[k]fluoranthene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Benzo[g,h,i]perylene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Benzo[a]pyrene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Bis(2-chloroethoxy)methane	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Bis(2-chloroethyl)ether	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.045	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
4-Bromophenyl phenyl ether	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Butyl benzyl phthalate	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Carbazole	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
4-Chloroaniline	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
4-Chloro-3-methylphenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2-Chloronaphthalene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2-Chlorophenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
4-Chlorophenyl phenyl ether	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Chrysene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Dibenz(a,h)anthracene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Dibenzofuran	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Di-n-butyl phthalate	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
1,2-Dichlorobenzene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
1,3-Dichlorobenzene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
1,4-Dichlorobenzene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
3,3'-Dichlorobenzidine	ND		1.6	0.33	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2,4-Dichlorophenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Diethyl phthalate	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2,4-Dimethylphenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Dimethyl phthalate	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
4,6-Dinitro-2-methylphenol	ND		1.6	0.33	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2,4-Dinitrophenol	ND		1.6	0.33	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2,4-Dinitrotoluene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2,6-Dinitrotoluene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Di-n-octyl phthalate	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-137750/1-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Fluorene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Hexachlorobenzene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Hexachlorobutadiene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Hexachlorocyclopentadiene	ND		1.6	0.33	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Hexachloroethane	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Isophorone	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2-Methylnaphthalene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2-Methylphenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
3 & 4 Methylphenol	ND		0.66	0.067	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Naphthalene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2-Nitroaniline	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
3-Nitroaniline	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
4-Nitroaniline	ND		1.6	0.33	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Nitrobenzene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2-Nitrophenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
4-Nitrophenol	ND		1.6	0.33	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
N-Nitrosodiphenylamine	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
N-Nitrosodi-n-propylamine	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
bis (2-chloroisopropyl) ether	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Pentachlorophenol	ND		0.66	0.33	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Phenanthrene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Phenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Pyrene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
1,2,4-Trichlorobenzene	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2,4,5-Trichlorophenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
2,4,6-Trichlorophenol	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Aniline	ND		0.33	0.060	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
1,4-Dioxane	ND		0.33	0.033	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Benzyl alcohol	ND		0.33	0.052	mg/Kg		08/13/14 08:44	08/14/14 17:38	1
Pyridine	ND		0.66	0.067	mg/Kg		08/13/14 08:44	08/14/14 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*99*	*X*	*53 - 97*	*08/13/14 08:44*	*08/14/14 17:38*	*1*
2,4,6-Tribromophenol (Surr)	*99*		*46 - 111*	*08/13/14 08:44*	*08/14/14 17:38*	*1*
Nitrobenzene-d5 (Surr)	*101*	*X*	*55 - 98*	*08/13/14 08:44*	*08/14/14 17:38*	*1*
Phenol-d5 (Surr)	*99*		*54 - 101*	*08/13/14 08:44*	*08/14/14 17:38*	*1*
Terphenyl-d14 (Surr)	*105*		*58 - 123*	*08/13/14 08:44*	*08/14/14 17:38*	*1*
2-Fluorobiphenyl (Surr)	*103*	*X*	*56 - 97*	*08/13/14 08:44*	*08/14/14 17:38*	*1*

Lab Sample ID: LCS 160-137750/2-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6.67	6.63	*	mg/Kg		99	63 - 95
Acenaphthylene	6.67	6.89	*	mg/Kg		103	62 - 98

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-137750/2-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	6.68	6.48		mg/Kg		97	63 - 100
Benzo[a]anthracene	6.67	6.72		mg/Kg		101	74 - 114
Benzo[b]fluoranthene	6.67	7.13		mg/Kg		107	68 - 109
Benzo[k]fluoranthene	6.68	6.87		mg/Kg		103	69 - 111
Benzo[g,h,i]perylene	6.67	7.30		mg/Kg		109	67 - 121
Benzo[a]pyrene	6.67	6.87		mg/Kg		103	63 - 103
Bis(2-chloroethoxy)methane	6.68	6.45	*	mg/Kg		96	62 - 91
Bis(2-chloroethyl)ether	6.67	6.37	*	mg/Kg		96	58 - 92
Bis(2-ethylhexyl) phthalate	6.67	7.29		mg/Kg		109	63 - 112
4-Bromophenyl phenyl ether	6.67	6.82		mg/Kg		102	63 - 106
Butyl benzyl phthalate	6.67	7.23		mg/Kg		108	59 - 111
Carbazole	6.69	6.45		mg/Kg		96	64 - 101
4-Chloroaniline	6.67	4.41		mg/Kg		66	43 - 70
4-Chloro-3-methylphenol	6.67	6.45	*	mg/Kg		97	58 - 95
2-Chloronaphthalene	6.67	6.78	*	mg/Kg		102	61 - 94
2-Chlorophenol	6.67	6.31	*	mg/Kg		95	60 - 91
4-Chlorophenyl phenyl ether	6.68	6.50	*	mg/Kg		97	61 - 96
Chrysene	6.67	6.53		mg/Kg		98	66 - 100
Dibenz(a,h)anthracene	6.67	7.52		mg/Kg		113	67 - 114
Dibenzofuran	6.67	6.49	*	mg/Kg		97	58 - 95
Di-n-butyl phthalate	6.67	6.71		mg/Kg		101	62 - 104
1,2-Dichlorobenzene	6.67	6.41	*	mg/Kg		96	59 - 90
1,3-Dichlorobenzene	6.67	6.27	*	mg/Kg		94	57 - 88
1,4-Dichlorobenzene	6.67	6.33	*	mg/Kg		95	58 - 88
3,3'-Dichlorobenzidine	6.67	5.70		mg/Kg		85	50 - 90
2,4-Dichlorophenol	6.67	6.41	*	mg/Kg		96	59 - 90
Diethyl phthalate	6.67	6.55	*	mg/Kg		98	62 - 97
2,4-Dimethylphenol	6.67	6.29		mg/Kg		94	54 - 108
Dimethyl phthalate	6.67	6.56		mg/Kg		98	63 - 98
4,6-Dinitro-2-methylphenol	6.67	6.27		mg/Kg		94	31 - 112
2,4-Dinitrophenol	6.67	4.96		mg/Kg		74	20 - 100
2,4-Dinitrotoluene	6.68	6.59		mg/Kg		99	61 - 103
2,6-Dinitrotoluene	6.67	6.75	*	mg/Kg		101	63 - 99
Di-n-octyl phthalate	6.67	7.32		mg/Kg		110	61 - 111
Fluoranthene	6.67	6.45		mg/Kg		97	63 - 101
Fluorene	6.67	6.84	*	mg/Kg		103	62 - 96
Hexachlorobenzene	6.67	6.70		mg/Kg		100	62 - 106
Hexachlorobutadiene	6.67	6.75	*	mg/Kg		101	57 - 94
Hexachlorocyclopentadiene	6.67	7.03		mg/Kg		105	40 - 115
Hexachloroethane	6.67	6.53	*	mg/Kg		98	59 - 93
Indeno[1,2,3-cd]pyrene	6.67	7.39		mg/Kg		111	65 - 120
Isophorone	6.67	5.27		mg/Kg		79	57 - 86
2-Methylnaphthalene	6.65	6.40	*	mg/Kg		96	59 - 90
2-Methylphenol	6.68	6.20		mg/Kg		93	58 - 96
3 & 4 Methylphenol	6.67	6.86		mg/Kg		103	47 - 113
Naphthalene	6.67	6.53	*	mg/Kg		98	60 - 90
2-Nitroaniline	6.69	6.84		mg/Kg		102	58 - 105
3-Nitroaniline	6.67	5.95		mg/Kg		89	55 - 91

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-137750/2-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137750

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4-Nitroaniline			6.69	6.28		mg/Kg		94	57 - 94		
Nitrobenzene			6.67	6.64	*	mg/Kg		100	58 - 95		
2-Nitrophenol			6.68	6.65	*	mg/Kg		100	60 - 93		
4-Nitrophenol			6.68	6.67		mg/Kg		100	54 - 101		
N-Nitrosodiphenylamine			6.67	7.77		mg/Kg		117	78 - 133		
N-Nitrosodi-n-propylamine			6.67	6.34		mg/Kg		95	60 - 104		
bis (2-chloroisopropyl) ether			6.67	6.41		mg/Kg		96	47 - 105		
Pentachlorophenol			6.67	6.55		mg/Kg		98	50 - 100		
Phenanthrene			6.68	6.74	*	mg/Kg		101	63 - 99		
Phenol			6.67	6.06	*	mg/Kg		91	53 - 89		
Pyrene			6.67	7.09	*	mg/Kg		106	64 - 102		
1,2,4-Trichlorobenzene			6.71	6.55	*	mg/Kg		98	60 - 91		
2,4,5-Trichlorophenol			6.67	6.74	*	mg/Kg		101	59 - 94		
2,4,6-Trichlorophenol			6.67	6.73	*	mg/Kg		101	59 - 95		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*97*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*102*		*46 - 111*
Nitrobenzene-d5 (Surr)	*101*	*X*	*55 - 98*
Phenol-d5 (Surr)	*96*		*54 - 101*
Terphenyl-d14 (Surr)	*102*		*58 - 123*
2-Fluorobiphenyl (Surr)	*103*	*X*	*56 - 97*

Lab Sample ID: LCSD 160-137750/3-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			6.67	6.42	*	mg/Kg		96	63 - 95	3	20
Acenaphthylene			6.67	6.65	*	mg/Kg		100	62 - 98	4	20
Anthracene			6.68	6.32		mg/Kg		95	63 - 100	3	20
Benzo[a]anthracene			6.67	6.49		mg/Kg		97	74 - 114	4	20
Benzo[b]fluoranthene			6.67	6.91		mg/Kg		104	68 - 109	3	20
Benzo[k]fluoranthene			6.68	6.59		mg/Kg		99	69 - 111	4	20
Benzo[g,h,i]perylene			6.67	7.03		mg/Kg		105	67 - 121	4	20
Benzo[a]pyrene			6.67	6.64		mg/Kg		100	63 - 103	3	20
Bis(2-chloroethoxy)methane			6.68	6.30	*	mg/Kg		94	62 - 91	2	20
Bis(2-chloroethyl)ether			6.67	6.23	*	mg/Kg		93	58 - 92	2	20
Bis(2-ethylhexyl) phthalate			6.67	7.06		mg/Kg		106	63 - 112	3	20
4-Bromophenyl phenyl ether			6.67	6.67		mg/Kg		100	63 - 106	2	20
Butyl benzyl phthalate			6.67	7.04		mg/Kg		105	59 - 111	3	20
Carbazole			6.69	6.31		mg/Kg		94	64 - 101	2	20
4-Chloroaniline			6.67	3.80		mg/Kg		57	43 - 70	15	20
4-Chloro-3-methylphenol			6.67	6.20		mg/Kg		93	58 - 95	4	20
2-Chloronaphthalene			6.67	6.56	*	mg/Kg		98	61 - 94	3	20
2-Chlorophenol			6.67	6.15	*	mg/Kg		92	60 - 91	2	20
4-Chlorophenyl phenyl ether			6.68	6.27		mg/Kg		94	61 - 96	4	20
Chrysene			6.67	6.32		mg/Kg		95	66 - 100	3	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-137750/3-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz(a,h)anthracene			6.67	7.28		mg/Kg		109	67 - 114	3	20
Dibenzofuran			6.67	6.26		mg/Kg		94	58 - 95	4	20
Di-n-butyl phthalate			6.67	6.61		mg/Kg		99	62 - 104	1	20
1,2-Dichlorobenzene			6.67	6.20	*	mg/Kg		93	59 - 90	3	20
1,3-Dichlorobenzene			6.67	6.13	*	mg/Kg		92	57 - 88	2	20
1,4-Dichlorobenzene			6.67	6.17	*	mg/Kg		92	58 - 88	3	20
3,3'-Dichlorobenzidine			6.67	5.23		mg/Kg		78	50 - 90	9	20
2,4-Dichlorophenol			6.67	6.21	*	mg/Kg		93	59 - 90	3	20
Diethyl phthalate			6.67	6.26		mg/Kg		94	62 - 97	5	20
2,4-Dimethylphenol			6.67	6.09		mg/Kg		91	54 - 108	3	20
Dimethyl phthalate			6.67	6.36		mg/Kg		95	63 - 98	3	20
4,6-Dinitro-2-methylphenol			6.67	6.59		mg/Kg		99	31 - 112	5	20
2,4-Dinitrophenol			6.67	5.61		mg/Kg		84	20 - 100	12	20
2,4-Dinitrotoluene			6.68	6.36		mg/Kg		95	61 - 103	3	20
2,6-Dinitrotoluene			6.67	6.50		mg/Kg		97	63 - 99	4	20
Di-n-octyl phthalate			6.67	7.09		mg/Kg		106	61 - 111	3	20
Fluoranthene			6.67	6.37		mg/Kg		96	63 - 101	1	20
Fluorene			6.67	6.61	*	mg/Kg		99	62 - 96	3	20
Hexachlorobenzene			6.67	6.57		mg/Kg		99	62 - 106	2	20
Hexachlorobutadiene			6.67	6.52	*	mg/Kg		98	57 - 94	3	20
Hexachlorocyclopentadiene			6.67	6.94		mg/Kg		104	40 - 115	1	20
Hexachloroethane			6.67	6.40	*	mg/Kg		96	59 - 93	2	20
Indeno[1,2,3-cd]pyrene			6.67	7.19		mg/Kg		108	65 - 120	3	20
Isophorone			6.67	5.16		mg/Kg		77	57 - 86	2	20
2-Methylnaphthalene			6.65	6.19	*	mg/Kg		93	59 - 90	3	20
2-Methylphenol			6.68	5.98		mg/Kg		90	58 - 96	4	20
3 & 4 Methylphenol			6.67	6.63		mg/Kg		99	47 - 113	3	20
Naphthalene			6.67	6.40	*	mg/Kg		96	60 - 90	2	20
2-Nitroaniline			6.69	6.62		mg/Kg		99	58 - 105	3	20
3-Nitroaniline			6.67	5.36		mg/Kg		80	55 - 91	10	20
4-Nitroaniline			6.69	6.01		mg/Kg		90	57 - 94	4	20
Nitrobenzene			6.67	6.53	*	mg/Kg		98	58 - 95	2	20
2-Nitrophenol			6.68	6.49	*	mg/Kg		97	60 - 93	2	20
4-Nitrophenol			6.68	6.36		mg/Kg		95	54 - 101	5	20
N-Nitrosodiphenylamine			6.67	7.65		mg/Kg		115	78 - 133	2	20
N-Nitrosodi-n-propylamine			6.67	6.14		mg/Kg		92	60 - 104	3	20
bis (2-chloroisopropyl) ether			6.67	6.23		mg/Kg		93	47 - 105	3	20
Pentachlorophenol			6.67	6.50		mg/Kg		97	50 - 100	1	20
Phenanthrene			6.68	6.65		mg/Kg		99	63 - 99	1	20
Phenol			6.67	5.90		mg/Kg		88	53 - 89	3	20
Pyrene			6.67	6.83		mg/Kg		102	64 - 102	4	20
1,2,4-Trichlorobenzene			6.71	6.43	*	mg/Kg		96	60 - 91	2	20
2,4,5-Trichlorophenol			6.67	6.52	*	mg/Kg		98	59 - 94	3	20
2,4,6-Trichlorophenol			6.67	6.44	*	mg/Kg		97	59 - 95	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*95*		*53 - 97*
2,4,6-Tribromophenol (Surr)	*99*		*46 - 111*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-137750/3-A
Matrix: Solid
Analysis Batch: 138228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137750

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	99	X	55 - 98
Phenol-d5 (Surr)	93		54 - 101
Terphenyl-d14 (Surr)	100		58 - 123
2-Fluorobiphenyl (Surr)	100	X	56 - 97

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 160-137746/1-A
Matrix: Solid
Analysis Batch: 137792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.7	0.31	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
alpha-BHC	ND		2.0	0.19	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
beta-BHC	ND		1.7	0.30	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
delta-BHC	ND		1.7	0.24	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
gamma-BHC (Lindane)	ND		1.7	0.17	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
alpha-Chlordane	ND		1.7	0.57	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
gamma-Chlordane	ND		1.7	0.16	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
4,4'-DDD	ND		1.7	0.22	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
4,4'-DDE	ND		1.7	0.39	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
4,4'-DDT	ND		1.7	0.63	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Dieldrin	ND		1.7	0.22	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Endosulfan I	ND		1.7	0.57	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Endosulfan II	ND		1.7	0.24	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Endosulfan sulfate	ND		1.7	0.34	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Endrin	ND		1.7	0.16	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Endrin aldehyde	ND		1.7	0.39	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Endrin ketone	ND		1.7	0.42	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Heptachlor	ND		2.0	0.20	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Methoxychlor	ND		3.3	0.72	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Toxaphene	ND		67	15	ug/Kg		08/13/14 09:30	08/13/14 17:44	1
Technical Chlordane	ND		17	3.7	ug/Kg		08/13/14 09:30	08/13/14 17:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	110		29 - 150	08/13/14 09:30	08/13/14 17:44	1
Tetrachloro-m-xylene	91		41 - 125	08/13/14 09:30	08/13/14 17:44	1

Lab Sample ID: LCS 160-137746/2-A
Matrix: Solid
Analysis Batch: 137792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	17.1		ug/Kg		102	51 - 116
alpha-BHC	16.7	17.0		ug/Kg		102	50 - 117
beta-BHC	16.7	15.4		ug/Kg		92	50 - 113

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 160-137746/2-A
Matrix: Solid
Analysis Batch: 137792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137746

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
delta-BHC			16.7	16.6		ug/Kg		100	53 - 121		
gamma-BHC (Lindane)			16.7	15.7		ug/Kg		94	50 - 114		
alpha-Chlordane			16.7	16.6		ug/Kg		100	55 - 119		
gamma-Chlordane			16.7	16.5		ug/Kg		99	52 - 120		
4,4'-DDD			16.7	17.7		ug/Kg		106	53 - 134		
4,4'-DDE			16.7	17.0		ug/Kg		102	55 - 123		
4,4'-DDT			16.7	17.8		ug/Kg		107	57 - 138		
Dieldrin			16.7	16.5		ug/Kg		99	54 - 124		
Endosulfan I			16.7	10.9		ug/Kg		65	38 - 99		
Endosulfan II			16.7	12.2		ug/Kg		73	42 - 105		
Endosulfan sulfate			16.7	16.8		ug/Kg		101	54 - 126		
Endrin			16.7	15.3		ug/Kg		92	55 - 124		
Endrin aldehyde			16.7	16.7		ug/Kg		100	50 - 116		
Endrin ketone			16.7	17.7		ug/Kg		106	53 - 129		
Heptachlor			16.7	15.8		ug/Kg		95	40 - 140		
Heptachlor epoxide			16.7	16.4		ug/Kg		99	53 - 118		
Methoxychlor			16.7	17.5		ug/Kg		105	54 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*111*		*29 - 150*
Tetrachloro-m-xylene	*102*		*41 - 125*

Lab Sample ID: LCSD 160-137746/3-A
Matrix: Solid
Analysis Batch: 137792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137746

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	16.6		ug/Kg		100	51 - 116	3	30
alpha-BHC			16.7	16.3		ug/Kg		98	50 - 117	4	30
beta-BHC			16.7	14.8		ug/Kg		89	50 - 113	4	30
delta-BHC			16.7	15.9		ug/Kg		96	53 - 121	4	30
gamma-BHC (Lindane)			16.7	14.9		ug/Kg		89	50 - 114	5	30
alpha-Chlordane			16.7	16.2		ug/Kg		97	55 - 119	3	30
gamma-Chlordane			16.7	16.0		ug/Kg		96	52 - 120	3	30
4,4'-DDD			16.7	16.7		ug/Kg		100	53 - 134	6	30
4,4'-DDE			16.7	16.4		ug/Kg		98	55 - 123	3	30
4,4'-DDT			16.7	17.6		ug/Kg		105	57 - 138	1	30
Dieldrin			16.7	16.1		ug/Kg		97	54 - 124	2	30
Endosulfan I			16.7	10.5		ug/Kg		63	38 - 99	4	30
Endosulfan II			16.7	11.9		ug/Kg		72	42 - 105	2	30
Endosulfan sulfate			16.7	16.4		ug/Kg		98	54 - 126	3	30
Endrin			16.7	15.1		ug/Kg		91	55 - 124	1	30
Endrin aldehyde			16.7	16.3		ug/Kg		98	50 - 116	2	30
Endrin ketone			16.7	17.3		ug/Kg		103	53 - 129	2	30
Heptachlor			16.7	15.3		ug/Kg		92	40 - 140	3	30
Heptachlor epoxide			16.7	15.9		ug/Kg		95	53 - 118	3	30
Methoxychlor			16.7	17.2		ug/Kg		103	54 - 140	1	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 160-137746/3-A
Matrix: Solid
Analysis Batch: 137792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 137746

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*113*		*29 - 150*
Tetrachloro-m-xylene	*93*		*41 - 125*

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Lab Sample ID: 14H0029-BLK1
Matrix: Soil
Analysis Batch: 14H0029

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14H0029_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.25		mg/kg wet		08/08/14 11:53	08/11/14 18:43	1.00
Chromium	ND		0.500		mg/kg wet		08/08/14 11:53	08/11/14 18:43	1.00
Copper	ND		4.00		mg/kg wet		08/08/14 11:53	08/11/14 18:43	1.00
Lead	ND		1.25		mg/kg wet		08/08/14 11:53	08/11/14 18:43	1.00

Lab Sample ID: 14H0029-BS1
Matrix: Soil
Analysis Batch: 14H0029

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14H0029_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	52.6		mg/kg wet		105	80 - 120
Chromium	50.0	53.3		mg/kg wet		107	80 - 120
Copper	50.0	53.8		mg/kg wet		108	80 - 120
Lead	50.0	51.5		mg/kg wet		103	80 - 120

Lab Sample ID: 14H0029-MS1
Matrix: Soil
Analysis Batch: 14H0029

Client Sample ID: Northside
Prep Type: Total
Prep Batch: 14H0029_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.19		51.7	56.1		mg/kg dry	☼	100	75 - 125
Chromium	15.1		51.7	68.6		mg/kg dry	☼	104	75 - 125
Copper	19.1		51.7	74.9		mg/kg dry	☼	108	75 - 125
Lead	3.15		51.7	54.7		mg/kg dry	☼	99.6	75 - 125

Lab Sample ID: 14H0029-MSD1
Matrix: Soil
Analysis Batch: 14H0029

Client Sample ID: Northside
Prep Type: Total
Prep Batch: 14H0029_P

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.19		55.5	62.5		mg/kg dry	☼	105	75 - 125	10.8	20
Chromium	15.1		55.5	75.0		mg/kg dry	☼	108	75 - 125	8.84	20
Copper	19.1		55.5	83.5		mg/kg dry	☼	116	75 - 125	10.9	20
Lead	3.15		55.5	60.0		mg/kg dry	☼	102	75 - 125	9.25	20

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B (Continued)

Lab Sample ID: 14H0029-DUP1
Matrix: Soil
Analysis Batch: 14H0029

Client Sample ID: Northside
Prep Type: Total
Prep Batch: 14H0029_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Arsenic	4.19			4.95		mg/kg dry	☼			16.5	20
Chromium	15.1			14.5		mg/kg dry	☼			3.73	20
Copper	19.1			20.8		mg/kg dry	☼			8.47	20
Lead	3.15			3.53		mg/kg dry	☼			11.3	20

Client Sample ID: Northside

Lab Sample ID: SXH0010-01

Date Collected: 07/31/14 11:05

Matrix: Soil

Date Received: 08/04/14 14:30

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.980	14H0013_P	08/06/14 07:41	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0013	08/06/14 10:42	CBW	TAL SPK
Total/NA	Prep	3550C			137750	08/13/14 08:44	KKA	TAL SL
Total/NA	Analysis	8270D		1	138228	08/14/14 22:07	JSW	TAL SL
Total/NA	Prep	3550C			137746	08/13/14 09:30	KKA	TAL SL
Total/NA	Analysis	8081B		1	137792	08/13/14 18:45	CEH	TAL SL
Total	Prep	EPA 3050B		0.870	14H0029_P	08/08/14 11:53	MS	TAL SPK
Total	Analysis	EPA 6010C		2.00	14H0029	08/12/14 11:04	ICP	TAL SPK
Total/NA	Analysis	Moisture		1	136026	08/06/14 08:33	SDB	TAL SL

Client Sample ID: Southside

Lab Sample ID: SXH0010-02

Date Collected: 07/31/14 11:10

Matrix: Soil

Date Received: 08/04/14 14:30

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.01	14H0013_P	08/06/14 07:41	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0013	08/06/14 11:04	CBW	TAL SPK
Total/NA	Prep	3550C			137750	08/13/14 08:44	KKA	TAL SL
Total/NA	Analysis	8270D		1	138228	08/14/14 22:41	JSW	TAL SL
Total/NA	Prep	3550C			137746	08/13/14 09:30	KKA	TAL SL
Total/NA	Analysis	8081B		1	137792	08/13/14 19:05	CEH	TAL SL
Total	Prep	EPA 3050B		0.962	14H0029_P	08/08/14 11:53	MS	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0029	08/11/14 19:06	ICP	TAL SPK
Total	Prep	EPA 3050B		0.962	14H0029_P	08/08/14 11:53	MS	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0029	08/12/14 11:34	ICP	TAL SPK
Total/NA	Analysis	Moisture		1	136026	08/06/14 08:33	SDB	TAL SL

Client Sample ID: Eastside

Lab Sample ID: SXH0010-03

Date Collected: 07/31/14 11:15

Matrix: Soil

Date Received: 08/04/14 14:30

Percent Solids: 94

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.992	14H0013_P	08/06/14 07:41	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0013	08/06/14 11:27	CBW	TAL SPK
Total/NA	Prep	3550C			137750	08/13/14 08:44	KKA	TAL SL
Total/NA	Analysis	8270D		1	138228	08/14/14 23:14	JSW	TAL SL
Total/NA	Prep	3550C			137746	08/13/14 09:30	KKA	TAL SL
Total/NA	Analysis	8081B		1	137792	08/13/14 19:26	CEH	TAL SL
Total	Prep	EPA 3050B		0.909	14H0029_P	08/08/14 11:53	MS	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0029	08/11/14 19:09	ICP	TAL SPK
Total	Prep	EPA 3050B		0.909	14H0029_P	08/08/14 11:53	MS	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0029	08/12/14 11:37	ICP	TAL SPK
Total/NA	Analysis	Moisture		1	136026	08/06/14 08:33	SDB	TAL SL

Lab Chronicle

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Client Sample ID: Eastside

Lab Sample ID: SXH0010-03

Date Collected: 07/31/14 11:15
Matrix: Soil
Date Received: 08/04/14 14:30
Percent Solids: 94

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	14H0047_P	08/12/14 16:19	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14H0047	08/12/14 16:41	JSP	TAL SPK

Client Sample ID: Westside

Lab Sample ID: SXH0010-04

Date Collected: 07/31/14 11:20
Matrix: Soil
Date Received: 08/04/14 14:30
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.960	14H0013_P	08/06/14 07:41	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0013	08/06/14 11:50	CBW	TAL SPK
Total/NA	Prep	3550C			137750	08/13/14 08:44	KKA	TAL SL
Total/NA	Analysis	8270D		1	138228	08/14/14 23:48	JSW	TAL SL
Total/NA	Prep	3550C			137746	08/13/14 09:30	KKA	TAL SL
Total/NA	Analysis	8081B		1	137792	08/13/14 19:46	CEH	TAL SL
Total	Prep	EPA 3050B		0.806	14H0029_P	08/08/14 11:53	MS	TAL SPK
Total	Analysis	EPA 6010C		2.00	14H0029	08/12/14 11:41	ICP	TAL SPK
Total/NA	Analysis	Moisture		1	136026	08/06/14 08:33	SDB	TAL SL

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15
California	NELAP	9	2886	03-31-15
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-15
Illinois	NELAP	5	200023	11-30-14
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-14 *
Kentucky (DW)	State Program	4	90125	12-31-14
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15
Maryland	State Program	3	310	09-30-15
Missouri	State Program	7	780	06-30-14 *
Nevada	State Program	9	MO000542013-1	07-31-14 *
New Jersey	NELAP	2	MO002	06-30-15
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	03-31-15
North Dakota	State Program	8	R207	06-30-14 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	2013-049	08-31-14 *
Pennsylvania	NELAP	3	68-00540	02-28-15
South Carolina	State Program	4	85002001	06-30-14 *
Texas	NELAP	6	T104704193-13-6	07-31-15
USDA	Federal		P330-07-00122	01-09-17
USEPA Reg V SDWA	Federal	1	WG-15J	08-30-14
Utah	NELAP	8	MO000542013-5	07-31-14 *
Virginia	NELAP	3	460230	06-14-15
Washington	State Program	10	C592	08-30-14 *
West Virginia DEP	State Program	3	381	12-31-14 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Tommer Construction Company, Inc.
Project/Site: [none]

TestAmerica Job ID: SXH0010

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
8081B	Organochlorine Pesticides (GC)	SW846	TAL SL
EPA 6010C	Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B		TAL SPK
Moisture	Percent Moisture	EPA	TAL SL
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 9XH0010

CLIENT: Tommer Construction Co. Inc.

REPORT TO: P.O. Box 1150 Ephrata Wa. 98823

ADDRESS:

PHONE: 509-750-8954 FAX: 509-787-3632

INVOICE TO: Chris Tommer

Same.

P.O. NUMBER:

PROJECT NAME: Wenatchee Pit

PROJECT NUMBER:

SAMPLED BY: Chris Tommer

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: (10) STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: Volatiles VOC's	S.V.O.C.'s	Pesticides	AS	CR	CU	PB	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	North side	11:05 7-31		X	X	X	X	X	X	X			North side	
2	South side	11:10 7-31		X	X	X	X	X	X	X			South side	
3	East side	11:15 7-31		X	X	X	X	X	X	X			East side	
4	West Side	11:20 7-31		X	X	X	X	X	X	X			West side	
5														
6														
7														
8														
9														
10														

RELEASED BY:		DATE: 8-4-14	RECEIVED BY:		DATE: 8-4-14
PRINT NAME: Chris Tommer	FIRM: Tommer Const.	TIME: 10:00 AM	PRINT NAME:	FIRM: TA-SpK	TIME: 14:30
RELEASED BY:		DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 9.3 PAGE 1 OF 1

TAL-1000 (0612)

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXH0010	Client: Tommer Const.	Project: Wenatchee Pit
Date/Time Received: 8-4-14 14:30	By: CW	

Samples Delivered By: ☐Shipping Service ☐Courier ☒Client ☐Other:

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:	X		X CW 8-4-14	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐Blue Ice ☒Gel Ice ☐Real Ice ☐Dry Ice ☐None ☐Other:

Temperature: 4.3 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐Not enough ice ☐Ice melted ☐w/in 4hrs of collection ☐NA ☐Other:

Log-In Phase Date/Time: 8/4/14 1517 By: LB	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	Y			
Samples containers were received intact:	Y			
Do sample IDs match the CoC	Y			
Appropriate sample containers were received for tests requested	Y			
Are sample volumes adequate for tests requested	Y			
Appropriate preservatives were used for the tests requested	Y			
pH of inorganic samples checked and is within method specification	Y			
Are VOC samples free of bubbles >6mm (1/4" diameter)			Y	
Are dissolved parameters field filtered			Y	
Do any samples need to be filtered or preserved by the lab			Y	
Does this project require quick turnaround analysis				
Are there any short hold time tests (see chart below)		Y		
Are any samples within 2 days of or past expiration		Y		
Was the CoC scanned	Y			
Were there Non-conformance issues at login		Y		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

Analytical Resources, Incorporated
Analytical Chemists and Consultants

May 5, 2014

Adam Neff
RH2 Engineering, Inc.
300 Simon Street SE
Suite #5
East Wenatchee, WA 98802-7720

Client Project: CMS-Landfill, 208.020.01.129
ARI Job No.: YH76

Dear Adam:
Please find enclosed the original Chain of Custody record (COC), sample receipt documentation, and the final results for the project referenced above. Analytical Resources, Inc. (ARI) accepted seven soil samples and a trip blank on April 23, 2014. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for volatiles, semivolatiles, pesticides, and metals, as requested.

The volatile continuing calibration on April 25th was outside the 20% control limit high for Bromomethane and n-Butylbenzene. All detected results associated with this calibration have been flagged with a "Q" qualifier. No further corrective action was taken.

The volatile continuing calibration on April 29th fell outside the 20% control limit low for Chloromethane, Iodomethane, Carbon Disulfide, 1,2-Dichloroethane, 4-Methyl-2-pentanone, and trans-1,3-Dichloropropene. The calibration was also outside the control limit high for Bromomethane. All detected results associated with this calibration have been flagged with a "Q" qualifier. No further corrective action was taken.

The volatile internal standard area of d4-1,4-Dichlorobenzene fell outside the control limits low for sample **WM-6**. The sample was re-analyzed the internal standard area was comparable to the initial analysis. Both sets of data have been reported for review. No further corrective action was taken.

The volatile LCS and LCSD percent recoveries of Acetone were outside the control limits high for **LCS-042914A**. All other percent recoveries were within control limits. No corrective action was taken.

The semivolatile continuing calibration fell outside the 20% control limit low for Benzoic Acid, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, and Pentachlorophenol. The calibration was also outside the control limit high for N-Nitrosodiphenylamine, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene. All detected results for these compounds were flagged with a "Q" qualifier. No further corrective action was taken.

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

The duplicate RPD of copper was outside the control imit for sample **WM-1**. All relevant data have been flagged with a "*" qualifier on the Form VI. No further corrective action was taken.

An electronic copy of this report and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please feel free to contact me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile YH76

Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: YH76	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: RHZ Engineering	Phone: (509) 886-6774	Date: 4-22-14	Ice Present? Y
Client Contact: Adam Veff		No. of Coolers: 1	Cooler Temps: 4.9
Client Project Name: CMS - landfill			
Client Project #: 208020 01.129	Samplers: AV		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)
www.arilabs.com

Sample ID	Date	Time	Matrix	No Containers	Analysis Requested: TPH-Dx BETX	SVOCs	Pesticides	Metals					Notes/Comments
WM-1	4-22	1342	Soil	6									See email to Cheronne for exact Analyses
WM-2		1353											
WM-3		1402											
WM-4		1414											
WM-5		1425											
WM-6		1435											
WM-7		1445											

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by: (Signature)	Received by (Signature)
ARI PM Cheronne	Printed Name: Adam Veff	Printed Name: Jennifer Millsap	Printed Name.	Printed Name.
	Company: RHZ	Company: ARI	Company	Company
	Date & Time: 4-22-14 1504	Date & Time: 4/23/14 945	Date & Time:	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

THIS SPACE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client RH2 Project Name CMS-Landfill

COC No(s) _____ (NA) Delivered by (Fed-Ex) UPS Courier Hand Delivered Other: _____

Assigned ARI Job No YH76 Tracking No. 5022888| 8491 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2 0-6.0 °C for chemistry) 4.9 Time 945

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# IR4122241

Cooler Accepted by: JM Date 4/23/14 Time 945

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	(Bubble Wrap) (Wet Ice) Gel Packs (Baggies) (Foam Block) Paper Other:		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	(NO)
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	4/18/14	

Was Sample Split by ARI : (NA) YES Date/Time:_____ Equipment:_____ Split by:_____

Samples Logged by: JM Date: 4/23/14 Time: 1041

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Trip Blank = Sm in 2 of 2

By JM Date: 4/23/14

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm
• • •	• • • •	● ● ●

Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: YH76
Client: RH2 Engineering
Project Event: 208.020.01.129
Project Name: CMS - Landfill

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	WM-1	YH76A	14-7698	Soil	04/22/14 13:42	04/23/14 09:45
2.	WM-2	YH76B	14-7699	Soil	04/22/14 13:53	04/23/14 09:45
3.	WM-3	YH76C	14-7700	Soil	04/22/14 14:02	04/23/14 09:45
4.	WM-4	YH76D	14-7701	Soil	04/22/14 14:14	04/23/14 09:45
5.	WM-5	YH76E	14-7702	Soil	04/22/14 14:25	04/23/14 09:45
6.	WM-6	YH76F	14-7703	Soil	04/22/14 14:35	04/23/14 09:45
7.	WM-7	YH76G	14-7704	Soil	04/22/14 14:45	04/23/14 09:45
8.	Trip Blank	YH76H	14-7705	Water	04/22/14	04/23/14 09:45

YH76 : 000005

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-1**
 SAMPLE

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 15:48

Sample Amount: 4.97 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 4.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	800	< 800	Y
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Date Analyzed: 04/25/14 15:48

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	100%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-2**
Page 1 of 2 **SAMPLE**

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 16:12

Sample Amount: 5.08 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 4.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	**Methylene Chloride**	**2.0**	**2.3**	
67-64-1	Acetone	710	< 710	Y
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.9	< 4.9	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.9	< 4.9	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.9	< 4.9	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	< 4.9	U
591-78-6	2-Hexanone	4.9	< 4.9	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	49	< 49	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	4.9	< 4.9	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	< 4.9	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	4.9	< 4.9	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-2**
 SAMPLE

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Date Analyzed: 04/25/14 16:12

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.9	< 4.9	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.9	< 4.9	U
91-20-3	Naphthalene	4.9	< 4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	< 4.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	100%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-3**
 SAMPLE

Lab Sample ID: YH76C
LIMS ID: 14-7700
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 16:36

Sample Amount: 5.14 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	**Methylene Chloride**	**1.9**	**3.0**	
67-64-1	Acetone	670	< 670	Y
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.9	< 4.9	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.9	< 4.9	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.9	< 4.9	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	< 4.9	U
591-78-6	2-Hexanone	4.9	< 4.9	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	< 1.9	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	49	< 49	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.9	< 4.9	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	< 4.9	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.9	< 4.9	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-3**
 SAMPLE

Lab Sample ID: YH76C
LIMS ID: 14-7700
Matrix: Soil
Date Analyzed: 04/25/14 16:36

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.9	< 4.9	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.9	< 4.9	U
91-20-3	Naphthalene	4.9	< 4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	< 4.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	100%
Bromofluorobenzene	108%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-4**
Page 1 of 2 **SAMPLE**

Lab Sample ID: YH76D
LIMS ID: 14-7701
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 17:00

Sample Amount: 5.21 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 4.4%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	**Methylene Chloride**	**1.9**	**2.6**	
67-64-1	Acetone	670	< 670	Y
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.8	< 4.8	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.8	< 4.8	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.8	< 4.8	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.8	< 4.8	U
591-78-6	2-Hexanone	4.8	< 4.8	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	< 1.9	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	48	< 48	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.8	< 4.8	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	< 4.8	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.8	< 4.8	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-4**
Page 2 of 2 **SAMPLE**

Lab Sample ID: YH76D
LIMS ID: 14-7701
Matrix: Soil
Date Analyzed: 04/25/14 17:00

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.8	< 4.8	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.8	< 4.8	U
91-20-3	Naphthalene	4.8	< 4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	< 4.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	101%
Bromofluorobenzene	107%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-5**
 SAMPLE

Lab Sample ID: YH76E
LIMS ID: 14-7702
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 17:24

Sample Amount: 4.84 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.1	< 2.1	U
67-64-1	Acetone	760	< 760	Y
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.2	< 5.2	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.2	< 5.2	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2	U
591-78-6	2-Hexanone	5.2	< 5.2	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.1	< 2.1	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	52	< 52	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.1	< 2.1	U
107-13-1	Acrylonitrile	5.2	< 5.2	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	< 5.2	U
96-18-4	1,2,3-Trichloropropane	2.1	< 2.1	U
110-57-6	trans-1,4-Dichloro-2-butene	5.2	< 5.2	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-5**
 SAMPLE

Lab Sample ID: YH76E
LIMS ID: 14-7702
Matrix: Soil
Date Analyzed: 04/25/14 17:24

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.2	< 5.2	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.2	< 5.2	U
91-20-3	Naphthalene	5.2	< 5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	< 5.2	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	101%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-6**
Page 1 of 2 **SAMPLE**

Lab Sample ID: YH76F
LIMS ID: 14-7703
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 17:48

Sample Amount: 5.31 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	**Methylene Chloride**	**1.9**	**2.1**	
67-64-1	Acetone	640	< 640	Y
75-15-0	Carbon Disulfide	0.9	< 0.9	U
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.7	< 4.7	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.7	< 4.7	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.7	< 4.7	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.7	< 4.7	U
591-78-6	2-Hexanone	4.7	< 4.7	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	< 0.9	U
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	< 1.9	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	47	< 47	U
74-88-4	Iodomethane	0.9	< 0.9	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.7	< 4.7	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	< 4.7	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.7	< 4.7	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-6**
Page 2 of 2 **SAMPLE**

Lab Sample ID: YH76F
LIMS ID: 14-7703
Matrix: Soil
Date Analyzed: 04/25/14 17:48

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.7	< 4.7	U
106-93-4	1,2-Dibromoethane	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.7	< 4.7	U
91-20-3	Naphthalene	4.7	< 4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	< 4.7	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.4%
d8-Toluene	98.7%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-6**
 REANALYSIS

Lab Sample ID: YH76F
LIMS ID: 14-7703
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/29/14 12:22

Sample Amount: 4.95 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	**Methylene Chloride**	**2.0**	**2.3**	
67-64-1	Acetone	260	< 260	Y
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-6**
 REANALYSIS

Lab Sample ID: YH76F
LIMS ID: 14-7703
Matrix: Soil
Date Analyzed: 04/29/14 12:22

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.1%
d8-Toluene	99.5%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-7**
 SAMPLE

Lab Sample ID: YH76G
LIMS ID: 14-7704
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 18:12

Sample Amount: 4.89 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 2.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	**Methylene Chloride**	**2.0**	**2.9**	
67-64-1	Acetone	590	< 590	Y
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.1	< 5.1	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.1	< 5.1	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.1	< 5.1	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.1	< 5.1	U
591-78-6	2-Hexanone	5.1	< 5.1	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	51	< 51	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.1	< 5.1	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	< 5.1	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.1	< 5.1	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: WM-7**
 SAMPLE

Lab Sample ID: YH76G
LIMS ID: 14-7704
Matrix: Soil
Date Analyzed: 04/25/14 18:12

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.1	< 5.1	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.1	< 5.1	U
91-20-3	Naphthalene	5.1	< 5.1	U
87-61-6	1,2,3-Trichlorobenzene	5.1	< 5.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	101%
Bromofluorobenzene	109%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: Trip Blank**
 SAMPLE

Lab Sample ID: YH76H
LIMS ID: 14-7705
Matrix: Water
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 18:36

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	10	< 10	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: Trip Blank**
 SAMPLE

Lab Sample ID: YH76H
LIMS ID: 14-7705
Matrix: Water
Date Analyzed: 04/25/14 18:36

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	10	< 10	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	5.0	< 5.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.3%
d8-Toluene	100%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	99.6%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-042514A	Method Blank	Low	96.8%	99.8%	103%	102%	0
LCS-042514A	Lab Control	Low	95.3%	99.9%	104%	100%	0
LCSD-042514A	Lab Control Dup	Low	94.9%	100%	104%	99.9%	0
YH76A	WM-1	Low	101%	100%	108%	100%	0
YH76B	WM-2	Low	104%	100%	109%	101%	0
YH76C	WM-3	Low	104%	100%	108%	102%	0
YH76D	WM-4	Low	102%	101%	107%	101%	0
YH76E	WM-5	Low	103%	101%	106%	102%	0
MB-042914A	Method Blank	Low	94.3%	98.7%	103%	101%	0
LCS-042914A	Lab Control	Low	89.7%	100%	104%	101%	0
LCSD-042914A	Lab Control Dup	Low	90.4%	99.8%	103%	101%	0
YH76F	WM-6	Low	93.4%	98.7%	104%	101%	0
YH76FRE	WM-6	Low	97.1%	99.5%	103%	102%	0
YH76G	WM-7	Low	102%	101%	109%	101%	0

SW8260C	LCS/MB LIMITS Low	LCS/MB LIMITS Med	QC LIMITS Low	QC LIMITS Med
(DCE) = d4-1,2-Dichloroethane	80-149	80-124	80-149	80-124
(TOL) = d8-Toluene	77-120	80-120	77-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 14-7698 to 14-7704

YH76 : 60824

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
YH76H	Trip Blank	5	97.3%	100%	104%	99.6%	0

SW8260C	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	80-149	80-125
(TOL) = d8-Toluene	77-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 14-7705 to 14-7705

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-042514A**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-042514A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 04/25/14 11:27
LCSD: 04/25/14 11:51

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS		Spike Added-LCS	LCS Recovery	LCSD		Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	49.3		50.0	98.6%	47.0		50.0	94.0%	4.8%
Bromomethane	71.7	Q	50.0	143%	65.5	Q	50.0	131%	9.0%
Vinyl Chloride	55.7		50.0	111%	54.9		50.0	110%	1.4%
Chloroethane	53.9		50.0	108%	51.3		50.0	103%	4.9%
Methylene Chloride	57.8		50.0	116%	49.0		50.0	98.0%	16.5%
Acetone	321		250	128%	324		250	130%	0.9%
Carbon Disulfide	48.0		50.0	96.0%	47.7		50.0	95.4%	0.6%
1,1-Dichloroethene	49.3		50.0	98.6%	49.3		50.0	98.6%	0.0%
1,1-Dichloroethane	52.3		50.0	105%	44.6		50.0	89.2%	15.9%
trans-1,2-Dichloroethene	49.3		50.0	98.6%	46.0		50.0	92.0%	6.9%
cis-1,2-Dichloroethene	46.6		50.0	93.2%	45.4		50.0	90.8%	2.6%
Chloroform	46.6		50.0	93.2%	45.6		50.0	91.2%	2.2%
1,2-Dichloroethane	45.0		50.0	90.0%	44.8		50.0	89.6%	0.4%
2-Butanone	280		250	112%	239		250	95.6%	15.8%
1,1,1-Trichloroethane	49.9		50.0	99.8%	49.1		50.0	98.2%	1.6%
Carbon Tetrachloride	49.9		50.0	99.8%	51.1		50.0	102%	2.4%
Vinyl Acetate	44.3		50.0	88.6%	42.9		50.0	85.8%	3.2%
Bromodichloromethane	48.9		50.0	97.8%	47.9		50.0	95.8%	2.1%
1,2-Dichloropropane	47.4		50.0	94.8%	46.8		50.0	93.6%	1.3%
cis-1,3-Dichloropropene	49.5		50.0	99.0%	47.6		50.0	95.2%	3.9%
Trichloroethene	47.6		50.0	95.2%	47.3		50.0	94.6%	0.6%
Dibromochloromethane	50.7		50.0	101%	50.3		50.0	101%	0.8%
1,1,2-Trichloroethane	46.4		50.0	92.8%	45.7		50.0	91.4%	1.5%
Benzene	46.0		50.0	92.0%	45.8		50.0	91.6%	0.4%
trans-1,3-Dichloropropene	40.3		50.0	80.6%	44.0		50.0	88.0%	8.8%
2-Chloroethylvinylether	52.5		50.0	105%	53.1		50.0	106%	1.1%
Bromoform	51.0		50.0	102%	49.1		50.0	98.2%	3.8%
4-Methyl-2-Pentanone (MIBK)	184		250	73.6%	201		250	80.4%	8.8%
2-Hexanone	316		250	126%	272		250	109%	15.0%
Tetrachloroethene	52.9		50.0	106%	51.7		50.0	103%	2.3%
1,1,2,2-Tetrachloroethane	51.0		50.0	102%	49.5		50.0	99.0%	3.0%
Toluene	47.7		50.0	95.4%	46.7		50.0	93.4%	2.1%
Chlorobenzene	49.6		50.0	99.2%	47.9		50.0	95.8%	3.5%
Ethylbenzene	52.5		50.0	105%	51.6		50.0	103%	1.7%
Styrene	54.0		50.0	108%	53.0		50.0	106%	1.9%
Trichlorofluoromethane	54.0		50.0	108%	51.6		50.0	103%	4.5%
1,1,2-Trichloro-1,2,2-trifluoroetha	49.9		50.0	99.8%	52.9		50.0	106%	5.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-042514A**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-042514A QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7698 Project: CMS - Landfill
Matrix: Soil 208.020.01.129

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	114	100	114%	119	100	119%	4.3%
o-Xylene	54.0	50.0	108%	52.9	50.0	106%	2.1%
1,2-Dichlorobenzene	50.1	50.0	100%	48.4	50.0	96.8%	3.5%
1,3-Dichlorobenzene	53.9	50.0	108%	50.7	50.0	101%	6.1%
1,4-Dichlorobenzene	51.1	50.0	102%	48.4	50.0	96.8%	5.4%
Acrolein	278	250	111%	260	250	104%	6.7%
Iodomethane	51.4	50.0	103%	58.1	50.0	116%	12.2%
Bromoethane	51.0	50.0	102%	50.2	50.0	100%	1.6%
Acrylonitrile	43.8	50.0	87.6%	41.2	50.0	82.4%	6.1%
1,1-Dichloropropene	50.8	50.0	102%	50.9	50.0	102%	0.2%
Dibromomethane	46.8	50.0	93.6%	46.2	50.0	92.4%	1.3%
1,1,1,2-Tetrachloroethane	49.1	50.0	98.2%	48.4	50.0	96.8%	1.4%
1,2-Dibromo-3-chloropropane	47.3	50.0	94.6%	46.6	50.0	93.2%	1.5%
1,2,3-Trichloropropane	49.2	50.0	98.4%	48.6	50.0	97.2%	1.2%
trans-1,4-Dichloro-2-butene	53.3	50.0	107%	52.2	50.0	104%	2.1%
1,3,5-Trimethylbenzene	58.0	50.0	116%	54.6	50.0	109%	6.0%
1,2,4-Trimethylbenzene	57.9	50.0	116%	54.8	50.0	110%	5.5%
Hexachlorobutadiene	53.7	50.0	107%	49.7	50.0	99.4%	7.7%
1,2-Dibromoethane	47.7	50.0	95.4%	47.3	50.0	94.6%	0.8%
Bromochloromethane	47.0	50.0	94.0%	45.4	50.0	90.8%	3.5%
2,2-Dichloropropane	48.0	50.0	96.0%	48.3	50.0	96.6%	0.6%
1,3-Dichloropropane	52.1	50.0	104%	51.4	50.0	103%	1.4%
Isopropylbenzene	58.6	50.0	117%	55.5	50.0	111%	5.4%
n-Propylbenzene	59.5	50.0	119%	55.8	50.0	112%	6.4%
Bromobenzene	52.2	50.0	104%	48.5	50.0	97.0%	7.3%
2-Chlorotoluene	55.4	50.0	111%	51.5	50.0	103%	7.3%
4-Chlorotoluene	56.9	50.0	114%	52.9	50.0	106%	7.3%
tert-Butylbenzene	56.7	50.0	113%	54.4	50.0	109%	4.1%
sec-Butylbenzene	58.7	50.0	117%	56.5	50.0	113%	3.8%
4-Isopropyltoluene	60.1	50.0	120%	56.7	50.0	113%	5.8%
n-Butylbenzene	61.4 Q	50.0	123%	57.7 Q	50.0	115%	6.2%
1,2,4-Trichlorobenzene	57.6	50.0	115%	53.3	50.0	107%	7.8%
Naphthalene	55.5	50.0	111%	53.0	50.0	106%	4.6%
1,2,3-Trichlorobenzene	53.7	50.0	107%	49.1	50.0	98.2%	8.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	95.3%	94.9%
d8-Toluene	99.9%	100%
Bromofluorobenzene	104%	104%
d4-1,2-Dichlorobenzene	100%	99.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-042914A**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-042914A
LIMS ID: 14-7703
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 04/29/14 10:24
LCSD: 04/29/14 10:48

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	44.9 Q	50.0	89.8%	43.7 Q	50.0	87.4%	2.7%
Bromomethane	73.9 Q	50.0	148%	66.9 Q	50.0	134%	9.9%
Vinyl Chloride	54.7	50.0	109%	52.6	50.0	105%	3.9%
Chloroethane	51.5	50.0	103%	47.2	50.0	94.4%	8.7%
Methylene Chloride	53.5	50.0	107%	46.5	50.0	93.0%	14.0%
Acetone	417	250	167%	472	250	189%	12.4%
Carbon Disulfide	47.9 Q	50.0	95.8%	52.3 Q	50.0	105%	8.8%
1,1-Dichloroethene	49.5	50.0	99.0%	53.2	50.0	106%	7.2%
1,1-Dichloroethane	48.9	50.0	97.8%	39.7	50.0	79.4%	20.8%
trans-1,2-Dichloroethene	48.6	50.0	97.2%	47.2	50.0	94.4%	2.9%
cis-1,2-Dichloroethene	45.8	50.0	91.6%	43.6	50.0	87.2%	4.9%
Chloroform	46.0	50.0	92.0%	44.1	50.0	88.2%	4.2%
1,2-Dichloroethane	45.1 Q	50.0	90.2%	42.9 Q	50.0	85.8%	5.0%
2-Butanone	255	250	102%	223	250	89.2%	13.4%
1,1,1-Trichloroethane	50.4	50.0	101%	47.9	50.0	95.8%	5.1%
Carbon Tetrachloride	53.2	50.0	106%	50.7	50.0	101%	4.8%
Vinyl Acetate	42.0	50.0	84.0%	40.3	50.0	80.6%	4.1%
Bromodichloromethane	48.8	50.0	97.6%	46.2	50.0	92.4%	5.5%
1,2-Dichloropropane	47.2	50.0	94.4%	45.2	50.0	90.4%	4.3%
cis-1,3-Dichloropropene	49.7	50.0	99.4%	46.5	50.0	93.0%	6.7%
Trichloroethene	48.9	50.0	97.8%	45.8	50.0	91.6%	6.5%
Dibromochloromethane	50.9	50.0	102%	49.4	50.0	98.8%	3.0%
1,1,2-Trichloroethane	46.8	50.0	93.6%	45.0	50.0	90.0%	3.9%
Benzene	48.2	50.0	96.4%	44.2	50.0	88.4%	8.7%
trans-1,3-Dichloropropene	40.7 Q	50.0	81.4%	38.0 Q	50.0	76.0%	6.9%
2-Chloroethylvinylether	50.6	50.0	101%	50.7	50.0	101%	0.2%
Bromoform	52.9	50.0	106%	50.0	50.0	100%	5.6%
4-Methyl-2-Pentanone (MIBK)	179 Q	250	71.6%	177 Q	250	70.8%	1.1%
2-Hexanone	294	250	118%	261	250	104%	11.9%
Tetrachloroethene	54.2	50.0	108%	50.6	50.0	101%	6.9%
1,1,2,2-Tetrachloroethane	50.6	50.0	101%	49.6	50.0	99.2%	2.0%
Toluene	50.2	50.0	100%	46.0	50.0	92.0%	8.7%
Chlorobenzene	51.4	50.0	103%	47.5	50.0	95.0%	7.9%
Ethylbenzene	56.2	50.0	112%	51.5	50.0	103%	8.7%
Styrene	56.8	50.0	114%	52.5	50.0	105%	7.9%
Trichlorofluoromethane	53.8	50.0	108%	50.5	50.0	101%	6.3%
1,1,2-Trichloro-1,2,2-trifluoroetha	51.3	50.0	103%	56.3	50.0	113%	9.3%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-042914A**
 LAB CONTROL SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: LCS-042914A QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7703 Project: CMS - Landfill
Matrix: Soil 208.020.01.129

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	119	100	119%	110	100	110%	7.9%
o-Xylene	56.4	50.0	113%	52.1	50.0	104%	7.9%
1,2-Dichlorobenzene	53.0	50.0	106%	48.8	50.0	97.6%	8.3%
1,3-Dichlorobenzene	56.4	50.0	113%	51.7	50.0	103%	8.7%
1,4-Dichlorobenzene	53.4	50.0	107%	47.9	50.0	95.8%	10.9%
Acrolein	268	250	107%	241	250	96.4%	10.6%
Iodomethane	52.8 Q	50.0	106%	56.6 Q	50.0	113%	6.9%
Bromoethane	54.1	50.0	108%	49.5	50.0	99.0%	8.9%
Acrylonitrile	38.8	50.0	77.6%	38.1	50.0	76.2%	1.8%
1,1-Dichloropropene	52.1	50.0	104%	50.7	50.0	101%	2.7%
Dibromomethane	46.0	50.0	92.0%	44.4	50.0	88.8%	3.5%
1,1,1,2-Tetrachloroethane	52.8	50.0	106%	49.0	50.0	98.0%	7.5%
1,2-Dibromo-3-chloropropane	45.8	50.0	91.6%	46.9	50.0	93.8%	2.4%
1,2,3-Trichloropropane	49.8	50.0	99.6%	48.9	50.0	97.8%	1.8%
trans-1,4-Dichloro-2-butene	55.6	50.0	111%	52.8	50.0	106%	5.2%
1,3,5-Trimethylbenzene	60.3	50.0	121%	55.0	50.0	110%	9.2%
1,2,4-Trimethylbenzene	60.8	50.0	122%	56.3	50.0	113%	7.7%
Hexachlorobutadiene	52.4	50.0	105%	49.9	50.0	99.8%	4.9%
1,2-Dibromoethane	46.8	50.0	93.6%	45.6	50.0	91.2%	2.6%
Bromochloromethane	46.2	50.0	92.4%	45.0	50.0	90.0%	2.6%
2,2-Dichloropropane	47.7	50.0	95.4%	44.6	50.0	89.2%	6.7%
1,3-Dichloropropane	52.3	50.0	105%	49.9	50.0	99.8%	4.7%
Isopropylbenzene	62.7	50.0	125%	57.3	50.0	115%	9.0%
n-Propylbenzene	62.2	50.0	124%	56.7	50.0	113%	9.3%
Bromobenzene	54.3	50.0	109%	49.8	50.0	99.6%	8.6%
2-Chlorotoluene	57.7	50.0	115%	53.2	50.0	106%	8.1%
4-Chlorotoluene	59.0	50.0	118%	53.8	50.0	108%	9.2%
tert-Butylbenzene	59.8	50.0	120%	55.2	50.0	110%	8.0%
sec-Butylbenzene	61.5	50.0	123%	56.7	50.0	113%	8.1%
4-Isopropyltoluene	61.5	50.0	123%	56.7	50.0	113%	8.1%
n-Butylbenzene	64.3	50.0	129%	57.5	50.0	115%	11.2%
1,2,4-Trichlorobenzene	57.4	50.0	115%	52.7	50.0	105%	8.5%
Naphthalene	54.0	50.0	108%	52.9	50.0	106%	2.1%
1,2,3-Trichlorobenzene	52.9	50.0	106%	49.5	50.0	99.0%	6.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	89.7%	90.4%
d8-Toluene	100%	99.8%
Bromofluorobenzene	104%	103%
d4-1,2-Dichlorobenzene	101%	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-042514A**
 METHOD BLANK

Lab Sample ID: MB-042514A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/25/14 12:15

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

Lab Sample ID: MB-042514A
LIMS ID: 14-7698
Matrix: Soil
Date Analyzed: 04/25/14 12:15

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.8%
d8-Toluene	99.8%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-042914A**
 METHOD BLANK

Lab Sample ID: MB-042914A
LIMS ID: 14-7703
Matrix: Soil
Data Release Authorized:
Reported: 05/01/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 04/29/14 11:12

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

Lab Sample ID: MB-042914A
LIMS ID: 14-7703
Matrix: Soil
Date Analyzed: 04/29/14 11:12

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.3%
d8-Toluene	98.7%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-1**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 18:36
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.63 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	< 19 U
111-44-4	Bis-(2-Chloroethyl) Ether	19	< 19 U
95-57-8	2-Chlorophenol	19	< 19 U
541-73-1	1,3-Dichlorobenzene	19	< 19 U
106-46-7	1,4-Dichlorobenzene	19	< 19 U
100-51-6	Benzyl Alcohol	19	< 19 U
95-50-1	1,2-Dichlorobenzene	19	< 19 U
95-48-7	2-Methylphenol	19	< 19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19	< 19 U
106-44-5	4-Methylphenol	19	< 19 U
621-64-7	N-Nitroso-Di-N-Propylamine	19	< 19 U
67-72-1	Hexachloroethane	19	< 19 U
98-95-3	Nitrobenzene	19	< 19 U
78-59-1	Isophorone	19	< 19 U
88-75-5	2-Nitrophenol	19	< 19 U
105-67-9	2,4-Dimethylphenol	94	< 94 U
65-85-0	Benzoic Acid	190	< 190 U
111-91-1	bis(2-Chloroethoxy) Methane	19	< 19 U
120-83-2	2,4-Dichlorophenol	94	< 94 U
120-82-1	1,2,4-Trichlorobenzene	19	< 19 U
91-20-3	Naphthalene	19	< 19 U
106-47-8	4-Chloroaniline	94	< 94 U
87-68-3	Hexachlorobutadiene	19	< 19 U
59-50-7	4-Chloro-3-methylphenol	94	< 94 U
91-57-6	2-Methylnaphthalene	19	< 19 U
77-47-4	Hexachlorocyclopentadiene	94	< 94 U
88-06-2	2,4,6-Trichlorophenol	94	< 94 U
95-95-4	2,4,5-Trichlorophenol	94	< 94 U
91-58-7	2-Chloronaphthalene	19	< 19 U
88-74-4	2-Nitroaniline	94	< 94 U
131-11-3	Dimethylphthalate	19	< 19 U
208-96-8	Acenaphthylene	19	< 19 U
99-09-2	3-Nitroaniline	94	< 94 U
83-32-9	Acenaphthene	19	< 19 U
51-28-5	2,4-Dinitrophenol	190	< 190 U
100-02-7	4-Nitrophenol	94	< 94 U
132-64-9	Dibenzofuran	19	< 19 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-1**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76A QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7698 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 18:36

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	94	< 94 U
121-14-2	2,4-Dinitrotoluene	94	< 94 U
84-66-2	Diethylphthalate	19	< 19 U
7005-72-3	4-Chlorophenyl-phenylether	19	< 19 U
86-73-7	Fluorene	19	< 19 U
100-01-6	4-Nitroaniline	94	< 94 U
534-52-1	4,6-Dinitro-2-Methylphenol	190	< 190 U
86-30-6	N-Nitrosodiphenylamine	19	< 19 U
101-55-3	4-Bromophenyl-phenylether	19	< 19 U
118-74-1	Hexachlorobenzene	19	< 19 U
87-86-5	Pentachlorophenol	94	< 94 U
85-01-8	Phenanthrene	19	< 19 U
86-74-8	Carbazole	19	< 19 U
120-12-7	Anthracene	19	< 19 U
84-74-2	Di-n-Butylphthalate	19	< 19 U
206-44-0	Fluoranthene	19	< 19 U
129-00-0	Pyrene	19	< 19 U
85-68-7	Butylbenzylphthalate	19	< 19 U
91-94-1	3,3'-Dichlorobenzidine	94	< 94 U
56-55-3	Benzo(a)anthracene	19	< 19 U
117-81-7	bis(2-Ethylhexyl)phthalate	47	< 47 U
218-01-9	Chrysene	19	< 19 U
117-84-0	Di-n-Octyl phthalate	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
191-24-2	Benzo(g,h,i)perylene	19	< 19 U
90-12-0	1-Methylnaphthalene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	38	< 38 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.6%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	87.0%	d4-1,2-Dichlorobenzene	61.8%
d5-Phenol	65.6%	2-Fluorophenol	65.5%
2,4,6-Tribromophenol	54.8%	d4-2-Chlorophenol	68.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-2**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 19:11
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.52 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	< 19 U
111-44-4	Bis-(2-Chloroethyl) Ether	19	< 19 U
95-57-8	2-Chlorophenol	19	< 19 U
541-73-1	1,3-Dichlorobenzene	19	< 19 U
106-46-7	1,4-Dichlorobenzene	19	< 19 U
100-51-6	Benzyl Alcohol	19	< 19 U
95-50-1	1,2-Dichlorobenzene	19	< 19 U
95-48-7	2-Methylphenol	19	< 19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19	< 19 U
106-44-5	4-Methylphenol	19	< 19 U
621-64-7	N-Nitroso-Di-N-Propylamine	19	< 19 U
67-72-1	Hexachloroethane	19	< 19 U
98-95-3	Nitrobenzene	19	< 19 U
78-59-1	Isophorone	19	< 19 U
88-75-5	2-Nitrophenol	19	< 19 U
105-67-9	2,4-Dimethylphenol	95	< 95 U
65-85-0	Benzoic Acid	190	< 190 U
111-91-1	bis(2-Chloroethoxy) Methane	19	< 19 U
120-83-2	2,4-Dichlorophenol	95	< 95 U
120-82-1	1,2,4-Trichlorobenzene	19	< 19 U
91-20-3	Naphthalene	19	< 19 U
106-47-8	4-Chloroaniline	95	< 95 U
87-68-3	Hexachlorobutadiene	19	< 19 U
59-50-7	4-Chloro-3-methylphenol	95	< 95 U
91-57-6	2-Methylnaphthalene	19	< 19 U
77-47-4	Hexachlorocyclopentadiene	95	< 95 U
88-06-2	2,4,6-Trichlorophenol	95	< 95 U
95-95-4	2,4,5-Trichlorophenol	95	< 95 U
91-58-7	2-Chloronaphthalene	19	< 19 U
88-74-4	2-Nitroaniline	95	< 95 U
131-11-3	Dimethylphthalate	19	< 19 U
208-96-8	Acenaphthylene	19	< 19 U
99-09-2	3-Nitroaniline	95	< 95 U
83-32-9	Acenaphthene	19	< 19 U
51-28-5	2,4-Dinitrophenol	190	< 190 U
100-02-7	4-Nitrophenol	95	< 95 U
132-64-9	Dibenzofuran	19	< 19 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-2**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76B QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7699 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 19:11

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	95	< 95 U
121-14-2	2,4-Dinitrotoluene	95	< 95 U
84-66-2	Diethylphthalate	19	< 19 U
7005-72-3	4-Chlorophenyl-phenylether	19	< 19 U
86-73-7	Fluorene	19	< 19 U
100-01-6	4-Nitroaniline	95	< 95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190	< 190 U
86-30-6	N-Nitrosodiphenylamine	19	< 19 U
101-55-3	4-Bromophenyl-phenylether	19	< 19 U
118-74-1	Hexachlorobenzene	19	< 19 U
87-86-5	Pentachlorophenol	95	< 95 U
85-01-8	Phenanthrene	19	< 19 U
86-74-8	Carbazole	19	< 19 U
120-12-7	Anthracene	19	< 19 U
84-74-2	Di-n-Butylphthalate	19	< 19 U
206-44-0	Fluoranthene	19	< 19 U
129-00-0	Pyrene	19	< 19 U
85-68-7	Butylbenzylphthalate	19	< 19 U
91-94-1	3,3'-Dichlorobenzidine	95	< 95 U
56-55-3	Benzo(a)anthracene	19	< 19 U
117-81-7	bis(2-Ethylhexyl)phthalate	48	< 48 U
218-01-9	Chrysene	19	< 19 U
117-84-0	Di-n-Octyl phthalate	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
191-24-2	Benzo(g,h,i)perylene	19	< 19 U
90-12-0	1-Methylnaphthalene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	38	< 38 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	62.2%
d14-p-Terphenyl	80.8%	d4-1,2-Dichlorobenzene	58.0%
d5-Phenol	60.5%	2-Fluorophenol	59.2%
2,4,6-Tribromophenol	57.1%	d4-2-Chlorophenol	59.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-3**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76C
LIMS ID: 14-7700
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 20:54
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.28 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 6.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
111-44-4	Bis-(2-Chloroethyl) Ether	20	< 20 U
95-57-8	2-Chlorophenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
621-64-7	N-Nitroso-Di-N-Propylamine	20	< 20 U
67-72-1	Hexachloroethane	20	< 20 U
98-95-3	Nitrobenzene	20	< 20 U
78-59-1	Isophorone	20	< 20 U
88-75-5	2-Nitrophenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	97	< 97 U
65-85-0	Benzoic Acid	200	< 200 U
111-91-1	bis(2-Chloroethoxy) Methane	20	< 20 U
120-83-2	2,4-Dichlorophenol	97	< 97 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
106-47-8	4-Chloroaniline	97	< 97 U
87-68-3	Hexachlorobutadiene	20	< 20 U
59-50-7	4-Chloro-3-methylphenol	97	< 97 U
91-57-6	2-Methylnaphthalene	20	< 20 U
77-47-4	Hexachlorocyclopentadiene	97	< 97 U
88-06-2	2,4,6-Trichlorophenol	97	< 97 U
95-95-4	2,4,5-Trichlorophenol	97	< 97 U
91-58-7	2-Chloronaphthalene	20	< 20 U
88-74-4	2-Nitroaniline	97	< 97 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
99-09-2	3-Nitroaniline	97	< 97 U
83-32-9	Acenaphthene	20	< 20 U
51-28-5	2,4-Dinitrophenol	200	< 200 U
100-02-7	4-Nitrophenol	97	< 97 U
132-64-9	Dibenzofuran	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-3**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76C QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7700 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 20:54

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	97	< 97 U
121-14-2	2,4-Dinitrotoluene	97	< 97 U
84-66-2	Diethylphthalate	20	< 20 U
7005-72-3	4-Chlorophenyl-phenylether	20	< 20 U
86-73-7	Fluorene	20	< 20 U
100-01-6	4-Nitroaniline	97	< 97 U
534-52-1	4,6-Dinitro-2-Methylphenol	200	< 200 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
101-55-3	4-Bromophenyl-phenylether	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	97	< 97 U
85-01-8	Phenanthrene	20	< 20 U
86-74-8	Carbazole	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
91-94-1	3,3'-Dichlorobenzidine	97	< 97 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	49	< 49 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	39	< 39 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	62.4%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	59.0%
d5-Phenol	56.1%	2-Fluorophenol	58.9%
2,4,6-Tribromophenol	49.7%	d4-2-Chlorophenol	58.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-4**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76D
LIMS ID: 14-7701
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 21:29
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.32 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 6.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	< 19 U
111-44-4	Bis-(2-Chloroethyl) Ether	19	< 19 U
95-57-8	2-Chlorophenol	19	< 19 U
541-73-1	1,3-Dichlorobenzene	19	< 19 U
106-46-7	1,4-Dichlorobenzene	19	< 19 U
100-51-6	Benzyl Alcohol	19	< 19 U
95-50-1	1,2-Dichlorobenzene	19	< 19 U
95-48-7	2-Methylphenol	19	< 19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19	< 19 U
106-44-5	4-Methylphenol	19	< 19 U
621-64-7	N-Nitroso-Di-N-Propylamine	19	< 19 U
67-72-1	Hexachloroethane	19	< 19 U
98-95-3	Nitrobenzene	19	< 19 U
78-59-1	Isophorone	19	< 19 U
88-75-5	2-Nitrophenol	19	< 19 U
105-67-9	2,4-Dimethylphenol	97	< 97 U
65-85-0	Benzoic Acid	190	< 190 U
111-91-1	bis(2-Chloroethoxy) Methane	19	< 19 U
120-83-2	2,4-Dichlorophenol	97	< 97 U
120-82-1	1,2,4-Trichlorobenzene	19	< 19 U
91-20-3	Naphthalene	19	< 19 U
106-47-8	4-Chloroaniline	97	< 97 U
87-68-3	Hexachlorobutadiene	19	< 19 U
59-50-7	4-Chloro-3-methylphenol	97	< 97 U
91-57-6	2-Methylnaphthalene	19	< 19 U
77-47-4	Hexachlorocyclopentadiene	97	< 97 U
88-06-2	2,4,6-Trichlorophenol	97	< 97 U
95-95-4	2,4,5-Trichlorophenol	97	< 97 U
91-58-7	2-Chloronaphthalene	19	< 19 U
88-74-4	2-Nitroaniline	97	< 97 U
131-11-3	Dimethylphthalate	19	< 19 U
208-96-8	Acenaphthylene	19	< 19 U
99-09-2	3-Nitroaniline	97	< 97 U
83-32-9	Acenaphthene	19	< 19 U
51-28-5	2,4-Dinitrophenol	190	< 190 U
100-02-7	4-Nitrophenol	97	< 97 U
132-64-9	Dibenzofuran	19	< 19 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-4**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76D
LIMS ID: 14-7701
Matrix: Soil
Date Analyzed: 05/03/14 21:29

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	97	< 97 U
121-14-2	2,4-Dinitrotoluene	97	< 97 U
84-66-2	Diethylphthalate	19	< 19 U
7005-72-3	4-Chlorophenyl-phenylether	19	< 19 U
86-73-7	Fluorene	19	< 19 U
100-01-6	4-Nitroaniline	97	< 97 U
534-52-1	4,6-Dinitro-2-Methylphenol	190	< 190 U
86-30-6	N-Nitrosodiphenylamine	19	< 19 U
101-55-3	4-Bromophenyl-phenylether	19	< 19 U
118-74-1	Hexachlorobenzene	19	< 19 U
87-86-5	Pentachlorophenol	97	< 97 U
85-01-8	Phenanthrene	19	< 19 U
86-74-8	Carbazole	19	< 19 U
120-12-7	Anthracene	19	< 19 U
84-74-2	Di-n-Butylphthalate	19	< 19 U
206-44-0	Fluoranthene	19	< 19 U
129-00-0	Pyrene	19	< 19 U
85-68-7	Butylbenzylphthalate	19	< 19 U
91-94-1	3,3'-Dichlorobenzidine	97	< 97 U
56-55-3	Benzo(a)anthracene	19	< 19 U
117-81-7	bis(2-Ethylhexyl)phthalate	48	< 48 U
218-01-9	Chrysene	19	< 19 U
117-84-0	Di-n-Octyl phthalate	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
191-24-2	Benzo(g,h,i)perylene	19	< 19 U
90-12-0	1-Methylnaphthalene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	39	< 39 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.4%	2-Fluorobiphenyl	58.6%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	50.4%
d5-Phenol	48.7%	2-Fluorophenol	46.7%
2,4,6-Tribromophenol	44.5%	d4-2-Chlorophenol	50.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-5**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76E
LIMS ID: 14-7702
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 22:03
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.23 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
111-44-4	Bis-(2-Chloroethyl) Ether	20	< 20 U
95-57-8	2-Chlorophenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
621-64-7	N-Nitroso-Di-N-Propylamine	20	< 20 U
67-72-1	Hexachloroethane	20	< 20 U
98-95-3	Nitrobenzene	20	< 20 U
78-59-1	Isophorone	20	< 20 U
88-75-5	2-Nitrophenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	98	< 98 U
65-85-0	Benzoic Acid	200	< 200 U
111-91-1	bis(2-Chloroethoxy) Methane	20	< 20 U
120-83-2	2,4-Dichlorophenol	98	< 98 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
106-47-8	4-Chloroaniline	98	< 98 U
87-68-3	Hexachlorobutadiene	20	< 20 U
59-50-7	4-Chloro-3-methylphenol	98	< 98 U
91-57-6	2-Methylnaphthalene	20	< 20 U
77-47-4	Hexachlorocyclopentadiene	98	< 98 U
88-06-2	2,4,6-Trichlorophenol	98	< 98 U
95-95-4	2,4,5-Trichlorophenol	98	< 98 U
91-58-7	2-Chloronaphthalene	20	< 20 U
88-74-4	2-Nitroaniline	98	< 98 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
99-09-2	3-Nitroaniline	98	< 98 U
83-32-9	Acenaphthene	20	< 20 U
51-28-5	2,4-Dinitrophenol	200	< 200 U
100-02-7	4-Nitrophenol	98	< 98 U
132-64-9	Dibenzofuran	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-5**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76E QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7702 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 22:03

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	98	< 98 U
121-14-2	2,4-Dinitrotoluene	98	< 98 U
84-66-2	Diethylphthalate	20	< 20 U
7005-72-3	4-Chlorophenyl-phenylether	20	< 20 U
86-73-7	Fluorene	20	< 20 U
100-01-6	4-Nitroaniline	98	< 98 U
534-52-1	4,6-Dinitro-2-Methylphenol	200	< 200 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
101-55-3	4-Bromophenyl-phenylether	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	Phenanthrene	20	< 20 U
86-74-8	Carbazole	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
91-94-1	3,3'-Dichlorobenzidine	98	< 98 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	49	< 49 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	39	< 39 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	55.6%	2-Fluorobiphenyl	59.6%
d14-p-Terphenyl	73.8%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	50.3%	2-Fluorophenol	52.1%
2,4,6-Tribromophenol	44.7%	d4-2-Chlorophenol	53.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-6**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76F
LIMS ID: 14-7703
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 22:38
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.13 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 15.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
111-44-4	Bis-(2-Chloroethyl) Ether	20	< 20 U
95-57-8	2-Chlorophenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
621-64-7	N-Nitroso-Di-N-Propylamine	20	< 20 U
67-72-1	Hexachloroethane	20	< 20 U
98-95-3	Nitrobenzene	20	< 20 U
78-59-1	Isophorone	20	< 20 U
88-75-5	2-Nitrophenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	99	< 99 U
65-85-0	Benzoic Acid	200	< 200 U
111-91-1	bis(2-Chloroethoxy) Methane	20	< 20 U
120-83-2	2,4-Dichlorophenol	99	< 99 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	**Naphthalene**	**20**	**15 J**
106-47-8	4-Chloroaniline	99	< 99 U
87-68-3	Hexachlorobutadiene	20	< 20 U
59-50-7	4-Chloro-3-methylphenol	99	< 99 U
91-57-6	2-Methylnaphthalene	20	< 20 U
77-47-4	Hexachlorocyclopentadiene	99	< 99 U
88-06-2	2,4,6-Trichlorophenol	99	< 99 U
95-95-4	2,4,5-Trichlorophenol	99	< 99 U
91-58-7	2-Chloronaphthalene	20	< 20 U
88-74-4	2-Nitroaniline	99	< 99 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
99-09-2	3-Nitroaniline	99	< 99 U
83-32-9	Acenaphthene	20	< 20 U
51-28-5	2,4-Dinitrophenol	200	< 200 U
100-02-7	4-Nitrophenol	99	< 99 U
132-64-9	Dibenzofuran	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-6**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76F QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7703 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 22:38

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	99	< 99 U
121-14-2	2,4-Dinitrotoluene	99	< 99 U
84-66-2	Diethylphthalate	20	< 20 U
7005-72-3	4-Chlorophenyl-phenylether	20	< 20 U
86-73-7	Fluorene	20	< 20 U
100-01-6	4-Nitroaniline	99	< 99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200	< 200 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
101-55-3	4-Bromophenyl-phenylether	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**27**
86-74-8	Carbazole	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
91-94-1	3,3'-Dichlorobenzidine	99	< 99 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	49	< 49 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	40	< 40 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.8%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	83.0%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	59.9%	2-Fluorophenol	62.8%
2,4,6-Tribromophenol	39.7%	d4-2-Chlorophenol	64.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-7**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76G
LIMS ID: 14-7704
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 23:12
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.48 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	< 19 U
111-44-4	Bis-(2-Chloroethyl) Ether	19	< 19 U
95-57-8	2-Chlorophenol	19	< 19 U
541-73-1	1,3-Dichlorobenzene	19	< 19 U
106-46-7	1,4-Dichlorobenzene	19	< 19 U
100-51-6	Benzyl Alcohol	19	< 19 U
95-50-1	1,2-Dichlorobenzene	19	< 19 U
95-48-7	2-Methylphenol	19	< 19 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19	< 19 U
106-44-5	4-Methylphenol	19	< 19 U
621-64-7	N-Nitroso-Di-N-Propylamine	19	< 19 U
67-72-1	Hexachloroethane	19	< 19 U
98-95-3	Nitrobenzene	19	< 19 U
78-59-1	Isophorone	19	< 19 U
88-75-5	2-Nitrophenol	19	< 19 U
105-67-9	2,4-Dimethylphenol	95	< 95 U
65-85-0	Benzoic Acid	190	< 190 U
111-91-1	bis(2-Chloroethoxy) Methane	19	< 19 U
120-83-2	2,4-Dichlorophenol	95	< 95 U
120-82-1	1,2,4-Trichlorobenzene	19	< 19 U
91-20-3	Naphthalene	19	< 19 U
106-47-8	4-Chloroaniline	95	< 95 U
87-68-3	Hexachlorobutadiene	19	< 19 U
59-50-7	4-Chloro-3-methylphenol	95	< 95 U
91-57-6	2-Methylnaphthalene	19	< 19 U
77-47-4	Hexachlorocyclopentadiene	95	< 95 U
88-06-2	2,4,6-Trichlorophenol	95	< 95 U
95-95-4	2,4,5-Trichlorophenol	95	< 95 U
91-58-7	2-Chloronaphthalene	19	< 19 U
88-74-4	2-Nitroaniline	95	< 95 U
131-11-3	Dimethylphthalate	19	< 19 U
208-96-8	Acenaphthylene	19	< 19 U
99-09-2	3-Nitroaniline	95	< 95 U
83-32-9	Acenaphthene	19	< 19 U
51-28-5	2,4-Dinitrophenol	190	< 190 U
100-02-7	4-Nitrophenol	95	< 95 U
132-64-9	Dibenzofuran	19	< 19 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-7**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76G QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7704 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 23:12

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	95	< 95 U
121-14-2	2,4-Dinitrotoluene	95	< 95 U
84-66-2	Diethylphthalate	19	< 19 U
7005-72-3	4-Chlorophenyl-phenylether	19	< 19 U
86-73-7	Fluorene	19	< 19 U
100-01-6	4-Nitroaniline	95	< 95 U
534-52-1	4,6-Dinitro-2-Methylphenol	190	< 190 U
86-30-6	N-Nitrosodiphenylamine	19	< 19 U
101-55-3	4-Bromophenyl-phenylether	19	< 19 U
118-74-1	Hexachlorobenzene	19	< 19 U
87-86-5	Pentachlorophenol	95	< 95 U
85-01-8	Phenanthrene	19	< 19 U
86-74-8	Carbazole	19	< 19 U
120-12-7	Anthracene	19	< 19 U
84-74-2	Di-n-Butylphthalate	19	< 19 U
206-44-0	Fluoranthene	19	< 19 U
129-00-0	Pyrene	19	< 19 U
85-68-7	Butylbenzylphthalate	19	< 19 U
91-94-1	3,3'-Dichlorobenzidine	95	< 95 U
56-55-3	Benzo(a)anthracene	19	< 19 U
117-81-7	bis(2-Ethylhexyl)phthalate	48	< 48 U
218-01-9	Chrysene	19	< 19 U
117-84-0	Di-n-Octyl phthalate	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
191-24-2	Benzo(g,h,i)perylene	19	< 19 U
90-12-0	1-Methylnaphthalene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	38	< 38 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.6%	2-Fluorobiphenyl	67.0%
d14-p-Terphenyl	79.6%	d4-1,2-Dichlorobenzene	58.6%
d5-Phenol	58.0%	2-Fluorophenol	58.0%
2,4,6-Tribromophenol	44.9%	d4-2-Chlorophenol	59.2%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
WM-1	68.6%	72.8%	87.0%	61.8%	65.6%	65.5%	54.8%	68.4%	0
MB-042514	64.0%	64.8%	88.6%	60.6%	63.3%	62.4%	63.2%	63.9%	0
LCS-042514	78.0%	73.4%	92.2%	73.0%	76.4%	75.7%	75.6%	75.2%	0
WM-2	59.2%	62.2%	80.8%	58.0%	60.5%	59.2%	57.1%	59.5%	0
WM-2 MS	63.2%	67.4%	73.0%	58.0%	62.9%	60.4%	70.4%	62.5%	0
WM-2 MSD	62.2%	65.4%	71.8%	61.4%	60.7%	57.9%	65.6%	60.9%	0
WM-3	60.8%	62.4%	76.0%	59.0%	56.1%	58.9%	49.7%	58.9%	0
WM-4	50.4%	58.6%	70.4%	50.4%	48.7%	46.7%	44.5%	50.4%	0
WM-5	55.6%	59.6%	73.8%	54.0%	50.3%	52.1%	44.7%	53.1%	0
WM-6	68.8%	69.6%	83.0%	66.8%	59.9%	62.8%	39.7%	64.0%	0
WM-7	59.6%	67.0%	79.6%	58.6%	58.0%	58.0%	44.9%	59.2%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(30-120)	(30-120)
(FBP) = 2-Fluorobiphenyl	(35-120)	(35-120)
(TPH) = d14-p-Terphenyl	(37-120)	(37-120)
(DCB) = d4-1,2-Dichlorobenzene	(32-120)	(32-120)
(PHL) = d5-Phenol	(29-120)	(29-120)
(2FP) = 2-Fluorophenol	(27-120)	(27-120)
(TBP) = 2,4,6-Tribromophenol	(24-134)	(24-134)
(2CP) = d4-2-Chlorophenol	(31-120)	(31-120)

Prep Method: SW3546
Log Number Range: 14-7698 to 14-7704

FORM-II SW8270

YH76:000048

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-2**
Page 1 of 2 **MS/MSD**

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted MS/MSD: 04/25/14

Date Analyzed MS: 05/03/14 19:45
MSD: 05/03/14 20:20
Instrument/Analyst MS: NT14/YZ
MSD: NT14/YZ
GPC Cleanup: No

Sample Amount MS: 10.52 g-dry-wt
MSD: 10.47 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 4.8 %

Analyte	Sample	MS		Spike Added-MS	MS Recovery	MSD		Spike Added-MSD	MSD Recovery	RPD
Phenol	< 19 U	343		475	72.2%	329		478	68.8%	4.2%
Bis-(2-Chloroethyl) Ether	< 19 U	332		475	69.9%	370		478	77.4%	10.8%
2-Chlorophenol	< 19 U	336		475	70.7%	336		478	70.3%	0.0%
1,3-Dichlorobenzene	< 19 U	291		475	61.3%	287		478	60.0%	1.4%
1,4-Dichlorobenzene	< 19 U	301		475	63.4%	299		478	62.6%	0.7%
Benzyl Alcohol	< 19 U	215		475	45.3%	128		478	26.8%	50.7%
1,2-Dichlorobenzene	< 19 U	298		475	62.7%	334		478	69.9%	11.4%
2-Methylphenol	< 19 U	346		475	72.8%	384		478	80.3%	10.4%
2,2'-Oxybis(1-Chloropropane)	< 19 U	304		475	64.0%	306		478	64.0%	0.7%
4-Methylphenol	< 19 U	742		951	78.0%	680		955	71.2%	8.7%
N-Nitroso-Di-N-Propylamine	< 19 U	317		475	66.7%	301		478	63.0%	5.2%
Hexachloroethane	< 19 U	298		475	62.7%	290		478	60.7%	2.7%
Nitrobenzene	< 19 U	337		475	70.9%	328		478	68.6%	2.7%
Isophorone	< 19 U	319		475	67.2%	308		478	64.4%	3.5%
2-Nitrophenol	< 19 U	316		475	66.5%	313		478	65.5%	1.0%
2,4-Dimethylphenol	< 95 U	862		1430	60.3%	834		1430	58.3%	3.3%
Benzoic Acid	< 190 U	989	Q	2610	37.9%	995	Q	2630	37.8%	0.6%
bis(2-Chloroethoxy) Methane	< 19 U	329		475	69.3%	316		478	66.1%	4.0%
2,4-Dichlorophenol	< 95 U	1090		1430	76.2%	1100		1430	76.9%	0.9%
1,2,4-Trichlorobenzene	< 19 U	321		475	67.6%	317		478	66.3%	1.3%
Naphthalene	< 19 U	301		475	63.4%	301		478	63.0%	0.0%
4-Chloroaniline	< 95 U	477		1430	33.4%	544		1430	38.0%	13.1%
Hexachlorobutadiene	< 19 U	325		475	68.4%	315		478	65.9%	3.1%
4-Chloro-3-methylphenol	< 95 U	1060		1430	74.1%	1070		1430	74.8%	0.9%
2-Methylnaphthalene	< 19 U	363		475	76.4%	348		478	72.8%	4.2%
Hexachlorocyclopentadiene	< 95 U	597	Q	1430	41.7%	592	Q	1430	41.4%	0.8%
2,4,6-Trichlorophenol	< 95 U	1030		1430	72.0%	971		1430	67.9%	5.9%
2,4,5-Trichlorophenol	< 95 U	1060		1430	74.1%	1050		1430	73.4%	0.9%
2-Chloronaphthalene	< 19 U	356		475	74.9%	352		478	73.6%	1.1%
2-Nitroaniline	< 95 U	1200		1430	83.9%	1190		1430	83.2%	0.8%
Dimethylphthalate	< 19 U	395		475	83.2%	378		478	79.1%	4.4%
Acenaphthylene	< 19 U	342		475	72.0%	329		478	68.8%	3.9%
3-Nitroaniline	< 95 U	729		1430	51.0%	725		1430	50.7%	0.6%
Acenaphthene	< 19 U	360		475	75.8%	342		478	71.5%	5.1%
2,4-Dinitrophenol	< 190 U	1170	Q	2610	44.8%	1170	Q	2630	44.5%	0.0%
4-Nitrophenol	< 95 U	877		1430	61.3%	889		1430	62.2%	1.4%
Dibenzofuran	< 19 U	394		475	82.9%	372		478	77.8%	5.7%
2,6-Dinitrotoluene	< 95 U	1200		1430	83.9%	1170		1430	81.8%	2.5%
2,4-Dinitrotoluene	< 95 U	1160		1430	81.1%	1110		1430	77.6%	4.4%
Diethylphthalate	< 19 U	394		475	82.9%	376		478	78.7%	4.7%
4-Chlorophenyl-phenylether	< 19 U	369		475	77.7%	344		478	72.0%	7.0%
Fluorene	< 19 U	349		475	73.5%	311		478	65.1%	11.5%
4-Nitroaniline	< 95 U	912		1430	63.8%	851		1430	59.5%	6.9%
4,6-Dinitro-2-Methylphenol	< 190 U	1910		2610	73.2%	1850		2630	70.3%	3.2%
N-Nitrosodiphenylamine	< 19 U	445	Q	475	93.7%	426	Q	478	89.1%	4.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: WM-2
MS/MSD

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Date Analyzed MS: 05/03/14 19:45
MSD: 05/03/14 20:20

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
4-Bromophenyl-phenylether	< 19 U	387	475	81.5%	381	478	79.7%	1.6%
Hexachlorobenzene	< 19 U	403	475	84.8%	390	478	81.6%	3.3%
Pentachlorophenol	< 95 U	695 Q	1430	48.6%	733 Q	1430	51.3%	5.3%
Phenanthrene	< 19 U	380	475	80.0%	374	478	78.2%	1.6%
Carbazole	< 19 U	395	475	83.2%	386	478	80.8%	2.3%
Anthracene	< 19 U	363	475	76.4%	348	478	72.8%	4.2%
Di-n-Butylphthalate	< 19 U	390	475	82.1%	397	478	83.1%	1.8%
Fluoranthene	< 19 U	371	475	78.1%	365	478	76.4%	1.6%
Pyrene	< 19 U	389	475	81.9%	378	478	79.1%	2.9%
Butylbenzylphthalate	< 19 U	385	475	81.1%	359	478	75.1%	7.0%
3,3'-Dichlorobenzidine	< 95 U	497	1430	34.8%	480	1430	33.6%	3.5%
Benzo(a)anthracene	< 19 U	371	475	78.1%	357	478	74.7%	3.8%
bis(2-Ethylhexyl)phthalate	< 48 U	452	475	95.2%	418	478	87.4%	7.8%
Chrysene	< 19 U	353	475	74.3%	341	478	71.3%	3.5%
Di-n-Octyl phthalate	< 19 U	399	475	84.0%	394	478	82.4%	1.3%
Benzo(a)pyrene	< 19 U	397	475	83.6%	370	478	77.4%	7.0%
Indeno(1,2,3-cd)pyrene	< 19 U	406 Q	475	85.5%	409 Q	478	85.6%	0.7%
Dibenz(a,h)anthracene	< 19 U	288 Q	475	60.6%	293 Q	478	61.3%	1.7%
Benzo(g,h,i)perylene	< 19 U	360 Q	475	75.8%	333 Q	478	69.7%	7.8%
1-Methylnaphthalene	< 19 U	355	475	74.7%	341	478	71.3%	4.0%
Total Benzofluoranthenes	< 38 U	749	951	78.8%	710	955	74.3%	5.3%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-2**
Extraction Method: SW3546 **MATRIX SPIKE**

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 19:45
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.52 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	---
111-44-4	Bis-(2-Chloroethyl) Ether	19	---
95-57-8	2-Chlorophenol	19	---
541-73-1	1,3-Dichlorobenzene	19	---
106-46-7	1,4-Dichlorobenzene	19	---
100-51-6	Benzyl Alcohol	19	---
95-50-1	1,2-Dichlorobenzene	19	---
95-48-7	2-Methylphenol	19	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	19	---
106-44-5	4-Methylphenol	19	---
621-64-7	N-Nitroso-Di-N-Propylamine	19	---
67-72-1	Hexachloroethane	19	---
98-95-3	Nitrobenzene	19	---
78-59-1	Isophorone	19	---
88-75-5	2-Nitrophenol	19	---
105-67-9	2,4-Dimethylphenol	95	---
65-85-0	Benzoic Acid	190	---
111-91-1	bis(2-Chloroethoxy) Methane	19	---
120-83-2	2,4-Dichlorophenol	95	---
120-82-1	1,2,4-Trichlorobenzene	19	---
91-20-3	Naphthalene	19	---
106-47-8	4-Chloroaniline	95	---
87-68-3	Hexachlorobutadiene	19	---
59-50-7	4-Chloro-3-methylphenol	95	---
91-57-6	2-Methylnaphthalene	19	---
77-47-4	Hexachlorocyclopentadiene	95	---
88-06-2	2,4,6-Trichlorophenol	95	---
95-95-4	2,4,5-Trichlorophenol	95	---
91-58-7	2-Chloronaphthalene	19	---
88-74-4	2-Nitroaniline	95	---
131-11-3	Dimethylphthalate	19	---
208-96-8	Acenaphthylene	19	---
99-09-2	3-Nitroaniline	95	---
83-32-9	Acenaphthene	19	---
51-28-5	2,4-Dinitrophenol	190	---
100-02-7	4-Nitrophenol	95	---
132-64-9	Dibenzofuran	19	---

YH76:00651

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-2**
Extraction Method: SW3546 **MATRIX SPIKE**

Lab Sample ID: YH76B QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7699 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 19:45

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	95	---
121-14-2	2,4-Dinitrotoluene	95	---
84-66-2	Diethylphthalate	19	---
7005-72-3	4-Chlorophenyl-phenylether	19	---
86-73-7	Fluorene	19	---
100-01-6	4-Nitroaniline	95	---
534-52-1	4,6-Dinitro-2-Methylphenol	190	---
86-30-6	N-Nitrosodiphenylamine	19	---
101-55-3	4-Bromophenyl-phenylether	19	---
118-74-1	Hexachlorobenzene	19	---
87-86-5	Pentachlorophenol	95	---
85-01-8	Phenanthrene	19	---
86-74-8	Carbazole	19	---
120-12-7	Anthracene	19	---
84-74-2	Di-n-Butylphthalate	19	---
206-44-0	Fluoranthene	19	---
129-00-0	Pyrene	19	---
85-68-7	Butylbenzylphthalate	19	---
91-94-1	3,3'-Dichlorobenzidine	95	---
56-55-3	Benzo(a)anthracene	19	---
117-81-7	bis(2-Ethylhexyl)phthalate	48	---
218-01-9	Chrysene	19	---
117-84-0	Di-n-Octyl phthalate	19	---
50-32-8	Benzo(a)pyrene	19	---
193-39-5	Indeno(1,2,3-cd)pyrene	19	---
53-70-3	Dibenz(a,h)anthracene	19	---
191-24-2	Benzo(g,h,i)perylene	19	---
90-12-0	1-Methylnaphthalene	19	---
TOTBFA	Total Benzofluoranthenes	38	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.2%	2-Fluorobiphenyl	67.4%
d14-p-Terphenyl	73.0%	d4-1,2-Dichlorobenzene	58.0%
d5-Phenol	62.9%	2-Fluorophenol	60.4%
2,4,6-Tribromophenol	70.4%	d4-2-Chlorophenol	62.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-2**
Extraction Method: SW3546 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 20:20
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.47 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	19	---
111-44-4	Bis-(2-Chloroethyl) Ether	19	---
95-57-8	2-Chlorophenol	19	---
541-73-1	1,3-Dichlorobenzene	19	---
106-46-7	1,4-Dichlorobenzene	19	---
100-51-6	Benzyl Alcohol	19	---
95-50-1	1,2-Dichlorobenzene	19	---
95-48-7	2-Methylphenol	19	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	19	---
106-44-5	4-Methylphenol	19	---
621-64-7	N-Nitroso-Di-N-Propylamine	19	---
67-72-1	Hexachloroethane	19	---
98-95-3	Nitrobenzene	19	---
78-59-1	Isophorone	19	---
88-75-5	2-Nitrophenol	19	---
105-67-9	2,4-Dimethylphenol	96	---
65-85-0	Benzoic Acid	190	---
111-91-1	bis(2-Chloroethoxy) Methane	19	---
120-83-2	2,4-Dichlorophenol	96	---
120-82-1	1,2,4-Trichlorobenzene	19	---
91-20-3	Naphthalene	19	---
106-47-8	4-Chloroaniline	96	---
87-68-3	Hexachlorobutadiene	19	---
59-50-7	4-Chloro-3-methylphenol	96	---
91-57-6	2-Methylnaphthalene	19	---
77-47-4	Hexachlorocyclopentadiene	96	---
88-06-2	2,4,6-Trichlorophenol	96	---
95-95-4	2,4,5-Trichlorophenol	96	---
91-58-7	2-Chloronaphthalene	19	---
88-74-4	2-Nitroaniline	96	---
131-11-3	Dimethylphthalate	19	---
208-96-8	Acenaphthylene	19	---
99-09-2	3-Nitroaniline	96	---
83-32-9	Acenaphthene	19	---
51-28-5	2,4-Dinitrophenol	190	---
100-02-7	4-Nitrophenol	96	---
132-64-9	Dibenzofuran	19	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: WM-2**
Extraction Method: SW3546 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Date Analyzed: 05/03/14 20:20

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	96	---
121-14-2	2,4-Dinitrotoluene	96	---
84-66-2	Diethylphthalate	19	---
7005-72-3	4-Chlorophenyl-phenylether	19	---
86-73-7	Fluorene	19	---
100-01-6	4-Nitroaniline	96	---
534-52-1	4,6-Dinitro-2-Methylphenol	190	---
86-30-6	N-Nitrosodiphenylamine	19	---
101-55-3	4-Bromophenyl-phenylether	19	---
118-74-1	Hexachlorobenzene	19	---
87-86-5	Pentachlorophenol	96	---
85-01-8	Phenanthrene	19	---
86-74-8	Carbazole	19	---
120-12-7	Anthracene	19	---
84-74-2	Di-n-Butylphthalate	19	---
206-44-0	Fluoranthene	19	---
129-00-0	Pyrene	19	---
85-68-7	Butylbenzylphthalate	19	---
91-94-1	3,3'-Dichlorobenzidine	96	---
56-55-3	Benzo(a)anthracene	19	---
117-81-7	bis(2-Ethylhexyl)phthalate	48	---
218-01-9	Chrysene	19	---
117-84-0	Di-n-Octyl phthalate	19	---
50-32-8	Benzo(a)pyrene	19	---
193-39-5	Indeno(1,2,3-cd)pyrene	19	---
53-70-3	Dibenz(a,h)anthracene	19	---
191-24-2	Benzo(g,h,i)perylene	19	---
90-12-0	1-Methylnaphthalene	19	---
TOTBFA	Total Benzofluoranthenes	38	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.2%	2-Fluorobiphenyl	65.4%
d14-p-Terphenyl	71.8%	d4-1,2-Dichlorobenzene	61.4%
d5-Phenol	60.7%	2-Fluorophenol	57.9%
2,4,6-Tribromophenol	65.6%	d4-2-Chlorophenol	60.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: LCS-042514**
 LAB CONTROL

Lab Sample ID: LCS-042514 QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7699 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Data Release Authorized: MW Date Sampled: 04/22/14
Reported: 05/05/14 Date Received: 04/23/14

Date Extracted: 04/25/14 Sample Amount: 10.00 g
Date Analyzed: 05/03/14 18:02 Final Extract Volume: 1.0 mL
Instrument/Analyst: NT14/YZ Dilution Factor: 1.00
GPC Cleanup: No Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	458	500	91.6%
Bis-(2-Chloroethyl) Ether	442	500	88.4%
2-Chlorophenol	425	500	85.0%
1,3-Dichlorobenzene	391	500	78.2%
1,4-Dichlorobenzene	401	500	80.2%
Benzyl Alcohol	315	500	63.0%
1,2-Dichlorobenzene	394	500	78.8%
2-Methylphenol	434	500	86.8%
2,2'-Oxybis(1-Chloropropane)	392	500	78.4%
4-Methylphenol	936	1000	93.6%
N-Nitroso-Di-N-Propylamine	393	500	78.6%
Hexachloroethane	408	500	81.6%
Nitrobenzene	429	500	85.8%
Isophorone	392	500	78.4%
2-Nitrophenol	405	500	81.0%
2,4-Dimethylphenol	1170	1500	78.0%
Benzoic Acid	1760 Q	2750	64.0%
bis(2-Chloroethoxy) Methane	411	500	82.2%
2,4-Dichlorophenol	1410	1500	94.0%
1,2,4-Trichlorobenzene	410	500	82.0%
Naphthalene	387	500	77.4%
4-Chloroaniline	698	1500	46.5%
Hexachlorobutadiene	409	500	81.8%
4-Chloro-3-methylphenol	1350	1500	90.0%
2-Methylnaphthalene	452	500	90.4%
Hexachlorocyclopentadiene	697 Q	1500	46.5%
2,4,6-Trichlorophenol	1160	1500	77.3%
2,4,5-Trichlorophenol	1200	1500	80.0%
2-Chloronaphthalene	408	500	81.6%
2-Nitroaniline	1310	1500	87.3%
Dimethylphthalate	449	500	89.8%
Acenaphthylene	418	500	83.6%
3-Nitroaniline	859	1500	57.3%
Acenaphthene	397	500	79.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: LCS-042514**
 LAB CONTROL

Lab Sample ID: LCS-042514 QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7699 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 18:02

Analyte	Lab Control		Spike Added	Recovery
2,4-Dinitrophenol	1700	Q	2750	61.8%
4-Nitrophenol	1230		1500	82.0%
Dibenzofuran	420		500	84.0%
2,6-Dinitrotoluene	1390		1500	92.7%
2,4-Dinitrotoluene	1200		1500	80.0%
Diethylphthalate	425		500	85.0%
4-Chlorophenyl-phenylether	394		500	78.8%
Fluorene	367		500	73.4%
4-Nitroaniline	951		1500	63.4%
4,6-Dinitro-2-Methylphenol	2080		2750	75.6%
N-Nitrosodiphenylamine	470	Q	500	94.0%
4-Bromophenyl-phenylether	418		500	83.6%
Hexachlorobenzene	445		500	89.0%
Pentachlorophenol	860	Q	1500	57.3%
Phenanthrene	462		500	92.4%
Carbazole	410		500	82.0%
Anthracene	375		500	75.0%
Di-n-Butylphthalate	443		500	88.6%
Fluoranthene	402		500	80.4%
Pyrene	500		500	100%
Butylbenzylphthalate	509		500	102%
3,3'-Dichlorobenzidine	537		1500	35.8%
Benzo(a)anthracene	460		500	92.0%
bis(2-Ethylhexyl)phthalate	526		500	105%
Chrysene	443		500	88.6%
Di-n-Octyl phthalate	507		500	101%
Benzo(a)pyrene	468		500	93.6%
Indeno(1,2,3-cd)pyrene	484	Q	500	96.8%
Dibenz(a,h)anthracene	349	Q	500	69.8%
Benzo(g,h,i)perylene	390	Q	500	78.0%
1-Methylnaphthalene	443		500	88.6%
Total Benzofluoranthenes	921		1000	92.1%

Semivolatile Surrogate Recovery	
d5-Nitrobenzene	78.0%
2-Fluorobiphenyl	73.4%
d14-p-Terphenyl	92.2%
d4-1,2-Dichlorobenzene	73.0%
d5-Phenol	76.4%
2-Fluorophenol	75.7%
2,4,6-Tribromophenol	75.6%
d4-2-Chlorophenol	75.2%

Reported in µg/kg (ppb)

YH76:000055

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: MB-042514**
Extraction Method: SW3546 **METHOD BLANK**

Lab Sample ID: MB-042514
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 17:27
Instrument/Analyst: NT14/YZ
GPC Cleanup: No

Sample Amount: 10.00 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
111-44-4	Bis-(2-Chloroethyl) Ether	20	< 20 U
95-57-8	2-Chlorophenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
621-64-7	N-Nitroso-Di-N-Propylamine	20	< 20 U
67-72-1	Hexachloroethane	20	< 20 U
98-95-3	Nitrobenzene	20	< 20 U
78-59-1	Isophorone	20	< 20 U
88-75-5	2-Nitrophenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	100	< 100 U
65-85-0	Benzoic Acid	200	< 200 U
111-91-1	bis(2-Chloroethoxy) Methane	20	< 20 U
120-83-2	2,4-Dichlorophenol	100	< 100 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
106-47-8	4-Chloroaniline	100	< 100 U
87-68-3	Hexachlorobutadiene	20	< 20 U
59-50-7	4-Chloro-3-methylphenol	100	< 100 U
91-57-6	2-Methylnaphthalene	20	< 20 U
77-47-4	Hexachlorocyclopentadiene	100	< 100 U
88-06-2	2,4,6-Trichlorophenol	100	< 100 U
95-95-4	2,4,5-Trichlorophenol	100	< 100 U
91-58-7	2-Chloronaphthalene	20	< 20 U
88-74-4	2-Nitroaniline	100	< 100 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
99-09-2	3-Nitroaniline	100	< 100 U
83-32-9	Acenaphthene	20	< 20 U
51-28-5	2,4-Dinitrophenol	200	< 200 U
100-02-7	4-Nitrophenol	100	< 100 U
132-64-9	Dibenzofuran	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: MB-042514**
Extraction Method: SW3546 **METHOD BLANK**

Lab Sample ID: MB-042514 QC Report No: YH76-RH2 Engineering
LIMS ID: 14-7699 Project: CMS - Landfill
Matrix: Soil 208.020.01.129
Date Analyzed: 05/03/14 17:27

CAS Number	Analyte	RL	Result
606-20-2	2,6-Dinitrotoluene	100	< 100 U
121-14-2	2,4-Dinitrotoluene	100	< 100 U
84-66-2	Diethylphthalate	20	< 20 U
7005-72-3	4-Chlorophenyl-phenylether	20	< 20 U
86-73-7	Fluorene	20	< 20 U
100-01-6	4-Nitroaniline	100	< 100 U
534-52-1	4,6-Dinitro-2-Methylphenol	200	< 200 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
101-55-3	4-Bromophenyl-phenylether	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	< 20 U
86-74-8	Carbazole	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
91-94-1	3,3'-Dichlorobenzidine	100	< 100 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	50	< 50 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
TOTBFA	Total Benzofluoranthenes	40	< 40 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%	2-Fluorobiphenyl	64.8%
d14-p-Terphenyl	88.6%	d4-1,2-Dichlorobenzene	60.6%
d5-Phenol	63.3%	2-Fluorophenol	62.4%
2,4,6-Tribromophenol	63.2%	d4-2-Chlorophenol	63.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-1**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 18:44
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 12.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.50	< 0.50 U
319-85-7	beta-BHC	0.50	< 0.50 U
319-86-8	delta-BHC	0.50	< 0.50 U
58-89-9	gamma-BHC (Lindane)	0.50	< 0.50 U
76-44-8	Heptachlor	0.50	< 0.50 U
309-00-2	Aldrin	0.50	< 0.50 U
1024-57-3	Heptachlor Epoxide	1.0	< 1.0 U
959-98-8	Endosulfan I	0.50	< 0.50 U
60-57-1	Dieldrin	1.0	< 1.0 U
72-55-9	4,4'-DDE	1.0	< 1.0 U
72-20-8	Endrin	1.0	< 1.0 U
33213-65-9	Endosulfan II	1.0	< 1.0 U
72-54-8	4,4'-DDD	1.0	< 1.0 U
1031-07-8	Endosulfan Sulfate	1.0	< 1.0 U
50-29-3	4,4'-DDT	1.0	< 1.0 U
72-43-5	Methoxychlor	5.0	< 5.0 U
53494-70-5	Endrin Ketone	1.0	< 1.0 U
7421-93-4	Endrin Aldehyde	1.0	< 1.0 U
5103-74-2	trans-Chlordane #	0.50	< 0.50 U
5103-71-9	cis-Chlordane $	0.50	< 0.50 U
8001-35-2	Toxaphene	25	< 25 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	81.8%
Tetrachlorometaxylene	67.0%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named beta-Chlordane.

$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-2**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 19:36
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 13.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.47	< 0.47 U
319-85-7	beta-BHC	0.47	< 0.47 U
319-86-8	delta-BHC	0.47	< 0.47 U
58-89-9	gamma-BHC (Lindane)	0.47	< 0.47 U
76-44-8	Heptachlor	0.47	< 0.47 U
309-00-2	Aldrin	0.47	< 0.47 U
1024-57-3	Heptachlor Epoxide	0.94	< 0.94 U
959-98-8	Endosulfan I	0.47	< 0.47 U
60-57-1	Dieldrin	0.94	< 0.94 U
72-55-9	4,4'-DDE	0.94	< 0.94 U
72-20-8	Endrin	0.94	< 0.94 U
33213-65-9	Endosulfan II	0.94	< 0.94 U
72-54-8	4,4'-DDD	0.94	< 0.94 U
1031-07-8	Endosulfan Sulfate	0.94	< 0.94 U
50-29-3	4,4'-DDT	0.94	< 0.94 U
72-43-5	Methoxychlor	4.7	< 4.7 U
53494-70-5	Endrin Ketone	0.94	< 0.94 U
7421-93-4	Endrin Aldehyde	0.94	< 0.94 U
5103-74-2	trans-Chlordane #	0.47	< 0.47 U
5103-71-9	cis-Chlordane $	0.47	< 0.47 U
8001-35-2	Toxaphene	23	< 23 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	66.8%
Tetrachlorometaxylene	55.0%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named beta-Chlordane.

$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-3**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76C
LIMS ID: 14-7700
Matrix: Soil
Data Release Authorized: [signature]
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 19:53
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 13.1 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 6.5%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.48	< 0.48 U
319-85-7	beta-BHC	0.48	< 0.48 U
319-86-8	delta-BHC	0.48	< 0.48 U
58-89-9	gamma-BHC (Lindane)	0.48	< 0.48 U
76-44-8	Heptachlor	0.48	< 0.48 U
309-00-2	Aldrin	0.48	< 0.48 U
1024-57-3	Heptachlor Epoxide	0.95	< 0.95 U
959-98-8	Endosulfan I	0.48	< 0.48 U
60-57-1	Dieldrin	0.95	< 0.95 U
72-55-9	4,4'-DDE	0.95	< 0.95 U
72-20-8	Endrin	0.95	< 0.95 U
33213-65-9	Endosulfan II	0.95	< 0.95 U
72-54-8	4,4'-DDD	0.95	< 0.95 U
1031-07-8	Endosulfan Sulfate	0.95	< 0.95 U
50-29-3	4,4'-DDT	0.95	< 0.95 U
72-43-5	Methoxychlor	4.8	< 4.8 U
53494-70-5	Endrin Ketone	0.95	< 0.95 U
7421-93-4	Endrin Aldehyde	0.95	< 0.95 U
5103-74-2	trans-Chlordane #	0.48	< 0.48 U
5103-71-9	cis-Chlordane $	0.48	< 0.48 U
8001-35-2	Toxaphene	24	< 24 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	70.5%
Tetrachlorometaxylene	58.2%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named beta-Chlordane.

$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-4**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76D
LIMS ID: 14-7701
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 20:10
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 13.1 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 6.5%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.48	< 0.48 U
319-85-7	beta-BHC	0.48	< 0.48 U
319-86-8	delta-BHC	0.48	< 0.48 U
58-89-9	gamma-BHC (Lindane)	0.48	< 0.48 U
76-44-8	Heptachlor	0.48	< 0.48 U
309-00-2	Aldrin	0.48	< 0.48 U
1024-57-3	Heptachlor Epoxide	0.95	< 0.95 U
959-98-8	Endosulfan I	0.48	< 0.48 U
60-57-1	Dieldrin	0.95	< 0.95 U
72-55-9	4,4'-DDE	0.95	< 0.95 U
72-20-8	Endrin	0.95	< 0.95 U
33213-65-9	Endosulfan II	0.95	< 0.95 U
72-54-8	4,4'-DDD	0.95	< 0.95 U
1031-07-8	Endosulfan Sulfate	0.95	< 0.95 U
50-29-3	4,4'-DDT	0.95	< 0.95 U
72-43-5	Methoxychlor	4.8	< 4.8 U
53494-70-5	Endrin Ketone	0.95	< 0.95 U
7421-93-4	Endrin Aldehyde	0.95	< 0.95 U
5103-74-2	trans-Chlordane #	0.48	< 0.48 U
5103-71-9	cis-Chlordane $	0.48	< 0.48 U
8001-35-2	Toxaphene	24	< 24 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	72.2%
Tetrachlorometaxylene	63.5%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named beta-Chlordane.

$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-5**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76E
LIMS ID: 14-7702
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 20:27
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 13.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 7.3%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.48	< 0.48 U
319-85-7	beta-BHC	0.48	< 0.48 U
319-86-8	delta-BHC	0.48	< 0.48 U
58-89-9	gamma-BHC (Lindane)	0.48	< 0.48 U
76-44-8	Heptachlor	0.48	< 0.48 U
309-00-2	Aldrin	0.48	< 0.48 U
1024-57-3	Heptachlor Epoxide	0.96	< 0.96 U
959-98-8	Endosulfan I	0.48	< 0.48 U
60-57-1	Dieldrin	0.96	< 0.96 U
72-55-9	4,4'-DDE	0.96	< 0.96 U
72-20-8	Endrin	0.96	< 0.96 U
33213-65-9	Endosulfan II	0.96	< 0.96 U
72-54-8	4,4'-DDD	0.96	< 0.96 U
1031-07-8	Endosulfan Sulfate	0.96	< 0.96 U
50-29-3	4,4'-DDT	0.96	< 0.96 U
72-43-5	Methoxychlor	4.8	< 4.8 U
53494-70-5	Endrin Ketone	0.96	< 0.96 U
7421-93-4	Endrin Aldehyde	0.96	< 0.96 U
5103-74-2	trans-Chlordane #	0.48	< 0.48 U
5103-71-9	cis-Chlordane $	0.48	< 0.48 U
8001-35-2	Toxaphene	24	< 24 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	66.5%
Tetrachlorometaxylene	57.5%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named beta-Chlordane.

$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-6**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76F
LIMS ID: 14-7703
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 20:45
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 12.7 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 15.7%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.49	< 0.49 U
319-85-7	beta-BHC	0.49	< 0.49 U
319-86-8	delta-BHC	0.49	< 0.49 U
58-89-9	gamma-BHC (Lindane)	0.49	< 0.49 U
76-44-8	Heptachlor	0.49	< 0.49 U
309-00-2	Aldrin	0.49	< 0.49 U
1024-57-3	Heptachlor Epoxide	0.99	< 0.99 U
959-98-8	Endosulfan I	0.49	< 0.49 U
60-57-1	Dieldrin	0.99	< 0.99 U
72-55-9	4,4'-DDE	0.99	< 0.99 U
72-20-8	Endrin	0.99	< 0.99 U
33213-65-9	Endosulfan II	0.99	< 0.99 U
72-54-8	4,4'-DDD	0.99	< 0.99 U
1031-07-8	Endosulfan Sulfate	0.99	< 0.99 U
50-29-3	4,4'-DDT	0.99	< 0.99 U
72-43-5	Methoxychlor	4.9	< 4.9 U
53494-70-5	Endrin Ketone	0.99	< 0.99 U
7421-93-4	Endrin Aldehyde	0.99	< 0.99 U
5103-74-2	trans-Chlordane #	0.49	< 0.49 U
5103-71-9	cis-Chlordane $	0.49	< 0.49 U
8001-35-2	Toxaphene	25	< 25 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	71.0%
Tetrachlorometaxylene	57.2%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named beta-Chlordane.

$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-7**
Extraction Method: SW3546 **SAMPLE**

Lab Sample ID: YH76G
LIMS ID: 14-7704
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 21:02
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 13.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 4.7%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.47	< 0.47 U
319-85-7	beta-BHC	0.47	< 0.47 U
319-86-8	delta-BHC	0.47	< 0.47 U
58-89-9	gamma-BHC (Lindane)	0.47	< 0.47 U
76-44-8	Heptachlor	0.47	< 0.47 U
309-00-2	Aldrin	0.47	< 0.47 U
1024-57-3	Heptachlor Epoxide	0.94	< 0.94 U
959-98-8	Endosulfan I	0.47	< 0.47 U
60-57-1	Dieldrin	0.94	< 0.94 U
72-55-9	4,4'-DDE	0.94	< 0.94 U
72-20-8	Endrin	0.94	< 0.94 U
33213-65-9	Endosulfan II	0.94	< 0.94 U
72-54-8	4,4'-DDD	0.94	< 0.94 U
1031-07-8	Endosulfan Sulfate	0.94	< 0.94 U
50-29-3	4,4'-DDT	0.94	< 0.94 U
72-43-5	Methoxychlor	4.7	< 4.7 U
53494-70-5	Endrin Ketone	0.94	< 0.94 U
7421-93-4	Endrin Aldehyde	0.94	< 0.94 U
5103-74-2	trans-Chlordane #	0.47	< 0.47 U
5103-71-9	cis-Chlordane $	0.47	< 0.47 U
8001-35-2	Toxaphene	23	< 23 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	70.8%
Tetrachlorometaxylene	58.5%

This analyte (CAS registry No. 5103-74-2) is named trans-Chlordane in EPA Method 8081B(Feb 2007). It has also been named beta-Chlordane.

$ This analyte (CAS registry No. 5103-71-9) is named cis-Chlordane in EPA Method 8081B(Feb 2007). It has also been named alpha-Chlordane.

ANALYTICAL RESOURCES INCORPORATED

SW8081 PESTICIDE SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129

Client ID	DCBP	TCMX	TOT OUT
MB-042514	77.2%	64.8%	0
LCS-042514	79.0%	62.0%	0
WM-1	81.8%	67.0%	0
WM-1 MS	77.0%	61.5%	0
WM-1 MSD	70.2%	54.0%	0
WM-2	66.8%	55.0%	0
WM-3	70.5%	58.2%	0
WM-4	72.2%	63.5%	0
WM-5	66.5%	57.5%	0
WM-6	71.0%	57.2%	0
WM-7	70.8%	58.5%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(30-160)	(30-160)
(TCMX) = Tetrachlorometaxylene	(30-160)	(30-160)

Prep Method: SW3546
Log Number Range: 14-7698 to 14-7704

FORM-II SW8081

YH76:00066

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: WM-1
MS/MSD

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted MS/MSD: 04/25/14

Date Analyzed MS: 05/03/14 19:02
MSD: 05/03/14 19:19
Instrument/Analyst MS: ECD6/YZ
MSD: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount MS: 12.5 g-dry-wt
MSD: 12.5 g-dry-wt
Final Extract Volume MS: 2.5 mL
MSD: 2.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: Yes

Percent Moisture: 3.7%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
alpha-BHC	< 0.498	2.74	3.99	68.7%	2.48	3.99	62.2%	10.0%
beta-BHC	< 0.498	2.66	3.99	66.7%	2.50	3.99	62.7%	6.2%
delta-BHC	< 0.498	3.00	3.99	75.2%	2.82	3.99	70.7%	6.2%
gamma-BHC (Lindane)	< 0.498	2.96	3.99	74.2%	2.72	3.99	68.2%	8.5%
Heptachlor	< 0.498	2.72	3.99	68.2%	2.50	3.99	62.7%	8.4%
Aldrin	< 0.498	2.68	3.99	67.2%	2.44	3.99	61.2%	9.4%
Heptachlor Epoxide	< 0.997	2.90	3.99	72.7%	2.80	3.99	70.2%	3.5%
Endosulfan I	< 0.498	2.72	3.99	68.2%	2.54	3.99	63.7%	6.8%
Dieldrin	< 0.997	5.61	7.99	70.2%	5.31	7.99	66.5%	5.5%
4,4'-DDE	< 0.997	6.77	7.99	84.7%	6.57	7.99	82.2%	3.0%
Endrin	< 0.997	7.01	7.99	87.7%	6.45	7.99	80.7%	8.3%
Endosulfan II	< 0.997	6.51	7.99	81.5%	5.99	7.99	75.0%	8.3%
4,4'-DDD	< 0.997	7.13	7.99	89.2%	6.61	7.99	82.7%	7.6%
Endosulfan Sulfate	< 0.997	6.87	7.99	86.0%	6.41	7.99	80.2%	6.9%
4,4'-DDT	< 0.997	7.07	7.99	88.5%	6.51	7.99	81.5%	8.2%
Methoxychlor	< 4.98	35.7	39.9	89.5%	32.9	39.9	82.5%	8.2%
Endrin Ketone	< 0.997	7.01	7.99	87.7%	6.59	7.99	82.5%	6.2%
Endrin Aldehyde	< 0.997	4.67	7.99	58.4%	4.55	7.99	56.9%	2.6%
trans-Chlordane	< 0.498	2.68	3.99	67.2%	2.58	3.99	64.7%	3.8%
cis-Chlordane	< 0.498	2.82	3.99	70.7%	2.66	3.99	66.7%	5.8%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: WM-1**
Extraction Method: SW3546 **MATRIX SPIKE**

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 19:02
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 12.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.50	---
319-85-7	beta-BHC	0.50	---
319-86-8	delta-BHC	0.50	---
58-89-9	gamma-BHC (Lindane)	0.50	---
76-44-8	Heptachlor	0.50	---
309-00-2	Aldrin	0.50	---
1024-57-3	Heptachlor Epoxide	1.0	---
959-98-8	Endosulfan I	0.50	---
60-57-1	Dieldrin	1.0	---
72-55-9	4,4'-DDE	1.0	---
72-20-8	Endrin	1.0	---
33213-65-9	Endosulfan II	1.0	---
72-54-8	4,4'-DDD	1.0	---
1031-07-8	Endosulfan Sulfate	1.0	---
50-29-3	4,4'-DDT	1.0	---
72-43-5	Methoxychlor	5.0	---
53494-70-5	Endrin Ketone	1.0	---
7421-93-4	Endrin Aldehyde	1.0	---
5103-74-2	trans-Chlordane	0.50	---
5103-71-9	cis-Chlordane	0.50	---
8001-35-2	Toxaphene	25	< 25 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	77.0%
Tetrachlorometaxylene	61.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Extraction Method: SW3546
Page 1 of 1

Sample ID: WM-1
MATRIX SPIKE DUP

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 19:19
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 12.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 3.7%

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.50	---
319-85-7	beta-BHC	0.50	---
319-86-8	delta-BHC	0.50	---
58-89-9	gamma-BHC (Lindane)	0.50	---
76-44-8	Heptachlor	0.50	---
309-00-2	Aldrin	0.50	---
1024-57-3	Heptachlor Epoxide	1.0	---
959-98-8	Endosulfan I	0.50	---
60-57-1	Dieldrin	1.0	---
72-55-9	4,4'-DDE	1.0	---
72-20-8	Endrin	1.0	---
33213-65-9	Endosulfan II	1.0	---
72-54-8	4,4'-DDD	1.0	---
1031-07-8	Endosulfan Sulfate	1.0	---
50-29-3	4,4'-DDT	1.0	---
72-43-5	Methoxychlor	5.0	---
53494-70-5	Endrin Ketone	1.0	---
7421-93-4	Endrin Aldehyde	1.0	---
5103-74-2	trans-Chlordane	0.50	---
5103-71-9	cis-Chlordane	0.50	---
8001-35-2	Toxaphene	25	< 25 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	70.2%
Tetrachlorometaxylene	54.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD
Page 1 of 1

Sample ID: LCS-042514
LAB CONTROL

Lab Sample ID: LCS-042514
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 18:10
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 12.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
alpha-BHC	2.68	4.00	67.0%
beta-BHC	2.70	4.00	67.5%
delta-BHC	3.10	4.00	77.5%
gamma-BHC (Lindane)	2.90	4.00	72.5%
Heptachlor	2.70	4.00	67.5%
Aldrin	2.64	4.00	66.0%
Heptachlor Epoxide	3.00	4.00	75.0%
Endosulfan I	2.72	4.00	68.0%
Dieldrin	5.72	8.00	71.5%
4,4'-DDE	7.02	8.00	87.8%
Endrin	7.04	8.00	88.0%
Endosulfan II	6.54	8.00	81.8%
4,4'-DDD	7.18	8.00	89.8%
Endosulfan Sulfate	7.18	8.00	89.8%
4,4'-DDT	7.04	8.00	88.0%
Methoxychlor	36.0	40.0	90.0%
Endrin Ketone	7.20	8.00	90.0%
Endrin Aldehyde	4.98	8.00	62.2%
trans-Chlordane	2.76	4.00	69.0%
cis-Chlordane	2.84	4.00	71.0%

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	79.0%
Tetrachlorometaxylene	62.0%

Reported in µg/kg (ppb)

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Pesticides/PCB by GC/ECD **Sample ID: MB-042514**
Extraction Method: SW3546 **METHOD BLANK**

Lab Sample ID: MB-042514
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized: MW
Reported: 05/05/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

Date Extracted: 04/25/14
Date Analyzed: 05/03/14 17:53
Instrument/Analyst: ECD6/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes
Florisil Cleanup: No
Acid Cleanup: No

Sample Amount: 12.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.50	< 0.50 U
319-85-7	beta-BHC	0.50	< 0.50 U
319-86-8	delta-BHC	0.50	< 0.50 U
58-89-9	gamma-BHC (Lindane)	0.50	< 0.50 U
76-44-8	Heptachlor	0.50	< 0.50 U
309-00-2	Aldrin	0.50	< 0.50 U
1024-57-3	Heptachlor Epoxide	1.0	< 1.0 U
959-98-8	Endosulfan I	0.50	< 0.50 U
60-57-1	Dieldrin	1.0	< 1.0 U
72-55-9	4,4'-DDE	1.0	< 1.0 U
72-20-8	Endrin	1.0	< 1.0 U
33213-65-9	Endosulfan II	1.0	< 1.0 U
72-54-8	4,4'-DDD	1.0	< 1.0 U
1031-07-8	Endosulfan Sulfate	1.0	< 1.0 U
50-29-3	4,4'-DDT	1.0	< 1.0 U
72-43-5	Methoxychlor	5.0	< 5.0 U
53494-70-5	Endrin Ketone	1.0	< 1.0 U
7421-93-4	Endrin Aldehyde	1.0	< 1.0 U
5103-74-2	trans-Chlordane	0.50	< 0.50 U
5103-71-9	cis-Chlordane	0.50	< 0.50 U
8001-35-2	Toxaphene	25	< 25 U

Reported in µg/kg (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	77.2%
Tetrachlorometaxylene	64.8%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: WM-1
SAMPLE

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Percent Total Solids: 95.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	**7440-38-2**	**Arsenic**	0.2	**3.2**	
3050B	04/24/14	200.8	04/25/14	**7440-47-3**	**Chromium**	0.5	**8.4**	
3050B	04/24/14	200.8	04/25/14	**7440-50-8**	**Copper**	0.5	**9.0**	
3050B	04/24/14	200.8	04/25/14	**7439-92-1**	**Lead**	0.1	**4.3**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: WM-2
SAMPLE

Lab Sample ID: YH76B
LIMS ID: 14-7699
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Percent Total Solids: 95.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	**7440-38-2**	**Arsenic**	0.2	**1.7**	
3050B	04/24/14	200.8	04/25/14	**7440-47-3**	**Chromium**	0.5	**8.8**	
3050B	04/24/14	200.8	04/25/14	**7440-50-8**	**Copper**	0.5	**10.1**	
3050B	04/24/14	200.8	04/25/14	**7439-92-1**	**Lead**	0.1	**3.5**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: WM-3**
Page 1 of 1 **SAMPLE**

Lab Sample ID: YH76C
LIMS ID: 14-7700
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Percent Total Solids: 92.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	**7440-38-2**	**Arsenic**	0.2	**2.5**	
3050B	04/24/14	200.8	04/25/14	**7440-47-3**	**Chromium**	0.5	**14.4**	
3050B	04/24/14	200.8	04/25/14	**7440-50-8**	**Copper**	0.5	**13.0**	
3050B	04/24/14	200.8	04/25/14	**7439-92-1**	**Lead**	0.1	**5.7**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: WM-4**
Page 1 of 1 **SAMPLE**

Lab Sample ID: YH76D
LIMS ID: 14-7701
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Percent Total Solids: 95.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	**7440-38-2**	**Arsenic**	0.2	**2.1**	
3050B	04/24/14	200.8	04/25/14	**7440-47-3**	**Chromium**	0.5	**11.6**	
3050B	04/24/14	200.8	04/25/14	**7440-50-8**	**Copper**	0.5	**12.0**	
3050B	04/24/14	200.8	04/25/14	**7439-92-1**	**Lead**	0.1	**4.0**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: WM-5**
Page 1 of 1 **SAMPLE**

Lab Sample ID: YH76E
LIMS ID: 14-7702
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Percent Total Solids: 92.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	**7440-38-2**	**Arsenic**	0.2	**3.0**	
3050B	04/24/14	200.8	04/25/14	**7440-47-3**	**Chromium**	0.5	**16.8**	
3050B	04/24/14	200.8	04/25/14	**7440-50-8**	**Copper**	0.5	**15.8**	
3050B	04/24/14	200.8	04/25/14	**7439-92-1**	**Lead**	0.1	**5.9**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: WM-6**
Page 1 of 1 **SAMPLE**

Lab Sample ID: YH76F
LIMS ID: 14-7703
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Percent Total Solids: 91.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	**7440-38-2**	**Arsenic**	0.2	**5.3**	
3050B	04/24/14	200.8	04/25/14	**7440-47-3**	**Chromium**	0.5	**12.6**	
3050B	04/24/14	200.8	04/25/14	**7440-50-8**	**Copper**	0.5	**11.9**	
3050B	04/24/14	200.8	04/25/14	**7439-92-1**	**Lead**	0.1	**6.4**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

YH76:6607

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: WM-7**
Page 1 of 1 **SAMPLE**

Lab Sample ID: YH76G
LIMS ID: 14-7704
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

Percent Total Solids: 97.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	**7440-38-2**	**Arsenic**	0.2	**2.2**	
3050B	04/24/14	200.8	04/25/14	**7440-47-3**	**Chromium**	0.5	**9.5**	
3050B	04/24/14	200.8	04/25/14	**7440-50-8**	**Copper**	0.5	**10.4**	
3050B	04/24/14	200.8	04/25/14	**7439-92-1**	**Lead**	0.1	**3.7**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: WM-1**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	3.2	31.2	25.3	111%	
Chromium	200.8	8.4	35.1	25.3	106%	
Copper	200.8	9.0	33.9	25.3	98.4%	
Lead	200.8	4.3	30.8	25.3	105%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

YH76 : 60073

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: WM-1
DUPLICATE

Lab Sample ID: YH76A
LIMS ID: 14-7698
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: 04/22/14
Date Received: 04/23/14

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	3.2	3.6	11.8%	+/- 20%	
Chromium	200.8	8.4	10.2	19.4%	+/- 20%	
Copper	200.8	9.0	11.6	25.2%	+/- 20%	*
Lead	200.8	4.3	4.9	13.0%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: YH76LCS
LIMS ID: 14-7704
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	27.3	25.0	109%	
Chromium	200.8	25.7	25.0	103%	
Copper	200.8	26.0	25.0	104%	
Lead	200.8	25.9	25.0	104%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: YH76MB
LIMS ID: 14-7704
Matrix: Soil
Data Release Authorized:
Reported: 04/28/14

QC Report No: YH76-RH2 Engineering
Project: CMS - Landfill
208.020.01.129
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	04/24/14	200.8	04/25/14	7440-38-2	Arsenic	0.2	0.2	U
3050B	04/24/14	200.8	04/25/14	7440-47-3	Chromium	0.5	0.5	U
3050B	04/24/14	200.8	04/25/14	7440-50-8	Copper	0.5	0.5	U
3050B	04/24/14	200.8	04/25/14	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SXL0021
Client Project/Site: 18593-001-04
Client Project Description: Cashmere Mill

For:
Geo Engineers - Spokane
523 East Second Ave.
Spokane, WA 99202

Attn: Dave Lauder

Authorized for release by:
12/17/2014 4:47:20 PM

Randee Arrington, Project Manager
(509)924-9200
Randee.Arrington@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 15
Chronicle 19
Certification Summary 24
Method Summary 25
Chain of Custody 26

Sample Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXL0021-01	MW-5-12214	Water	12/02/14 12:17	12/04/14 09:15
SXL0021-02	MW-6-12214	Water	12/02/14 13:27	12/04/14 09:15
SXL0021-03	MW-4-12214	Water	12/02/14 14:17	12/04/14 09:15
SXL0021-04	MW-1-12214	Water	12/02/14 15:20	12/04/14 09:15
SXL0021-05	OW-1-12314	Water	12/03/14 08:31	12/04/14 09:15
SXL0021-06	MW-9-12314	Water	12/03/14 09:27	12/04/14 09:15
SXL0021-07	MW-8-12314	Water	12/03/14 10:09	12/04/14 09:15
SXL0021-08	MW-7-12314	Water	12/03/14 11:52	12/04/14 09:15
SXL0021-09	MW-2-12314	Water	12/03/14 12:34	12/04/14 09:15
SXL0021-10	B-1-12314	Water	12/03/14 13:09	12/04/14 09:15
SXL0021-11	MW-3-12314	Water	12/03/14 13:52	12/04/14 09:15
SXL0021-12	MW-Dup-12314	Water	12/03/14 12:00	12/04/14 09:15

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: MW-5-12214

Lab Sample ID: SXL0021-01

Date Collected: 12/02/14 12:17

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 14:31	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:31	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:31	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:31	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:31	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 14:31	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*99.5*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 14:31*	*1.00*
1,2-dichloroethane-d4	*101*		*70 - 140*	*12/04/14 11:50*	*12/04/14 14:31*	*1.00*
Toluene-d8	*100*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 14:31*	*1.00*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 14:31*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 14:31	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 14:31*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.238		mg/L		12/04/14 10:21	12/04/14 17:57	1.00
Heavy Oil Range Hydrocarbons	ND		0.397		mg/L		12/04/14 10:21	12/04/14 17:57	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92.1*		*50 - 150*	*12/04/14 10:21*	*12/04/14 17:57*	*1.00*
n-Triacontane-d62	*92.7*		*50 - 150*	*12/04/14 10:21*	*12/04/14 17:57*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0052**		0.0010		mg/L		12/09/14 00:00	12/09/14 19:15	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:30	1.00

Client Sample ID: MW-6-12214

Lab Sample ID: SXL0021-02

Date Collected: 12/02/14 13:27

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 14:53	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:53	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:53	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:53	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 14:53	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 14:53	1.00

Client Sample ID: MW-6-12214

Lab Sample ID: SXL0021-02

Date Collected: 12/02/14 13:27

Matrix: Water

Date Received: 12/04/14 09:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 14:53*	*1.00*
1,2-dichloroethane-d4	*102*		*70 - 140*	*12/04/14 11:50*	*12/04/14 14:53*	*1.00*
Toluene-d8	*99.9*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 14:53*	*1.00*
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 14:53*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 14:53	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 14:53*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.237		mg/L		12/04/14 10:21	12/04/14 18:20	1.00
Heavy Oil Range Hydrocarbons	ND		0.396		mg/L		12/04/14 10:21	12/04/14 18:20	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88.2*		*50 - 150*	*12/04/14 10:21*	*12/04/14 18:20*	*1.00*
n-Triacontane-d62	*96.6*		*50 - 150*	*12/04/14 10:21*	*12/04/14 18:20*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0054**		0.0010		mg/L		12/09/14 00:00	12/09/14 19:20	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:32	1.00

Client Sample ID: MW-4-12214

Lab Sample ID: SXL0021-03

Date Collected: 12/02/14 14:17

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 15:16	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:16	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:16	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:16	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:16	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 15:16	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 15:16*	*1.00*
1,2-dichloroethane-d4	*105*		*70 - 140*	*12/04/14 11:50*	*12/04/14 15:16*	*1.00*
Toluene-d8	*98.7*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 15:16*	*1.00*
4-bromofluorobenzene	*99.9*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 15:16*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 15:16	1.00

Client Sample ID: MW-4-12214

Lab Sample ID: SXL0021-03

Date Collected: 12/02/14 14:17

Matrix: Water

Date Received: 12/04/14 09:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*99.9*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 15:16*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.232		mg/L		12/04/14 10:21	12/04/14 18:44	1.00
Heavy Oil Range Hydrocarbons	**0.387**		0.387		mg/L		12/04/14 10:21	12/04/14 18:44	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*78.3*		*50 - 150*	*12/04/14 10:21*	*12/04/14 18:44*	*1.00*
n-Triacontane-d62	*80.7*		*50 - 150*	*12/04/14 10:21*	*12/04/14 18:44*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0044**		0.0010		mg/L		12/09/14 00:00	12/09/14 19:39	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:39	1.00

Client Sample ID: MW-1-12214

Lab Sample ID: SXL0021-04

Date Collected: 12/02/14 15:20

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 15:38	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:38	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:38	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:38	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 15:38	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 15:38	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	*100*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 15:38*	*1.00*
1,2-dichloroethane-d4	*103*		*70 - 140*	*12/04/14 11:50*	*12/04/14 15:38*	*1.00*
Toluene-d8	*97.8*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 15:38*	*1.00*
4-bromofluorobenzene	*104*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 15:38*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 15:38	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*104*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 15:38*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.234		mg/L		12/04/14 10:21	12/04/14 19:07	1.00
Heavy Oil Range Hydrocarbons	ND		0.390		mg/L		12/04/14 10:21	12/04/14 19:07	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*90.7*		*50 - 150*	*12/04/14 10:21*	*12/04/14 19:07*	*1.00*

Client Sample ID: MW-1-12214

Lab Sample ID: SXL0021-04

Date Collected: 12/02/14 15:20

Matrix: Water

Date Received: 12/04/14 09:15

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Triacontane-d62	*89.2*		*50 - 150*	*12/04/14 10:21*	*12/04/14 19:07*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0024**		0.0010		mg/L		12/09/14 00:00	12/09/14 19:44	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:41	1.00

Client Sample ID: OW-1-12314

Lab Sample ID: SXL0021-05

Date Collected: 12/03/14 08:31

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 16:01	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:01	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:01	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:01	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:01	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 16:01	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 16:01*	*1.00*
1,2-dichloroethane-d4	*105*		*70 - 140*	*12/04/14 11:50*	*12/04/14 16:01*	*1.00*
Toluene-d8	*100*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 16:01*	*1.00*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 16:01*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 16:01	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 16:01*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.231		mg/L		12/04/14 10:21	12/04/14 19:30	1.00
Heavy Oil Range Hydrocarbons	ND		0.385		mg/L		12/04/14 10:21	12/04/14 19:30	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94.0*		*50 - 150*	*12/04/14 10:21*	*12/04/14 19:30*	*1.00*
n-Triacontane-d62	*90.1*		*50 - 150*	*12/04/14 10:21*	*12/04/14 19:30*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		12/09/14 00:00	12/09/14 19:48	1

Client Sample ID: OW-1-12314

Lab Sample ID: SXL0021-05

Date Collected: 12/03/14 08:31

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:44	1.00

Client Sample ID: MW-9-12314

Lab Sample ID: SXL0021-06

Date Collected: 12/03/14 09:27

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 16:23	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:23	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:23	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:23	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:23	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 16:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 16:23*	*1.00*
1,2-dichloroethane-d4	*104*		*70 - 140*	*12/04/14 11:50*	*12/04/14 16:23*	*1.00*
Toluene-d8	*98.3*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 16:23*	*1.00*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 16:23*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 16:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 16:23*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.233		mg/L		12/04/14 10:21	12/04/14 19:53	1.00
Heavy Oil Range Hydrocarbons	ND		0.388		mg/L		12/04/14 10:21	12/04/14 19:53	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97.2*		*50 - 150*	*12/04/14 10:21*	*12/04/14 19:53*	*1.00*
n-Triacontane-d62	*91.7*		*50 - 150*	*12/04/14 10:21*	*12/04/14 19:53*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0054**		0.0010		mg/L		12/09/14 00:00	12/09/14 19:53	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:46	1.00

Client Sample ID: MW-8-12314

Lab Sample ID: SXL0021-07

Date Collected: 12/03/14 10:09

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 16:46	1.00

Client Sample ID: MW-8-12314

Lab Sample ID: SXL0021-07

Date Collected: 12/03/14 10:09

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:46	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:46	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:46	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 16:46	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 16:46	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*99.7*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 16:46*	*1.00*
1,2-dichloroethane-d4	*104*		*70 - 140*	*12/04/14 11:50*	*12/04/14 16:46*	*1.00*
Toluene-d8	*96.0*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 16:46*	*1.00*
4-bromofluorobenzene	*100*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 16:46*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 16:46	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*100*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 16:46*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.238		mg/L		12/04/14 10:21	12/04/14 20:16	1.00
Heavy Oil Range Hydrocarbons	ND		0.397		mg/L		12/04/14 10:21	12/04/14 20:16	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91.8*		*50 - 150*	*12/04/14 10:21*	*12/04/14 20:16*	*1.00*
n-Triacontane-d62	*88.7*		*50 - 150*	*12/04/14 10:21*	*12/04/14 20:16*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0065**		0.0010		mg/L		12/09/14 00:00	12/09/14 19:57	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:48	1.00

Client Sample ID: MW-7-12314

Lab Sample ID: SXL0021-08

Date Collected: 12/03/14 11:52

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 17:09	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:09	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:09	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:09	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:09	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 17:09	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 17:09*	*1.00*
1,2-dichloroethane-d4	*106*		*70 - 140*	*12/04/14 11:50*	*12/04/14 17:09*	*1.00*

Client Sample ID: MW-7-12314

Lab Sample ID: SXL0021-08

Date Collected: 12/03/14 11:52

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8	*96.6*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 17:09*	*1.00*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 17:09*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 17:09	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*101*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 17:09*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.231		mg/L		12/04/14 10:21	12/04/14 20:39	1.00
Heavy Oil Range Hydrocarbons	ND		0.385		mg/L		12/04/14 10:21	12/04/14 20:39	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88.5*		*50 - 150*	*12/04/14 10:21*	*12/04/14 20:39*	*1.00*
n-Triacontane-d62	*88.8*		*50 - 150*	*12/04/14 10:21*	*12/04/14 20:39*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0093**		0.0010		mg/L		12/09/14 00:00	12/09/14 20:06	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:50	1.00

Client Sample ID: MW-2-12314

Lab Sample ID: SXL0021-09

Date Collected: 12/03/14 12:34

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 17:31	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:31	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:31	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:31	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:31	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 17:31	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 17:31*	*1.00*
1,2-dichloroethane-d4	*107*		*70 - 140*	*12/04/14 11:50*	*12/04/14 17:31*	*1.00*
Toluene-d8	*97.7*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 17:31*	*1.00*
4-bromofluorobenzene	*99.3*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 17:31*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 17:31	1.00

Client Sample ID: MW-2-12314

Lab Sample ID: SXL0021-09

Date Collected: 12/03/14 12:34

Matrix: Water

Date Received: 12/04/14 09:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*99.3*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 17:31*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.232		mg/L		12/04/14 10:21	12/04/14 21:26	1.00
Heavy Oil Range Hydrocarbons	ND		0.386		mg/L		12/04/14 10:21	12/04/14 21:26	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*91.5*		*50 - 150*	*12/04/14 10:21*	*12/04/14 21:26*	*1.00*
n-Triacontane-d62	*83.1*		*50 - 150*	*12/04/14 10:21*	*12/04/14 21:26*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0071**		0.0010		mg/L		12/09/14 00:00	12/09/14 20:11	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:53	1.00

Client Sample ID: B-1-12314

Lab Sample ID: SXL0021-10

Date Collected: 12/03/14 13:09

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 17:53	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:53	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:53	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:53	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 17:53	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 17:53	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	*101*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 17:53*	*1.00*
1,2-dichloroethane-d4	*107*		*70 - 140*	*12/04/14 11:50*	*12/04/14 17:53*	*1.00*
Toluene-d8	*97.0*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 17:53*	*1.00*
4-bromofluorobenzene	*99.1*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 17:53*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 17:53	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*99.1*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 17:53*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	**0.447**		0.232		mg/L		12/04/14 10:21	12/04/14 21:49	1.00
Heavy Oil Range Hydrocarbons	ND		0.386		mg/L		12/04/14 10:21	12/04/14 21:49	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*99.1*		*50 - 150*	*12/04/14 10:21*	*12/04/14 21:49*	*1.00*

Client Sample ID: B-1-12314

Lab Sample ID: SXL0021-10

Date Collected: 12/03/14 13:09

Matrix: Water

Date Received: 12/04/14 09:15

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Triacontane-d62	*93.4*		*50 - 150*	*12/04/14 10:21*	*12/04/14 21:49*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		12/09/14 00:00	12/09/14 20:15	10

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:55	1.00

Client Sample ID: MW-3-12314

Lab Sample ID: SXL0021-11

Date Collected: 12/03/14 13:52

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 18:15	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:15	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:15	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:15	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:15	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 18:15	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 18:15*	*1.00*
1,2-dichloroethane-d4	*108*		*70 - 140*	*12/04/14 11:50*	*12/04/14 18:15*	*1.00*
Toluene-d8	*94.8*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 18:15*	*1.00*
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 18:15*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 18:15	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 18:15*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.229		mg/L		12/04/14 10:21	12/04/14 22:12	1.00
Heavy Oil Range Hydrocarbons	ND		0.382		mg/L		12/04/14 10:21	12/04/14 22:12	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75.3*		*50 - 150*	*12/04/14 10:21*	*12/04/14 22:12*	*1.00*
n-Triacontane-d62	*72.2*		*50 - 150*	*12/04/14 10:21*	*12/04/14 22:12*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0022**		0.0010		mg/L		12/09/14 00:00	12/09/14 20:20	1

Client Sample ID: MW-3-12314

Lab Sample ID: SXL0021-11

Date Collected: 12/03/14 13:52

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:57	1.00

Client Sample ID: MW-Dup-12314

Lab Sample ID: SXL0021-12

Date Collected: 12/03/14 12:00

Matrix: Water

Date Received: 12/04/14 09:15

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 18:38	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:38	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:38	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:38	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 18:38	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 18:38	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 18:38*	*1.00*
1,2-dichloroethane-d4	*106*		*70 - 140*	*12/04/14 11:50*	*12/04/14 18:38*	*1.00*
Toluene-d8	*97.4*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 18:38*	*1.00*
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 18:38*	*1.00*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 18:38	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 18:38*	*1.00*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.231		mg/L		12/04/14 10:21	12/04/14 22:35	1.00
Heavy Oil Range Hydrocarbons	ND		0.385		mg/L		12/04/14 10:21	12/04/14 22:35	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88.3*		*50 - 150*	*12/04/14 10:21*	*12/04/14 22:35*	*1.00*
n-Triacontane-d62	*84.8*		*50 - 150*	*12/04/14 10:21*	*12/04/14 22:35*	*1.00*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0020**		0.0010		mg/L		12/09/14 00:00	12/09/14 22:41	1

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 15:00	1.00

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Lab Sample ID: 14L0028-BLK1
Matrix: Water
Analysis Batch: 14L0028

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14L0028_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.500		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
Benzene	ND		0.200		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
Toluene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
Ethylbenzene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
m,p-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
o-Xylene	ND		0.500		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
Naphthalene	ND		2.00		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
1,2-Dichloroethane (EDC)	ND		0.500		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
1,2-Dibromoethane	ND		1.00		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
Xylenes (total)	ND		1.50		ug/L		12/04/14 11:50	12/04/14 13:23	1.00
Hexane	ND		1.00		ug/L		12/04/14 11:50	12/04/14 13:23	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*99.6*		*71.2 - 143*	*12/04/14 11:50*	*12/04/14 13:23*	*1.00*
1,2-dichloroethane-d4	*100*		*70 - 140*	*12/04/14 11:50*	*12/04/14 13:23*	*1.00*
Toluene-d8	*99.7*		*74.1 - 135*	*12/04/14 11:50*	*12/04/14 13:23*	*1.00*
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 13:23*	*1.00*

Lab Sample ID: 14L0028-BS1
Matrix: Water
Analysis Batch: 14L0028

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14L0028_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	11.0		ug/L		110	80 - 128
Benzene	10.0	10.8		ug/L		108	80 - 122
Toluene	10.0	10.6		ug/L		106	80 - 123
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120
m,p-Xylene	10.0	10.6		ug/L		106	80 - 120
o-Xylene	10.0	10.7		ug/L		107	80 - 120
Naphthalene	10.0	9.38		ug/L		93.8	62.8 - 132
Xylenes (total)	20.0	21.2		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*100*		*71.2 - 143*
1,2-dichloroethane-d4	*106*		*70 - 140*
Toluene-d8	*97.3*		*74.1 - 135*
4-bromofluorobenzene	*99.6*		*68.7 - 141*

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

Lab Sample ID: 14L0028-BLK1
Matrix: Water
Analysis Batch: 14L0028

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14L0028_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/L		12/04/14 11:50	12/04/14 13:23	1.00

Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx (Continued)

Lab Sample ID: 14L0028-BLK1
Matrix: Water
Analysis Batch: 14L0028

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14L0028_P

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	*102*		*68.7 - 141*	*12/04/14 11:50*	*12/04/14 13:23*	*1.00*

Lab Sample ID: 14L0028-BS2
Matrix: Water
Analysis Batch: 14L0028

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14L0028_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Hydrocarbons			1000	893		ug/L		89.3	80 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-bromofluorobenzene	*94.2*		*68.7 - 141*

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Lab Sample ID: 14L0026-BLK1
Matrix: Water
Analysis Batch: 14L0026

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14L0026_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.240		mg/L		12/04/14 10:21	12/04/14 17:11	1.00
Heavy Oil Range Hydrocarbons	ND		0.400		mg/L		12/04/14 10:21	12/04/14 17:11	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*86.0*		*50 - 150*	*12/04/14 10:21*	*12/04/14 17:11*	*1.00*
n-Triacontane-d62	*96.6*		*50 - 150*	*12/04/14 10:21*	*12/04/14 17:11*	*1.00*

Lab Sample ID: 14L0026-BS1
Matrix: Water
Analysis Batch: 14L0026

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14L0026_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Hydrocarbons			3.20	2.34		mg/L		73.2	50 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	*96.4*		*50 - 150*
n-Triacontane-d62	*98.4*		*50 - 150*

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 250-32843/1-A
Matrix: Water
Analysis Batch: 32883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		12/09/14 00:00	12/09/14 18:38	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 250-32843/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 32883 — **Prep Batch: 32843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.101		mg/L		101	85 - 115

Lab Sample ID: 250-23181-7 MS — **Client Sample ID: SXL0021-07**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 32883 — **Prep Batch: 32843**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0065		0.100	0.111		mg/L		104	70 - 130

Lab Sample ID: 250-23222-A-2-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 32883 — **Prep Batch: 32843**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND		ND		mg/L		NC	20

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Lab Sample ID: 14L0087-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 14L0087 — **Prep Batch: 14L0087_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		12/16/14 08:53	12/16/14 14:14	1.00

Lab Sample ID: 14L0087-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 14L0087 — **Prep Batch: 14L0087_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.07		ug/L		104	85 - 115

Lab Sample ID: 14L0087-MS1 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 14L0087 — **Prep Batch: 14L0087_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	5.10		ug/L		102	70 - 130

Lab Sample ID: 14L0087-MSD1 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 14L0087 — **Prep Batch: 14L0087_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	ıtrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	5.12		ug/L		102	70 - 130	0.489	18.2

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Method: EPA 245.1 - Total Metals by EPA 200 Series Methods (Continued)

Lab Sample ID: 14L0087-DUP1
Matrix: Water
Analysis Batch: 14L0087

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 14L0087_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		ug/L					17.1

Client Sample ID: MW-5-12214

Lab Sample ID: SXL0021-01

Date Collected: 12/02/14 12:17

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 14:31	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 14:31	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.992	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 17:57	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 19:15	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:30	ZZZ	TAL SPK

Client Sample ID: MW-6-12214

Lab Sample ID: SXL0021-02

Date Collected: 12/02/14 13:27

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 14:53	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 14:53	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.989	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 18:20	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 19:20	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:32	ZZZ	TAL SPK

Client Sample ID: MW-4-12214

Lab Sample ID: SXL0021-03

Date Collected: 12/02/14 14:17

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 15:16	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 15:16	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.966	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 18:44	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 19:39	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:39	ZZZ	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Client Sample ID: MW-1-12214

Lab Sample ID: SXL0021-04

Date Collected: 12/02/14 15:20

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 15:38	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 15:38	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.976	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 19:07	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 19:44	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:41	ZZZ	TAL SPK

Client Sample ID: OW-1-12314

Lab Sample ID: SXL0021-05

Date Collected: 12/03/14 08:31

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 16:01	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 16:01	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.962	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 19:30	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 19:48	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:44	ZZZ	TAL SPK

Client Sample ID: MW-9-12314

Lab Sample ID: SXL0021-06

Date Collected: 12/03/14 09:27

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 16:23	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 16:23	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.969	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 19:53	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 19:53	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:46	ZZZ	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Client Sample ID: MW-8-12314

Lab Sample ID: SXL0021-07

Date Collected: 12/03/14 10:09

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 16:46	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 16:46	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.993	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 20:16	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 19:57	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:48	ZZZ	TAL SPK

Client Sample ID: MW-7-12314

Lab Sample ID: SXL0021-08

Date Collected: 12/03/14 11:52

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 17:09	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 17:09	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.963	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 20:39	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 20:06	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:50	ZZZ	TAL SPK

Client Sample ID: MW-2-12314

Lab Sample ID: SXL0021-09

Date Collected: 12/03/14 12:34

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 17:31	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 17:31	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.965	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 21:26	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 20:11	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:53	ZZZ	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Client Sample ID: B-1-12314

Lab Sample ID: SXL0021-10

Date Collected: 12/03/14 13:09

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 17:53	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 17:53	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.966	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 21:49	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		10	32883	12/09/14 20:15	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:55	ZZZ	TAL SPK

Client Sample ID: MW-3-12314

Lab Sample ID: SXL0021-11

Date Collected: 12/03/14 13:52

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 18:15	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 18:15	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.955	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 22:12	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 20:20	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 14:57	ZZZ	TAL SPK

Client Sample ID: MW-Dup-12314

Lab Sample ID: SXL0021-12

Date Collected: 12/03/14 12:00

Matrix: Water

Date Received: 12/04/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	EPA 8260C		1.00	14L0028	12/04/14 18:38	MS	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	14L0028_P	12/04/14 11:50	MS	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	14L0028	12/04/14 18:38	MS	TAL SPK
Total	Prep	EPA 3510/600 Series		0.963	14L0026_P	12/04/14 10:21	NI	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14L0026	12/04/14 22:35	NMI	TAL SPK
Total/NA	Prep	200.8			32843	12/09/14 00:00	TNL	TAL PRT
Total/NA	Analysis	200.8		1	32883	12/09/14 22:41	TNL	TAL PRT
Total	Prep	EPA 200 Series		1.00	14L0087_P	12/16/14 08:53	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14L0087	12/16/14 15:00	ZZZ	TAL SPK

Lab Chronicle

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-15
Washington	State Program	10	C569	01-06-15

Laboratory: TestAmerica Portland

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C586	06-23-15

Method Summary

Client: Geo Engineers - Spokane
Project/Site: 18593-001-04

TestAmerica Job ID: SXL0021

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup		TAL SPK
200.8	Metals (ICP/MS)	EPA	TAL PRT
EPA 245.1	Total Metals by EPA 200 Series Methods		TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 [X]
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210 [ ]
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210 [ ]

CHAIN OF CUSTODY REPORT

Work Order #: SXL0021

CLIENT: GeoEngineers

INVOICE TO:

REPORT TO: Dave Lauder dlauder@geoengineers.com
ADDRESS: 523 E Second Ave
Spokane WA 99202
PHONE: 509-363-3125 FAX: 509-363-3126

P.O. NUMBER:

PROJECT NAME: Former Cashmere mill site
PROJECT NUMBER: 18593-001-04
SAMPLED BY: JWR

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: [10] STD. [7] [5] [4] [3] [2] [1] [<1]
Petroleum Hydrocarbon Analyses: [5] STD. [4] [3] [2] [1] [<1]
[OTHER] Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		PRESERVATIVE	REQUESTED ANALYSES: NWTPH-Gx	NWTPH-Dx (w/silica gel)	BTEX	arsenic	mercury	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	MW-5-12214	12/2/14	1217		X	X	X	X	X	W	4		
2	MW-6-12214		1327										
3	MW-4-12214		1417										
4	MW-1-12214		1520										
5													
6													
7													
8													
9													
10													

RELEASED BY: JR
PRINT NAME: Justin Rice FIRM: Geo DATE: 12-4-14 TIME: 0915

RECEIVED BY: Cat Stapleton
PRINT NAME: FIRM: TestAmerica DATE: 12-4-14 TIME: 915

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:
GRPH, DRPH/ORPH (with silica gel cleanup), BTEX, arsenic, mercury

TEMP: 3.4

TAL-1000 (0714)

12/17/2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290 X
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: XL0024

CLIENT: GeoEngineers

REPORT TO: Dave Lauder dlauder@geoengineers.com

ADDRESS: 523 E Second Ave
Spokane WA 99202

PHONE: 509-363-3125 FAX: 509-363-3126

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: Former Cashmere Mill Site

PROJECT NUMBER: 18593-001-04

SAMPLED BY: JWR

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: ~~10~~ STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: ~~5~~ STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH Gx	NWTPH Dx	BTEX	Arsenic	Mercury	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
			PRESERVATIVE								
1	OW-1-12314	12/3/14 0831	X	X	X	X	X	W	4		
2	MW-9-12314	0927									
3	MW-8-12314	1009									
4	MW-7-12314	1152									
5	MW-2-12314	1234									
6	B-1-12314	1309									
7	MW-3-12314	1352									
8	MW-DUP-12314	1200									
9											
10											

RELEASED BY: PRINT NAME: Justin Rice FIRM: GeoEngineers DATE: 12-4-14 TIME: 0915

RECEIVED BY: PRINT NAME: Cat Stapleton FIRM: TestAmerica DATE: 12-4-14 TIME: 9:15

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP: 3.4

PAGE 2 OF 2

TAL-1000 (0714)

12/17/2014

TestAmerica Spokane
Sample Receipt Form

Work Order #: SXL0021	Client: GeoEngineers	Project: Former Cashmere
Date/Time Received: 12-4-14 9:15	By: CS	

Samples Delivered By: ☐Shipping Service ☐Courier ☒Client ☐Other: _____

List Air Bill Number(s) or Attach a photocopy of the Air Bill:

Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			

Thermal Preservation Type: ☐Blue Ice ☐Gel Ice ☒Real Ice ☐Dry Ice ☐None ☐Other: _____

Temperature: 3.4 °C Thermometer (Circle **one** Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6

Temperature out of range: ☐Not enough ice ☐Ice melted ☐w/in 4hrs of collection ☐NA ☐Other: _____

Log-In Phase Date/Time: 12-4-14 9:50 By: CS	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)	X			
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis			X	
Are there any short hold time tests (see chart below)			X	
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated # _____			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

APPENDIX C
Disposal Documentation
(On attached CD)

APPENDIX C
DISPOSAL DOCUMENTATION
(ON ATTACHED CD)

Daily load tickets from Waste Management Greater Wenatchee Regional Landfill are provided in this appendix. Disposal documents for large concrete debris also are included in this appendix.

Have we delivered World Class Client Service?

Please let us know by visiting **www.geoengineers.com/feedback**.

GeoEngineers