

FOCUSED SITE ASSESSMENT REPORT

FORMER TERRY'S AUTO SALVAGE PROPERTY



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Prepared by
Maul Foster & Alongi, Inc.
1329 North State Street, Suite 301
Bellingham, WA 98225

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*The material and data in this report were prepared
under the supervision and direction of the undersigned.*

MAUL FOSTER & ALONGI, INC.



HEATHER R. HIRSCH

Heather Hirsch, LHG
Project Hydrogeologist

Alan R. Hughes, LG
Senior Geologist

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ACRONYMS AND ABBREVIATIONS

ASTM	American Society for Testing and Materials
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
City	City of Kelso
COI	chemical of interest
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CSM	conceptual site model
CUL	cleanup level
Ecology	Washington State Department of Ecology
HCID	hydrocarbon identification
IHS	indicator hazardous substance
MFA	Maul Foster & Alongi, Inc.
MTCA	Model Toxics Control Act
NWTPH	Northwest Total Petroleum Hydrocarbon
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PID	photoionization detector
POC	point of compliance
Property	former Terry's Auto Salvage property
SA	Specialty Analytical
SIM	selective ion monitoring
SVOC	semivolatile organic compound
TEQ	toxic equivalency quotient
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound
WBZ	water-bearing zone

1 INTRODUCTION

On behalf of the City of Kelso (the City), Maul Foster & Alongi, Inc. (MFA) has prepared this focused site assessment report for the former Terry's Auto Salvage property (the Property), facility site ID 67329718, located at 1124 North Pacific Avenue in Kelso, Washington (see Figure 1). The Property is currently vacant but historically was used as an auto salvage yard. Former activities on the Property include dismantling of wrecked and decommissioned vehicles, stockpiling of auto parts, and parts cleaning.

1.1 Regulatory Framework

The City received an Integrated Planning Grant from the Washington State Department of Ecology (Ecology) and a U.S. Environmental Protection Agency (USEPA) Brownfield Assessment Grant to support the environmental characterization, planning, and cleanup of the Property and its redevelopment into a revitalized asset for the community. The purpose of this focused site assessment is to characterize the nature and extent of hazardous substances, evaluate potential risk to human and ecological receptors, and develop potential cleanup alternatives. This investigation has been completed for the Property to address the substantive requirements of Washington Administrative Code 173-340 of the Model Toxics Control Act (MTCA). The investigation was conducted consistent with industry standard techniques.

1.2 Site Assessment Objectives

Previous assessments conducted on the Property detected lube-oil-range petroleum hydrocarbon impacts in shallow soil above MTCA cleanup levels (CULs) and identified potential environmental conditions that may have resulted in impacts to soil and/or groundwater on the Property (see Section 2.4). The focused site assessment was completed to assess known environmental impacts and potential environmental concerns. Site assessment objectives included the following:

- Developing a conceptual site model (CSM) and data quality objectives for site characterization.
- Characterizing the nature and extent of hazardous substances in environmental media above relevant CULs and potential sources of contamination.
- Evaluating potential risk to current and reasonably likely future human and ecological receptors, as appropriate.
- Evaluating potential cleanup options for impacted media.

2 BACKGROUND

2.1 Site Description

The physical address for the Property is 1124 North Pacific Avenue in Kelso, Washington (see Figure 1). The Property comprises two triangular-shaped tax parcels (parcel numbers 20476 and 20489) bordered by Redpath Street to the north, 1st Avenue North and residential properties to the east, and North Pacific Avenue to the west. The Property is zoned for multifamily housing and is on the edge of a single-family-housing neighborhood.

The Property is located in section 27 of township 8 north and range 2 west of the Willamette Meridian. The northwest parcel (parcel number 20476) is approximately 0.51 acre and the southeast parcel (parcel number 20489) is approximately 0.21 acre.

A former garage/office building has been removed and there are no structures on the Property at this time. The ground surface is unpaved, with little vegetation and only a few trees and shrubs. There is a downward slope from the North Pacific Avenue to the center of the Property along and a depression in the location of the former building, but otherwise, the parcels are generally flat. The Property is located approximately 500 feet east of the Cowlitz River. An active Burlington Northern Santa Fe rail line runs north-south between the Property and the river.

2.2 Site History

The Property was used as an auto salvage yard since the 1950s. The operations left the Property in a degraded condition, with stockpiles of old tires, scrap cars, and automotive parts (see Figure 2). By 2010, operations at the Property ceased and the Property was abandoned. As part of a Neighborhood Stabilization Program grant, the City removed the derelict garage/office building and debris (e.g., tires, junk cars, auto parts) left on the Property. Demolition of the building was completed in November 2010. The Property was in arrears on taxes and the City initiated foreclosure in 2012.

2.3 Previous Investigations

There is a history of complaints concerning improper handling of hazardous materials and waste on the Property, which resulted in Ecology site visits in 1996, 1999, and 2002 (Ecology, 1999a,b; 2002). Ecology staff instructed the property owner to clean up contaminated areas; however, concerns with the Property continued and Ecology received further complaints. In response to complaints from neighbors regarding spills of waste motor oil and other automobile fluids, Ecology conducted an initial investigation of the Property in 2002 (Ecology, 2002).

During the initial investigation, Ecology collected two surface soil samples from the Property. The approximate sample locations are shown in Figure 2. The samples were analyzed for petroleum

hydrocarbons. Lube oil was identified in both samples at concentrations above the MTCA Method A CUL for unrestricted land use.

The Property was subsequently listed on the Washington State Confirmed and Suspected Contaminated Sites list. In 2004, a site hazard assessment was conducted (Ecology, 2004), resulting in a hazard ranking of 2 (with 1 as the highest risk and 5 the lowest risk).

2.4 Potential Environmental Conditions

The sampling approach was designed to investigate the following potential environmental conditions identified on the Property (as shown in Figure 2):

- Parts dismantling and potential parts cleaning activities in the former garage/office building
- Potential parts cleaning in the area east of the former garage/office building
- Miscellaneous debris and wrecked-vehicle storage areas
- Former tire storage area
- Former 55-gallon drum storage area
- Potential petroleum spills and/or leaks across the Property, but in particular along the fence line

MFA identified the following chemicals of interest (COIs) associated with the potential environmental conditions mentioned above: petroleum hydrocarbons, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and metals (arsenic, aluminum, cadmium, chromium, copper, lead, mercury, nickel, and zinc).

2.5 Geology and Hydrogeology

The site geology generally consists of an approximately 1-foot-thick surficial layer of gravel and gravelly sand with debris. Large debris was removed from the Property during the site demolition and clearing, but trace amounts of auto scrap debris remain scattered across the ground surface and within the first foot of soil, consisting of bits of wire, glass, plastic, and metal, and chunks of wood and tire. Underlying the surficial gravel and debris is a unit consisting of silt and sand extending to approximately 17 feet below ground surface (bgs). During sampling, a layer of dark gray sand was encountered at 17 feet bgs, which generally coarsened with depth and extended to approximately 35 feet bgs. Gravel was encountered at 35 feet bgs. The soil types encountered at the site are consistent with Quaternary alluvial deposits known to exist in the area, which likely were deposited by the Cowlitz River.

Groundwater was encountered between 0 and 6 feet bgs (see Table 1); the shallowest groundwater was encountered in the depression left by the removal of the building. Soil was fully saturated from the top of the water table to the maximum depth explored (40 feet bgs), suggesting that there is one

unconfined and continuous water-bearing zone (WBZ) extending from the ground surface to an unknown depth greater than 40 feet bgs. Three monitoring wells were installed in the deeper part of the WBZ, screened from approximately 35 to 40 feet bgs, to evaluate potential impacts observed in reconnaissance samples. Groundwater elevations and interpreted contours for the deep groundwater potentiometric surface are shown in Figure 3. Deep groundwater appears to be flowing toward the south. Shallow groundwater levels measured in the temporary boreholes suggest shallow flow toward the northeast; however, groundwater elevation measurements collected from reconnaissance borings may be unreliable.

3 FIELD AND ANALYTICAL METHODS

The site assessment was conducted in two phases. The first phase of investigation was conducted in March 2012 and focused on evaluating areas of the Property for the presence of chemical impacts associated with the potential environmental conditions. The investigation included evaluation of soil and groundwater for potential COIs, determination of a groundwater flow direction, and collection of geological observations.

The second phase of the investigation included further evaluation of the lateral and vertical extent of observed chemical impacts in soil, and monitoring well installation and sampling to evaluate potential groundwater impacts, based on analytical results from the first phase. The second phase of the investigation was conducted in May and June 2012.

The investigations included collection of samples at the following locations (see Figure 2):

- **GP01, GP11, HA04, HA05:** Collection of soil and groundwater (GP01 and GP11 only) samples to obtain adequate lateral sample coverage on the Property
- **GP02:** Collection of soil samples to evaluate potential chemical impacts associated with the former tire pile
- **GP03, GP07, GP08:** Collection of soil samples to evaluate potential chemical impacts along the fence line
- **GP04, GP09, GP10, HA01:** Collection of soil and groundwater (GP09 and GP10 only) samples to evaluate potential chemical impacts associated with parts dismantling and possible parts cleaning activities
- **GP05, GP06, HA02, HA03, HA06, HA07:** Collection of soil samples to evaluate potential chemical impacts associated with miscellaneous debris and wrecked-vehicle storage areas
- **GP12 to GP16, HA11, HA12, MW03:** Collection of soil samples to laterally and vertically constrain chemical impacts observed during the first phase of investigation

- **HA08 to HA10, HA13 to HA15:** Collection of soil samples to evaluate the potential for off-property migration of chemical impacts observed during the first phase of investigation
- **MW01 to MW03:** Installation and sampling of monitoring wells to confirm chemical impacts in the deeper WBZ observed in reconnaissance groundwater samples collected during the first phase of investigation and to determine the groundwater flow direction

All environmental sampling, measurement, and quality control procedures were conducted in accordance with industry standard operating procedures as described in the Sampling and Analysis Plan (included as Appendix A).

3.1 Soil Sampling

Soil samples were collected from soil borings (“GP” locations and MW03) and by hand auger (“HA” locations; see Figure 2 for sample locations). A direct-push drilling rig was used to advance continuous soil cores at 19 boring locations from the ground surface up to 40 feet bgs.¹ Most borings were advanced to 5 feet bgs to evaluate potential shallow soil impacts; some borings were advanced to 10 feet bgs to evaluate potential soil impacts above the water table and also to collect shallow groundwater reconnaissance samples; a few borings were advanced to 40 feet bgs to evaluate potential soil impacts above the water table and also to collect shallow and deep groundwater reconnaissance samples.² Fifteen hand auger borings were advanced to 2 feet bgs to obtain more extensive lateral coverage of shallow soil samples. Boring logs are provided as Appendix A and sampling depths are summarized in Table 2. Soil samples were generally collected from the following depth intervals: ground surface to 1.0 foot bgs, 1 to 2 feet bgs, 2 to 5 feet bgs, and then from every additional 5-foot interval after that to the maximum boring depth. Soil conditions were described and visual and olfactory observations were recorded. Boring and hand auger locations were recorded using a hand-held global positioning system device.

Samples were submitted to Specialty Analytical (SA) of Clackamas, Oregon, for analysis under standard chain-of-custody procedures. All samples collected from the ground surface to 1.0 foot bgs depth interval were analyzed. Additional samples for analysis and follow-up analyses were selected based on observed impacts, initial analytical results, and/or information from the first-phase investigation. Soil samples submitted for analysis are summarized in Table 2.

During the first phase of investigation, the following tiered approach was used for the soil sample analysis:

¹ This total includes the monitoring well installation locations MW01, MW02, and MW03. Location MW03 is the only monitoring well boring from which soil samples were collected.

² Reconnaissance groundwater samples were not collected from the monitoring well installation locations (MW01 to MW03).

- The two shallowest soil samples were analyzed for hydrocarbon identification (HCID) by the Northwest Total Petroleum Hydrocarbon (NWTPH) HCID method and for selected metals by USEPA Methods 6010, 6020, and 7471.³
- If hydrocarbons were detected by NWTPH-HCID, additional analyses were requested for that sample as well as for the sample collected from the next depth interval.
- The following additional analyses were requested for samples with lube- or diesel-range hydrocarbon detections:
 - Diesel- and heavy-oil-range hydrocarbons by the NWTPH-Dx method
 - SVOCs by USEPA method 8270B
 - PCBs by USEPA Method 8082 (for selected samples)
- The following additional analyses were requested for samples with gasoline detections:
 - Gasoline-range hydrocarbons by the NWTPH-Gx method
 - VOCs by USEPA Method 8260

During the second phase of investigation, soil sample analyses were selected on a case-by-case basis to evaluate the nature and extent of chemical impacts observed during the first phase of the investigation (see Table 2). With the exception of NWTPH-HCID, second-phase analyses included those listed above.

3.2 Groundwater Sampling

Reconnaissance groundwater samples were collected from the top of the water table and from a 35- to 40-foot-bgs screened interval depth (the maximum depth explored in the surficial aquifer) from selected borings (GP01, GP09, GP10, and GP11; see Figure 2 and Table 2). The water table samples were collected to evaluate the potential for light nonaqueous-phase liquid chemical release (e.g., petroleum hydrocarbons), while the deep groundwater samples were collected to evaluate potential density-driven impacts characteristic of a dense nonaqueous-phase liquid release (e.g., chlorinated solvents). Groundwater samples were also collected from site monitoring wells (screened from 35 to 40 feet bgs) to substantiate chemical impacts observed in the first phase reconnaissance groundwater samples from the same depth. Monitoring well locations, including water level measurement point elevations, were surveyed.

Groundwater samples were submitted to SA for analysis under standard chain-of-custody procedures. All reconnaissance groundwater samples collected during the first phase of the investigation were analyzed for the following:

- Selected metals by USEPA methods 6010, 6020, and 7470
- Diesel- and heavy-oil-range hydrocarbons by the NWTPH-Dx method

³ NWTPH-HCID analysis was requested for all soil samples collected from locations GP09 and GP10.

- Gasoline-range hydrocarbons by the NWTPH-Gx method
- VOCs by USEPA Method 8260
- PAHs by USEPA Method 8270 selective ion monitoring (SIM)

Groundwater samples collected from the monitoring wells during the second phase of the investigation were analyzed for the following:

- Arsenic by USEPA Method 6020
- PAHs by USEPA Method 8270 SIM

4 ANALYTICAL RESULTS

Laboratory analytical reports are provided as Appendix B. Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they meet project-specific data quality objectives. This review was performed consistent with accepted USEPA procedures for evaluating laboratory analytical data (USEPA, 2004, 2008) and appropriate laboratory and method-specific guidelines (SA, 2012). Data validation memoranda summarizing data evaluation procedures, usability of data, and deviations from specific field and/or laboratory methods for the March and May/June 2012 investigation data are presented as Appendix C. The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

4.1 Soil

Soil analytical results are summarized in Table 3. Eighty-one soil samples were collected from 17 boring locations, and 30 soil samples were collected with a hand auger from 15 locations (see Table 2 and Figure 2).⁴ In total, 70 soil samples were analyzed for specific COIs related to the potential environmental conditions.

Fifty-one samples were analyzed for metals, and detections were observed in all but two locations tested (GP15 and HA08). Metals were detected throughout the Property, in one location in the public right-of-way (HA09) and on a neighboring property (HA13 to HA15), in no apparent pattern, and at all depths explored (most samples were collected from 0 to 3.6 feet bgs, with two exceptions [GP01 from 5 to 5.8 feet bgs and GP11 from 5 to 7.5 feet bgs]). The highest concentrations were generally observed in the upper 1 foot bgs. The following metals were detected in soil: aluminum, arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc.

Petroleum hydrocarbons were identified in 23 of the samples analyzed, and follow-up analyses were completed to quantify the results. Petroleum hydrocarbons were detected on both parcels; the highest concentrations were in the central area of the northern parcel. Detections were primarily at

⁴ Soil samples were not collected from monitoring well locations MW01 or MW02.

depths ranging from 0 to 2 feet bgs, with two exceptions (GP 13 from 2 to 3.5 feet bgs and GP01 from 5 to 5.8 feet bgs). Based on the quantified petroleum hydrocarbon results, the appropriate constituent analyses were completed for VOCs; benzene, toluene, ethylbenzene, and xylenes (BTEX); PAHs; PCBs; and/or SVOCs.

Ten soil samples were analyzed for VOCs or BTEX. Of the samples analyzed, compounds were detected in five surface soil (0 to 1.5 feet bgs) samples from the central area of the northern parcel.

Twenty samples were analyzed for SVOCs and five samples were analyzed for PAHs. Many SVOCs and PAHs were detected in soil from 0 to 2.0 feet bgs from both parcels; the highest concentrations were in the central area of the northern parcel.

Eighteen samples were analyzed for PCBs, and one or more PCB compounds were detected in each sample analyzed. PCBs were detected primarily at depths ranging from 0 to 3.5 feet bgs, with one exception (GP01 from 5 to 5.8 feet), on both parcels, and the highest concentrations were in the central area of the northern parcel.

Generally, non-metals were detected in soil from 0 to 3.5 feet bgs, with the highest concentrations in the central area of the northern parcel. Metals were detected in soil throughout the Property and on the neighboring property and public right-of-way. Metals were detected primarily from 0 to 3.6 feet bgs, with the highest concentrations from 0 to 1 foot bgs. The risk screening (see Section 6) includes a discussion of soil chemical detections compared to their respective CULs.

4.2 Groundwater

Groundwater analytical results and water quality data are summarized in Tables 4 and 5, respectively. Ten groundwater samples (including one field duplicate sample) were collected and analyzed from four borings (GP01, GP09, GP10, and GP11) and all three monitoring wells (see Figure 2).

VOCs and gasoline-range hydrocarbons were analyzed, but not detected, in the reconnaissance groundwater samples.

Five reconnaissance groundwater samples were analyzed for diesel- and lube-oil-range hydrocarbons. Diesel-range hydrocarbons were detected in the samples, three from the top of the water table and two from the deep groundwater. Lube-oil-range hydrocarbons were detected only in one of the shallow samples.

Five reconnaissance groundwater samples were analyzed for metals compounds, and four monitoring well groundwater samples (including the field duplicate) were analyzed for arsenic. Aluminum, chromium, and nickel were each detected once, while arsenic and zinc were detected in multiple samples.

Five reconnaissance groundwater samples and four monitoring well samples (including the field duplicate) were analyzed for PAHs. PAHs generally were detected in reconnaissance samples; the highest detections were in the sample from GP09 at approximately 38 feet bgs. Only naphthalene was detected in monitoring well samples.

Generally, the highest detections were in the deeper WBZ samples.

The risk screening (see Section 6) includes a discussion of groundwater chemical detections compared to their respective CULs.

5 CONCEPTUAL SITE MODEL

The CSM describes potential chemical sources, release mechanisms, environmental transport processes, exposure routes, and receptors. The primary purpose of the CSM is to describe pathways by which human and ecological receptors could be exposed to site-related chemicals. A complete exposure pathway consists of four necessary elements: (1) a source and mechanism of chemical release to the environment, (2) an environmental transport medium for a released chemical, (3) a point of potential contact with the impacted medium (referred to as the exposure point), and (4) an exposure route (e.g., soil ingestion) at the exposure point. The CSM describes potential exposure scenarios based on information collected during the site assessment. Elements of potentially complete exposure scenarios relevant to human health and ecological receptors are discussed below and are presented in Figure 4. The CSM diagram takes into account the risk screening discussed in Section 6.

5.1 Source Characterization

The Property was used as an auto salvage yard from the 1950s until recently, when operations ceased. Operations included stockpiling of old tires, scrap cars, and automotive parts. Based on documented complaints from neighbors, Ecology observations of site conditions and activities, and anecdotal evidence obtained during site reconnaissance activities, it appears that the following site-related activities and sources may have contributed to contamination of environmental media at the Property:

- Improper disposal and handling of hazardous materials and waste (e.g., car parts, tires, scrap vehicles, and used car batteries)
- Spills of waste motor oil and other automobile fluids
- Parts cleaning involving the use of solvents

These potential sources and release mechanisms are most likely to have resulted in contaminant releases to surface soil.

Contaminants detected in soil and groundwater on the Property include metals, petroleum hydrocarbons, VOCs, PAHs, and PCBs. Metals impacts in soil appear to be limited to surface soil (0 to 3.6 feet bgs) throughout the Property. Impacts from petroleum hydrocarbons and related constituents, including carcinogenic PAHs (cPAHs), benzene, xylenes, and PCBs, were also limited to surface soil but were detected only in the northern parcel of the Property. Diesel-range

hydrocarbons, metals, and PAHs were detected in groundwater. Nonaqueous-phase liquids were not observed during the site investigations.

5.2 Fate and Transport of Contaminants

Contaminant releases to surface soil have the potential to migrate vertically downward to the water table, thereby resulting in impacts to subsurface soil and dissolved-phase impacts to shallow groundwater beneath the Property. Surface and subsurface soil contaminants may also partition to the vapor phase, potentially resulting in impacts to air quality.

Dissolved-phase contamination may also partition to the vapor phase on-site or off-site after off-site migration via groundwater transport. Contaminant vapors partitioning from contaminated groundwater could result in impacts to indoor and outdoor air quality.

Dissolved-phase contamination migrating off site could potentially discharge to the Cowlitz River, resulting in surface water or sediment impacts. Fish intake of contaminated surface water or sediment could result in the bioaccumulation of contaminants in the fatty tissue of these animals.

5.3 Potential Soil Exposure Scenarios

The Property is currently a vacant lot and contains no structures. The redevelopment plan for the Property will likely be for single or multifamily housing. Therefore, it is likely that residents will occupy the Property at some time in the foreseeable future and that construction workers will be conducting work at the site associated with the redevelopment activities. Residents currently occupy neighboring properties.

There is substantial on-site human disturbance and no important resources for wildlife. A simplified terrestrial ecological evaluation was completed for the Property; it was determined that the site does not pose a substantial threat to potential ecological receptors (see Appendix D). Therefore, soil analytical results will not be compared to ecological screening values.

The following pathways are potentially complete for human health exposure to soil:

On-site residents—Residents currently occupy the neighboring properties and could occupy the Property in the future. The pathways by which current or future residents could potentially be exposed to chemicals in soil include direct skin contact with soil, incidental ingestion of soil, inhalation of soil particulates, and inhalation of indoor/outdoor air vapors emanating from soil.

On-site construction workers—There are currently no construction workers (e.g., excavation workers, trench workers) on the Property. However, construction activities would be performed as part of property redevelopment. Future construction workers could contact chemicals in soil through incidental ingestion, dermal contact, inhalation of impacted soil particulates, and inhalation of outdoor air vapors emanating from soil.

5.4 Potential Groundwater Exposure Scenarios

Shallow groundwater was encountered between 0 and 6 feet bgs and appears to be flowing toward the northeast.⁵ Deep groundwater flow is toward the south. There is currently no surface water or water wells on the Property.

The following pathways are potentially complete for human health exposure to groundwater:

On-site residents—Residents currently occupy the neighboring properties and could occupy the Property in the future. One pathway by which current or future residents could potentially be exposed to chemicals in groundwater is from ingestion of tap water from a drinking water well; however, city water is available next to the site and it is unlikely that this scenario would occur. Another potential pathway is inhalation of indoor/outdoor air vapors emanating from groundwater.

Off-site residents—Residents could potentially be exposed to air vapors emanating from groundwater if impacts migrate off the Property. Note that there is no evidence that this is occurring.

On-site construction workers—There are currently no construction workers (e.g., excavation workers, trench workers) on the Property; however, construction activities would be performed as part of property redevelopment. Future construction workers could contact chemicals in groundwater soil through dermal contact and inhalation of outdoor air vapors.

There is very little likelihood of human or ecological exposure to chemically impacted groundwater via the groundwater-to-surface-water exposure scenario, based on the observed groundwater flow directions and relatively low COI concentrations.

5.5 Cleanup Standards

According to MTCA, the cleanup standards for a particular site have two primary components: chemical-specific CULs and points of compliance (POCs). The CUL is the concentration of a chemical in a specific environmental medium that will not pose unacceptable risks to human health or the environment. The POC is the location where the CUL must be met.

MTCA provides three different options for establishing CULs for human health: Method A, Method B, and Method C. For Methods B and C, either the standard or the modified approach can be used. The standard method uses generic default assumptions to calculate CULs, and the modified method allows for site-specific adjustments to some assumptions when calculating CULs.

MTCA Method A is designed for cleanups at relatively simple sites, such as those that are small and that have only a few hazardous substances. Method B can be used at any site. Method C is used primarily for industrial sites.

⁵ The shallow groundwater flow direction is based on water levels observed in temporary borings, which may be unreliable.

5.5.1 Soil Cleanup Levels

The Property historically has been used for commercial purposes and it is anticipated that it will be used for residential purposes in the future. Soil was screened to Method A CULs for unrestricted land use.

For certain constituents, Method A CULs are not available and Method B CULs were applied. Method B CULs are calculated concentrations that are estimated to result in no acute or chronic toxic effects on human health for noncarcinogens, and concentrations for which the upper bound on the estimated excess cancer risk is less than or equal to one in one million (1×10^{-6}) for carcinogens.

Soil CULs for the protection of potable groundwater (leaching-to-groundwater pathway) are not recommended as potential cleanup targets for soil on the Property. The leaching-to-groundwater criteria are helpful in providing an initial screening of soil data to assess the potential for impacts to groundwater. However, empirical groundwater data, when available, may be used to demonstrate a lack of impacts in groundwater and, therefore, an incomplete leaching-to-groundwater pathway.

5.5.1.1 Points of Compliance in Soil

The soil POC is the depth bgs at which soil CULs shall be attained. The standard POC is soil within 15 feet of the ground surface throughout the entire site. This standard POC is applied to soil on the Property. As discussed below, subsurface impacts to soil below approximately 2 feet bgs are limited in extent.

5.5.2 Groundwater Cleanup Levels

Groundwater was also screened to Method A CULs. For certain constituents, Method A CULs are not available and Method B CULs were applied.

5.5.2.1 Points of Compliance in Groundwater

For groundwater, the POC is the point or points where the groundwater CULs must be attained for a site to be in compliance with the cleanup standards. Groundwater CULs shall be attained in all groundwater from the POC to the outer boundary of the hazardous-substance plume.

6 RISK SCREENING

Soil and groundwater analytical results were compared to MTCA CULs for unrestricted land use, as described in Section 5.5 (see Tables 3 and 4). As discussed below, indicator hazardous substances (IHSs) were evaluated by comparing the concentrations found in soil and groundwater to their respective CULs. An IHS is defined as a chemical having exceeded a CUL at one or more locations.

6.1 Soil

The following is a summary of the CUL chemical exceedances observed in soil (see Table 3 and Figure 5):

- Chemical exceedances in soil include metals, petroleum hydrocarbons, benzene, xylenes, PCBs, and cPAHs. Chemical exceedances were observed at depths shallower than 2 feet bgs, with one exception: lead at location GP13 from 2 to 3.5 feet bgs.
 - No metals exceedances were observed in the public right-of-way samples.
 - Metals exceedances were constrained with depth by detections below CULs or non-detects from the same or proximal sample locations for all but the following locations: GP04, HA03, and HA07.
- All non-metals exceedances were observed in the central area of the northern parcel at depths ranging from 0 to 2 feet bgs. Non-metals exceedances were constrained with depth by detections below CULs or non-detects at the same or proximal sample locations for all but the following locations: HA03 and HA07.
 - The diesel-, hydraulic-oil-, and lube-oil-range hydrocarbons were summed for comparison to the CUL for heavy oils, and exceedances were observed in three locations (GP01, GP13, and HA07).
 - Gasoline-range hydrocarbon exceedances were observed in two locations (GP01 and GP13).
 - A toxic equivalency quotient (TEQ) concentration was calculated for the cPAHs for comparison to the CUL, and exceedances were observed in two locations (HA03 and HA07).
 - Benzene exceedances were observed in three locations (GP01, GP13, and HA11).
 - The m,p-xylene and o-xylene compounds were summed for comparison to the total xylenes CUL, and one xylene exceedance was observed (GP01 from 0 to 1 foot bgs).
 - Aroclor compound concentrations were summed for comparison to the total PCB CUL, and total PCB exceedances were observed in two locations (GP01 and GP13).
- Metals exceeding CULs were primarily cadmium and lead, but also included one mercury and four arsenic exceedances. Metals exceedances were observed in multiple locations throughout the Property and in two samples on a neighboring residential property. The metals exceedances did not show any pattern other than being shallow (0 to 2.0 feet bgs), except for lead at one location to 3.5 feet bgs (GP13).

In summary, metals are present in soil above CULs throughout the Property and on the neighboring property, primarily at depths shallower than 2 feet bgs. Petroleum hydrocarbons and multiple compounds associated with petroleum hydrocarbon releases (benzene, xylenes, cPAHs, PCBs) are present above CULs in the central area of the northern parcel at depths shallower than 2 feet bgs.

The vertical extent of IHSs in soil is generally consistent with observations of debris (e.g., bits of glass, plastic, wire, and metal; and chunks of wood and tire).

6.2 Groundwater

No chemical exceedances were observed in any of the groundwater samples collected from the top of the water table (see Table 4 and Figure 6) or in soil samples collected directly above the water table.⁶ The reconnaissance groundwater samples collected from deep borings GP09 and GP10 exhibited cPAH exceedances. Benzo(a)anthracene exceeded the Method B CUL at GP10, but the cPAH TEQ concentration in this sample did not exceed the Method A CUL. The cPAH TEQ exceeded the Method A CUL at location GP09. However, both reconnaissance groundwater samples were highly turbid, which may account for the elevated cPAH concentrations; cPAHs are relatively immobile and tend to sorb to soil, as opposed to migrating in the dissolved phase.

Groundwater samples collected from the monitoring wells in the deeper WBZ (same as GP09 and GP10) had low turbidity. The sample results from the wells show that deeper groundwater at the Property is not impacted. Monitoring wells MW01 and MW02 were installed at the same locations and depths as the observed cPAH exceedances in reconnaissance groundwater (GP09 and GP10); there were no chemical exceedances in the samples collected from these wells (see Table 4 and Figure 6). Therefore, the reconnaissance groundwater sample results are not considered representative for cPAHs and the monitoring well and shallow water sampling results indicate that there are no site-related impacts in groundwater. All groundwater exposure pathways are insignificant.

6.3 Summary

No IHSs were identified in groundwater, and groundwater appears not to be significantly impacted by site-related contaminants. Soil impacts at the Property are primarily in the surface, with limited subsurface impacts. IHSs in soil are consistent with historical activities at the Property and are generally restricted to the upper 2 feet bgs.

Metals impacts occur throughout the Property, but do not appear to have migrated onto the public right-of-way areas. Two cadmium exceedances were detected on the neighboring residential property; therefore, the potential for human exposure to cadmium is complete both on and off site. Cadmium may have migrated off site via stormwater runoff, consistent with the site topography, which generally slopes away from the surrounding rights-of-way and toward the neighboring residential properties along the fence line.

Petroleum hydrocarbons and petroleum-related constituents are restricted to the upper 2 feet of soil in the central area of the northern parcel. VOCs were not detected in samples near neighboring buildings, although, human risk would potentially occur should buildings be developed over areas of VOC contamination in soil.

⁶ Soil samples were not collected above the water table at location GP09 (located in the depression left by the former building), since the water table was observed at the ground surface.

The site appears to include the Property and a portion of neighboring properties to the north of the southern parcel (confirmed) and to the east of the northern parcel (potential). Figure 4 shows the significance of complete and incomplete pathways. Data gaps exist in a few locations where chemical exceedances are unconstrained with depth (GP04, HA03, and HA07).

7 FOCUSED CLEANUP ACTION EVALUATION

This section summarizes two remedial alternatives for addressing the contamination identified on the site. These alternatives are not all-inclusive, but represent the most likely cleanup scenarios and encompass a range from relatively extensive to relatively limited remedial actions. Depending on the configuration of the Property redevelopment, additional cleanup alternatives could be developed and evaluated.

The cleanup alternatives address soil impacted by metals and petroleum. Metals impacts were observed in several areas of the Property from the ground surface to approximately 2 feet bgs and cadmium exceedances were observed in shallow soil on a neighboring property. In addition, there is a potentially complete migration pathway for cadmium and lead exceedances observed in soil on the Property onto the neighboring property to the east.

Impacts from petroleum and related constituents, most notably VOCs, were observed in soil in the central area of the northern parcel. VOCs may pose a potential human health risk via the indoor air exposure route if buildings are constructed in this area.

7.1 Alternative 1: Excavation and Off-Site Disposal of All Contaminated Soil

Alternative 1 involves excavating and disposing off-site at an appropriate landfill, all soil that is likely to exceed MTCA cleanup levels. The remedial action to address these concerns would be:

- Excavate an approximate 12-foot radius around sample locations where metal and/or petroleum impacts have been observed, or to the distance where another sample was collected with concentrations below cleanup levels, whichever is smaller. Preliminary excavation areas are shown in Figure 7. Excavation depths range from 2 to 4 feet bgs depending on sample data. Excavation extents will be screened with x-ray fluorescence and a photoionization detector (PID) prior to confirmation sampling. Characterization samples will be collected from soil stockpiles for waste profiling. The excavation volume is estimated to be approximately 967 cubic yards. For the purposes of estimating costs, it is assumed that 25% of the soil will need to be classified as hazardous and disposed of at a Subtitle C landfill and 75% will be classified as non-hazardous and disposed of at a Subtitle D landfill. This assumption is driven by high lead concentrations observed in several locations (HA03, HA07, GP13, and GP01) and toxicity characteristic leaching

procedure (TCLP) analysis results from two soil samples collected during the environmental investigation.

- Scrape remainder of Property to a minimum depth of 8 inches to remove metal, glass, and miscellaneous debris and organics. Debris may be as deep as 24 inches in some areas; therefore, the scrape depth is estimated as 12 inches for cost estimating purposes. The final scrape depth will be based on field observations. The volume of scraped material is estimated to be 803 cubic yards. This material will be stockpiled and composite samples will be analyzed for waste profiling. It is assumed that as much as 5% of the scraped material will need to be disposed of at a Subtitle C landfill as hazardous waste as a result of the potential for widespread operational impacts to surface soil.
- Backfill the Property with clean, imported fill to the recommended ground surface elevation for stormwater management and redevelopment. Hydroseed finished grade to stabilize and prevent soil erosion.
- The estimated cost range for Alternative 1 is \$617,100 (including 30% contingency). Details are presented in Tables 6.

7.2 Alternative 2: Targeted Excavation, Consolidation, and Capping

Alternative 2 includes excavation and off-site disposal of soil impacted by benzene. Remaining soil impacts above MTCA cleanup levels will be excavated and consolidated in an existing depression on the north parcel and capped with soil or impervious surface. Alternative 2 includes the following actions:

- Targeted Benzene Removal. Excavate an approximate 12-foot radius around sample locations where benzene impacts have been observed (MW03, HA11, and GP01). The preliminary excavation area is shown in Figure 8. The excavation extent will be screened with a PID prior to confirmation sampling. The excavation volume is estimated to be approximately 104 cubic yards. Characterization samples will be collected from soil stockpiles for waste profiling. For cost estimating purposes, it is assumed that the benzene-impacted soil will need to be disposed of at a Subtitle C landfill as hazardous waste. This assumption is driven by high concentrations of lead in in this location.
- Soil stripping. Organics will be stripped from all areas of the Property, excluding the benzene excavation area, and from the soil excavation area on the neighboring property. The northern parcel will be stripped to a depth of 4 inches and the southern parcel to a depth of 8 inches. The volume of stripped material is estimated to be 527 cubic yards. This material will be stockpiled and composite samples will be analyzed for waste profiling. It is assumed that as much as 5% of the stripped material will need to be disposed of at a Subtitle C landfill as hazardous waste as a result of the potential for widespread operational impacts to surface soil.
- Soil Consolidation. After the soil surface has been stripped to remove organics and the benzene impacts have been excavated, the remainder of the Property will be scraped and soil impacts will be excavated from targeted areas, as described below. The scraped and

excavated soil will be consolidated in the existing depression on the north parcel at the site of the former building.

- Soil will be scraped to a minimum depth of 8 inches to remove metal, glass, and miscellaneous debris. Debris may be as deep as 24 inches in some areas; therefore, the scrape depth is 12 inches for cost estimating purposes. The final scrape depth will be based on field observations.
- Metals and/or petroleum impacts in soil that occur at elevations greater than 1 foot above the recommended ground surface elevation for stormwater management and redevelopment will be excavated. An approximate 12-foot radius will be excavated around the impacted areas, or to the distance where another sample was collected with concentrations below cleanup levels, whichever is smaller. Preliminary excavation areas are shown in Figure 8. Excavation depths range from 2 to 4 feet depending on sample data. Excavation extents will be screened with x-ray fluorescence.
- Capping. Metals and/or petroleum impacts in soil that are left in-place will be capped with a minimum 1 foot of clean soil, asphalt surfacing (ex. parking lot), or concrete surfaces (ex. slabs, walkways). Areas to be capped include soil within the consolidation area and impacted soils left in-place (i.e., metals and/or petroleum soil impacts that occur at least 1 foot below the final recommended ground surface elevation for stormwater management and redevelopment). Clean soil will either be imported or will be redistributed from clean areas of the Property. Cap material will be placed on top of a brightly colored demarcation fabric, which will visually indicate the presence of contaminated soil to future site workers.
- Backfill the Property, as needed, with clean, imported fill to the recommended ground surface elevation for stormwater management and redevelopment. Hydroseed finished grade to stabilize and prevent soil erosion.
- Institutional Controls. A soil management plan will be developed and an environmental covenant placed on the property to protect the engineered cap. The soil management plan will describe the nature and locations of contaminated soil that are left in place, discuss potential worker safety considerations, and will identify the type of demarcation fabric that is placed for future site activities penetrating the soil cap. In addition, a cap inspection plan will be implemented to provide annual inspections by City staff to ensure that the demarcation fabric is not visible in any areas of the property.
- The estimated cost for Alternative 2 is \$ 287,900 (including 30% contingency). Details are presented in Table 7.

7.3 Evaluation of Cleanup Alternatives

7.3.1 MTCA Threshold Requirements

Cleanup actions are subject to the threshold requirements set forth in WAC 173-340-360 (2)(a). Under the threshold requirements, the cleanup action shall:

- Protect human health and the environment.
- Comply with cleanup standards.
- Comply with applicable state and federal laws.
- Provide for compliance monitoring.

7.3.1.1 Protect Human Health and the Environment and Comply with Cleanup Standards

Both alternatives 1 and 2 reduce or eliminate risk due to contaminated soil through removal or a combination of removal, consolidation, and capping. As such they would eliminate exposure pathways and protect human health and the environment and would comply with cleanup standards.

7.3.1.2 Comply with Applicable State and Federal Laws

The selected CULs are consistent with MTCA. Additionally, local, state and federal laws related to environmental protection, health and safety, transportation, and disposal would apply to each proposed alternative. During remedial design, the selected alternative would be designed to comply with applicable, relevant, and appropriate requirements.

7.3.1.3 Provide for Compliance Monitoring

There are three types of compliance monitoring which are: protection, performance, and confirmational. Protection monitoring is designed to protect human health and the environment during the construction and operation & maintenance phases of the cleanup action. Performance monitoring confirms that the cleanup action has met cleanup and/or performance standards. Confirmational monitoring confirms the long-term effectiveness of the cleanup action once cleanup standards have been met or other performance standards have been attained. Both cleanup alternatives would meet this provision as both would require varying levels of all three types of compliance monitoring.

7.4 Other Criteria

MTCA states that when selecting a cleanup alternative, preference shall be given to “permanent solutions to the maximum extent practicable.” “Permanent” is defined in WAC 173-340-200 as a cleanup action in which the cleanup standards of WAC 173-340-700 through 760 are met without further action being required at the site being cleaned up or at any other site involved with the cleanup action, other than the approved disposal of any residue from the treatment of hazardous substances.

In order to determine the “maximum extent practicable” for each alternative, a disproportionate-cost analysis outlined in WAC 173-340-360(3)(e) is used. Costs are determined to be disproportionate to benefits if the incremental cost of a more expensive alternative over that of a lower-cost alternative exceeds the incremental degree of benefits achieved by the more expensive alternative. As outlined in WAC 173-340-360(3)(f), the evaluation criteria used were a mix of

qualitative and quantitative factors, including protectiveness, permanence, cost effectiveness over the long term, management of short-term risks, technical and administrative implementability, and consideration of public concerns.

The cleanup alternatives are evaluated by the criteria below.

7.4.1 Protectiveness

Protectiveness is a factor by which human health and the environment are protected by the cleanup action, including the degree to which existing risks are reduced; time required to reduce risk at the facility and attain cleanup standards; on-site and off-site risks resulting from implementing the cleanup action alternative; and improvement of the overall environmental quality. Both of the cleanup alternatives are protective. Alternatives 1 and 2 are equally protective because human and ecological exposure to all soil exceeding cleanup levels are either removed from the site or capped in place with clean material.

7.4.2 Permanence

Permanence is a factor by which the cleanup action alternative permanently reduces the toxicity, mobility, or volume of hazardous substances it takes into account the adequacy of the alternative in destroying the hazardous substances, the reduction or elimination of hazardous substance releases and sources of releases, the degree of irreversibility of the waste-treatment process, and the characteristics and quantity of treatment residuals generated. Removal of soil would be considered the most permanent soil action because it permanently eliminates the source of releases at the Property. Alternatives that include less soil removal would be equivalently less permanent because they would rely on institutional controls which could be violated or removed from the site in the future. Therefore, Alternative 1 would be ranked higher for permanence than Alternative 2.

7.4.3 Effectiveness over Long Term

Long-term effectiveness includes the degree of certainty that the alternative will be successful; the reliability of the alternative for the expected duration of hazardous substances remaining on site at concentrations that exceed CULs; the magnitude of residual risk with the alternative in place; and the effectiveness of controls required to manage treatment residues or remaining wastes. Long-term effectiveness of Alternative 1 would be considered lightly higher than Alternative 2 since it removes all contaminated soil.

7.4.4 Management of Short-Term Risks

Short-term risks to remediation workers, the public, and the environment are assessed under this criterion. Generally, short-term risks are expected to be linearly related to the amount of material handled, treated, and/or transported and disposed of (e.g., worker injury per cubic yard excavated [equipment failure], public exposure per cubic yard-mile transported [highway accident]).

This factor addresses the risk to human health and the environment associated with the alternative during construction and implementation, and the effectiveness of measures that will be taken to manage such risks. Potential public exposure during transport, handling, and excavation required for both of the Alternatives could lead to short-term risks. Alternative 2 requires less off-site transportation and handling of impacted soil so would involve lower short-term risks and is therefore ranked highest.

7.4.5 Technical and Administrative Implementability

This factor addresses whether the alternative can be implemented and is technically possible. The availability of necessary materials, regulatory requirements, scheduling, access for construction operations and monitoring, and integration with existing and neighboring site uses must be considered. The proposed alternatives are both well proven and have been employed at many sites throughout the United States, so are all readily implementable and rank equivalently.

7.4.6 Public Concerns

This factor includes considering concerns from individuals, community groups, local governments, tribes, federal and state agencies, or any other organization that may have an interest in or knowledge of the site and that may have a preferred alternative. Informational fact sheets on the brownfield cleanup and redevelopment project were mailed to approximately 100 neighbors prior to initiation of field sampling. Public hearings to review cleanup and development alternatives will be held later in the process. Both alternatives would provide opportunity for members of the public to review and comment on plans.

7.4.7 Disproportionate-Cost Analysis

In accordance with WAC 173-340-360(3)(e), the most practicable permanent solution evaluated will be the baseline cleanup action alternative to which the other cleanup action alternatives are compared. On this basis, Alternative 2 is the baseline alternative for this analysis. Table 8 summarizes the comparative analysis. Each alternative was given a rating between 1 and 5 (5 being optimal, 1 being inadequate). Where there were only slight differences, fractional ratings were applied.

Based on these criteria, Alternatives 1 and 2 have close ratings, 4.8 and 4.6 respectively (See Table 8). Evaluating the above factors with the estimated cost for each alternative and a relative increased benefit (preference) for Alternative 1 is 4%, however the cost of Alternative 1 (\$617,100) is more than twice the cost of Alternative 2 (\$287,900).

7.4.8 Recommended Cleanup Alternative

To be determined upon review with Ecology.

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

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TABLES



Table 1
Water Level Data
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Location	Borehole Depth (feet bgs)	Screened Interval (feet bgs)	Measuring Point Elevation (feet NAVD)	Measurement Date	Depth to Water (feet MPE)	Groundwater Elevation (feet NAVD)
Reconnaissance Boring						
GP01	10	8-12	22.73	03/21/2012	5.25	17.48
GP09	10	5-9	18.36	03/21/2012	0.00	18.36
	40	36-40	18.31	03/21/2012	24.50	-6.19
GP10	12	8-12	21.52	03/22/2012	6.20	15.32
	40	36-40	21.52	03/22/2012	22.40	-0.88
GP11	10	6-10	19.40	03/22/2012	1.90	17.50
Monitoring Well						
MW01	40.5	35-40	20.15	06/13/2012	4.28	15.87
MW02	40.5	35-40	17.42	06/13/2012	1.54	15.88
MW03	40.5	35-40	20.27	06/13/2012	4.45	15.82
NOTES: bgs = below ground surface. MPE = measuring point elevation. NAVD = 1988 North American Vertical Datum.						

Table 2
Sample and Analysis Summary
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Location	Sample Matrix	Sample Date	Sample Depth (ft bgs)	Sample Depth Interval (ft bgs)														
					NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	Metals (6010)	Arsenic (6020)	Cadmium (6010)	Lead (6010)	Mercury (SW7471)	VOCs (8260B)	BTEX (8021)	Benzene (8021)	SVOCs (8270C)	PAHs (8270S/M)	PCBs (8082)
GP01	Soil	03/20/2012	0.5	0-1	X	X	X	X	X			X	X			X		X
	Soil	03/20/2012	5.4	5-5.8	X	X	X	X	X			X	X			X		X
	Soil	03/20/2012	6.8	5.8-7.8	Not Analyzed													
	Groundwater	03/21/2012	10	8-12		X	X	X	X			X	X					X
GP02	Soil	03/20/2012	0.5	0-1	X			X	X			X						
	Soil	03/20/2012	2	1-3	X			X	X			X						
GP03	Soil	03/20/2012	0.5	0-1	X			X	X			X						
	Soil	03/20/2012	2.3	1-3.5	X			X	X			X						
GP04	Soil	03/20/2012	1	0-2	X			X	X			X						
GP05	Soil	03/20/2012	0.5	0-1	X		X	X	X			X				X		X
	Soil	03/20/2012	2.1	1-3.2	X		X	X	X			X				X		X
GP06	Soil	03/20/2012	0.5	0-1	X			X	X			X						
	Soil	03/20/2012	2.2	1-3.4	X			X	X			X						
GP07	Soil	03/20/2012	0.5	0-1	X		X	X	X			X				X		X
	Soil	03/20/2012	2.2	1-3.4	X		X	X	X			X				X		X
GP08	Soil	03/20/2012	0.5	0-1	X			X	X			X						
	Soil	03/20/2012	2.2	1-3.4	X			X	X			X						

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Former Terry's Auto Salvage Property, City of Kelso
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Location	Sample Matrix	Sample Date	Sample Depth (ft bgs)	Sample Depth Interval (ft bgs)															
					NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	Metals (6010)	Arsenic (6020)	Cadmium (6010)	Lead (6010)	Mercury (SW7471)	VOCs (8260B)	BTEX (8021)	Benzene (8021)	SVOCs (8270C)	PAHs (8270S/M)	PCBs (8082)	
GP09	Soil	03/21/2012	0.5	0-1	X			X	X			X							
	Soil	03/21/2012	2.4	1-2.7	X			X	X			X							
	Soil	03/21/2012	6.9	5-8.8	X														
	Soil	03/21/2012	11	10-13.9	X														
	Soil	03/21/2012	17.5	15-20	X														
	Soil	03/21/2012	22.1	20-24.3	X														
	Soil	03/21/2012	25.6	25-28.2	X														
	Soil	03/21/2012	31.6	30-33.3	X														
	Soil	03/21/2012	37.5	35-39	X														
	Groundwater	03/21/2012	7	5-9		X	X	X	X			X	X						X
Groundwater	03/21/2012	38	36-40		X	X	X	X			X	X						X	
GP10	Soil	03/21/2012	0.5	0-1	X			X	X			X							
	Soil	03/21/2012	2.8	1-3.5	X			X	X			X							
	Soil	03/21/2012	5.2	5-5.4	X														
	Soil	03/21/2012	12.5	10-15	X														
	Soil	03/21/2012	17.5	15-20	X														
	Soil	03/21/2012	22.5	20-25	X														
	Soil	03/21/2012	27.5	25-30	X														
	Soil	03/21/2012	32	30-34	X														
	Soil	03/21/2012	37.5	35-40	X														
	Groundwater	03/22/2012	10	8-12		X	X	X	X			X	X						X
	Groundwater	03/21/2012	38	36-40		X	X	X	X			X	X						X

**Table 2
Sample and Analysis Summary
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington**

Location	Sample Matrix	Sample Date	Sample Depth (ft bgs)	Sample Depth Interval (ft bgs)														
					NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	Metals (6010)	Arsenic (6020)	Cadmium (6010)	Lead (6010)	Mercury (SW7471)	VOCs (8260B)	BTEX (8021)	Benzene (8021)	SVOCs (8270C)	PAHs (8270S/M)	PCBs (8082)
GP11	Soil	03/21/2012	0.5	0-1	X		X	X	X			X				X		
	Soil	03/21/2012	2.3	1-3.6	X		X	X	X			X				X		
	Soil	03/21/2012	6.3	5-7.5	X			X	X			X						
	Groundwater	03/22/2012	8	6-10		X							X					
GP12	Soil	05/31/2012	1.3	0.7-2.0						X	X	X					X	
	Soil	05/31/2012	6	5.0-7.1	Not Analyzed													
	Soil	05/31/2012	7.4	7.1-7.8	Not Analyzed													
GP13	Soil	05/31/2012	1	0-2.0		X	X			X	X			X				X
	Soil	05/31/2012	2.6	2-3.5		X	X			X	X			X				X
GP14	Soil	05/31/2012	1.1	0.7-2.5			X		X	X							X	X
	Soil	05/31/2012	6	5.0-7.0	Not Analyzed													
	Soil	05/31/2012	8.1	7.1-9.3	Not Analyzed													
GP15	Soil	05/31/2012	1.3	0.4-2.3						X	X						X	
	Soil	05/31/2012	3.1	2.3-3.9						X	X						X	
GP16	Soil	05/31/2012	1.2	0.4-2.1					X		X							
	Soil	05/31/2012	2.8	2.1-3.5					X		X							
HA01	Soil	03/20/2012	0.5	0-1.0	X		X	X	X			X				X		
	Soil	03/20/2012	1.5	1.0-2.0			X	X	X			X				X		
HA02	Soil	03/20/2012	0.5	0-1.0	X		X	X	X			X				X		
	Soil	03/20/2012	1.5	1.0-2.0	Not Analyzed													
HA03	Soil	03/20/2012	0.5	0-1.0	X		X	X	X			X				X		
	Soil	03/20/2012	1.5	1.0-2.0	Not Analyzed													
HA04	Soil	03/22/2012	0.5	0-1.0	X		X	X	X			X				X		X
	Soil	03/22/2012	1.5	1.0-2.0			X	X	X			X				X		X

**Table 2
Sample and Analysis Summary
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington**

Location	Sample Matrix	Sample Date	Sample Depth (ft bgs)	Sample Depth Interval (ft bgs)															
					NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	Metals (6010)	Arsenic (6020)	Cadmium (6010)	Lead (6010)	Mercury (SW7471)	VOCs (8260B)	BTEX (8021)	Benzene (8021)	SVOCs (8270C)	PAHs (8270S/M)	PCBs (8082)	
HA05	Soil	03/22/2012	0.5	0-1.0	X		X	X	X			X				X		X	
	Soil	03/22/2012	1.5	1.0-2.0			X	X	X			X				X		X	
HA06	Soil	03/22/2012	0.5	0-1.0	X		X	X	X			X				X		X	
	Soil	03/22/2012	1.5	1.0-2.0			X	X	X			X				X		X	
HA07	Soil	03/22/2012	0.5	0-1.0	X		X	X	X			X				X		X	
	Soil	03/22/2012	1.5	1.0-2.0			X	X	X			X				X		X	
HA08	Soil	05/29/2012	0.5	0-1.0						X	X								
	Soil	05/29/2012	1.5	1.0-2.0	Not Analyzed														
HA09	Soil	05/29/2012	0.5	0-1.0					X		X								
	Soil	05/29/2012	1.5	1.0-2.0	Not Analyzed														
HA10	Soil	05/29/2012	0.5	0-1.0		X	X		X	X	X			X				X	X
	Soil	05/29/2012	1.5	1.0-2.0						X	X								
HA11	Soil	05/29/2012	0.5	0-1.0										X					
	Soil	05/29/2012	1.5	1.0-2.0											X				
HA12	Soil	05/29/2012	0.5	0-1.0										X					
	Soil	05/29/2012	1.5	1.0-1.2	Not Analyzed														
HA13	Soil	05/29/2012	0.5	0-1.0					X	X									
	Soil	05/29/2012	1.5	1.0-2.0						X									
HA14	Soil	05/29/2012	0.5	0-1.0					X	X									
	Soil	05/29/2012	1.5	1.0-2.0						X									
HA15	Soil	05/30/2012	0.5	0-1.0					X	X									
	Soil	05/30/2012	1.5	1.0-2.0	Not Analyzed														

Table 2
Sample and Analysis Summary
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Location	Sample Matrix	Sample Date	Sample Depth (ft bgs)	Sample Depth Interval (ft bgs)															
					NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	Metals (6010)	Arsenic (6020)	Cadmium (6010)	Lead (6010)	Mercury (SW7471)	VOCs (8260B)	BTEX (8021)	Benzene (8021)	SVOCs (8270C)	PAHs (8270S/M)	PCBs (8082)	
MW01	Groundwater	06/13/2012	37.5	35-40					X									X	
MW02	Groundwater	06/14/2012	37.5	35-40					X									X	
MW03	Soil	05/31/2012	1	0.7-1.3										X					
	Soil	05/31/2012	1.5	1.3-1.7										X					
	Groundwater	06/14/2012	37.5	35-40					X									X	

NOTES:
U.S. Environmental Protection Agency analytical methods are shown in parentheses behind analytical designations.
Metals = aluminum, copper, cadmium, chromium (total), lead, nickel, and zinc
BTEX = benzene, toluene, ethylbenzene, and xylenes.
ft bgs = feet below ground surface.
NWTPH-Dx = Northwest Total Petroleum Hydrocarbon—Diesel- and Heavy-Oil-Range Organics Method.
NWTPH-Gx = Northwest Total Petroleum Hydrocarbon—Gasoline-Range Organics Method.
NWTPH-HCID = Northwest Total Petroleum Hydrocarbon—Hydrocarbon Identification Method.
PAH = polycyclic aromatic hydrocarbon.
PCB = polychlorinated biphenyl.
SIM = selective ion monitoring.
SVOC = semivolatile organic compound.

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP01	GP01	GP02	GP02	GP03	GP03	GP04	GP05	GP05	GP06	GP06	GP07	GP07	GP08	GP08	GP09
Sample Date		3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/21/2012
Depth (ft bgs)		0.5	5.4	0.5	2	0.5	2.3	1	0.5	2.1	0.5	2.2	0.5	2.2	0.5	2.2	0.5
Metals																	
Aluminum	80000*	7940	15900	23400	19800	17300	21900	15400	20100	18100	26000	18200	11600	11000	18100	22700	20000
Arsenic	20	15.4	1.4	2.85	2.84	1.55	2.93	4.47	5.42	3.99	1.85	2.88	22.7	2.13	5.99	4.64	1.48
Cadmium	2	14.9	0.258	0.142 U	0.133 U	0.146 U	0.397	4.73	1.41	0.496	0.815	0.118 U	2.09	0.142 U	0.799	0.126 U	0.129 U
Chromium (Total)	2000	51.2	15.5	16.9	39.5	10.5	25.8	19.4	18.6	18.4	18.4	22.5	90.2	16.3	21.1	21.7	16.4
Copper	3200*	224	32	35.7	42.8	33.8	55.8	588	52	41.8	36.6	39.5	133	50.8	106	39.7	26.4
Lead	250	887	26.1	6.48	4.32	2.91 U	45.2	838	74.8	15.9	19	2.37 U	219	16.9	113	2.53 U	2.59 U
Mercury	2	0.589	0.0333	0.0591	0.0427	0.029	0.0368	0.154	0.0607	0.0694	0.0677	0.0396	0.0939	0.0188 U	0.737	0.0443	0.0233 U
Nickel	1600*	56.6	12.3	13.2	30.3	9.75	25.6	22.5	25.7	18.6	23	15.8	102	13.2	28.8	15.6	10.3
Zinc	24000*	3970	157	129	83.4	182	427	1490	830	232	250	78.8	441	193	211	72.5	58.4
BTEX																	
Benzene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs																	
1,1,1,2-Tetrachloroethane	38*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	5*	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	18*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	16000*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	4000*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NV	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	0.033*	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	35*	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	NV	8.94	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	1.3*	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	0.005	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	11*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NV	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	800*	5.6	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NV	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NV	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP01	GP01	GP02	GP02	GP03	GP03	GP04	GP05	GP05	GP06	GP06	GP07	GP07	GP08	GP08	GP09
Sample Date		3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/21/2012
Depth (ft bgs)		0.5	5.4	0.5	2	0.5	2.3	1	0.5	2.1	0.5	2.2	0.5	2.2	0.5	2.2	0.5
2-Butanone	48000*	0.023 U	0.0274 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	1600*	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	NV	0.023 U	0.0274 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	6400*	0.023 U	0.0274 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	72000*	0.171	0.0684 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	0.03	0.111	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	16*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	130*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	110*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	8000*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	14*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	1600*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NV	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	NV	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	800*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	NV	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	160*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	12*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	800*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	16000*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	3.08	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	800*	0.0335	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	9	8.43	0.0274 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	0.1	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	0.02	0.0575 U	0.0684 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	2.95	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	8000*	0.773	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	16000*	2.96	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	16000*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	NV	0.624 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP01	GP01	GP02	GP02	GP03	GP03	GP04	GP05	GP05	GP06	GP06	GP07	GP07	GP08	GP08	GP09
Sample Date		3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/21/2012
Depth (ft bgs)		0.5	5.4	0.5	2	0.5	2.3	1	0.5	2.1	0.5	2.2	0.5	2.2	0.5	2.2	0.5
Tetrachloroethene	0.05	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	0.159	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-dichloroethene	1600*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	0.03	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	24000*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.67*	0.0115 U	0.0137 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	11.4	0.02055 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs																	
1,2,4-Trichlorobenzene	35*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
1,2-Dichlorobenzene	7200*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
1,3-Dichlorobenzene	NV	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
1,4-Dichlorobenzene	NV	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
1-Methylnaphthalene	35*	0.346	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
2,4-Dinitrotoluene	160*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
2,6-Dinitrotoluene	80*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
2-Chloronaphthalene	6400*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
2-Methylnaphthalene	320*	0.589	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
2-Nitroaniline	800*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
3-Nitroaniline	NV	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
4-Bromophenylphenyl ether	NV	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
4-Chloroaniline	5*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
4-Chlorophenylphenyl ether	NV	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
4-Nitroaniline	NV	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Acenaphthene	4800*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Acenaphthylene	1*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Anthracene	24000*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Benzo(a)anthracene	1.4*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Benzo(a)pyrene	0.1	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Benzo(b)fluoranthene	1.4*	0.075 U	0.0453 U	--	--	--	--	--	0.0736	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Benzo(ghi)perylene	NV	0.248	0.0453 U	--	--	--	--	--	0.0634	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Benzo(k)fluoranthene	14*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Benzoic acid	320000*	1.5 U	0.907 U	--	--	--	--	--	0.975 U	0.935 U	--	--	0.786 U	0.95 U	--	--	--
Benzyl alcohol	8000*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Bis(2-chloro-1-methylethyl) ether	14*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Bis(2-chloroethoxy)methane	NV	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Bis(2-chloroethyl)ether	0.91*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP01	GP01	GP02	GP02	GP03	GP03	GP04	GP05	GP05	GP06	GP06	GP07	GP07	GP08	GP08	GP09
Sample Date		3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/21/2012
Depth (ft bgs)		0.5	5.4	0.5	2	0.5	2.3	1	0.5	2.1	0.5	2.2	0.5	2.2	0.5	2.2	0.5
Bis(2-ethylhexyl)phthalate	71*	29.2	0.0766	--	--	--	--	--	0.434	0.0528	--	--	0.601	0.0474 U	--	--	--
Butylbenzylphthalate	530*	6.78	0.0453 U	--	--	--	--	--	0.593	0.0467 U	--	--	0.355	0.0474 U	--	--	--
Chrysene	140*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Dibenzo(a,h)anthracene	0.14*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Dibenzofuran	80*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Diethylphthalate	64000*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Dimethyl phthalate	NV	0.0901	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Di-n-butyl phthalate	8000*	1.53	0.0453 U	--	--	--	--	--	0.119	0.0467 U	--	--	0.168	0.0474 U	--	--	--
Di-n-octyl phthalate	NV	0.075 U	0.0984	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0652	0.0474 U	--	--	--
Fluoranthene	3200*	0.179	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Fluorene	3200*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Hexachlorobenzene	0.63*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Hexachlorobutadiene	13*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Hexachlorocyclopentadiene	480*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Hexachloroethane	71*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Indeno(1,2,3-cd)pyrene	1.4*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Isophorone	1100*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Naphthalene	5	0.438	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Nitrobenzene	160*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
N-Nitrosodimethylamine	0.02*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
N-Nitrosodiphenylamine	200*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
N-Nitrosodipropylamine	0.14*	0.075 U	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Phenanthrene	NV	0.2	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Pyrene	2400*	0.462	0.0453 U	--	--	--	--	--	0.0487 U	0.0467 U	--	--	0.0392 U	0.0474 U	--	--	--
Total Naphthalenes	5	3.89	0.0522 U	--	--	--	--	--	0.0731 U	0.0701 U	--	--	0.0588 U	0.0711 U	--	--	--
cPAH TEQ	0.1	0.0566 U	0.0342 U	--	--	--	--	--	0.0417	0.0329 U	--	--	0.0296 U	0.0358 U	--	--	--
NWTPH-HCID																	
Diesel	NV	DETECT	ND	ND	ND	ND	ND	ND	DETECT	ND	ND	ND	DETECT	ND	ND	ND	ND
Gasoline	NV	DETECT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Kerosene	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lube Oil	NV	DETECT	ND	ND	ND	ND	ND	ND	DETECT	ND	ND	ND	DETECT	ND	ND	ND	ND
Mineral Spirits	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NWTPH-Dx																	
Diesel	2000	3290 J	45.7	--	--	--	--	--	88.2	21 U	--	--	147	21.4 U	--	--	--
Hydraulic Oil	NV	8950	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil	2000	56.3 U	155	--	--	--	--	--	443	70.1 U	--	--	554	71.2 U	--	--	--
Heavy-Oil-Range Hydrocarbons	2000	12268.2	200.7	--	--	--	--	--	531.2	45.55 U	--	--	701	46.3 U	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP01	GP01	GP02	GP02	GP03	GP03	GP04	GP05	GP05	GP06	GP06	GP07	GP07	GP08	GP08	GP09
Sample Date		3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/21/2012
Depth (ft bgs)		0.5	5.4	0.5	2	0.5	2.3	1	0.5	2.1	0.5	2.2	0.5	2.2	0.5	2.2	0.5
NWTPH-Gx																	
Gasoline	30	691	5.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs																	
Aroclor 1016	14*	0.000375 U	0.000453 U	--	--	--	--	--	0.000487 U	0.000467 U	--	--	0.000392 U	0.000474 U	--	--	--
Aroclor 1221	NV	0.000375 U	0.000453 U	--	--	--	--	--	0.000487 U	0.000467 U	--	--	0.000392 U	0.000474 U	--	--	--
Aroclor 1232	NV	0.000375 U	0.000453 U	--	--	--	--	--	0.000487 U	0.000467 U	--	--	0.000392 U	0.000474 U	--	--	--
Aroclor 1242	NV	0.998	0.0327	--	--	--	--	--	0.0166	0.000467 U	--	--	0.0157	0.000474 U	--	--	--
Aroclor 1248	NV	0.000375 U	0.000453 U	--	--	--	--	--	0.000487 U	0.000467 U	--	--	0.000392 U	0.000474 U	--	--	--
Aroclor 1254	0.5*	2.12	0.0381	--	--	--	--	--	0.0848	0.000467 U	--	--	0.0534	0.000474 U	--	--	--
Aroclor 1260	0.5*	0.773	0.0209	--	--	--	--	--	0.0595	0.000467 U	--	--	0.0471	0.000474 U	--	--	--
Aroclor 1262	NV	0.000375 U	0.000453 U	--	--	--	--	--	0.000487 U	0.000467 U	--	--	0.000392 U	0.000474 U	--	--	--
Aroclor 1268	NV	0.000375 U	0.000453 U	--	--	--	--	--	0.000487 U	0.000467 U	--	--	0.000392 U	0.000474 U	--	--	--
Total PCBs	1	3.89	0.0931	--	--	--	--	--	0.162	0.000467 U	--	--	0.117	0.000474 U	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP10	GP10	GP10	GP10	GP10	GP10	GP10	GP10
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012
Depth (ft bgs)		2.4	6.9	11	17.5	22.1	25.6	31.6	37.5	0.5	2.8	5.2	12.5	17.5	22.5	27.5	32
Metals																	
Aluminum	80000*	24400	--	--	--	--	--	--	--	16600	12700	--	--	--	--	--	--
Arsenic	20	1.71	--	--	--	--	--	--	--	6.36 U	3.68	--	--	--	--	--	--
Cadmium	2	0.136 U	--	--	--	--	--	--	--	0.127 U	0.141 U	--	--	--	--	--	--
Chromium (Total)	2000	18.9	--	--	--	--	--	--	--	17.3	17.7	--	--	--	--	--	--
Copper	3200*	47	--	--	--	--	--	--	--	40.2	52.8	--	--	--	--	--	--
Lead	250	2.72 U	--	--	--	--	--	--	--	7.15	2.83 U	--	--	--	--	--	--
Mercury	2	0.0594	--	--	--	--	--	--	--	0.153	0.0304	--	--	--	--	--	--
Nickel	1600*	13.1	--	--	--	--	--	--	--	18	11.8	--	--	--	--	--	--
Zinc	24000*	55	--	--	--	--	--	--	--	384	71.8	--	--	--	--	--	--
BTEX																	
Benzene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs																	
1,1,1,2-Tetrachloroethane	38*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	18*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	4000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	0.033*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	35*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	1.3*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	11*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP10	GP10	GP10	GP10	GP10	GP10	GP10	GP10
	Sample Date	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012
	Depth (ft bgs)	2.4	6.9	11	17.5	22.1	25.6	31.6	37.5	0.5	2.8	5.2	12.5	17.5	22.5	27.5	32
2-Butanone	48000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	6400*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	72000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	16*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	130*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	110*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	12*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP10	GP10	GP10	GP10	GP10	GP10	GP10	GP10
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012
Depth (ft bgs)		2.4	6.9	11	17.5	22.1	25.6	31.6	37.5	0.5	2.8	5.2	12.5	17.5	22.5	27.5	32
Tetrachloroethene	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-dichloroethene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	24000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.67*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs																	
1,2,4-Trichlorobenzene	35*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	35*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	80*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	6400*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	320*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenylphenyl ether	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenylphenyl ether	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	4800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	1*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	24000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	1.4*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1.4*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(ghi)perylene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	320000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	0.91*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP10	GP10	GP10	GP10	GP10	GP10	GP10	GP10
	Sample Date	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012
	Depth (ft bgs)	2.4	6.9	11	17.5	22.1	25.6	31.6	37.5	0.5	2.8	5.2	12.5	17.5	22.5	27.5	32
Bis(2-ethylhexyl)phthalate	71*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	530*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	140*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	0.14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	80*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	64000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	3200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	3200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.63*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	480*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	71*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	1.4*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	1100*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	0.02*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodipropylamine	0.14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	2400*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Naphthalenes	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cPAH TEQ	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NWTPH-HCID																	
Diesel	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Kerosene	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lube Oil	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mineral Spirits	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NWTPH-Dx																	
Diesel	2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydraulic Oil	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil	2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heavy-Oil-Range Hydrocarbons	2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP09	GP10	GP10	GP10	GP10	GP10	GP10	GP10	GP10
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012
Depth (ft bgs)		2.4	6.9	11	17.5	22.1	25.6	31.6	37.5	0.5	2.8	5.2	12.5	17.5	22.5	27.5	32
NWTPH-Gx																	
Gasoline	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs																	
Aroclor 1016	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	0.5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	0.5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP10	GP11	GP11	GP11	GP12	GP12	GP12	GP13	GP13	GP14	GP14	GP14	GP15	GP15	GP16	GP16
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/21/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012
Depth (ft bgs)		37.5	0.5	2.3	6.3	1.3	6	7.4	1	2.6	1.1	6	8.1	1.3	3.1	1.2	2.8
Metals																	
Aluminum	80000*	--	16400	21400	24700	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	20	--	9.26	2.29	6.96	--	--	--	--	--	5.26	--	--	--	--	6.9	1.25
Cadmium	2	--	0.592	0.132 U	0.127 U	1.57	--	--	19.2	0.139	0.13 U	--	--	0.133 U	0.148 U	--	--
Chromium (Total)	2000	--	10.9	16.8	21.2	--	--	--	--	--	--	--	--	--	--	--	--
Copper	3200*	--	47.9	35.3	46.4	--	--	--	--	--	--	--	--	--	--	--	--
Lead	250	--	51.4	39.3	2.55 U	138	--	--	1480	786	2.6 U	--	--	2.65 U	2.96 U	19.3	7.72
Mercury	2	--	0.0182 U	0.0627	0.0674	0.174	--	--	--	--	--	--	--	--	--	--	--
Nickel	1600*	--	51.7	12.4	15	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	24000*	--	166	129	59.7	--	--	--	--	--	--	--	--	--	--	--	--
BTEX																	
Benzene	0.03	--	--	--	--	--	--	--	0.44	0.033 U	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	0.28	0.13 U	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	0.79	0.4 U	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	0.42	0.13 U	--	--	--	--	--	--	--
VOCs																	
1,1,1,2-Tetrachloroethane	38*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	18*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	4000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	0.033*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	35*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	1.3*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	11*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP10	GP11	GP11	GP11	GP12	GP12	GP12	GP13	GP13	GP14	GP14	GP14	GP15	GP15	GP16	GP16
	Sample Date	3/21/2012	3/21/2012	3/21/2012	3/21/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012
	Depth (ft bgs)	37.5	0.5	2.3	6.3	1.3	6	7.4	1	2.6	1.1	6	8.1	1.3	3.1	1.2	2.8
2-Butanone	48000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	6400*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	72000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	16*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	130*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	110*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	12*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP10	GP11	GP11	GP11	GP12	GP12	GP12	GP13	GP13	GP14	GP14	GP14	GP15	GP15	GP16	GP16
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/21/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012
Depth (ft bgs)		37.5	0.5	2.3	6.3	1.3	6	7.4	1	2.6	1.1	6	8.1	1.3	3.1	1.2	2.8
Tetrachloroethene	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-dichloroethene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	24000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.67*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs																	
1,2,4-Trichlorobenzene	35*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	35*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
2,4-Dinitrotoluene	160*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	80*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	6400*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	320*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
2-Nitroaniline	800*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenylphenyl ether	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	5*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenylphenyl ether	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	4800*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Acenaphthylene	1*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Anthracene	24000*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Benzo(a)anthracene	1.4*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Benzo(a)pyrene	0.1	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Benzo(b)fluoranthene	1.4*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Benzo(ghi)perylene	NV	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Benzo(k)fluoranthene	14*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Benzoic acid	320000*	--	0.727 U	0.917 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	8000*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	14*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	0.91*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP10	GP11	GP11	GP11	GP12	GP12	GP12	GP13	GP13	GP14	GP14	GP14	GP15	GP15	GP16	GP16
	Sample Date	3/21/2012	3/21/2012	3/21/2012	3/21/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012
	Depth (ft bgs)	37.5	0.5	2.3	6.3	1.3	6	7.4	1	2.6	1.1	6	8.1	1.3	3.1	1.2	2.8
Bis(2-ethylhexyl)phthalate	71*	--	1.1	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	530*	--	0.468	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	140*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Dibenzo(a,h)anthracene	0.14*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Dibenzofuran	80*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	64000*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	8000*	--	0.0715	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NV	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	3200*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Fluorene	3200*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Hexachlorobenzene	0.63*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	480*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	71*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	1.4*	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Isophorone	1100*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Nitrobenzene	160*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	0.02*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	200*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodipropylamine	0.14*	--	0.0363 U	0.0458 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	NV	--	0.0363 U	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Pyrene	2400*	--	0.0487	0.0458 U	--	0.00822 U	--	--	--	--	0.0101 U	--	--	0.0092 U	0.00987 U	--	--
Total Naphthalenes	5	--	0.0545 U	0.0687 U	--	0.0123 U	--	--	--	--	0.0152 U	--	--	0.0138 U	0.01481 U	--	--
cPAH TEQ	0.1	--	0.0274	0.0346	--	0.00621	--	--	--	--	0.00763	--	--	0.00695	0.00745	--	--
NWTPH-HCID																	
Diesel	NV	ND	DETECT	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline	NV	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
Kerosene	NV	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil	NV	ND	DETECT	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
Mineral Spirits	NV	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
NWTPH-Dx																	
Diesel	2000	--	192	20.6 U	--	--	--	--	2190 J	19.4	22.6 U	--	--	--	--	--	--
Hydraulic Oil	NV	--	606	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil	2000	--	54.5 U	68.8 U	--	--	--	--	8720	130	75.5 U	--	--	--	--	--	--
Heavy-Oil-Range Hydrocarbons	2000	--	825.3	44.7 U	--	--	--	--	10910	149.4	49.05 U	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP10	GP11	GP11	GP11	GP12	GP12	GP12	GP13	GP13	GP14	GP14	GP14	GP15	GP15	GP16	GP16
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/21/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012	5/31/2012
Depth (ft bgs)		37.5	0.5	2.3	6.3	1.3	6	7.4	1	2.6	1.1	6	8.1	1.3	3.1	1.2	2.8
NWTPH-Gx																	
Gasoline	30	--	--	--	--	--	--	--	50.7	4.05	--	--	--	--	--	--	--
PCBs																	
Aroclor 1016	14*	--	--	--	--	--	--	--	0.00037 U	0.00041 U	0.000503 U	--	--	--	--	--	--
Aroclor 1221	NV	--	--	--	--	--	--	--	0.00037 U	0.00041 U	0.000503 U	--	--	--	--	--	--
Aroclor 1232	NV	--	--	--	--	--	--	--	0.00037 U	0.00041 U	0.000503 U	--	--	--	--	--	--
Aroclor 1242	NV	--	--	--	--	--	--	--	0.769	0.00041 U	0.000503 U	--	--	--	--	--	--
Aroclor 1248	NV	--	--	--	--	--	--	--	0.00037 U	0.00041 U	0.000503 U	--	--	--	--	--	--
Aroclor 1254	0.5*	--	--	--	--	--	--	--	1.36	0.00041 U	0.0201	--	--	--	--	--	--
Aroclor 1260	0.5*	--	--	--	--	--	--	--	0.643	0.00041 U	0.000503 U	--	--	--	--	--	--
Aroclor 1262	NV	--	--	--	--	--	--	--	0.00037 U	0.00041 U	0.000503 U	--	--	--	--	--	--
Aroclor 1268	NV	--	--	--	--	--	--	--	0.00037 U	0.00041 U	0.000503 U	--	--	--	--	--	--
Total PCBs	1	--	--	--	--	--	--	--	2.77	0.00041 U	0.0221	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA01	HA01	HA02	HA03	HA04	HA04	HA05	HA05	HA06	HA06	HA07	HA07	HA08	HA08	HA09
Sample Date		3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	5/29/2012	5/29/2012	5/29/2012
Depth (ft bgs)		0.5	1.5	0.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5
Metals																
Aluminum	80000*	16500	19800	17900	11900	16900	18500	11600	19300	11700	9140	13000	14100	--	--	--
Arsenic	20	9.65	3.92	3.75	13.9	4.36	2.9	4.6	3.25	37.3	224	16.4 U	24.8	--	--	14.9
Cadmium	2	2.04	0.231	2.7	6.04	4.05	0.564	3.63	0.302	1.81	1.73	5.14	22	0.099 U	--	--
Chromium (Total)	2000	18.8	15.6	15.4	31	16.6	15.6	15.8	14	25.8	45.1	23.8	41.4	--	--	--
Copper	3200*	138	33.3	434	951	139	60.5	121	33.2	111	182	207	530	--	--	--
Lead	250	898	25.7	354	2400	417	78.3	372	32.5	238	337	552	1160	1.99 U	--	89.8
Mercury	2	0.843	0.0545	0.123	72.3	0.104	0.0572	0.136	0.0557	0.0519	0.0744	0.521	1.44	--	--	--
Nickel	1600*	18.7	12.2	31.9	37.6	25.6	12.1	34.5	10.7	43	20.7	59.6	57.9	--	--	--
Zinc	24000*	21600	114	1790	3370	1570	274	620	148	451	775	1010	1990	--	--	--
BTEX																
Benzene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs																
1,1,1,2-Tetrachloroethane	38*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	18*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	4000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	0.033*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	35*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	1.3*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	11*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA01	HA01	HA02	HA03	HA04	HA04	HA05	HA05	HA06	HA06	HA07	HA07	HA08	HA08	HA09
	Sample Date	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	5/29/2012	5/29/2012	5/29/2012
	Depth (ft bgs)	0.5	1.5	0.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5
2-Butanone	48000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	6400*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	72000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	16*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	130*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	110*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	12*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA01	HA01	HA02	HA03	HA04	HA04	HA05	HA05	HA06	HA06	HA07	HA07	HA08	HA08	HA09
	Sample Date	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	5/29/2012	5/29/2012	5/29/2012
	Depth (ft bgs)	0.5	1.5	0.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5
Tetrachloroethene	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-dichloroethene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	24000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.67*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs																
1,2,4-Trichlorobenzene	35*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
1,2-Dichlorobenzene	7200*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
1,3-Dichlorobenzene	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
1,4-Dichlorobenzene	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
1-Methylnaphthalene	35*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.146	0.0422 U	--	--	--
2,4-Dinitrotoluene	160*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
2,6-Dinitrotoluene	80*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
2-Chloronaphthalene	6400*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
2-Methylnaphthalene	320*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.247	0.0422 U	--	--	--
2-Nitroaniline	800*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
3-Nitroaniline	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
4-Bromophenylphenyl ether	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
4-Chloroaniline	5*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
4-Chlorophenylphenyl ether	NV	0.0438 U	0.0462 U	--	--	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
4-Nitroaniline	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Acenaphthene	4800*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Acenaphthylene	1*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Anthracene	24000*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0634	--	--	--
Benzo(a)anthracene	1.4*	0.0438 U	0.0462 U	0.0432 U	0.0456	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0807	--	--	--
Benzo(a)pyrene	0.1	0.0438 U	0.0462 U	0.0432 U	0.0781	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.278	--	--	--
Benzo(b)fluoranthene	1.4*	0.0575	0.0462 U	0.0432 U	0.129	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.191	--	--	--
Benzo(ghi)perylene	NV	0.0461	0.0462 U	0.0432 U	0.138	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.322	--	--	--
Benzo(k)fluoranthene	14*	0.0438 U	0.0462 U	0.0432 U	0.0477	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.349	--	--	--
Benzoic acid	320000*	0.878 U	0.925 U	0.865 U	0.822 U	0.816 U	0.855 U	0.852 U	0.945 U	0.77 U	0.754 U	0.819 U	0.845 U	--	--	--
Benzyl alcohol	8000*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Bis(2-chloro-1-methylethyl) ether	14*	0.0438 U	0.0462 U	--	--	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Bis(2-chloroethoxy)methane	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Bis(2-chloroethyl)ether	0.91*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA01	HA01	HA02	HA03	HA04	HA04	HA05	HA05	HA06	HA06	HA07	HA07	HA08	HA08	HA09
	Sample Date	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	5/29/2012	5/29/2012	5/29/2012
	Depth (ft bgs)	0.5	1.5	0.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5
Bis(2-ethylhexyl)phthalate	71*	0.0438 U	0.0462 U	0.0432 U	0.374	1.44	0.0427 U	0.884	0.0472 U	0.459	0.143	0.483	0.0422 U	--	--	--
Butylbenzylphthalate	530*	0.0438 U	0.0462 U	0.0432 U	0.434	0.54	0.0427 U	0.724	0.0472 U	0.777	0.201	1.25	0.97	--	--	--
Chrysene	140*	0.0438 U	0.0462 U	0.0432 U	0.0699	0.0698	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.365	--	--	--
Dibenzo(a,h)anthracene	0.14*	0.0438 U	0.0462 U	0.0432 U	0.0444	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Dibenzofuran	80*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Diethylphthalate	64000*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0412	0.0376 U	0.0409 U	0.0422 U	--	--	--
Dimethyl phthalate	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Di-n-butyl phthalate	8000*	0.0438 U	0.0462 U	0.0432 U	0.0736	0.25	0.0427 U	0.161	0.0472 U	0.0916	0.13	0.0889	1.42	--	--	--
Di-n-octyl phthalate	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.281	0.0376 U	0.0409 U	0.0422 U	--	--	--
Fluoranthene	3200*	0.0438 U	0.0462 U	0.0432 U	0.0859	0.0608	0.0427 U	0.0651	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.284	--	--	--
Fluorene	3200*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Hexachlorobenzene	0.63*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Hexachlorobutadiene	13*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Hexachlorocyclopentadiene	480*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Hexachloroethane	71*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Indeno(1,2,3-cd)pyrene	1.4*	0.0438 U	0.0462 U	0.0432 U	0.0954	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.226	--	--	--
Isophorone	1100*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Naphthalene	5	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.268	0.0422 U	--	--	--
Nitrobenzene	160*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
N-Nitrosodimethylamine	0.02*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
N-Nitrosodiphenylamine	200*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
N-Nitrosodipropylamine	0.14*	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.0425 U	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.0422 U	--	--	--
Phenanthrene	NV	0.0438 U	0.0462 U	0.0432 U	0.0411 U	0.0408 U	0.0427 U	0.046	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.147	--	--	--
Pyrene	2400*	0.0438 U	0.0462 U	0.0432 U	0.0777	0.112	0.0427 U	0.0958	0.0472 U	0.0385 U	0.0376 U	0.0409 U	0.406	--	--	--
Total Naphthalenes	5	0.0657 U	0.0693 U	0.0648 U	0.0617 U	0.0612 U	0.0641 U	0.0638 U	0.0708 U	0.0578 U	0.0564 U	0.661	0.0633 U	--	--	--
cPAH TEQ	0.1	0.0366	0.0349	0.0326	0.115	0.0313	0.0322	0.0321 U	0.0356	0.0291	0.0284	0.0309	0.368	--	--	--
NWTPH-HCID																
Diesel	NV	DETECT	--	DETECT	DETECT	DETECT	--	DETECT	--	DETECT	--	DETECT	--	--	--	--
Gasoline	NV	ND	--	ND	ND	ND	--	ND	--	ND	--	ND	--	--	--	--
Kerosene	NV	ND	--	ND	ND	ND	--	ND	--	ND	--	ND	--	--	--	--
Lube Oil	NV	DETECT	--	DETECT	DETECT	DETECT	--	DETECT	--	DETECT	--	DETECT	--	--	--	--
Mineral Spirits	NV	ND	--	ND	ND	ND	--	ND	--	ND	--	ND	--	--	--	--
NWTPH-Dx																
Diesel	2000	29	20.8 U	63.6 J	244 J	292	31.7	348	21.2 U	187	62.6	35.8	260	--	--	--
Hydraulic Oil	NV	--	--	--	--	--	--	1050	--	620	206	--	--	--	--	--
Lube Oil	2000	252	69.3 U	336	1100	1360	181	63.9 U	70.8 U	57.7 U	56.5 U	191	2040	--	--	--
Heavy-Oil-Range Hydrocarbons	2000	281	45.05 U	399.6	1344	1652	212.7	1430.0	46 U	835.9	296.9	226.8	2300	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA01	HA01	HA02	HA03	HA04	HA04	HA05	HA05	HA06	HA06	HA07	HA07	HA08	HA08	HA09
Sample Date		3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	5/29/2012	5/29/2012	5/29/2012
Depth (ft bgs)		0.5	1.5	0.5	0.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5
NWTPH-Gx																
Gasoline	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs																
Aroclor 1016	14*	--	--	--	--	0.000408 U	0.000427 U	0.000425 U	0.00047 U	0.000385 U	0.00038 U	0.000409 U	0.00211 U	--	--	--
Aroclor 1221	NV	--	--	--	--	0.000408 U	0.000427 U	0.000425 U	0.00047 U	0.000385 U	0.00038 U	0.000409 U	0.00211 U	--	--	--
Aroclor 1232	NV	--	--	--	--	0.000408 U	0.000427 U	0.000425 U	0.00047 U	0.000385 U	0.00038 U	0.000409 U	0.00211 U	--	--	--
Aroclor 1242	NV	--	--	--	--	0.062	0.00256	0.00766	0.00047 U	0.0169	0.00038 U	0.0106	0.0845	--	--	--
Aroclor 1248	NV	--	--	--	--	0.000408 U	0.000427 U	0.000425 U	0.00047 U	0.000385 U	0.00038 U	0.000409 U	0.00211 U	--	--	--
Aroclor 1254	0.5*	--	--	--	--	0.24	0.00496	0.063	0.00047 U	0.0393	0.0392	0.0876	0.334	--	--	--
Aroclor 1260	0.5*	--	--	--	--	0.264	0.00684	0.0587	0.00047 U	0.0608	0.0557	0.165	0.57	--	--	--
Aroclor 1262	NV	--	--	--	--	0.000408 U	0.000427 U	0.000425 U	0.00047 U	0.000385 U	0.00038 U	0.000409 U	0.00211 U	--	--	--
Aroclor 1268	NV	--	--	--	--	0.000408 U	0.000427 U	0.000425 U	0.00047 U	0.000385 U	0.00038 U	0.000409 U	0.00211 U	--	--	--
Total PCBs	1	--	--	--	--	0.567	0.0156	0.131	0.00047 U	0.118	0.0962	0.264	0.995	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA09	HA10	HA10	HA11	HA11	HA12	HA12	HA13	HA13	HA14	HA14	HA15	MW-03	MW-03
Sample Date		5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/30/2012	5/31/2012	5/31/2012
Depth (ft bgs)		1.5	0.5	1.5	0.5	1.5	0.5	1.1	0.5	1.5	0.5	1.5	0.5	1	1.5
Metals															
Aluminum	80000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	20	--	7.16	--	--	--	--	--	4.22	--	6.49	--	7.28	--	--
Cadmium	2	--	3.97	2.4	--	--	--	--	2.03	0.292	7.16	1.55	1.25	--	--
Chromium (Total)	2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	3200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	250	--	639	203	--	--	--	--	--	--	--	--	--	--	--
Mercury	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	24000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BTEX															
Benzene	0.03	--	0.046 U	--	0.07 U	0.65	0.06 U	--	--	--	--	--	--	0.056	0.069 U
Ethylbenzene	6	--	0.18 U	--	0.38	--	0.24 U	--	--	--	--	--	--	0.22	0.28 U
Total Xylenes	9	--	0.55 U	--	0.84 U	--	0.72 U	--	--	--	--	--	--	0.74	0.83 U
Toluene	7	--	0.18 U	--	0.28 U	--	0.24 U	--	--	--	--	--	--	0.16 U	0.28 U
VOCs															
1,1,1,2-Tetrachloroethane	38*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	18*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	4000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	0.033*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	35*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	1.3*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	11*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA09	HA10	HA10	HA11	HA11	HA12	HA12	HA13	HA13	HA14	HA14	HA15	MW-03	MW-03
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/30/2012	5/31/2012	5/31/2012
	Depth (ft bgs)	1.5	0.5	1.5	0.5	1.5	0.5	1.1	0.5	1.5	0.5	1.5	0.5	1	1.5
2-Butanone	48000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	6400*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	72000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	16*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	130*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	110*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobromomethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	12*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	16000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA09	HA10	HA10	HA11	HA11	HA12	HA12	HA13	HA13	HA14	HA14	HA15	MW-03	MW-03
Sample Date		5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/30/2012	5/31/2012	5/31/2012
Depth (ft bgs)		1.5	0.5	1.5	0.5	1.5	0.5	1.1	0.5	1.5	0.5	1.5	0.5	1	1.5
Tetrachloroethene	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-dichloroethene	1600*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane	24000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	0.67*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs															
1,2,4-Trichlorobenzene	35*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	7200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	35*	--	0.024	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	80*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	6400*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	320*	--	0.07	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	800*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenylphenyl ether	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	5*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenylphenyl ether	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	4800*	--	0.00667 U	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	1*	--	0.00667 U	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	24000*	--	0.00733	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	1.4*	--	0.0107	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	0.014	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1.4*	--	0.0473	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(ghi)perylene	NV	--	0.044	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	14*	--	0.0107	--	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	320000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl alcohol	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	0.91*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA09	HA10	HA10	HA11	HA11	HA12	HA12	HA13	HA13	HA14	HA14	HA15	MW-03	MW-03
Sample Date		5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/30/2012	5/31/2012	5/31/2012
Depth (ft bgs)		1.5	0.5	1.5	0.5	1.5	0.5	1.1	0.5	1.5	0.5	1.5	0.5	1	1.5
Bis(2-ethylhexyl)phthalate	71*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	530*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	140*	--	0.0207	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	0.14*	--	0.0193	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	80*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	64000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	8000*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	3200*	--	0.026	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	3200*	--	0.00667 U	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.63*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	13*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	480*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	71*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	1.4*	--	0.028	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	1100*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	5	--	0.048	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	160*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine	0.02*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	200*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodipropylamine	0.14*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	NV	--	0.0267	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	2400*	--	0.0273	--	--	--	--	--	--	--	--	--	--	--	--
Total Naphthalenes	5	--	0.142	--	--	--	--	--	--	--	--	--	--	--	--
cPAH TEQ	0.1	--	0.0258	--	--	--	--	--	--	--	--	--	--	--	--
NWTPH-HCID															
Diesel	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kerosene	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mineral Spirits	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NWTPH-Dx															
Diesel	2000	--	103	--	--	--	--	--	--	--	--	--	--	--	--
Hydraulic Oil	NV	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil	2000	--	522	--	--	--	--	--	--	--	--	--	--	--	--
Heavy-Oil-Range Hydrocarbons	2000	--	625	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results (mg/kg)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	HA09	HA10	HA10	HA11	HA11	HA12	HA12	HA13	HA13	HA14	HA14	HA15	MW-03	MW-03
Sample Date		5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/30/2012	5/31/2012	5/31/2012
Depth (ft bgs)		1.5	0.5	1.5	0.5	1.5	0.5	1.1	0.5	1.5	0.5	1.5	0.5	1	1.5
NWTPH-Gx															
Gasoline	30	--	4.61 U	--	--	--	--	--	--	--	--	--	--	--	--
PCBs															
Aroclor 1016	14*	--	0.000449 U	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	NV	--	0.000449 U	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	NV	--	0.000449 U	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	NV	--	0.000449 U	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	NV	--	0.097	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	0.5*	--	0.154	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	0.5*	--	0.119	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1262	NV	--	0.000449 U	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1268	NV	--	0.000449 U	--	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	1	--	0.371	--	--	--	--	--	--	--	--	--	--	--	--

Table 4
Groundwater Analytical Results (µg/L)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP01	GP09		GP10		GP11	MW-01	MW-01 (Duplicate)	MW-02	MW-03
	Sample Date	3/21/2012	3/21/2012	3/21/2012	3/22/2012	3/21/2012	3/22/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012
	Depth (ft bgs)	10	7	38	10	38	8	37.5	37.5	37.5	37.5
Metals, Dissolved											
Aluminum	16000*	50 U	50 U	50 U	808	50 U	--	--	--	--	--
Arsenic	5	0.1 U	0.1 U	0.298	0.1 U	0.194	--	0.553	0.467	0.192	0.453
Cadmium	5	1 U	1 U	1 U	1 U	1 U	--	--	--	--	--
Chromium (Total)	50	5.3	5 U	5 U	5 U	5 U	--	--	--	--	--
Copper	640*	10 U	10 U	10 U	10 U	10 U	--	--	--	--	--
Lead	15	20 U	20 U	20 U	20 U	20 U	--	--	--	--	--
Mercury	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	--	--	--	--	--
Nickel	320*	5 U	5 U	5.4	5 U	5.8	--	--	--	--	--
Zinc	4800*	10.6	10 U	12.4	68.7	13.9	--	--	--	--	--
VOCs											
1,1,1,2-Tetrachloroethane	1.7*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,1,2,2-Tetrachloroethane	0.22*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,1,2-Trichloroethane	0.77*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,1-Dichloroethane	1600*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,1-Dichloroethene	400*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,1-Dichloropropene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2,3-Trichlorobenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2,3-Trichloropropane	0.0015*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2,4-Trichlorobenzene	1.5*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2,4-Trimethylbenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2-Dibromo-3-chloropropane	0.055*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2-Dibromoethane	0.01	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2-Dichlorobenzene	720*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,2-Dichloropropane	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,3,5-Trimethylbenzene	80*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,3-Dichlorobenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,3-Dichloropropane	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
1,4-Dichlorobenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
2,2-Dichloropropane	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
2-Butanone	4800*	10 U	10 U	10 U	10 U	10 U	10 U	--	--	--	--
2-Chlorotoluene	160*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
2-Hexanone	NV	10 U	10 U	10 U	10 U	10 U	10 U	--	--	--	--
4-Chlorotoluene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--

Table 4
Groundwater Analytical Results (µg/L)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MICA Method A CUL	GP01	GP09		GP10		GP11	MW-01	MW-01 (Duplicate)	MW-02	MW-03
			3/21/2012	3/21/2012	3/21/2012	3/22/2012					
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/22/2012	3/21/2012	3/22/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012
Depth (ft bgs)		10	7	38	10	38	8	37.5	37.5	37.5	37.5
4-Isopropyltoluene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
4-Methyl-2-pentanone	640*	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	--
Acetone	7200*	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--
Acrylonitrile	0.081*	5 U	5 U	5 U	5 U	5 U	5 U	--	--	--	--
Benzene	5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	--	--	--	--
Bromobenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Bromodichloromethane	0.71*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Bromoform	5.5*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Bromomethane	11*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Carbon disulfide	800*	2 U	2 U	2 U	2 U	2 U	2 U	--	--	--	--
Carbon tetrachloride	0.63*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Chlorobenzene	160*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Chlorobromomethane	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Chloroethane	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Chloroform	80*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Chloromethane	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
cis-1,2-Dichloroethene	16*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
cis-1,3-Dichloropropene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Dibromochloromethane	0.52*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Dibromomethane	80*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Dichlorodifluoromethane	1600*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Ethylbenzene	700	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Hexachlorobutadiene	0.56*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Isopropylbenzene	800*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
m,p-Xylene	1000	2 U	2 U	2 U	2 U	2 U	2 U	--	--	--	--
Methyl tert-butyl ether	20	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Methylene chloride	5	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	--
Naphthalene	160	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
n-Butylbenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
n-Propylbenzene	800*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
o-Xylene	1600*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
sec-Butylbenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Styrene	1600*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
tert-Butylbenzene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Toluene	1000	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--

Table 4
Groundwater Analytical Results (µg/L)
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Analyte	MTCA Method A CUL	GP01	GP09		GP10		GP11	MW-01	MW-01 (Duplicate)	MW-02	MW-03
Sample Date		3/21/2012	3/21/2012	3/21/2012	3/22/2012	3/21/2012	3/22/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012
Depth (ft bgs)		10	7	38	10	38	8	37.5	37.5	37.5	37.5
trans-1,2-dichloroethene	160*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
trans-1,3-Dichloropropene	NV	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Trichlorofluoromethane	2400*	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Vinyl chloride	0.2	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Total Xylenes	1000	2 U	2 U	2 U	2 U	2 U	2 U	--	--	--	--
PAHs											
1-Methylnaphthalene	1.5*	0.0518 U	0.0514 U	0.0513 U	0.0499 U	0.0613	--	0.048 U	0.048 U	0.048 U	0.048 U
2-Methylnaphthalene	32*	0.0518 U	0.0514 U	0.0513 U	0.0499 U	0.0511 U	--	0.048 U	0.048 U	0.048 U	0.048 U
Acenaphthene	960*	0.0518 U	0.0514 U	0.226	0.0499 U	1	--	0.048 U	0.048 U	0.048 U	0.048 U
Acenaphthylene	NV	0.0518 U	0.0514 U	0.0513 U	0.0499 U	0.0613	--	0.048 U	0.048 U	0.048 U	0.048 U
Anthracene	4800*	0.0518 U	0.0514 U	0.565	0.0499 U	0.798	--	0.048 U	0.048 U	0.048 U	0.048 U
Benzo(a)anthracene	0.12*	0.0518 U	0.0514 U	0.164	0.0499 U	0.123	--	0.048 U	0.048 U	0.048 U	0.048 U
Benzo(a)pyrene	0.1	0.0518 U	0.0514 U	0.144	0.0499 U	0.0613	--	0.048 U	0.048 U	0.048 U	0.048 U
Benzo(b)fluoranthene	0.12*	0.0518 U	0.0514 U	0.133	0.0499 U	0.0511	--	0.048 U	0.048 U	0.048 U	0.048 U
Benzo(ghi)perylene	NV	0.0518 U	0.0514 U	0.0924	0.0499 U	0.0511 U	--	0.048 U	0.048 U	0.048 U	0.048 U
Benzo(k)fluoranthene	1.2*	0.0518 U	0.0514 U	0.0513 U	0.0499 U	0.0511 U	--	0.048 U	0.048 U	0.048 U	0.048 U
Chrysene	12*	0.0518 U	0.0514 U	0.236	0.0499 U	0.153	--	0.048 U	0.048 U	0.048 U	0.048 U
Dibenzo(a,h)anthracene	0.012*	0.0518 U	0.0514 U	0.0513 U	0.0499 U	0.0511 U	--	0.048 U	0.048 U	0.048 U	0.048 U
Fluoranthene	640*	0.0622 J	0.0823	1.16	0.0599	0.818	--	0.048 U	0.048 U	0.048 U	0.048 U
Fluorene	640*	0.0518 U	0.0514 U	0.493	0.0499 U	1.52	--	0.048 U	0.048 U	0.048 U	0.048 U
Indeno(1,2,3-cd)pyrene	0.12*	0.0518 U	0.0514 U	0.0719	0.0499 U	0.0511 U	--	0.048 U	0.048 U	0.048 U	0.048 U
Naphthalene	160	0.194 U	0.194 U	0.194 U	0.11	0.194 U	--	0.076	0.048 U	0.048 U	0.115
Phenanthrene	NV	0.187 J	0.185 J	3.4	0.11	5.46	--	0.048 U	0.048 U	0.048 U	0.048 U
Pyrene	480*	0.0714 U	0.0714 U	1.39	0.0499	0.9	--	0.048 U	0.048 U	0.048 U	0.048 U
Total Naphthalenes	1.5*	0.149 U	0.148 U	0.148 U	0.160	0.184	--	0.12	0.072 U	0.072 U	0.163
cPAH TEQ	0.1	0.0391 U	0.0388 U	0.188	0.03767	0.08791	--	0.0362 U	0.0362 U	0.0362 U	0.0362 U
NWTPH-Dx											
Diesel	500	91.9	84.6	110	96.3	129	--	--	--	--	--
Lube Oil	500	193 U	192 U	193 U	304	198 U	--	--	--	--	--
Heavy-Oil-Range Hydrocarbons	500	188.4	180.6	207	400.3	228	--	--	--	--	--
NWTPH-Gx											
Gasoline	1000	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--

Table 5
Water Quality Data
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Location ID	Date	Time	pH (SU)	Temperature (deg. C)	Conductivity (ms/cm)	DO (mg/L)	Turbidity (NTU)
MW01	06/13/2012	15:37	6.54	12.83	0.228	0.81	2.62
MW02	06/14/2012	9:53	6.40	12.53	0.222	0.08	7.18
MW03	06/14/2012	11:15	6.48	12.47	0.228	0.11	3.04
NOTES: deg. C = degrees Celsius. DO = dissolved oxygen. mg/L = milligrams per liter. ms/cm = millisiemens per centimeter. NTU = nephelometric turbidity units. SU = standard units.							

Table 6
Cost Estimate Alternative 1 - Excavation of All Contaminated Soils
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Remedy Components

- 1 Excavate all impacted soil and dispose off-site.
- 2 Backfill with clean, imported material.
- 3 Scrape non-impacted areas to a minimum depth of 8 inches, but potentially up to 24 inches (cost estimate assumes 12 inches).
- 4 Grade site for stormwater drainage.

Assumptions

- 1 Density of soil = 1.85 tons/CY.
- 2 Density of select borrow = 1.85 tons/CY.
- 3 Density of asphalt = 2 tons/CY.
- 4 The volume of impacted soil reflects areas shown on Figure 7.
- 5 Excavated material will be characterized prior to off-site disposal. For cost estimating purposes, it is assumed that 25% of the material will be hazardous and disposed of at a Subtitle C landfill and 75 % will be non-hazardous and disposed of at a Subtitle D landfill.
- 6 One characterization sample will be taken for every 100 CY of soil to be disposed.
- 7 Excavation extent and hazardous/non-hazardous nature will be characterized to confirm assumptions prior to equipment mobilization (1 day of field labor with XRF).
- 8 Excavation will be screened using field equipment (XRF and PID) to guide the excavation extent prior to confirmation sampling.
- 9 Remedial excavations will be backfilled with clean, imported material and compacted to a minimum of 92%, based on the Modified Proctor Test (ASTM, 2012).
- 10 Final grade in the parking areas will be below the recommended grade for stormwater management and redevelopment.
- 11 Non-impacted soil will be scraped to remove organics and debris. The scrape depth will be a minimum of 8 inches, but may extend to 24 inches. The final scrape depth will be based on field observations.
- 12 Scraped material will be characterized prior to off-site disposal due to the potential for widespread operational impacts. For cost estimating purposes, it is assumed that 5% of the material will be hazardous and disposed of at a Subtitle C landfill and 95 % will be non-hazardous and disposed of at a Subtitle D landfill.
- 13 30% contingency.

Item	Description	Quantity	Units	Unit Cost	Total Cost
Remedial Action					
	Mobilization	1	LS	\$10,000	\$10,000
	Erosion and sediment control	1	LS	\$2,000	\$2,000
	Decomission monitoring well	3	EA	\$2,000	\$6,000
	Excavation				
	Excavate and direct load impacted material	3,275	TON	\$6.50	\$21,284
	Confirmation sampling	50	EA	\$150	\$7,500
	Imported backfill	2,707	TON	\$15	\$40,605
	Backfill and compact excavation	3,275	TON	\$6.50	\$21,288
	Disposal characterization	18	EA	\$300	\$5,400
	Transport and Subtitle C disposal	522	TON	\$225	\$117,383
	Transport and Subtitle D disposal	2,753	TON	\$50	\$137,640
	Contingency			30%	\$111,000
				Remedial Action Subtotal	\$480,100
Professional Services					
	Permitting and agency negotiations	1	LS	\$5,000	\$5,000
	Survey	1	LS	\$5,000	\$5,000
	Remedial design	1	LS	\$25,000	\$25,000
	Procurement	1	LS	\$5,000	\$5,000
	Construction oversight	4	WK	\$14,000	\$56,000
	Reporting	1	LS	\$9,000	\$9,000
	Contingency			30%	\$32,000
				Professional Services Subtotal	\$137,000
TOTAL COST					\$617,100
Notes: % = percent; CY = cubic yard; EA = each; LS = lump sum; XRF = x-ray fluorescence; WK= week; PID= photoionization detector.					

Table 7
Cost Estimate Alternative 2 - Targeted Excavation and Capping
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Remedy Components

- 1 Excavate benzene-impacted soil and dispose off-site.
- 2 Excavate metals-impacted soil; consolidate and cap on-site.
- 3 Scrape non-impacted areas to a minimum depth of 8 inches, but potentially up to 24 inches (cost estimate assumes 12 inches).
- 4 Backfill deep areas on-site with metals-impacted soil.
- 5 Cap and grade site for stormwater drainage; one foot cap depth.

Assumptions

- 1 Density of soil = 1.85 tons/CY.
- 2 Density of select borrow = 1.85 tons/CY.
- 3 Density of asphalt = 2 tons/CY.
- 4 The volume of impacted soil reflects areas shown on Figure 8.
- 5 Excavation of benzene-impacted soil will be screened using field equipment (PID) to guide the excavation extent prior to confirmation sampling.
- 6 Excavated benzene-impacted material will be characterized prior to off-site disposal. For cost estimating purposes, it is assumed that the material will be hazardous and disposed of at a Subtitle C landfill.
- 7 Excavation of metals-impacted soil will be screened using field equipment (XRF) to guide the excavation extents.
- 8 Remedial excavations will be backfilled with clean, imported material and compacted to a minimum of 92%, based on the Modified Proctor Test (ASTM, 2012).
- 9 Non-impacted soil will be scraped to remove organics and debris. The scrape depth will be a minimum of 8 inches, but may extend to 24 inches. The final scrape depth will be based on field observations.
- 10 Scraped material will be characterized prior to off-site disposal due to the potential for widespread operational impacts. For cost estimating purposes, it is assumed that 5% of the material will be hazardous and disposed of at a Subtitle C landfill and 95 % will be non-hazardous and disposed of at a Subtitle D landfill.
- 11 30% contingency.

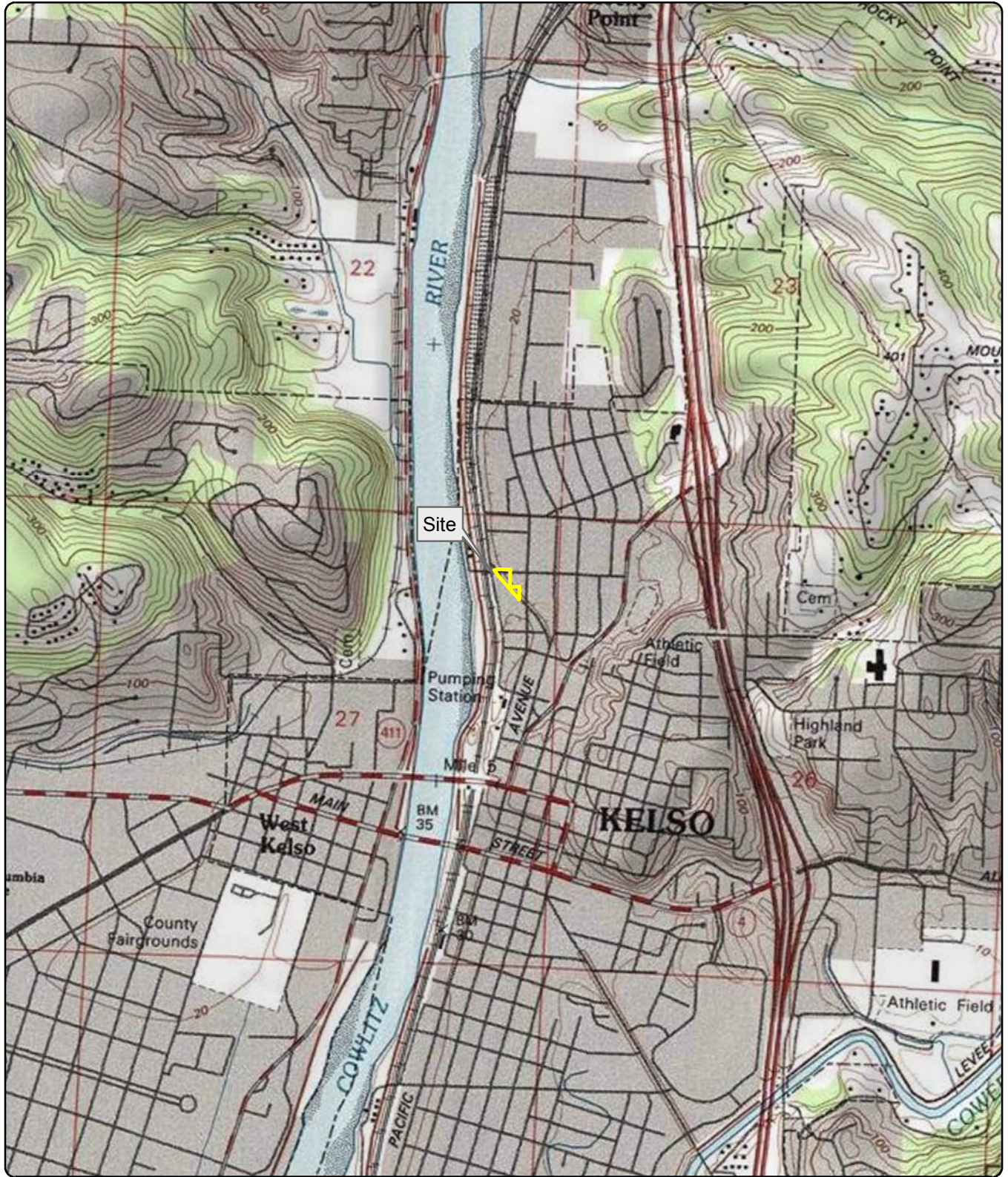
Item	Description	Quantity	Units	Unit Cost	Total Cost
Remedial Action					
	Mobilization	1	LS	\$4,000	\$4,000
	Erosion and sediment control	1	LS	\$2,000	\$2,000
	Decomission monitoring well	3	EA	\$2,000	\$6,000
	Excavation				
	Excavate and direct load impacted material	631	TON	\$6.50	\$4,102
	Confirmation sampling	12	EA	\$150	\$1,800
	Backfill and compact excavation	1,167	TON	\$6.50	\$7,586
	Grading of Impacted soil	1,033	CY	\$3.00	\$3,099
	Disposal characterization	6	EA	\$300	\$1,893
	Transport and Subtitle C disposal of organic strippings	96	TON	\$225	\$21,645
	Transport and Subtitle D disposal of organic strippings	1,071	TON	\$50	\$53,558
	Select granular base for future parking	270	TON	\$19	\$5,130
	Asphalt cap/parking lot	144	TON	\$70	\$10,080
	Contingency			30%	\$36,000
				Remedial Action Subtotal	\$156,900
Professional Services					
	Permitting and agency negotiations	1	LS	\$5,000	\$5,000
	Environmental covenant	1	LS	\$2,000	\$2,000
	Soil Management Plan	1	LS	\$5,000	\$5,000
	Survey	1	LS	\$5,000	\$5,000
	Remedial design	1	LS	\$25,000	\$25,000
	Procurement	1	LS	\$5,000	\$5,000
	Construction oversight	3	WK	\$14,000	\$42,000
	Reporting	1	LS	\$12,000	\$12,000
	Contingency			30%	\$30,000
				Professional Services Subtotal	\$131,000
TOTAL COST					\$287,900
Notes: CY = cubic yard; EA = each; LS = lump sum; PID = photoionization detector; WK= week.					

Table 8
Disproportionate Cost Analysis
Former Terry's Auto Salvage Property, City of Kelso
Kelso, Washington

Alternative	Description	Protectiveness	Permanence	Long-Term Effectiveness	Management of Short-Term Risks	Implementability	Average	Public Concerns	Total Cost
Alternative 1	Excavation and off-site disposal of all impacted soil	5	5	5	4	5	4.8	TBD	\$ 617,100
Alternative 2	Targeted excavation of benzene impacted soil. Consolidation and capping of remaining impacted soil.	5	4	4	5	5	4.6	TBD	\$ 287,900

FIGURES





Site Address: 1124 North Pacific Avenue, Kelso, Washington
 Source: US Geological Survey (1990) 7.5-minute topographic quadrangle: Kelso
 Section 27, Township 8N, Range 2W

Figure 1
Site Location

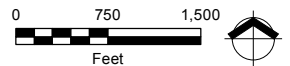
Terry's Auto Salvage
 Kelso, Washington

Legend

 Site

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Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps; parcels obtained from Cowlitz County GIS Department; sample location points collected by Minister-Glaeser Surveying, Inc. on 3/21/2012 and by MFA GPS receiver on 3/20/2012, 3/22/2012, 5/29/2012, and 5/30/2012.

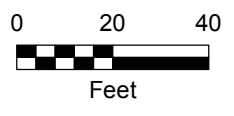
Note: Historical site features and locations are approximated from Department of Ecology initial investigation reports and anecdotal evidence.

Legend

- Sample Location (Boring)
- Sample Location (Hand Auger)
- Monitoring Well Location
- Approximate 2002 Ecology Surface Soil Sample Location
- ⊙ Approximate Former Drum Storage Location
- ▭ Approximate Scrap Car Storage Location
- ⬜ Site Parcels
- ⬜ Parcels (Cowlitz County)

Figure 2
Site Features and Sample Locations

Terry's Auto Salvage
 Kelso, Washington



Path: X:\0443\02\Projects\02\Fig3_Deep Groundwater Elevation Contours.mxd
Print Date: 8/15/2012
Approved By: H. Hirsch
Produced By: j.schane
Project: 0433.02.02/01



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps; parcels obtained from Cowlitz County GIS Department; sample location points collected by Minister-Glaeser Surveying, Inc. on 3/21/2012 and by MFA GPS receiver on 3/20/2012, 3/22/2012, 5/29/2012, and 5/30/2012.

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Legend

- Groundwater Contour (Feet - 1988 North American Vertical Datum)
- Groundwater Sample Location
- Monitoring Well Location
- Site Parcels
- Parcels (Cowlitz County)
- Groundwater Flow Direction (178 degrees from North)

Figure 3 Deep Groundwater Elevation Contours

Terry's Auto Salvage
Kelso, Washington

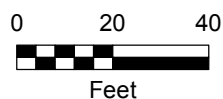
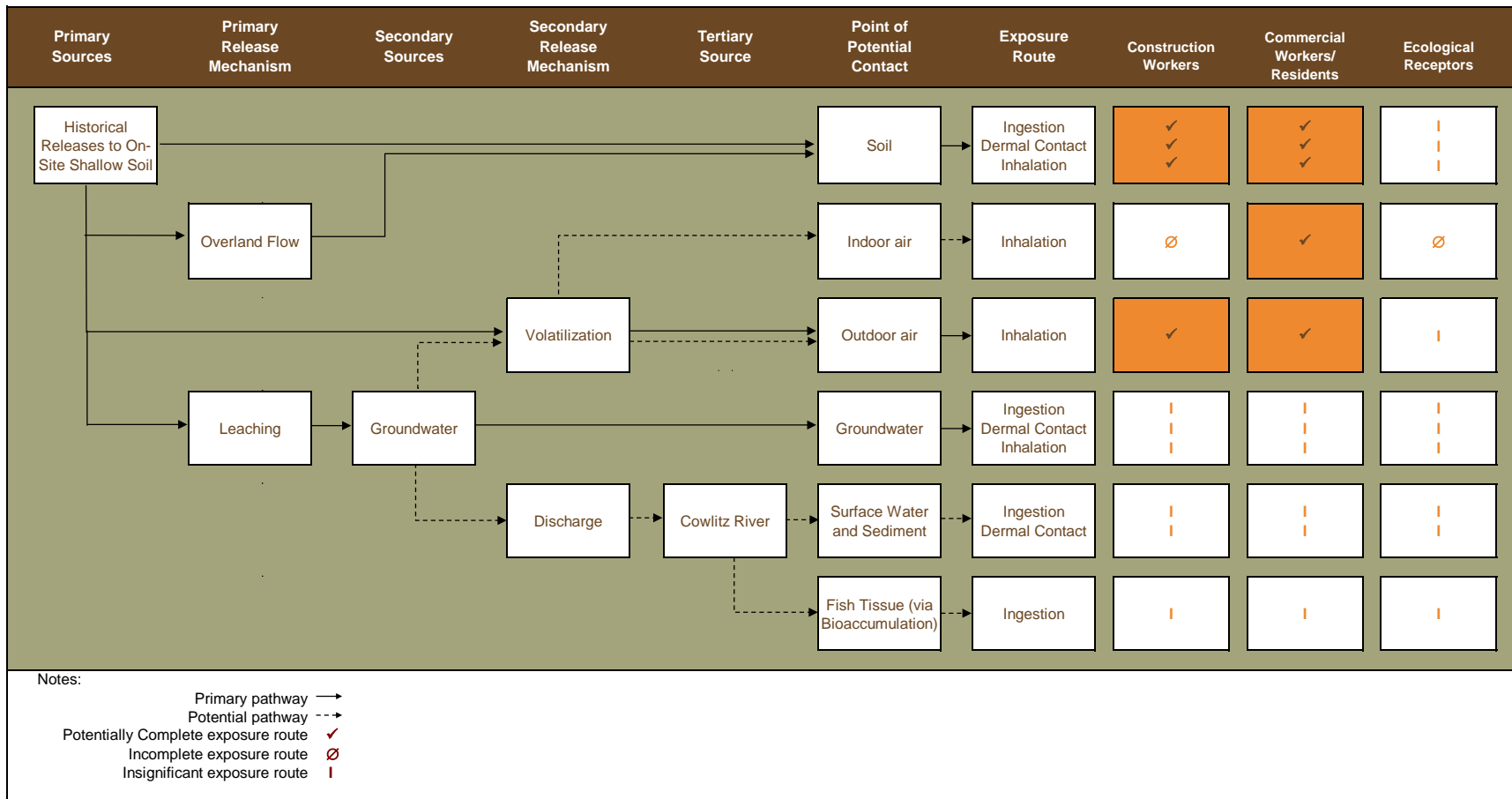
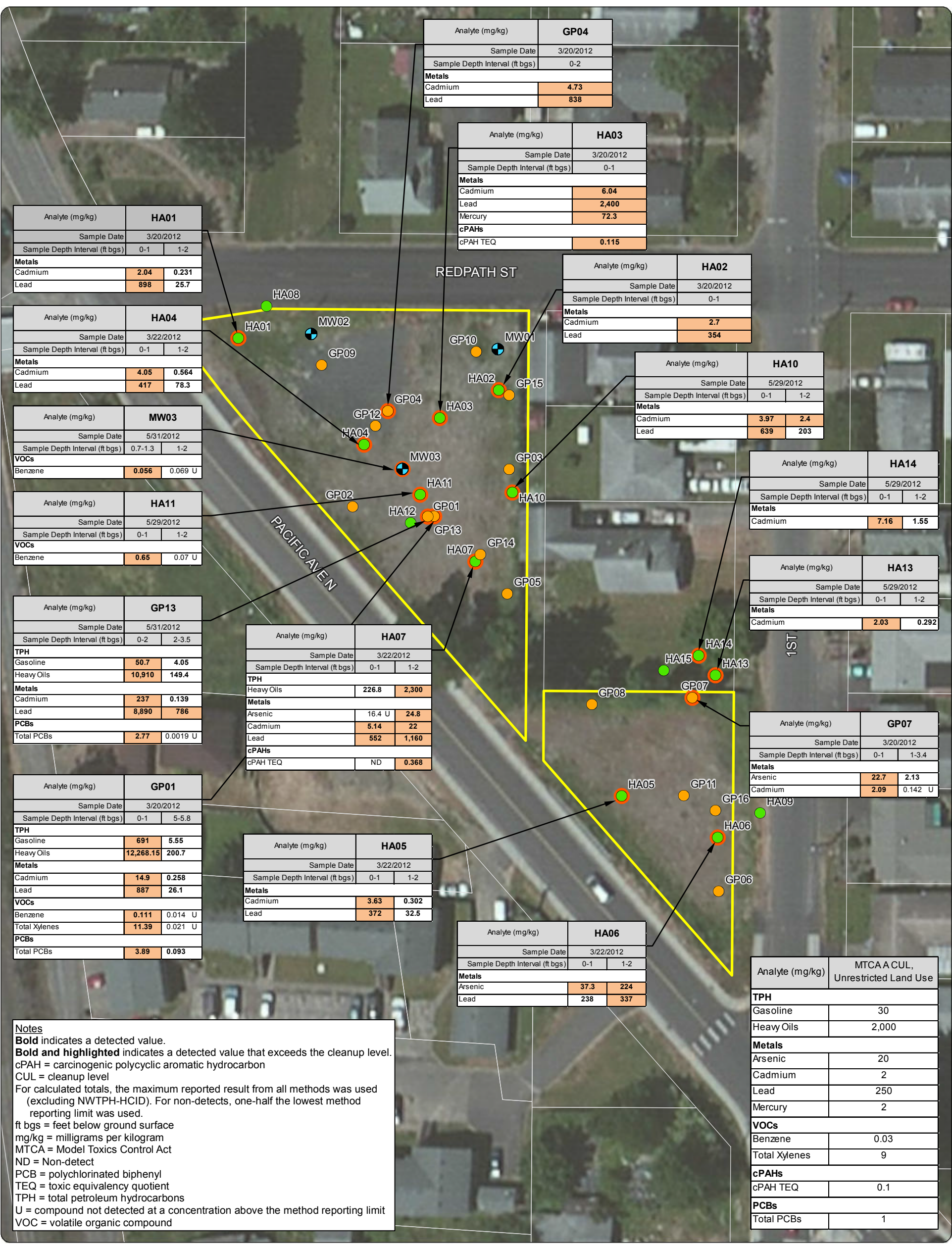


Figure 4
Conceptual Site Model
 Former Terry's Auto Salvage Property, City of Kelso
 Kelso, WA





Path: X:\0443\02\Projects\02\Fig6_Groundwater_Sample_Locations_and_Exceedances.mxd
 Print Date: 8/22/2012
 Approved By: H. Hirsch
 Produced By: jsehane
 Project: 0433.02.02.01



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps; parcels obtained from Cowlitz County GIS Department; sample location points collected by Minister-Glaeser Surveying, Inc. on 3/21/2012 and by MFA GPS receiver on 3/20/2012, 3/22/2012, 5/29/2012, and 5/30/2012.

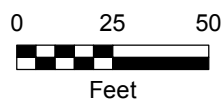
Note: Historical site features and locations are approximated from Department of Ecology initial investigation reports and anecdotal evidence.

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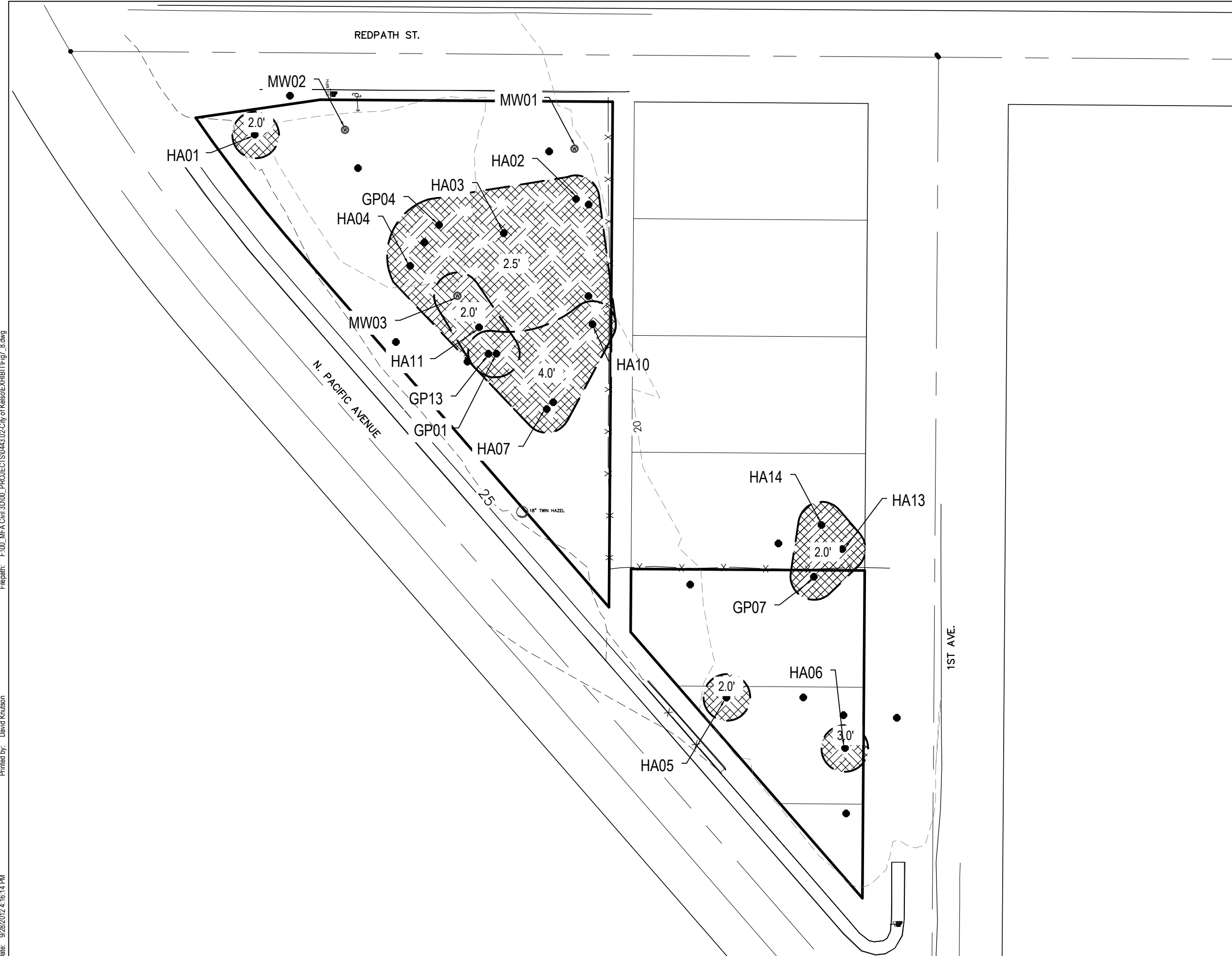
Figure 6
Groundwater Sample Locations and Exceedances

Terry's Auto Salvage
 Kelso, Washington



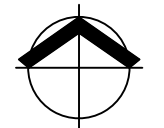
This figure prepared as supplemental visual information only and should not be used for construction purposes. Only plan sheets approved, stamped and signed by a registered professional engineer in the state of governing jurisdiction shall be used for construction. Additionally, only plans approved by the applicable governing jurisdiction(s) shall be used for final construction unless otherwise expressly noted in writing by the engineer of record.

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 Date: 9/28/2012 4:16:14 PM



Legend

- APPX. EXCAVATION EXTENT
- APPX DEPTH OF EXCAVATION, FT
- MONITORING WELL LOCATION
- SITE PARCELS
- PARCELS (COWLITZ COUNTY)
- FENCE
- MAJOR CONTOUR
- MINOR CONTOUR
- SAMPLE LOCATION, EXCEEDANCES LABELED
- SOIL EXCAVATION AND DISPOSAL



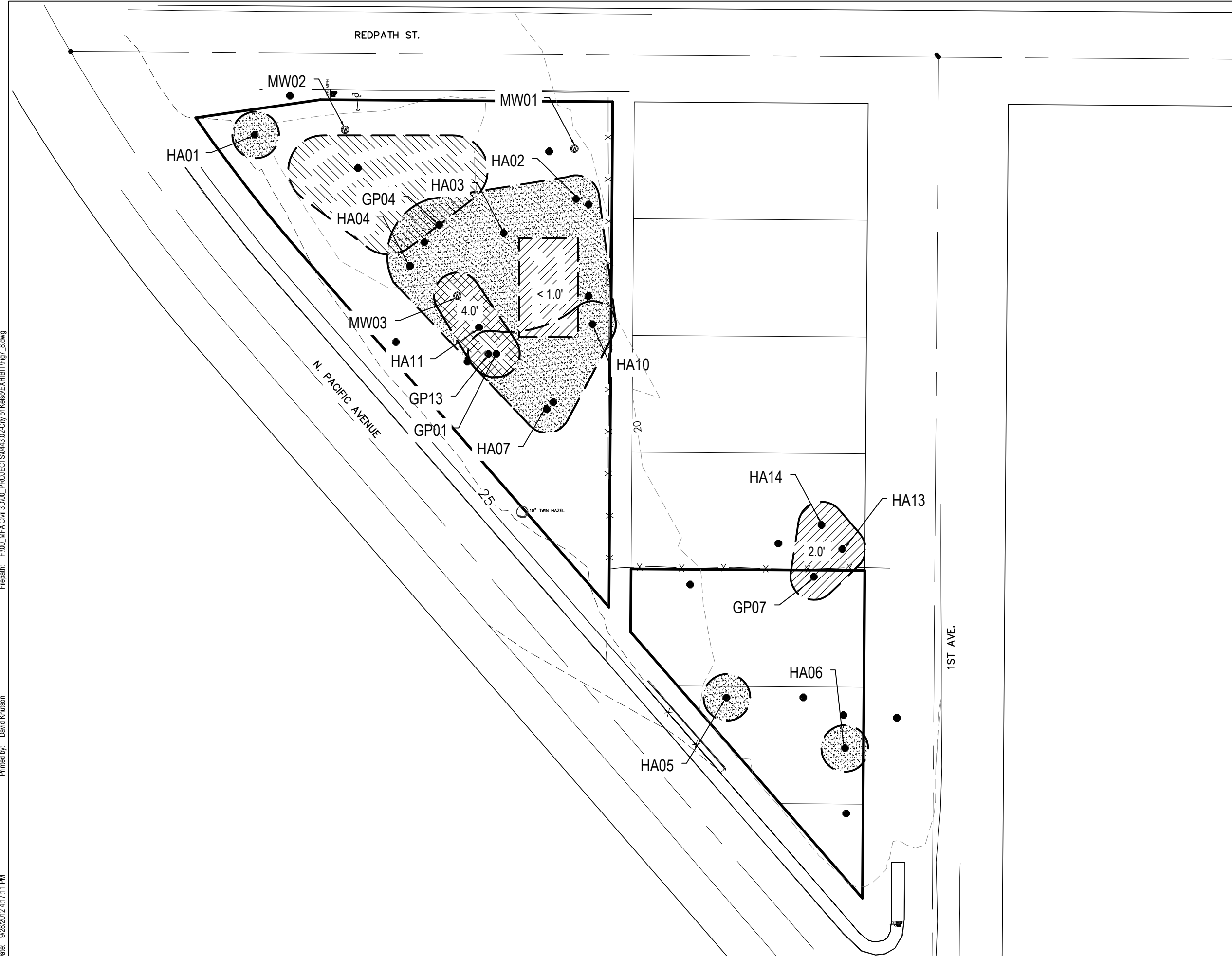
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

Figure 7
Alternative 1
Excavation of All
Contaminated Soil

Terry's Auto Salvage
 Kelso, WA

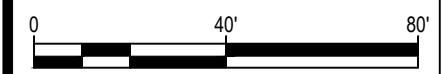
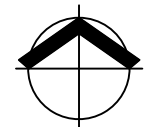
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Legend

- APPX. EXCAVATION EXTENT
- APPX DEPTH OF EXCAVATION, FT
- MONITORING WELL LOCATION
- SITE PARCELS
- PARCELS (COWLITZ COUNTY)
- FENCE
- MAJOR CONTOUR
- MINOR CONTOUR
- EXCEEDANCE SAMPLE LOCATION
- SOIL EXCAVATION AND DISPOSAL
- SOIL CONSOLIDATION AREA, APPX.
- SOIL TO PLACED IN CONSIDATION
- SOIL TO BE CAPPED IN PLACE



NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

Figure 8
Alternative 2
Targeted Excavation
and Capping

Terry's Auto Salvage
 Kelso, WA

APPENDIX A

SAMPLING AND ANALYSIS PLAN



SAMPLING AND ANALYSIS PLAN

TERRY'S AUTO SALVAGE, CITY OF KELSO

Prepared for

CITY OF KELSO

KELSO, WA

March 6, 2012

Project No. 0443.02.02



Prepared by

Maul Foster & Alongi, Inc.

1329 North State Street, Suite 301

Bellingham, WA 98225

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SAMPLING AND ANALYSIS PLAN

TERRY'S AUTO SALVAGE, CITY OF KELSO
*The material and data in this report were prepared
under the supervision and direction of the undersigned.*

MAUL FOSTER & ALONGI, INC.



*Heather Hirsch, LHG
Project Hydrogeologist*

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
City	City of Kelso
COC	chain of custody
Ecology	Washington State Department of Ecology
EPA	Environmental Protection Agency
FSDS	field sampling data sheet
ft bgs	feet below ground surface
IDW	investigation-derived waste
IPG	Integrated Planning Grant
LCS	laboratory control sample
MFA	Maul Foster & Alongi, Inc.
ml	milliliter
MS/MSD	matrix spike and matrix spike duplicate
MTCA	Model Toxics Control Act
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyls
PID	photoionization detector
Property	1124 North Pacific Avenue, Kelso, Washington
QA	quality assurance
QC	quality control
SAP	sampling and analysis plan
SA	Specialty Analytical
SDG	sample delivery group
SVOC	semi-volatile organic compound
USEPA	U.S. Environmental Protection Agency
VOA	volatile organic analysis
VOC	volatile organic compound
WAC	Washington Administrative Code

1 INTRODUCTION

Maul Foster and Alongi, Inc. (MFA) has prepared this Sampling and Analysis Plan (SAP) consistent with the requirements of the Washington Administrative Code (WAC) 173-340-820 for the City of Kelso (the City) to guide the collection of soil and groundwater samples during the site assessment investigation at 1124 North Pacific Avenue in Kelso, Washington (the Property; see Figure 1 [MFA, 2012] of the focused site assessment work plan). The Property historically was used by Terry's Auto Salvage.

The work described in this SAP is being conducted by the City under an Integrated Planning Grant (IPG) provided by the Washington State Department of Ecology (Ecology) and a Brownfield Assessment Grant provided by the U.S. Environmental Protection Agency (EPA). The IPG and Assessment Grant funds will allow the City to assess the environmental condition of the Property. This SAP describes procedures for collection, preservation, and analysis of samples of various environmental media at the site, and will be used for the various phases and tasks of the project. The goal of the sampling is to obtain reliable data about physical, environmental, and chemical conditions at the site that will support the goals and objectives of the site assessment.

This SAP has been prepared consistent with the requirements of Ecology's Guidance on Sampling and Data Analysis Methods (Ecology, 1995) and Guidance for Preparing Quality Assurance Project Plans for Environmental Studies (Ecology, 2004), and the 1993 Model Toxics Control Act (MTCA) (WAC Chapter 173-340).

1.1 Investigation Objectives

The primary objective of the SAP is to establish procedures for the collection of data of sufficient quality to evaluate the nature and extent of impacted soil and groundwater at the site. The site assessment work plan references relevant procedures and protocols from this SAP, and identifies specific media to be sampled and the locations, frequency, and types of field or laboratory analyses that will be conducted.

Soil and groundwater will be investigated on the Property to better define the nature and extent of impacts. Continuous soil cores will either be advanced from ground surface to the boring completion depth. Shallow borings will be completed at approximately 5 feet below ground surface (ft bgs). Some deep soil borings will be advanced through surface alluvium until the water table is encountered while others will be advanced until the first confining unit is encountered or to a depth of 40 ft bgs, whichever is shallower. Soil samples will be collected from the surface, 2.5 feet bgs, and 5 feet bgs from the shallow borings. Soil samples will be collected from the surface, 2.5 feet bgs, 5 feet bgs, every 5 feet thereafter, and the top and bottom of the water table, if applicable, from the deep borings. Soil samples by hand auger will

be collected from 0 to 1 ft bgs and 1 to 2 ft bgs sample intervals. All soil samples will be screened using a photoionization meter or an organic vapor monitor. Visual and olfactory observations concerning each sample will also be recorded. If there is visual or olfactory evidence of impacts, the sample depths may be altered in order to collect samples within and just beneath the impacted areas. Once the investigation is complete, all surface soil samples and at least one soil sample at depth will be analyzed from each boring and the 0 to 1 ft bgs samples will be analyzed from the hand auger locations. If soil impacts are identified, the samples within and just below the impacted areas will also be analyzed.

The SAP is meant to ensure that reliable data about physical, environmental, and chemical conditions at the site are obtained in support of the development of remedial actions at the site if these are necessary to protect human health and the environment. It provides a consistent set of procedures that will be used throughout the various work phases identified in the work plan. If a phase of work or otherwise unforeseen change in methodology requires modification to the SAP, an addendum may be prepared that describes the specific revision(s), or the revisions will be documented in the site assessment report. Procedures are provided that will be used to direct the investigation process so that the following conditions are met:

- Data collected are of high quality, representative, and verifiable.
- Use of resources is cost effective.
- Data can be used by the City and Ecology to support selection and implementation of remedial actions, if necessary.

This SAP describes methods that will be used for sampling environmental media, decontaminating equipment, and managing investigation-derived waste (IDW). It also includes procedures for collecting, analyzing, evaluating, and reporting useful data. The SAP includes all currently foreseen analytical methods that may be used for analyzing environmental samples. The document includes quality assurance (QA) procedures for field activities, sampling QA and quality control (QC) procedures, and data validation.

2 ACCESS AND SITE PREPARATION

2.1 Access

MFA personnel will notify the City and the Ecology project manager before beginning each phase of work at the site. Access to the Property is allowed at all reasonable times for the purpose of overseeing work performed under the IPG.

2.2 Site Preparation and Coordination

Before field sampling programs begin at the site, public and private utility-locating services and other information sources will be used to check for underground utilities or pipelines near each boring or test pit location. MFA will coordinate fieldwork with the City to define the locations of possible on-site utilities and piping, or other subsurface obstructions. Ecology will be notified a minimum of 48 hours before site activities begin.

3 SOIL AND GROUNDWATER EXPLORATION

Exploratory borings will be used to evaluate the nature and extent of potential soil and groundwater impacts at the site. The proposed locations of soil and reconnaissance groundwater borings are shown on Figure 3 (MFA, 2012) of the site assessment work plan. Once the nature and extent of groundwater impacts (if present) have been determined with reconnaissance borings, a monitoring well network may be proposed to Ecology. The procedures for installing and developing monitoring wells are detailed below, in case these are necessary in future scopes of work.

Surface soil samples will either be collected using a truck-mounted hydraulic direct-push drill rig (i.e., Geoprobe™) or a hand auger. The Geoprobe will be used to advance all soil borings and collect soil and/or reconnaissance groundwater samples. It is anticipated that a Geoprobe will be used to install the monitoring wells. Additional details are provided below.

3.1 Geoprobe Borings

Continuous soil samples will be collected with the Geoprobe, using a closed-piston sampling method. Sampling will be completed as follows: coring will start at the surface with a 60-inch-long, 1.5-inch-inside-diameter, stainless-steel macrocore sampler equipped with a new acetate liner and a piston tip. Note the piston tip will be used only as necessary. The sampler will then be pushed to the top of the desired sample depth. The piston tip will be pulled back to the surface, and the macrocore sampler will then be driven 60 inches to collect the sample. If loose or saturated soils are encountered, a basket retainer will be placed inside the shoe of the macrocore sampler. When the macrocore sampler has been extracted, the acetate liner will be removed and cut open, exposing the soil sample. This procedure will be repeated until the boring is completed.

Soil and groundwater samples will be collected with the Geoprobe, as described in Sections 4 and 5. In the event that refusal is met before the desired boring depth is reached (i.e., significant debris or cobbles are encountered), a different type of drilling technology may be used to collect samples (see Section 3.2).

Grab groundwater samples will be collected from the Geoprobe borings as follows:

- For shallow groundwater samples, the boring will be advanced to just below the water table. For deep groundwater samples, the boring will be advanced to the depth of the first confining unit encountered, if applicable, or to a depth of 40 ft bgs, whichever is shallower.
- Groundwater samples will be collected from each boring, using a stainless-steel, 1.5-inch-outer-diameter, 4-foot-long Geoprobe water

sampler. The water sampler will be advanced to the desired depth. The casing around the water sampler will be pulled back, exposing 3 to 4 feet of screen. Water will then be allowed to flow into the screen. The water level will be allowed to stabilize for at least 15 minutes. Wherever possible, one casing volume (and a minimum of 1 liter) will be purged before sample collection. Groundwater will be purged using 0.25-inch polyethylene tubing attached to a vacuum pump or peristaltic pump.

- Some of the water will be decanted into a small beaker, and field parameters (pH, specific conductance, dissolved oxygen, temperature, and oxidation/reduction potential) will be measured.
- Groundwater will be sampled using a peristaltic pump and new polyethylene tubing, a stainless-steel bailer, or new tubing equipped with a stainless-steel foot valve operated as an inertia pump.
- Samples will be labeled, preserved, and shipped to the analytical laboratory under standard chain-of-custody (COC) procedures.
- New disposable tubing will be used to collect only one groundwater sample and will then be disposed of properly. Other equipment used for water sample collection will be decontaminated both before its use at the facility and after each sample is collected.

3.2 Boring Decommissioning

After each boring is completed, it will be decommissioned with bentonite chips or with bentonite grout in accordance with the WAC for Minimum Standards for Construction and Maintenance of Wells (WAC 173-160, 1998). If a temporary well was installed, the polyvinyl chloride casing will be removed before decommissioning. The boreholes will be abandoned by filling them with bentonite chips, granules, or grout slurry through the Geoprobe rod as these implements are removed. When the top of the bentonite chip or granule layer has been brought above the static water level, water will be added to hydrate the bentonite chips or granules. The volume required to fill the borehole and the actual amount of bentonite chips, granules, or grout added will be recorded on a standard MFA boring log (see Appendix A for a sample boring log form).

3.3 Exploratory Boring Logging and Documentation

A log of soil samples from each boring will be prepared in the field by a geologist or hydrogeologist or engineer licensed in the state of Washington or working under the direct supervision of a geologist or engineer licensed in the state of Washington. Boring logs will include the project name and location, the name of the drilling contractor, the drilling method, the sampling method, soil sample depths, blow counts, and a description of soil encountered. Soil samples will be described using American Society for Testing and Materials designation D2488-00, Standard Practice for Description and Identification of Soils (Visual-Manual Procedures). The standard involves describing color, grain size, moisture content, density, organic matter, and

other observed characteristics. The information will be recorded on the MFA boring log form shown in Appendix A.

3.4 Monitoring Well Installation

Monitoring wells will be constructed according to the Washington well construction standards (Chapter 173-160 WAC) and as described below.

- Monitoring wells will be constructed with 2-inch polyvinyl chloride schedule-40 riser pipe and 10-foot-long screened sections. The well screens will consist of 0.010-inch machine slots. The monitoring wells will be constructed with prepacked well screen with 10 x 20 washed silica sand to ensure that a good filter pack surrounds the well.
- Additional filter pack will be placed around the prepacked screen. The additional filter pack will consist of graded 10 x 20 washed silica sand and will extend a maximum of 1 foot below the bottom of the screen and 3 feet above the top of the screen. A weighted line will be used to monitor the level of the filter pack during installation. The filter pack will be surged in approximately 6-foot lifts during installation.
- Bentonite grout or chips (0.75-inch minus) will be used to seal the annulus above the filter pack. Potable water from a municipal supply will be used. A weighted line will be used to measure the top of the bentonite chips as they are poured into place.
- Each wellhead will be completed with a flush-mount monument approximately 1 to 2 inches above the ground surface.
- At least 24 hours after completion of the wells, MFA will develop the wells by surging, bailing, and pumping to remove sediment that may have accumulated during installation and to improve the hydraulic connection with the water bearing zone(s). A minimum of ten well-bore volumes of water will be removed during development.
- Specific conductance, pH, temperature, and turbidity will be measured as deemed appropriate during well development. The wells will be developed until the sediment content is 10 nephelometric turbidity units or less, or until there is no noticeable decrease in turbidity; and specific conductance stabilizes to within 10 percent of the previous reading, pH is within 0.1 standard unit of the previous reading, and temperature is within 0.1 degree Celsius of the previous reading.

3.5 Groundwater Elevations

3.5.1 Reconnaissance Borings

When groundwater is encountered, the static water level will be evaluated. A stationary groundwater measuring point will be established by driving a piece of rebar adjacent to the borehole. The water level in the borehole will be allowed to

equilibrate for approximately 15 minutes. The depth to water from the top of the rebar will then be measured and recorded. After the sampling is complete, the top of the measuring points will be surveyed to within 0.01 foot. These measurements will help establish an estimate of the groundwater flow direction.

3.5.2 Monitoring Wells

Water level measurements from monitoring wells will include measuring the depth to water and the total well depth to the nearest 0.01 ft/0.01m using an electronic water level meter. The depths within wells will be measured from the top of casing (typically the inner casing) at the surveyed elevation point. This reference point will be marked so that readings are consistently taken from the same reference point. Water levels will be measured and recorded on an appropriate field form at each well location prior to purging or sample collection activities. The field form will include fields for date and time of the measurement, depth to water (in feet), and the meter used. In addition, the well condition (including the condition of the lock, monument integrity, and legibility of well labels) will be recorded for each location. Gauging equipment will be decontaminated between wells in accordance with the procedures outlined in section 3.8.

3.6 Surveying

The horizontal location of all borings will be surveyed using a Trimble™ global positioning unit capable of subfoot accuracy. If monitoring wells are installed they will be surveyed by a licensed surveyor.

3.7 Equipment Cleaning and Decontamination

3.7.1 Drilling Equipment

The working area of the drill rig and all downhole drilling equipment will be steam-cleaned or hot-water pressure-washed both after arrival on site and after use in each borehole or monitoring well. The drilling equipment will be thoroughly cleaned, in designated areas, before it leaves the site. Decontamination fluids will be transferred to 55-gallon drums approved by the Washington State Department of Transportation, and will be managed according to the procedures outlined in Section 3.7.

3.7.2 Sampling Equipment

Sampling equipment and reusable materials that contact the soil will be decontaminated on-site and between each sample and each sampling location. Decontamination will consist of the following:

- Tap-water rinse (may consist of an equivalent high-pressure, hot-water rinse)

- Nonphosphate detergent wash, consisting of a dilute mixture of Liqui-Nox and tap water (visible soil to be removed by scrubbing)
- Distilled-water rinse
- Methanol solution rinse (1:1 solution with distilled water)
- Final distilled-water rinse

Before the electronic meter used to measure water levels is used at the site, the entire reel of water-level line will be decontaminated as described above. The portion of the water-level detector that enters the water (the tip) and a 5-foot section above it will also be decontaminated after use in each well.

3.8 Management of Investigation-Derived Waste

IDW will include disposable unsaturated and saturated soil cuttings, purged groundwater, decontamination fluids, and sampling debris. The IDW will be segregated into solids, liquids, and sampling debris (consisting of personal protective equipment, disposable pump discharge tubing, and disposable bailers). IDW will be stored in a designated area on the Property, in 55-gallon drums approved by the Washington Department of Transportation.

Drums (tops and sides) will be labeled with their contents, the volume of material, the date of collection, and the origin of the material. The waste drums will be sealed, secured, and transferred to a designated, secured area on the Property at the end of each workday. The waste will be stored in the designated holding area until it has been characterized. Risk labels will be placed on the drums after characterization, if necessary.

Analytical data from the soil-sampling and groundwater sampling activities previously described will be used to characterize the soil cuttings, drilling fluids, purge water, and decontamination fluids generated during drilling and monitoring well sampling. After the work is complete and analytical results are received MFA can assist the client in arranging for IDW disposal.

4 SOIL SAMPLING

During drilling, soil samples will be collected for lithologic description, field screening, and chemical analyses, as described below. The sampling interval and depth are specified in the work plan.

4.1 Procedure

Before soil samples are collected for chemical analyses, the sample collection device will be decontaminated according to the procedures described in Section 3.7. After the sampling device is retrieved from the borehole, it will be placed on clean plastic sheeting before it is opened. New disposable gloves will be used before the collection of each sample. Samples will be prepared, handled, and documented as follows:

- Soil sampling equipment will be decontaminated before it is used at each sampling location (see Section 3.6).
- Samples will be obtained from intervals specified in the work plan, using a gloved hand or decontaminated stainless-steel spoon, trowel, or knife.
- Soil that will be analyzed for VOCs will be transferred directly from freshly exposed soil into laboratory-supplied containers, using the appropriate 5035A sampling procedures. The samples will be collected with a new 5-milligram sampler and placed in 40-ml VOA vials. Three pre-tared VOA vials will be collected: two with 5 milligrams of soil and preserved with sodium bisulfate monohydrate and one with 10 milligrams of soil and preserved with methanol. A soil sample in a jar with a minimum 8-ounce capacity will accompany the VOA vials to be analyzed for petroleum hydrocarbons and heavy metals.
- Coarse-grained particles (larger than 0.25 inch) may be removed before the sample is placed in a laboratory-supplied container. The amount of coarse-grained material will be recorded on the soil field sampling data sheet (FSDS; see sample form in Appendix B).
- The percentage of coarse-grained material (larger than 0.25 inch) to fine-grained material (smaller than 0.25 inch) will be estimated.
- Soil samples will be transferred directly from the sampling device or stainless steel bowl into laboratory-supplied glass jars, using a gloved hand or decontaminated stainless steel spoon, trowel, or knife.
- Filled containers will be labeled, packed in iced shipping containers with COC documentation (see Section 7), and delivered to the contract laboratory.

- Sampling information will be recorded in a field notebook, on an FSDS, and on the COC form.
- QC samples will include at least one duplicate sample for every 20 samples collected.

4.2 Nomenclature

Soil samples will be labeled with a prefix to describe the type of sampling, a location identification number, an “S” to indicate a soil sample matrix, and sample depth. For example, a soil sample collected from a Geoprobe boring at location 12 and at 20 feet bgs will have the sample number GP12-S-20.0.

Duplicate soil samples will replace the location number with “DUP” and the sample will have the same sample time as the primary sample. A duplicate sample of the abovementioned sample would appear as GPDUP-S-20.0.

The depth interval will be specified as the middle of the sampling interval. Samples will be documented on an FSDS (see Appendix B) and the exploratory boring log (see Appendix A). The sample interval and the amount of material recovered will be recorded on the boring log.

4.3 Laboratory Analyses for Soil Samples

Soil samples will be analyzed for the parameters specified in the work plan, using the following methods, if applicable:

- Petroleum compounds by the Northwest Total Petroleum Hydrocarbon Identification Method, NWTPH-HCID.
- Gasoline-range organics, and diesel- and residual-range organics by the Northwest Total Petroleum Hydrocarbon Method; NWTPH-Gx and NWTPH-Dx, respectively.
- Metals (aluminum, arsenic, lead, cadmium, total chromium, copper, nickel, and zinc), using the U.S. Environmental Protection Agency (USEPA) Methods 6010/6020 and mercury by USEPA Method 7471.
- VOCs by USEPA Method 8260B.
- Semi-volatile organic compounds (SVOCs) by USEPA Method 8270C.
- Benzene, ethylbenzene, toluene, and xylenes (BETX) by USEPA Method 8021 or 8260B, depending on method reporting limits.
- Polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270 selective ion monitoring.
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082.

5 GROUNDWATER SAMPLING

During drilling, reconnaissance groundwater samples will be collected for chemical analyses, as described below. The sampling depth is specified in the work plan. In the event that monitoring wells are installed, groundwater samples will be collected following the procedure outlined below.

5.1 Procedure

Sampling methods will be designed to collect samples representative of in situ groundwater. Groundwater samples will be extracted using a peristaltic pump and dedicated tubing if head levels allow use of a suction lift pump. Water samples will be collected in 500-ml polyethylene bottles, 1-liter glass amber bottles, and VOA vials.

5.1.1 Reconnaissance Groundwater Sampling

Reconnaissance groundwater samples will be collected using a 4-foot-long, 1.5-inch-outside-diameter, Geoprobe-type water sampler. The sampler will be pushed to the desired depth and pulled back approximately 4 feet, exposing the internal stainless steel well point screen. Groundwater samples will be collected using conventional methods associated with the direct-push drilling method (e.g., inertia or peristaltic pump). Before groundwater sampling, the borehole will be purged to minimize solids and ensure that a representative sample is collected.

The inertia pump will be used if the groundwater is too deep to retrieve with a peristaltic pump. Groundwater will be drawn into single-use tubing with a foot-valve using the tubing as an inertia pump. After groundwater is drawn into the tubing, the tubing will be retracted slowly from the rods and coiled. Groundwater collected for VOC analysis will be transferred directly from the tubing into the laboratory-supplied containers during retraction, in a manner that will minimize the loss of VOCs.

Groundwater will be transferred directly into laboratory-supplied containers specific to the analysis required. The following field parameters will be measured: temperature, specific conductance, pH, and turbidity.

5.1.2 Monitoring Well Groundwater Sampling

Groundwater samples will be collected from monitoring wells according to standard low-flow sampling techniques. Groundwater samples will be collected from the middle of the screened interval or, if the water level is below the top of the screen, from the middle of the water column. New disposable tubing will be used at each monitoring location.

Prior to collecting groundwater samples, the water level will be measured and the well will be purged. Each well will be purged prior to sampling using a peristaltic pump with new disposable tubing at a flow rate of 0.1 to 0.5 L/min. A minimum of three well volumes will be purged prior to sample collection or until selected water quality parameters (e.g., temperature, electrical conductance, pH, turbidity, etc.) have stabilized. During purging, the flow rates, water levels, and water quality parameters will be recorded on an appropriate field form. Groundwater will be pumped directly into laboratory-supplied containers specific to the analysis required.

5.2 Nomenclature

Reconnaissance groundwater samples will be labeled with a prefix to describe the type of sampling, a location identification number, a “W” to indicate a water sample matrix, and the midpoint of the screened or open area sample depth. For example, a reconnaissance groundwater sample collected from a Geoprobe boring at location 4 and with an open screen from 30 feet to 35 feet bgs will have the sample number B4-W-32.5.

Duplicate reconnaissance groundwater samples will replace the location number with “DUP” and the sample will have the same sample time as the primary sample. A duplicate sample of the abovementioned sample would appear as GPDUP-W-32.5.

Samples will be documented on an FSDS (see Appendix B) and the exploratory boring log (see Appendix A); documentation will include the screened interval or open space, equipment used, water parameters (i.e., temperature, specific conductance, pH, and turbidity), and the amount of water purged before sampling. The screened interval or open borehole will be recorded on the boring log.

5.3 Laboratory Analyses for Groundwater Samples

Groundwater samples will be analyzed for the parameters specified in the work plan, using the following methods:

- Gasoline-range organics, and diesel- and residual-range organics by the Northwest Total Petroleum Hydrocarbon Method; NWTPH-Gx and NWTPH-Dx, respectively.
- Dissolved metals (aluminum, arsenic, lead, cadmium, total chromium, copper, nickel, and zinc), using the U.S. Environmental Protection Agency (USEPA) Methods 6010/6020 and mercury by USEPA Method 7471.
- VOCs by USEPA Method 8260B.
- SVOCs by USEPA Method 8270C.

6 SOIL VAPOR SAMPLING

In the event that soil or groundwater chemical concentrations indicate that chemical concentrations in soil vapor may be contributing impacts to indoor or outdoor air quality, soil vapor sampling may be conducted. In this case, soil vapor sampling will be conducted as described below.

6.1 Procedure

Soil borings for soil vapor sample collection will be advanced using a Geoprobe. A “Post Run Tubing” (PRT) system will be used to eliminate problems that may occur with sampling directly through the steel rods. The PRT system uses an adapter and tubing to isolate the soil gas sample from the drill rods, thereby eliminating possible leaks of ambient air from the rod joints into the sample. A PRT point holder and expendable point are attached to the leading end of a sampling screen and the drill rods will be advanced to the desired soil depth above the water table, making sure to target relatively permeable zones such as sands. The PRT adapter attached to the sample tubing is threaded into the reverse thread fitting in the top of the point holder. The rods will then be retracted to release the expendable point, exposing the screen, and creating an opening where soil gas can enter the PRT. The upper end of the tubing will be connected to the purging/sampling system. A flow controller will be attached to the sample setup to regulate the flow of soil vapor into the sample container. The line will be purged for at least one minute or a period of time sufficient to achieve a purge volume that equals at least three pore volumes, and then the sample will be collected. Helium will be contained around the sampling apparatus and sampling location, using a small tent-like structure, to serve as a leak-check compound. The helium test will verify the integrity of the sampling system before the sample is collected. See the attached Figure 1 (MFA, 2012) for sample system configuration.

6.2 Nomenclature

Soil vapor samples will be labeled with a prefix to describe the type of sampling, a location identification number, “SV” to indicate the soil vapor sample matrix, and the midpoint of the screened or open area sample depth. For example, a soil vapor sample collected from a Geoprobe boring at location 4 and with an open screen from 5 feet to 7 feet bgs will have the sample number B4-SV-6.

Duplicate soil vapor samples will replace the location number with “DUP” and the sample will have the same sample time as the primary sample. A duplicate sample of the abovementioned sample would appear as GPDUP-SV-6.

Samples will be documented on an FSDS (see Appendix B) and the exploratory boring log (see Appendix A); documentation will include the screened interval or

open space, equipment used, and PID readings. The screened interval or open borehole will be recorded on the boring log.

6.3 Laboratory Analyses for Soil Vapor Samples

In the event that soil vapor sampling is recommended at the site, chemical analyses will be finalized based on chemical impacts observed in soil and/or groundwater. Samples may be analyzed for the full list of VOCs or for selected VOC compounds by Modified USEPA Method TO-15 single-ion monitoring method to achieve low reporting limits. Air Toxics of Folsom, California, will provide a 6-liter, stainless steel canister (Summa© canister) for each sample.

7 ANALYTICAL METHODS

7.1 Chemicals of Interest

Lube oil was detected in surface soil during a previous investigation. The following additional chemicals may be associated with known or suspected former site activities and have been identified as chemicals of interest (COIs): petroleum-related chemicals, metals, VOCs, SVOCs, PAHs, and PCBs.

7.2 Laboratory Test Methods and Reporting Limits

In accordance with the QA/QC requirements set forth in this work plan, Specialty Analytical (SA) of Clackamas, Oregon, will perform the following analyses using the methods specified: hydrocarbon identification analysis using NWTPH-HCID; gasoline-range organics, and diesel- and residual-range organics using NWTPH-Gx and -Dx, respectively; VOCs using Method 8260B and soil prep method 5035A; metals (aluminum, arsenic, lead, cadmium, total chromium, copper, nickel, and zinc) using Method 6010/6020; mercury using Method 7471; SVOCs using Method 8270C; BETX using Method 8021; PAHs using Method 8270 selective ion monitoring; and PCBs using Method 8082. Soil samples will initially be analyzed for metals and hydrocarbon identification by NWTPH-HCID. If the hydrocarbon identification results indicate that diesel- or residual-range organics are detected in a soil sample, then analyses for the following COIs will also be requested: diesel- and residual-range organics by NWTPH-Dx; only BETX from the full VOC list (the full list of VOCs will be requested if gasoline-range organics are also detected); SVOCs; PAHs; and PCBs. However, if the hydrocarbon identification results indicate that only gasoline-range organics are detected in a soil sample, then only gasoline-range organics by NWTPH-Gx and the full list of VOCs will be requested as a follow up. All groundwater samples will be analyzed for gasoline-, diesel-, and residual-range organics; the full list of VOCs; SVOCs; and dissolved metals.

7.3 QA/QC Samples Generated in Field

To ensure that field samples and quantitative field measurements are representative of the media collected and conditions being measured, sample collection and measurement methods will follow procedures documented in Section 4. QC samples collected in the field include field equipment rinsate blanks, trip blanks, and field duplicates. Duplicate field samples and field blanks will be submitted blind to the laboratory. Field QC samples will be clearly identified on the FSDSs. Field and trip blank results may indicate possible contamination introduced by field or laboratory procedures; field duplicates indicate overall precision in both field and laboratory procedures.

7.4 Laboratory Operations

In the laboratory, QC samples will include matrix spike/matrix spike duplicate (MS/MSD) samples, laboratory control samples (LCSs), surrogate spike samples, and method blanks, as well as other QC samples and procedures as required by the individual methods.

7.5 Sample Containers, Preservation, and Handling

7.5.1 Preservation

Water samples for gasoline and VOC analyses will be collected in hydrochloric-acid-preserved, 40-ml glass VOA vials. Water samples for diesel-range organics, SVOCs, and PAHs will be collected in unpreserved, 1-liter, amber glass bottles. Water samples for metals will be collected in sulfuric-acid-preserved, 500-ml polyethylene bottles.

Soil samples for gasoline and VOC analyses will be collected in jars, using the 5035A syringe method. All other soil samples will be collected in glass jars. The samples will be stored in iced coolers at $4^{\circ} \pm 2$ Celsius. Sample containers will be supplied by the laboratory.

7.5.2 Sample Packaging and Shipping

Samples will be stored in iced shipping containers or a refrigerator designated for samples, and then transported by courier to SA in iced shipping containers with a custody seal affixed.

7.6 Sample Custody

Sample custody will be tracked from point of origin through final analysis and disposal, using a COC form, which will be filled out with the appropriate sample and analytical information as soon as possible after samples are collected. For purposes of this work, custody will be defined as follows:

- In plain view of MFA field representatives
- Inside a cooler that is in plain view of MFA field representatives
- Inside any locked space such as a cooler, locker, car, or truck to which the MFA field representatives have the only available key(s)

The following items will be recorded on the COC form:

- Project name
- Project number
- MFA project manager

- Sampler name(s)
- Sample number, date and time collected, media, number of bottles submitted
- Requested analyses for each sample
- Type of data package required
- Turnaround requirements
- Signature, printed name, organization name, date, and time of transfer of all persons having custody of samples
- Additional instructions or considerations that would affect analysis (nonaqueous layers, archiving, etc.)

Persons in possession of the samples will be required to sign and date the COC form whenever samples are transferred between individuals or organizations. The COC will be included in the shipping containers with the samples, and the containers will be sealed with a laboratory custody seal. The laboratory will implement its in-house custody procedures, which begin when sample custody is transferred to laboratory personnel.

If samples are shipped via air or ground transportation (by a third party), the following custody procedures will be followed. The COC will be signed and custody will be relinquished. The signed COC(s) will be packed in shipping containers with the samples, and a custody seal will be placed on the container to reduce the potential for tampering. The samples will be shipped with proper shipping insurance. Signed documentation will be obtained from the shipper, acknowledging receipt of the samples. The shipping document will be used to track the samples while they are in transit to the laboratory.

At the analytical laboratory, a designated sample custodian will accept custody of the received samples and will verify that the COC form matches the samples received. The shipping container or set of containers is given a laboratory identification number, and each sample is assigned a unique sequential identification number that includes the original shipping container identification number.

7.7 Field Instrumentation

Field instruments will be used during the investigations. The following field equipment will require calibration before use and periodically during sampling activities:

- pH meter
- Conductivity meter
- Dissolved oxygen
- Oxygen/reduction potential meter

- Turbidity meter
- Thermometer
- PID
- Electronic water-level probe

Field-instrument calibration and preventive maintenance will follow the manufacturers' guidelines, and any deviation from the established guidelines will be documented. Generally, field instruments will be calibrated daily before work begins. Field personnel may decide to calibrate more than once a day if inconsistent or unusual readings occur, or if conditions warrant more frequent calibration. Calibration activities will be recorded in instrument-specific logbooks or field notebooks.

7.7.1 Field Calibration

Calibration procedures, calibration frequency, and standards for measurement will be conducted according to manufacturers' guidelines. To ensure that field instruments are properly calibrated and remain operable, the following procedures will be used, at a minimum:

- Operation, maintenance, and calibration will be performed in accordance with the instrument manufacturers' specifications.
- All standards used to calibrate field instruments will meet the minimum requirements for source and purity recommended in the equipment operation manual. Standards will be used before any expiration dates that may be printed on the bottle.
- Acceptable criteria for calibration will be based on the limits set in the operations manual.
- All users of the equipment will be trained in the proper calibration and operation of the instrument.
- Operation and maintenance manuals for each field instrument will be brought to the site.
- Field instruments will be inspected before they are taken to the site.
- Field instruments will be calibrated at the start and end of each work period. Meters will be recalibrated, as necessary, during the work period.
- Calibration procedures (including time, standards used, and calibration results) will be recorded in a field notebook. Although not reviewed during routine QA/QC checks, the data will be available if problems are encountered.

7.7.2 Preventive Maintenance

Preventive maintenance of field instruments and equipment will follow the operations manuals. A schedule of preventive-maintenance activities will be followed to minimize downtime and ensure the accuracy of measurement systems. Maintenance will be documented in the field notebook.

7.8 Laboratory Instrumentation

Specific laboratory instrument calibration procedures, frequency of calibration, and preparation of calibration standards will be according to the method requirements as developed by the USEPA, following procedures presented in SW-846 (USEPA, 1986).

7.9 Laboratory Calibration and Preventive Maintenance

The laboratory calibration ranges specified in SW-846 (USEPA, 1986) will be followed.

Preventive maintenance of laboratory equipment will be the responsibility of the laboratory personnel and analysts. This maintenance includes routine care and cleaning of instruments and inspection and monitoring of carrier gases, solvents, and glassware used in analyses. The preventive-maintenance approach for specific equipment will follow the manufacturers' specifications and good laboratory practices.

Precision and accuracy data will be examined for trends and excursions beyond control limits to determine evidence of instrument malfunction. Maintenance will be performed when an instrument begins to change, as indicated by the degradation of peak resolution, shift in calibration curves, decrease in sensitivity, or failure to meet any of the QC criteria.

7.10 Laboratory QA/QC Checks

USEPA Method 8260 includes specific instructions for the analysis of QC samples and the completion of QC procedures during sample analysis. These QC samples and procedures verify that the instrument is calibrated properly and remains in calibration throughout the analytical sequence, and that the sample preparation procedures have been effective and have not introduced contaminants into the samples. Additional QC samples are used to identify and quantify positive or negative interference caused by the sample matrix. The following laboratory QC procedures are required for most analytical procedures:

- **Calibration Verification**—Initial calibration of instruments will be performed at the start of the project or sample run, as required, and when any ongoing calibration does not meet control criteria. The number of points used in the initial calibration is defined in the analytical method. Continuing calibration will be performed as specified in the analytical method to track instrument performance. If a continuing calibration does

not meet control limits, analysis of project samples will be suspended until the source of the control failure is either eliminated or reduced to within control specifications. Any project samples analyzed while the instrument was outside of control limits will be reanalyzed.

- **Method Blanks**—Method blanks are used to assess possible laboratory contamination of samples associated with all stages of preparation and analysis of samples and extracts. The laboratory will not apply blank corrections to the original data. A minimum of one method blank will be analyzed for every sample extraction group, or one for every 20 samples, whichever is more frequent.
- **MS/MSD Samples**—MS samples are analyzed to assess the matrix effects on the accuracy of analytical measurements. A minimum of one MS will be analyzed for each sample delivery group (SDG), or one for every 20 samples, whichever is more frequent. For VOAs, MSD samples will be analyzed for each SDG, or one for every 20 samples, whichever is more frequent. Because the spike is a duplicate sample, it measures the quality of laboratory preparatory techniques and the heterogeneity of the sample.
- **Surrogate Spike Compounds**—Surrogate spikes are used to evaluate the recovery of an analyte from individual samples. All project samples to be analyzed for organic compounds will be spiked with appropriate surrogate compounds as defined in the analysis method. Recoveries determined using these surrogate compounds will be reported by the laboratory; however, the laboratory will not correct sample results using these recoveries.
- **LCSs**—Although not required by the referenced methods, the laboratory will analyze LCSs for VOCs by USEPA Method 8260B. One LCS will be analyzed for every SDG, or one for every 20 samples, whichever is more frequent. The source of the LCS must be included in the data package.

7.11 Field QC

The following samples will be prepared by the sampling personnel in the field and submitted to the laboratory:

- **Equipment Rinsate Blanks**—To ensure that decontamination procedures are sufficient, an equipment rinsate blank will be collected when nondedicated equipment is used. At least one equipment rinsate blank will be collected for each sampling event or for every 20 samples collected. If more than 20 samples are collected with the same equipment, or if high concentrations of contaminants are encountered, additional equipment rinsate blanks will be collected, as warranted. Equipment rinsate blanks will be collected by passing deionized/distilled water through or over sampling equipment.

- **Trip Blanks**—A trip blank monitors the potential of sample-to-sample cross-contamination during sample collection and transport. A trip blank consists of reagent-grade water in a new sample container, which is prepared at the same time as the sample containers. The trip blank will accompany the samples throughout collection, shipment, and storage. One trip blank will be included with each cooler where samples for VOC analyses are stored.
- **Field Duplicates**—Field duplicates are collected to measure sampling and laboratory precision. Field duplicates will be collected for groundwater samples collected from monitoring wells, VOA vials (three vials per sample) will be collected. At least one duplicate sample will be collected during each sampling event, or one for every 20 samples.

7.12 Data Reduction, Validation, and Reporting

The analytical laboratory will submit analytical data packages that include laboratory QA/QC results to permit independent and conclusive determination of data quality. Data quality will be determined by MFA, using the data evaluation procedures described in this section. The results of the MFA evaluation will be used to determine if the project data quality objectives are met.

7.12.1 Field Data Reduction

Daily internal QC checks will be performed for field activities. Checks will consist of reviewing field notes and field activity memoranda to confirm that the specified measurements, calibrations, and procedures are being followed. The need for corrective action will be assessed on an ongoing basis, in consultation with the project manager.

7.12.2 Laboratory Evaluation

Initial data reduction, evaluation, and reporting at the analytical laboratory will be carried out as described in USEPA SW-846 manuals for organic analyses (USEPA, 1986), as appropriate. Additional laboratory data qualifiers may be defined and reported to further explain the laboratory's QC concerns about a particular sample result. All additional data qualifiers will be defined in the laboratory's case narrative reports associated with each case.

7.12.3 Data Deliverables

Laboratory data deliverables are listed below. Electronic deliverables will contain the same data that are presented in the hard-copy report.

- Transmittal cover letter
- Case narrative
- Analytical results

- COC
- Surrogate recoveries
- Method blank results
- MS/MSD results
- Laboratory duplicate results

7.12.4 MFA Evaluation

7.12.4.1 Data QA/QC Review

MFA will evaluate the laboratory data for precision, completeness, accuracy, and compliance with the analytical method. MFA will review data and assign data qualifiers to sample results, following applicable sections of the USEPA procedures for organics data review (USEPA, 1986, 1994).

Data qualifiers, as defined by the USEPA, are used to classify sample data according to their conformance to QC requirements. The most common qualifiers are listed below:

- J—Estimate, qualitatively correct but quantitatively suspect.
- R—Reject, data not suitable for any purpose.
- U—Not detected at a specified reporting limit.

Poor surrogate recovery, blank contamination, or calibration problems, among other things, can cause the sample data to be qualified. Whenever sample data are qualified, the reasons for the qualification will be stated in the data evaluation report.

QC criteria not defined in the guidelines for evaluating analytical data are adopted, where appropriate, from the analytical method.

The following information will be reviewed during data evaluation, as applicable:

- Sampling locations and blind sample numbers
- Sampling dates
- Requested analysis
- COC documentation
- Sample preservation
- Holding times
- Method blanks
- Surrogate recoveries

- MS/MSD results
- Laboratory duplicates (if analyzed)
- Field duplicates
- Field blanks
- LCSs
- Method reporting limits above requested levels
- Any additional comments or difficulties reported by the laboratory
- Overall assessment

The results of the data evaluation review will be summarized for each data package. Data qualifiers will be assigned to sample results on the basis of USEPA guidelines, as applicable.

7.12.4.2 Data Management and Reduction

MFA uses EQuIS to manage all laboratory data. The laboratory will provide the analytical results in electronic EQuIS-deliverable format. Following data evaluation, data qualifiers will be entered into the EQuIS database.

Data may be reduced to summarize particular data sets and to aid interpretation of the results. Statistical analyses may also be applied to results. Data reduction QC checks will be performed on all hand-entered data, any calculations, and any data graphically displayed. Data may be further reduced and managed using one or more of the following computer software applications:

- Microsoft Excel (spreadsheet)
- EQuIS (database)
- AutoCad and/or Arc GIS (graphics)
- USEPA ProUCL (statistical software)

8 REPORTING

After the data are received, MFA will generate a data report, which will summarize and screen the data against the MTCA cleanup levels. Estimates of the nature and extent of soil and groundwater contamination will be provided, as well as work-product documentation (e.g., data validation reports).

LIMITATIONS

The services undertaken in completing this plan were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This plan is solely for the use and information of our client unless otherwise noted. Any reliance on this plan by a third party is at such party's sole risk.

Opinions and recommendations contained in this plan apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this plan.

REFERENCES

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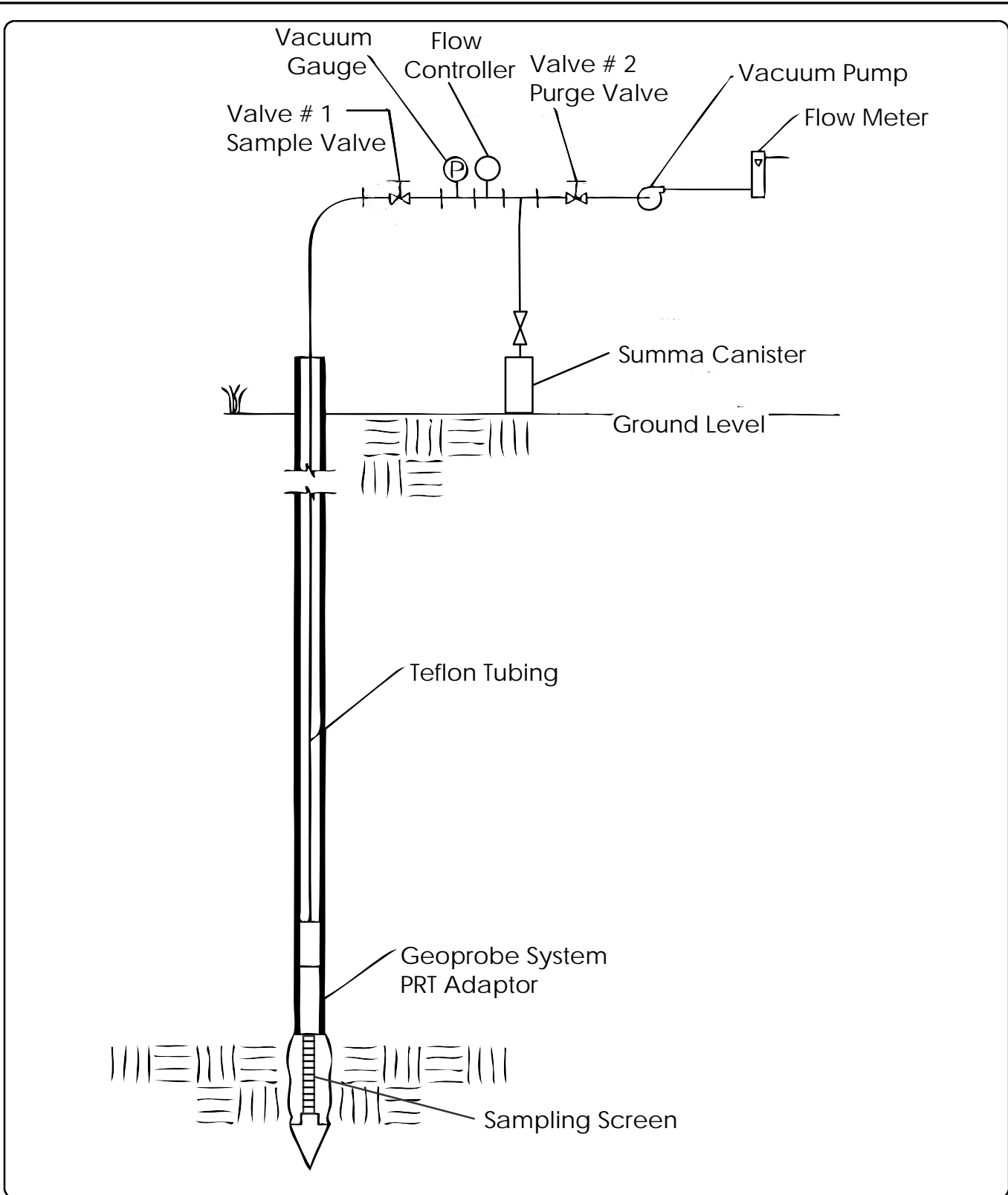
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USEPA. 1994. USEPA contract laboratory program, national functional guidelines for inorganics data review. EPA 540/R-94/013. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. February.

FIGURE





Source: CH2MHill, Corvallis Applied Sciences Laboratory

Figure 1
Soil Gas/ Evacuated Sampler System

Terry's Auto Salvage
Kelso, Washington



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. For more information please visit our website at www.maulfooster.com for contact information.

APPENDIX A

BORING LOG FORM





Boring/Well No.: _____

Site: _____

Location: _____

Project #: _____

Boring Log Form

Drill Rig	MFA Staff:	Hole Dia:	Total Depth:
Drilling Co.:	Water Level:	WLE Note:	
Start Date:	End Date:	Water Level:	WLE Note:
Notes:			

Completion	Sample			Soil Type:			Color:		
	Top:	Time:	Depth:	Top:	Fines:			Moisture:	
	Length:			Bottom:	Sand:			PID:	
	Type:	Sample ID		Soil Class:	Gravel:			Line Type:	
	% Recov:			Trace:			Impacts:		
				Notes:					
	Top:	Time:	Depth:	Soil Type:				Color:	
	Length:			Top:	Fines:			Moisture:	
	Type:	Sample ID		Bottom:	Sand:			PID:	
	% Recov:			Soil Class:	Gravel:			Line Type:	
				Trace:			Impacts:		
				Notes:					
	Top:	Time:	Depth:	Soil Type:				Color:	
	Length:			Top:	Fines:			Moisture:	
	Type:	Sample ID		Bottom:	Sand:			PID:	
	% Recov:			Soil Class:	Gravel:			Line Type:	
				Trace:			Impacts:		
				Notes:					
	Top:	Time:	Depth:	Soil Type:				Color:	
	Length:			Top:	Fines:			Moisture:	
	Type:	Sample ID		Bottom:	Sand:			PID:	
	% Recov:			Soil Class:	Gravel:			Line Type:	
				Trace:			Impacts:		
				Notes:					
	Top:	Time:	Depth:	Soil Type:				Color:	
	Length:			Top:	Fines:			Moisture:	
	Type:	Sample ID		Bottom:	Sand:			PID:	
	% Recov:			Soil Class:	Gravel:			Line Type:	
				Trace:			Impacts:		
				Notes:					
	Top:	Time:	Depth:	Soil Type:				Color:	
	Length:			Top:	Fines:			Moisture:	
	Type:	Sample ID		Bottom:	Sand:			PID:	
	% Recov:			Soil Class:	Gravel:			Line Type:	
				Trace:			Impacts:		
				Notes:					

Borehole Notes:	
-----------------	--



Boring/Well Completion Form

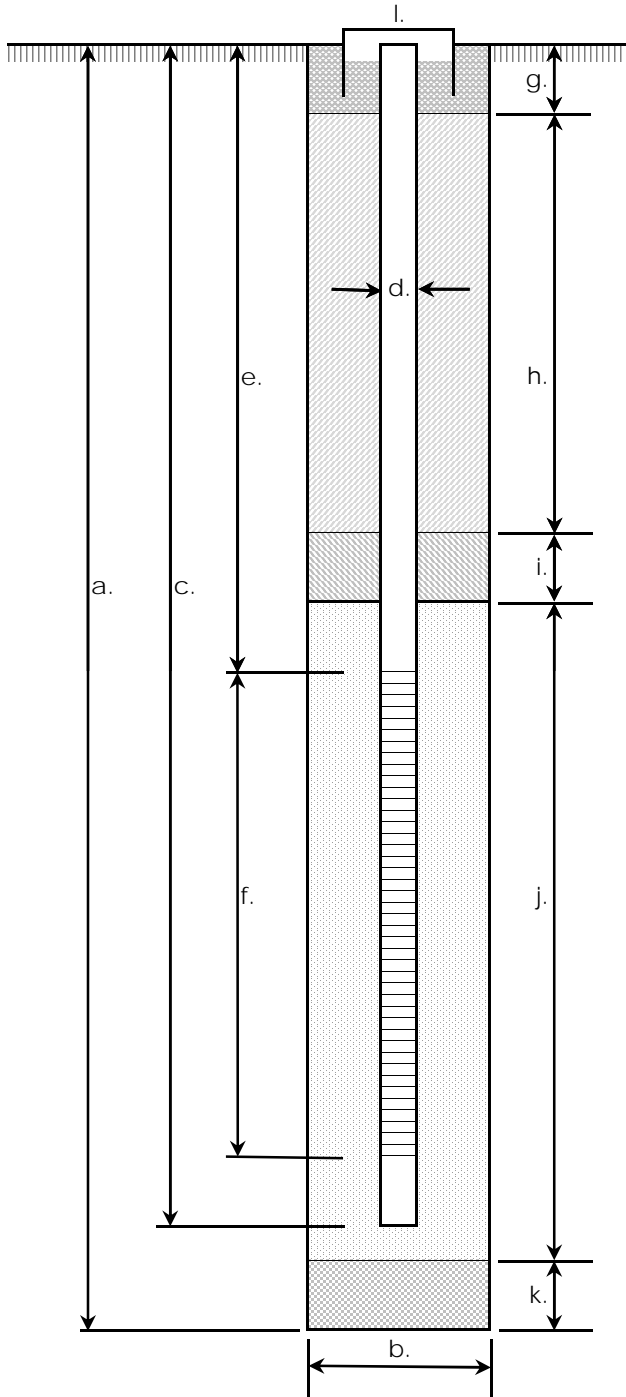
Boring/Well No.: _____

Site: _____

Location: _____

Project #: _____

Drilling Co.:	MFA Staff:	Start Date:	End Date:
Drill Rig/ Method:	Well ID No.:	Start Card No.:	



Completion Details

- a. Total Depth: _____ ft. bgs
- b. Borehole diameter: _____ in.
- c. Total Casing Length: _____ ft.
Material: _____
- d. Well diameter: _____ in.
- e. Depth to top of screen: _____ ft. bgs
- f. Screen length: _____ ft.
screened interval: _____ ft. to _____ ft. bgs
Perforation type: _____
Perforation size: _____
- g. Surface completion: _____ ft. bgs
completion material: _____
Amount: _____
- h. Surface Seal: _____ ft. to _____ ft. bgs
Seal material: _____
Amount: _____
- i. Secondary seal/pack: _____ ft. to _____ ft. bgs
Material: _____
Amount: _____
- j. Filter Pack: _____ ft. to _____ ft. bgs
Material: _____
Amount: _____
Prepacked screen used: _____ (Yes/No)
- k. Seal or Slough: _____ ft. to _____ ft. bgs
Material: _____
Amount: _____
- l. Type of well monument: _____
Well height above/below ground surface: _____ ft. bgs

gINT Data			gINT Graphic Options*
Top	Bottom	gINT Graphic	
			<u>Surface Completion</u> - CMNT11
			<u>Borehole Seal</u> - BENT11
			<u>Filter Pack</u> - FILT11, FILT11-A
			<u>Screen</u> - SLOT11
			<u>Sump</u> - PCAP11, PCAPBENT11
			<u>Backfill</u> - BENTBOTT, FILTBOTT, SLUFFBOTT
			*more graphics available

Note: _____

APPENDIX B

FIELD SAMPLING DATA SHEET FORMS



Maul Foster & Alongi, Inc.

7223 NE Hazel Dell Avenue, Suite B, Vancouver, WA 98665 (360) 694-2691 Fax. (360) 906-1958

Soil Field Sampling Data Sheet

Client Name		Sample Location					
Project Number		Sampler					
Project Name		Sampling Date					
Sampling Event		Sample Name					
Sub Area		Sample Depth					
FSDS QA:		Easting		Northing		TOC	

Sample Information

Sampling Method	Sample Type	Sample Category	PID/FID	Sampling Time	Container Code	#
(1) Backhoe	Liquid	Composite			2 oz. soil	
					4 oz. soil	
					8 oz. soil	
					Other	
					Total Containers	0

Sample Description:

General Sampling Comments

Sampling Method Code:

(1) Backhoe, (2) Hand Auger, (3) Drill Bit Cutting Head, (4) Geoprobe, (5) Split Spoon, (6) Shelby Tube, (7) Grab, (8) Other (Specify)

Signature _____

Maul Foster & Alongi, Inc.

7223 NE Hazel Dell Avenue, Suite B, Vancouver, WA 98665 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Name		Sample Location	
Project #		Sampler	
Project Name		Sampling Date	
Sampling Event		Sample Name	
Sub Area		Sample Depth	
FSDS QA:		Easting	<input style="width: 50px;" type="text"/>
		Northing	<input style="width: 50px;" type="text"/>
		TOC	<input style="width: 50px;" type="text"/>

Hydrology/Level Measurements

Date	Time	DT-Bottom	DT-Product	DT-Water	(Product Thickness) DTP-DTW	(Water Column) DTB-DTW	(Gallons/ft x Water Column) Pore Volume

(0.75" = 0.023 gal/ft) (1" = 0.041 gal/ft) (1.5" = 0.092 gal/ft) (2" = 0.163 gal/ft) (3" = 0.367 gal/ft) (4" = 0.653 gal/ft) (6" = 1.469 gal/ft) (8" = 2.611 gal/ft)

Water Quality Data

Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pH	Temp (C)	E Cond (uS/cm)	DO (mg/L)	EH	Turbidity
Final Field Parameters									

Methods: (1) Submersible Pump (2) Peristaltic Pump (3) Disposable Bailer (4) Vacuum Pump (5) Dedicated Bailer (6) Inertia Pump (7) Other (specify)

Water Quality Observations:

Sample Information

Sampling Method	Sample Type	Sampling Time	Container Code/Preservative	#	Filtered
	Groundwater		VOA-Glass		
			Amber Glass		
			White Poly		
			Yellow Poly		
			Green Poly		
			Red Total Poly		
			Red Dissolved Poly		
			Total Bottles	0	

General Sampling Comments

Signature _____

APPENDIX B

BORING LOGS



Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

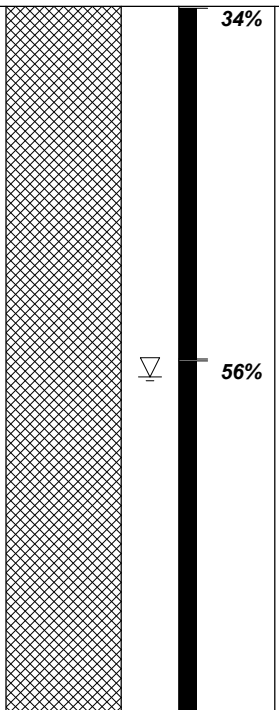
Project Number
0443.02.02

Well Number
GP01

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **10.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Sample Data					Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Number	Name (Type)			
1		34%	GP					0.0 to 1.7 feet: DEBRIS with SAND; dark brown to black; 5% fines, non-plastic; 20% sand, fine to medium, loose; 15% gravel, angular to subangular; trace glass and plastic; 60% tire, debris, wire; petroleum-like odor; damp.	
2								1.7 to 5.0 feet: No Recovery.	
3									
4									
5		56%	GP					5.0 to 7.8 feet: SAND with SILT (SW-SM); dark brown; 10% fines, low plasticity; 90% sand, fine to medium, loose; trace metal; moist.	
6									
7									
8								7.8 to 10.0 feet: No Recovery.	
9									
10									

GP01-W-10.0

Total Depth: 10.0 feet below ground surface

NOTES: 1) bgs= below ground surface
 2) Borehole abandoned with bentonite chips hydrated with potable water.
 Water level with screened interval = 8 to 12 bgs

G:\BLWC\W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP1-GP11_REV.GPJ 8/27/12

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP02

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
1			60%	GP		GP02-S-0.5			0.0 to 1.0 feet: GRAVELLY SILTY SAND (SM); dark orangish brown; 20% fines; 65% sand, fine, loose; 15% gravel, subangular; trace glass; damp.	
2						GP02-S-2.0			1.0 to 3.0 feet: SILT (ML); orange to dark orangish brown with gray mottling; 100% fines, low plasticity, firm; damp.	
3									3.0 to 5.0 feet: No Recovery.	
4										
5										

Total Depth: 5.0 feet below ground surface

NOTES: 1) bgs= below ground surface
 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP03

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
1			70%	GP		GP03-S-0.5			0.0 to 0.5 feet: SILTY SAND (SM); dark brown to black; 40% fines, non-plastic, soft; 60% sand, fine, loose; trace glass and rootlets; damp.	
2									0.5 to 3.0 feet: SILT (ML); dark gray with dark yellowish brown mottling; 100% fines, medium plasticity, firm; iron staining; damp.	
3						GP03-S-2.3			3.0 to 5.0 feet: No Recovery.	
4										
5										

Total Depth: 5.0 feet below ground surface.

- NOTES:**
- 1) bgs= below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP04

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description
					Number	Name (Type)	Blows/6"		
1			40%	GP		GP04-S-1.0		0.0 to 0.5 feet: SILTY SAND (SM); dark brown to black; 40% fines, non-plastic, soft; 60% sand, fine, loose; trace rootlets and wood debris; damp. 0.5 to 2.0 feet: SILTY SAND (SM) dark brown; 30% fines; 70% sand, fine, loose; damp to moist.	
2								2.0 to 5.0 feet: No Recovery.	
3									
4									
5									

Total Depth: 5.0 feet below ground surface.

- NOTES:**
- 1) bgs= below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP05

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description
					Number	Name (Type)	Blows/6"		
1			64%	GP		GP05-S-0.5		0.0 to 0.5 feet: GRAVELLY SILTY SAND (SM); dark brown to black; 30% fines; 50% sand, fine, loose; 20% gravel, subangular; trace rootlets and glass; damp. 0.5 to 3.2 feet: SILT with SAND (ML); dark yellowish brown; 70% fines, medium plasticity, soft; 30% sand, fine; damp. 3.2 to 5.0 feet: No Recovery.	
2						GP05-S-2.1			
3									
4									
5									

Total Depth: 5.0 feet below ground surface.

- NOTES:**
- 1) bgs= below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP06

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
1		68%	GP			GP06-S-0.5			0.0 to 1.1 feet: GRAVELLY SILTY SAND (SM); very dark brown to reddish brown; 20% fines; 60% sand, fine, loose; 20% gravel, subangular; trace rootlets; damp.	
2									GP06-S-2.2	1.1 to 3.4 feet: SILT with SAND (ML); gray with dark yellowish brown mottling; 80% fines, medium plasticity, firm; 20% sand, fine; gray from 1.1 to 3.0 feet, dark yellowish brown mottles from 3.0 to 3.4 feet; damp to moist.
3										
4										
5										

Total Depth: 5.0 feet below ground surface.

- NOTES:**
- 1) bgs= below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP07

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
1			68%	GP		GP07-S-0.5			0.0 to 1.3 feet: GRAVELLY SILTY SAND (SM); very dark brown; 20% fines; 55% sand, fine to medium, loose; 25% gravel; trace glass and rootlets; damp to moist.	
2						GP07-S-2.2			1.3 to 3.4 feet: SILT with SAND (ML); gray with dark yellowish brown mottling; 80% fines, medium plasticity, firm; 20% sand, fine; damp to moist. @1.4 feet: 0.5-inch lens of dark gray soil with petroleum like-odor.	
3										
4										
5									3.4 to 5.0 feet: No Recovery.	

Total Depth: 5.0 feet below ground surface.

NOTES: 1) bgs= below ground surface
 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP08

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/20/12 to 3/20/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description
					Number	Name (Type)	Blows/6"		
1			68%	GP		GP08-S-0.5		0.0 to 0.5 feet: GRAVELLY SILTY SAND (SM); very dark brown; 20% fines; 60% sand, fine, loose; 20% gravel, subangular; trace rootlets and glass; damp.	
2						GP08-S-2.2		0.5 to 3.4 feet: SANDY SILT (ML); gray with dark yellowish brown mottling; 80% fines, medium plasticity, firm; 20% sand, fine; trace rootlets above 1 foot bgs; damp.	
3									
4								3.4 to 5.0 feet: No Recovery.	
5									

Total Depth: 5.0 feet below ground surface.

- NOTES:**
- 1) bgs= below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP09

Sheet
1 of 2

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/21/12 to 3/21/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **40.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Sample Data			Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method			
1		54%	GP				0.0 to 0.4 feet: GRAVEL (GP); black; 5% fines; 95% gravel, coarse, subangular; trace rootlets; moist.
2							0.4 to 2.7 feet: SILTY SAND (SM); very dark brown; 20% to 40% fines; 60% to 80% sand, fine, loose; moist to wet.
3							2.7 to 5.0 feet: No Recovery.
5		76%	GP				5.0 to 8.8 feet: SAND with SILT (SP-SM); very dark brown; 10% fines; 90% sand, fine, loose; wet.
9							8.8 to 10.0 feet: No Recovery.
10		78%	GP				10.0 to 13.9 feet: SAND with SILT (SP-SM); very dark brown; 10% fines; 90% sand, fine, loose; some reddish staining; wet.
13							13.9 to 15.0 feet: No Recovery.
15		100%	GP				15.0 to 16.8 feet: SILTY SAND (SM); very dark brown; 15% fines, non-plastic; 85% sand, fine, loose; wet.
17							16.8 to 20.0 feet: SAND with SILT (SP-SM); dark reddish brown; 10% fines; 90% sand, fine to medium, loose; reddish staining throughout; wet.
18							@16.8 feet: 1-inch lens of gray, fine sand.

NOTES: 1) bgs= below ground surface 2) Borehole abandoned with bentonite chips hydrated with potable water.

▼ Water level with screened interval = 5 to 9 feet bgs and 4-inch O.D. casing 0 to 3 feet bgs

▼ Water level with screened interval = 36 to 40 feet bgs and 4-inch O.D. casing 0 to 10 feet bgs

GBLWC: W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP1-GP11_REV.GPJ 8/27/12

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
21		86%	GP					20.0 to 21.8 feet: SILTY SAND (SM); dark brown; 15% fines; 85% sand, fine, loose; wet.	
22								21.8 to 24.3 feet: SAND (SP); dark gray; 100% sand, fine, medium; wet.	
23									
24									
25								24.3 to 25.0 feet: No Recovery.	
26		64%	GP					25.0 to 28.2 feet: SAND (SW); dark gray; 90% to 95% sand, fine to coarse; 5% to 10% gravel, coarse, subround; coarsens with depth; wet.	
27									
28								28.2 to 30.0 feet: No Recovery.	
29									
30		66%	GP					30.0 to 33.3 feet: SILTY SAND (SM); 15% fines; 85% sand, fine to medium, loose; wet.	
31									
32									
33							33.3 to 35.0 feet: No Recovery.		
34									
35	80%	GP					35.0 to 36.7 feet: SILTY SAND (SM); dark brown to dark gray; 20% fines; 75% sand, fine to medium, loose; 5% gravel, coarse, subround; wet. @36.0 feet: 0.4-ft bed of coarse gravel.		
36									
37							36.7 to 39.0 feet: SAND (SW); dark gray; 5% fines; 85% sand, medium to coarse, loose; 10% gravel, medium to coarse, subangular to subround; gravels are gray, pink, and green; wet.		
38									
39							39.0 to 40.0 feet: No Recovery.		
40									

Total Depth: 40.0 feet below ground surface.

NOTES: 1) bgs= below ground surface 2) Borehole abandoned with bentonite chips hydrated with potable water.

Water level with screened interval = 5 to 9 feet bgs and 4-inch O.D. casing 0 to 3 feet bgs

Water level with screened interval = 36 to 40 feet bgs and 4-inch O.D. casing 0 to 10 feet bgs

GBLWC: W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP1-GPJ 8/27/12

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP10

Sheet
1 of 2

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/22/12 to 3/22/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **40.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Name (Type)			
1		70%	GP		GP10-S-0.5		0.0 to 0.4 feet: GRAVEL with SILT (GW-GM); dark gray to black; 10% fines; 10% sand, medium to coarse; 80% gravel, subangular, coarse, loose; trace rootlets; damp. 0.4 to 3.5 feet: SILT (ML); dark yellowish brown; 100% fines, low plasticity, stiff; damp.	
2					GP10-S-2.3		@2.5 feet: Orange mottling.	
3							3.5 to 5.0 feet: No Recovery.	
4								
5		0.08%	GP		GP10-S-5.2		5.0 to 5.4 feet: SILT (ML); dark yellowish brown; 100% fines, low plasticity, soft; wet. 5.4 to 10.0 feet: No Recovery.	
6								
7								
8								
9								
10		100%	GP		GP10-W-10.0		10.0 to 15.0 feet: SILT (ML); dark yellowish brown to dark gray; 100% fines, non-plastic, very soft; wet.	
11								
12								
13								
14								
15	100%	GP				@14.6 feet: grades to dark gray. 15.0 to 18.3 feet: SILT (ML); dark yellowish brown to dark gray; 100% fines, non-plastic, very soft; wet.		
16								
17								
18						@17.5 feet: trace orange staining.		
19						18.3 to 20.0 feet: SAND (SP); dark gray; 10% fines; 90% sand, fine, firm; wet. @19.7 feet: large, flakey, rubber-like material.		
20								

NOTES: 1) bgs= below ground surface 2) Borehole abandoned with bentonite chips hydrated with potable water.

Water level with screened interval = 8 to 12 feet bgs

Water level with screened interval = 36 to 40 feet bgs and 4-inch O.D. casing 0 to 10 feet bgs

GBLWC W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP1-GP11_REV.GPJ 8/27/12

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description						
					Number	Name (Type)	Blows/6"								
21		100%	GP	GP				20.0 to 25.0 feet: SAND (SP); dark gray; 10% fines; 90% sand, fine, firm; fines decrease with depth; wet.							
22															
23														@22.5 feet: 0.3-ft chunk of wood.	
24															
25															25.0 to 32.5 feet: SAND (SP); dark gray; 10% fines; 90% sand, fine, firm; wet.
26															
27															
28															
29															
30															
31															
32															
33															32.5 to 34.0 feet: SAND (SW); dark gray; 10% fines; 80% sand, medium to coarse, loose; 10% gravel, coarse, subangular; wet.
34															34.0 to 35.0 feet: No Recovery.
35															
36															35.0 to 37.5 feet: SAND (SW); dark gray; 10% fines; 80% sand, medium to coarse, loose; 10% gravel, coarse, subangular; wet.
37															
38															37.5 to 40.0 feet: SANDY GRAVEL (GW); dark gray; 10% fines; 20% sand, medium to coarse; 70% gravel, medium to coarse, subangular, loose; gravels are reddish orange, white, green, and gray; wet.
39															
40															

Total Depth: 40.0 feet below ground surface.

NOTES: 1) bgs= below ground surface 2) Borehole abandoned with bentonite chips hydrated with potable water.



Water level with screened interval = 8 to 12 feet bgs



Water level with screened interval = 36 to 40 feet bgs and 4-inch O.D. casing 0 to 10 feet bgs

GBLWC W:\GINTGINT\PROJECTS\0443.02 KELSO IP\GP1-GP11_REV.GPJ 8/27/12

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

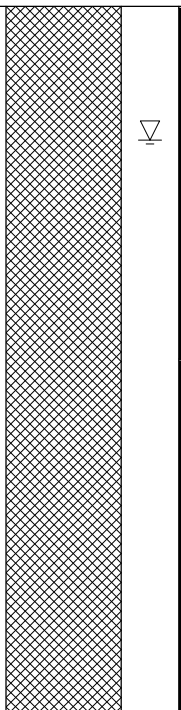
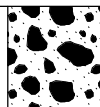
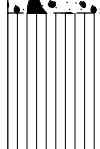
Project Number
0443.02.02

Well Number
GP11

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **3/21/12 to 3/21/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **10.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description		
					Number	Name (Type)						
1		100%	GP	GP		GP11-S-0.5			0.0 to 1.6 feet: SANDY GRAVEL (GW); dark gray; 5% fines; 20% sand, medium; 75% gravel, coarse, subangular, loose; damp.			
2									1.6 to 3.6 feet: SILT (ML); dark gray; 100% fines, stiff to very stiff, low plasticity; petroleum-like odor; moist.			
3												
4										3.6 to 5.0 feet: No Recovery.		
5					100%	GP						
6												5.0 to 7.5 feet: SILT (ML); very dark brown to dark gray; 100% fines, medium plasticity, soft; wet.
7												
8												7.5 to 10.0 feet: No Recovery.
9												
10												

Total Depth: 10.0 feet below ground surface.

NOTES: 1) bgs= below ground surface
 2) Borehole abandoned with bentonite chips hydrated with potable water.
 Water level with screened interval = 6 to 10 feet bgs

GBLWC W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP1-GP11_REV.GPJ 8/27/12

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

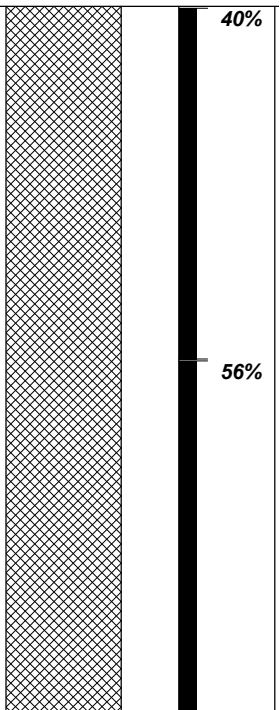
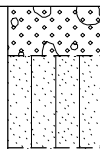
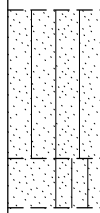
Project Number
0443.02.02

Well Number
GP12

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/31/12 to 5/31/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **10.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
1		40%	GP			GP12-S-1.4			0 to 0.7 feet: GRAVELLY SAND with SILT (SW-SM); black; 10% fines; 50% sand, fine to coarse, loose; 40% gravel, fine to coarse, subangular; trace glass; black staining; dry.	
2									0.7 to 2.0 feet: SILTY SAND (SM); dark reddish brown with orange mottling; 20% fines, non-plastic; 80% sand, fine, loose; damp to moist.	
3									2.0 to 5.0 feet: No Recovery.	
4										
5		56%	GP			GP12-S-6.0			5.0 to 7.1 feet: SILTY SAND (SM); dark reddish brown with orange mottling; 20% fines, non-plastic; 80% sand, fine, medium dense; trace rootlets; wet.	
6										
7									7.1 to 7.8 feet: SAND with SILT (SP-SM); 15% fines, non-plastic; 85% sand, fine, medium dense; wet.	
8										7.8 to 10.0 feet: No Recovery.
9										
10										

Total Depth: 10.0 feet below ground surface

NOTES: 1) bgs = below ground surface
 2) Borehole abandoned with bentonite chips hydrated with potable water.

GBLWC: W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP12-MW3.GPJ 8/27/12

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

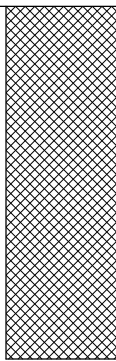


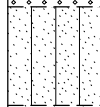

Project Number
0443.02.02

Well Number
GP13

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/31/12 to 5/31/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description			
					Number	Name (Type)	Blows/6"					
1			70%	GP		GP13-S-1.0			0.0 to 2.1 feet: GRAVELLY SAND with SILT (SW-SM); black; 10% fines; 50% sand, fine to coarse, loose; 40% gravel, fine to coarse, subangular; black staining and petroleum-like odor; trace glass; dry. @ 1.0 foot: black stained, net-like, absorbent material.			
2									GP13-S-2.8		2.1 to 3.5 feet: SILTY SAND (SM); dark gray; 20% fines, non-plastic; 80% sand, fine, medium dense; black staining and petroleum-like odor; damp.	
3												3.5 to 5.0 feet: No Recovery.
4												
5												

Total Depth: 5.0 feet below ground surface

- NOTES:**
- 1) bgs = below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP14

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/31/12 to 5/31/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **10.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Sample Data					Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Number	Name (Type)			
1		50%	GP					0 to 0.7 feet: GRAVELLY SAND with SILT (SW-SM); gray to dark gray; 10% fines; 50% sand, fine to coarse, loose; 40% gravel, fine to coarse, subangular; trace glass; dry.	
2						GP14-S-1.6		0.7 to 2.5 feet: SILTY SAND (SM); dark reddish brown with orange mottling; 20% fines, non-plastic; 80% sand, fine, medium dense; damp.	
3								@ 1.0 foot: 3-inch cobble, subangular.	
4								2.5 to 5.0 feet: No Recovery.	
5		86%	GP						5.0 to 7.1 feet: SILTY SAND (SM); dark reddish brown with orange mottling; 20% fines, non-plastic; 80% sand, fine, medium dense; damp to moist.
6						GP14-S-6.0			
7									7.1 to 9.3 feet: SAND with SILT (SP-SM); dark gray; 15% fines; 85% sand, fine, loose; wet.
8									
9						GP14-S-8.8			
10									9.3 to 10.0 feet: No Recovery.

Total Depth: 10.0 feet below ground surface

- NOTES:**
- 1) bgs = below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

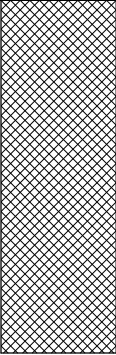

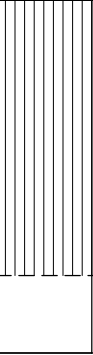
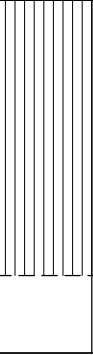
Project Number
0443.02.02

Well Number
GP15

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/31/12 to 5/31/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
1			78%	GP						0 to 3.9 feet: SILT (ML); dark reddish brown with orange mottling grading to dark gray at 2.0 feet bgs; 90% fines, medium plasticity, stiff; 10% sand, fine; trace rootlets; damp.
2						GP15-S-1.4				
3						GP15-S-3.1				
4										
5										
3.9 to 5.0 feet: No Recovery.										

Total Depth: 5.0 feet below ground surface

- NOTES:**
- 1) bgs = below ground surface
 - 2) Borehole abandoned with bentonite chips hydrated with potable water.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
GP16

Sheet
1 of 1

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/31/12 to 5/31/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **5.0-feet**
 Outer Hole Diam **2-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description
					Number	Name (Type)	Blows/6"		
1			70%	GP		GP16-S-2.1		0 to 0.4 feet: GRAVELLY SAND with SILT (SW-SM); dark brown; 10% fines; 70% sand, fine to coarse, loose; 20% gravel, fine to medium, subangular; trace rootlets; dry.	
2								0.4 to 1.7 feet: SAND (SW); dark gray to black; 10% fines; 90% sand, fine to coarse, loose; trace wood chips; dry to damp. @ 1.6 feet: charcoal-like material.	
3						GP16-S-2.8		1.7 to 2.1 feet: SILT (ML); dark gray with orange mottling; 90% fines, medium plasticity, stiff; 10% sand, fine; moist to wet. 2.1 to 3.5 feet: Lithology not recorded.	
4								3.5 to 5.0 feet: No Recovery.	
5									

Total Depth: 5.0 feet below ground surface

NOTES: 1) bgs = below ground surface
 2) Borehole abandoned with bentonite chips hydrated with potable water.

GBLWC: W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP12-MW3.GPJ 8/27/12

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
MW1

Sheet
1 of 3

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/29/12 to 5/30/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **40.5-feet**
 Outer Hole Diam **3.5-inch**

Depth (feet, BGS)	Well Details	Sample Data			Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method			
1		80%	GP				0 to 2.0 feet: SILT with SAND (ML); brown; 70% fines, non-plastic, soft; 30% sand, fine; trace glass, rootlets; dry to damp.
2							2.0 to 2.5 feet: No Recovery.
3		72%	SS				2.5 to 3.6 feet: SILT (ML); brown with orange mottling; 90% fines, low plasticity, firm; 10% sand, fine; trace glass; damp. @ 3.6 feet: black, coal-like material.
4							3.6 to 4.0 feet: No Recovery.
5							4.0 to 5.0 feet: Not Sampled.
6		94%	SS				5.0 to 6.4 feet: SILT (ML); reddish brown with orange mottling; 100% fines, low plasticity, firm; trace rootlets; moist.
7		100%	GP				6.4 to 6.5 feet: No Recovery.
8		100%	SS				6.5 to 7.0 feet: SILT (ML); reddish brown with orange mottling; 95% fines, medium plasticity, soft; 5% sand, fine; moist. 7.0 to 7.5 feet: Not Sampled.
9							7.5 to 9.0 feet: SILT with SAND (SM); dark reddish brown with orange mottling; 80% fines, non-plastic, soft; 20% sand, fine; moist to wet.
10							9.0 to 10.0 feet: Not Sampled.
11		100%	SS				10.0 to 11.5 feet: SILT with SAND (SM); dark reddish brown with orange mottling; 80% fines, non-plastic, soft; 20% sand, fine; wet.
12		100%	GP				11.5 to 15.0 feet: SILT with SAND (SM); dark reddish brown with orange mottling; 70% fines, non-plastic, very soft; 30% sand, fine; wet.
13							
14							
15		67%	SS				15.0 to 16.0 feet: SILT with SAND (SM); dark gray; 20% fines; 80% sand, fine, loose; wet.
16							16.0 to 16.5 feet: No Recovery.
17		60%	GP				16.5 to 18.6 feet: SAND (SP); dark gray; 5% fines; 95% sand, fine, firm; wet.
18							
19							18.6 to 20.0 feet: No Recovery.
20							

- NOTES:**
- 1) bgs = below ground surface
 - 2) From 6.5 to 7.0 feet bgs, approximately 12 inches of material were compacted into the 6-inch sampler.
 - 3) At 20.0 feet bgs, heaving sands made sampling difficult; therefore, a sample was not collected and the casing was advanced to 25.0 feet bgs to resume sample collection.

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Name (Type)			
20.0 to 25.0								20.0 to 25.0 feet: Not Sampled.
25.0 to 26.0		22%	GP					25.0 to 26.0 feet: SAND (SP); dark gray; 5% fines; 95% sand, fine, firm; rock in shoe; wet.
26.0 to 26.1								26.0 to 26.1 feet: SANDY GRAVEL (GP); dark gray; 5% fines; 25% sand, fine; 70% gravel, coarse, subangular; trace woody debris, cobbles; wet.
26.1 to 30.0								26.1 to 30.0 feet: No Recovery.
30.0 to 30.8		24%	GP					30.0 to 30.8 feet: SAND (SW); dark gray; 5% fines; 95% sand, medium to coarse, loose; wet.
30.8 to 31.2								30.8 to 31.2 feet: SANDY GRAVEL (GW); dark gray; 40% sand, medium to coarse, loose; 60% gravel, medium to coarse, subrounded; wet.
31.2 to 35.0								31.2 to 35.0 feet: No Recovery.
35.0 to 37.6		52%	GP					35.0 to 37.6 feet: SANDY GRAVEL (GW); dark gray; 40% sand, medium to coarse, medium dense to loose; 60% gravel, medium to coarse, subrounded; trace cobbles; wet.
37.6 to 40.0								37.6 to 40.0 feet: No Recovery.
40.0 to 40.5		0%	GP					40.0 to 40.5 feet: Not Sampled.

Total Depth: 40.5 feet below ground surface

Borehole Completion Details

0.0 to 40.5 feet bgs: 3.5-inch borehole.

0.0 to 1.0 feet bgs: Concrete.

1.0 to 34.0 feet bgs: Bentonite chips hydrated with potable water.

- NOTES:**
- 1) bgs = below ground surface
 - 2) From 6.5 to 7.0 feet bgs, approximately 12 inches of material were compacted into the 6-inch sampler.
 - 3) At 20.0 feet bgs, heaving sands made sampling difficult; therefore, a sample was not collected and the casing was advanced to 25.0 feet bgs to resume sample collection.

GBLWC W:\GINT\GINT\PROJECTS\0443.02 KELSO I\GP\12-MW3.GPJ 8/27/12

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
MW1

Sheet
3 of 3

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description
					Number	Name (Type)	Blows/6"		

34.0 to 40.5 feet bgs: Filter pack sand.

Well Completion Details

0.0 to 1.0 feet bgs: Flush monument.

0.4 to 35.0 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, blank riser.

35.0 to 40.0 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, 0.010-inch machine slotted, pre-pack well screen.

40.0 to 40.5 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, end cap.

NOTES:

- 1) bgs = below ground surface
- 2) From 6.5 to 7.0 feet bgs, approximately 12 inches of material were compacted into the 6-inch sampler.
- 3) At 20.0 feet bgs, heaving sands made sampling difficult; therefore, a sample was not collected and the casing was advanced to 25.0 feet bgs to resume sample collection.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
MW2

Sheet
1 of 2

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/31/12 to 5/31/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **40.5-feet**
 Outer Hole Diam **3.5-inch**

Depth (feet, BGS)	Well Details	Sample Data			Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method			
1		50%	GP				0 to 2.5 feet: SILTY SAND (SM); dark reddish brown with orange mottling; 40% fines; 60% sand, fine, loose; trace rootlets; moist to wet.
2							
3							2.5 to 5.0 feet: No Recovery.
4							
5		82%	GP				5.0 to 9.1 feet: SILTY SAND (SM); dark reddish brown with orange mottling; 20% fines; 80% sand, fine, very loose to loose; wet.
6							
7							
8							
9							9.1 to 10.0 feet: No Recovery.
10		44%	GP				10.0 to 11.2 feet: SAND with SILT (SP-SM); dark reddish brown with orange mottling; 15% fines; 85% sand, fine, loose; wet.
11							
12							11.2 to 12.2 feet: SAND with SILT (SP-SM); dark reddish brown and dark gray with strongly laminated orange mottling; 15% fines; 85% sand, fine, firm; wet.
13							12.2 to 15.0 feet: No Recovery.
14							
15							15.0 to 40.5 feet: Not Sampled.
16							
17							
18							
19							
20							

GBLWC W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP12-MW3.GPJ 8/27/12

NOTES: 1) bgs = below ground surface
 2) At 15.0 feet bgs, heaving sands made sampling difficult; therefore, sampling did not continue and the casing was advanced to the well installation depth.

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data		Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)			
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

Borehole Completion Details
 0.0 to 40.5 feet bgs: 3.5-inch borehole.
 0.0 to 1.0 feet bgs: Concrete.
 1.0 to 34.0 feet bgs: Bentonite chips hydrated with potable water.
 34.0 to 40.5 feet bgs: Filter pack sand.

Well Completion Details
 0.0 to 1.0 feet bgs: Flush monument.
 0.4 to 35.0 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, blank riser.
 35.0 to 40.0 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, 0.010-inch machine slotted, pre-pack well screen.
 40.0 to 40.5 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, end cap.

Total Depth: 40.5 feet below ground surface

- NOTES:**
- 1) bgs = below ground surface
 - 2) At 15.0 feet bgs, heaving sands made sampling difficult; therefore, sampling did not continue and the casing was advanced to the well installation depth.

Maul Foster & Alongi, Inc.

Geologic Borehole Log/Well Construction

Project Number
0443.02.02

Well Number
MW3

Sheet
1 of 2

Project Name **City of Kelso IPG**
 Project Location **1124 N. Pacific Ave., Kelso, WA**
 Start/End Date **5/31/12 to 5/31/12**
 Driller/Equipment **Cascade/Geoprobe**
 Geologist/Engineer **Heather Hirsch**
 Sample Method **Geoprobe**

TOC Elevation (feet)
 Surface Elevation (feet)
 Northing
 Easting
 Hole Depth **40.5-feet**
 Outer Hole Diam **3.5-inch**

Depth (feet, BGS)	Well Details	Sample Data			Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method			
1		34%	GP				0 to 0.7 feet: GRAVELLY SAND (SW); black; 5% fines; 55% sand, fine to coarse, loose; 40% gravel, fine to coarse, subangular to subrounded; trace glass; black staining and petroleum-like odor; dry.
2							0.7 to 1.3 feet: SILTY SAND (SM); dark gray; 25% fines, non-plastic; 75% sand, fine, medium dense; gray staining and petroleum-like odor; damp.
3							1.3 to 1.7 feet: SILTY SAND (SM); dark reddish brown; 25% fines, non-plastic; 75% sand, fine, medium dense; petroleum-like odor; damp.
4							1.7 to 5.0 feet: No Recovery.
5		60%	GP				5.0 to 5.6 feet: SAND with SILT (SP-SM); dark reddish brown with orange mottling; 15% fines; 85% sand, fine, loose; moist.
6							5.6 to 8.0 feet: SAND with SILT (SP-SM); dark reddish brown with orange mottling; 15% fines; 85% sand, fine, loose; moist to wet.
7							
8							8.0 to 10.0 feet: No Recovery.
9							
10		78%	GP				10.0 to 13.9 feet: SAND with SILT (SP-SM); dark reddish brown with orange mottling; 15% fines; 85% sand, fine, loose; wet.
11							
12							
13							
14							13.9 to 15.0 feet: No Recovery.
15		100%	GP				15.0 to 20.0 feet: SAND (SP); dark gray with orange mottling; 5% fines; 95% sand, fine, loose; wet.
16							
17							
18							
19							
20							

NOTES: 1) bgs = below ground surface
 2) At 20.0 feet bgs, heaving sands made sampling difficult; therefore, sampling did not continue and the casing was advanced to the well installation depth.

GBLWC W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP12-MW3.GPJ 8/27/12

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data		Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)			
21									<p>20.0 to 40.5 feet: Not Sampled.</p> <p>@ 25.0 feet: Driller noted harder drilling likely due to firmer material.</p> <p><u>Borehole Completion Details</u> 0.0 to 40.5 feet bgs: 3.5-inch borehole. 0.0 to 1.0 feet bgs: Concrete. 1.0 to 34.0 feet bgs: Bentonite chips hydrated with potable water. 34.0 to 40.5 feet bgs: Filter pack sand.</p> <p><u>Well Completion Details</u> 0.0 to 1.0 feet bgs: Flush monument. 0.4 to 35.0 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, blank riser. 35.0 to 40.0 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, 0.010-inch machine slotted, pre-pack well screen. 40.0 to 40.5 feet bgs: 2-inch diameter, PVC, schedule 40, flush threaded, end cap.</p>
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
Total Depth: 40.5 feet below ground surface									

GBLWC W:\GINT\GINT\PROJECTS\0443.02 KELSO IPG\GP12-MW3.GPJ 8/27/12

NOTES: 1) bgs = below ground surface
 2) At 20.0 feet bgs, heaving sands made sampling difficult; therefore, sampling did not continue and the casing was advanced to the well installation depth.

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

EE03894

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner

DENNIS BARANICK

Site Address

1124 N PACIFIC AVENUE

Consulting Firm **MAUL FOSTER & ALONGI**

City

KELSO

County

COWLITZ

Geotechnical Soil Boring

Hole # B1

Location

1/4 NE 1/4 NE Sec 27 Twp: 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Materials used and the information reported above are true to my best knowledge and belief

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No.

3000

Lat/Long (s,t,r

Lat Deg _____

Lat Min/Sec _____

still Required)

Long Deg _____

Long Min/Sec _____

Tax Parcel No.

20476

Cased or Uncased Diameter

2.25"

Static Level **5'**

Work/Decommission Start Date

3/21/2012

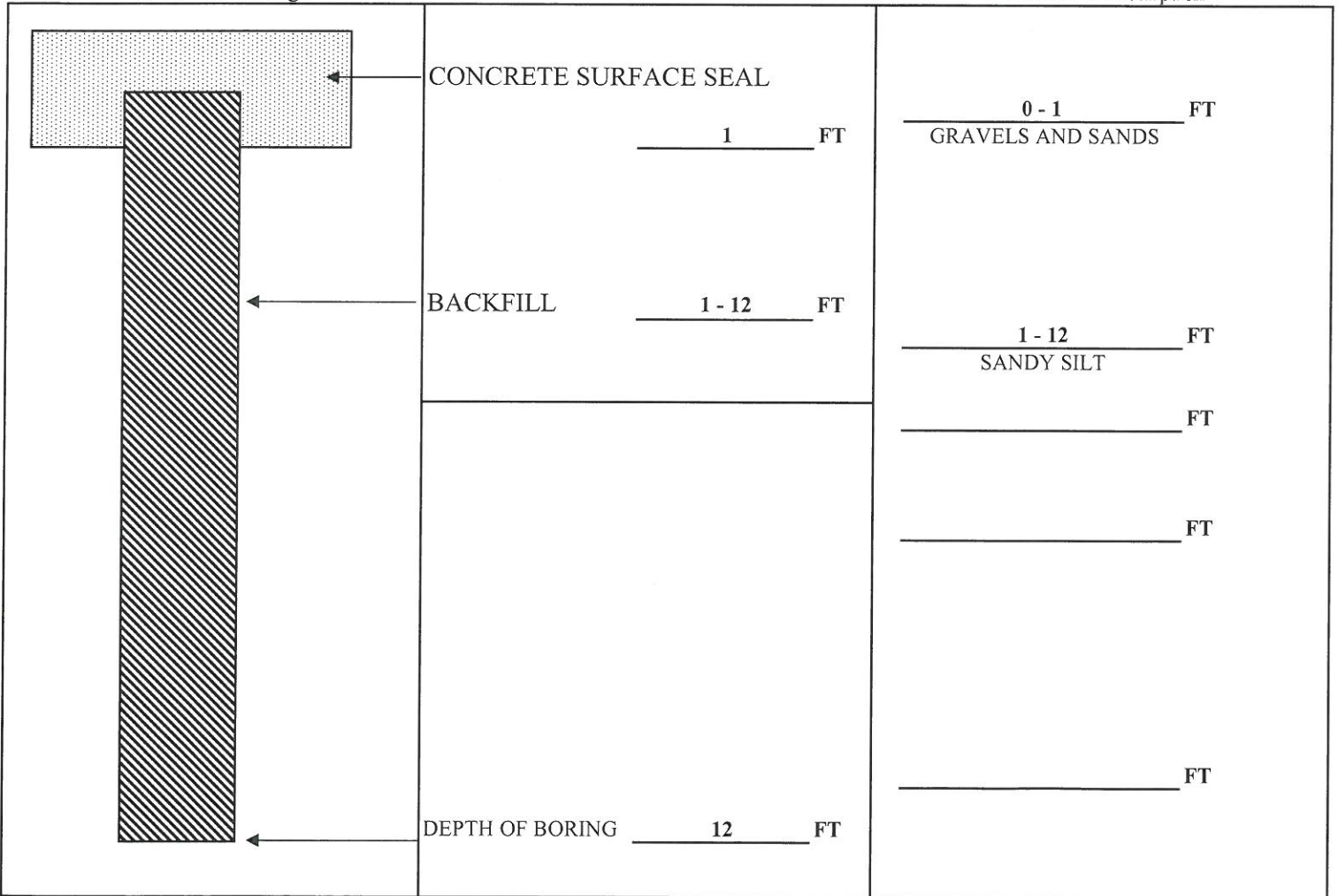
Work/Decommission Completed Date

3/21/2012

If trainee, licensed driller's
Signature and License No. _____

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16668

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number EE03894

Geotechnical Soil Boring
Property Owner DENNIS BARANICK

Consulting Firm MAUL FOSTER & ALONGI

Site Address 1124 N PACIFIC AVENUE

Geotechnical Soil Boring
Hole # B1

City KELSO County COWLITZ
EWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards Materials used and the information reported above are true to my best knowledge and belief

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or
WWM

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) Marc Chalona

Tax Parcel No. _____

Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level 5'

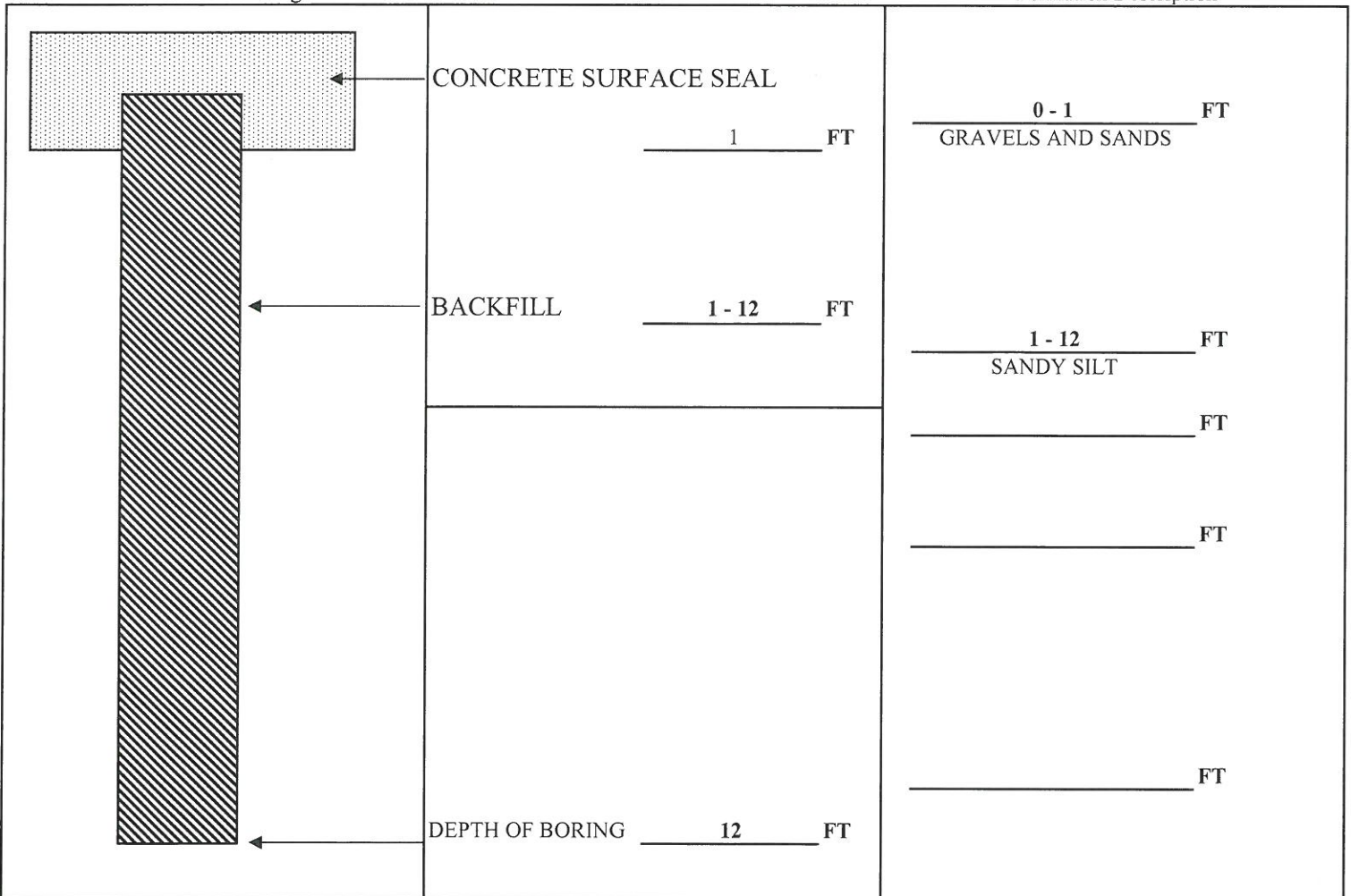
If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Start Date 3/21/2012

Work/Decommission Completed Date 3/21/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

EE03894

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # B2

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____ still Required) Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. 20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No.

3000

Cased or Uncased Diameter 2.25" Static Level 19'

Work/Decommission Start Date 3/21/2012

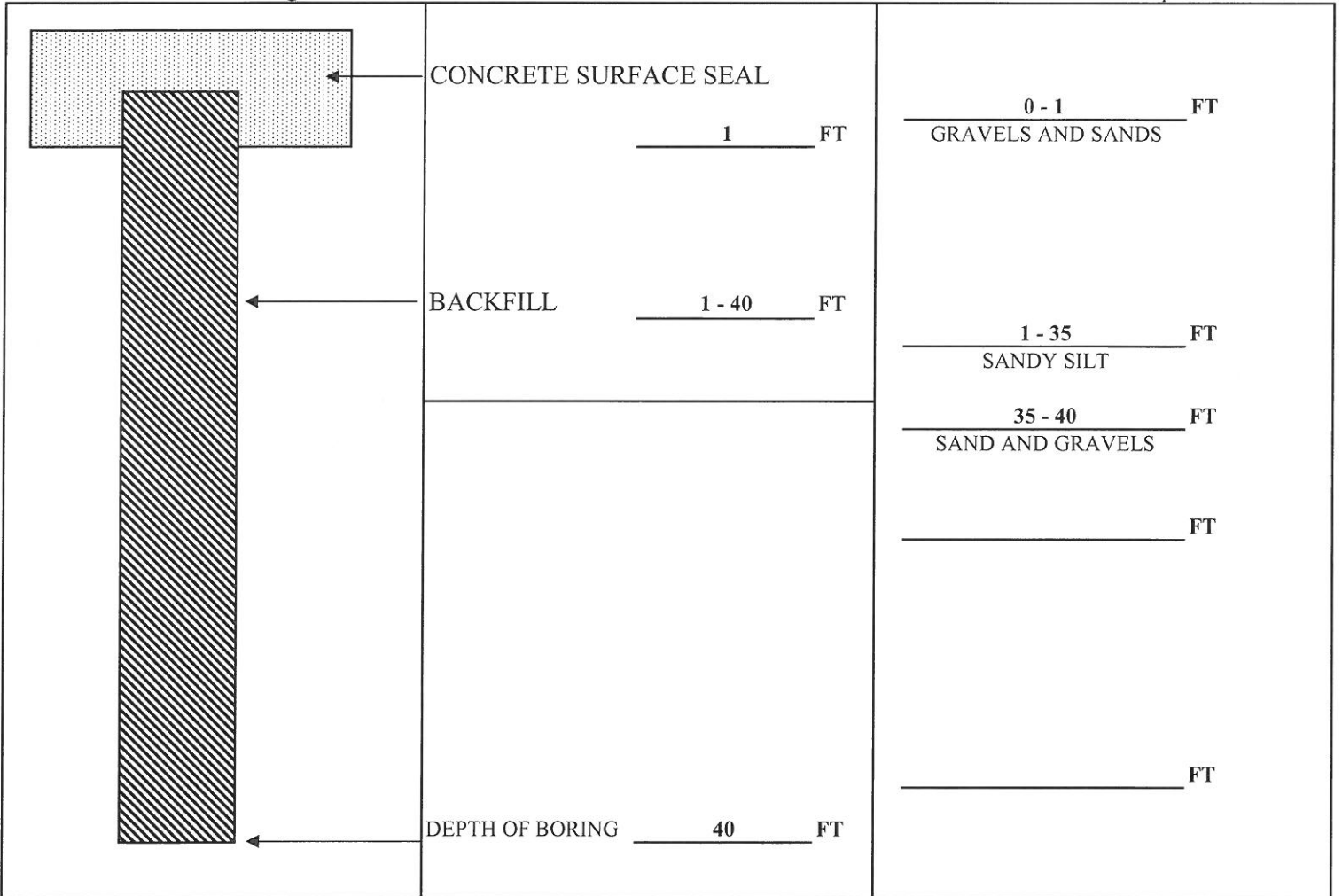
If trainee, licensed driller's

Signature and License No.

Work/Decommission Completed Date 3/21/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rev=2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16668

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* EE03894

Geotechnical Soil Boring
Property Owner DENNIS BARANICK

Consulting Firm MAUL FOSTER & ALONGI

Site Address 1124 N PACIFIC AVENUE

City KELSO County COWLITZ
EWM

Geotechnical Soil Boring Hole # B2

Location 1/4 NE 1/4 NE Sec 27 Twp: 8N R 2W or
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona

Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level 19'

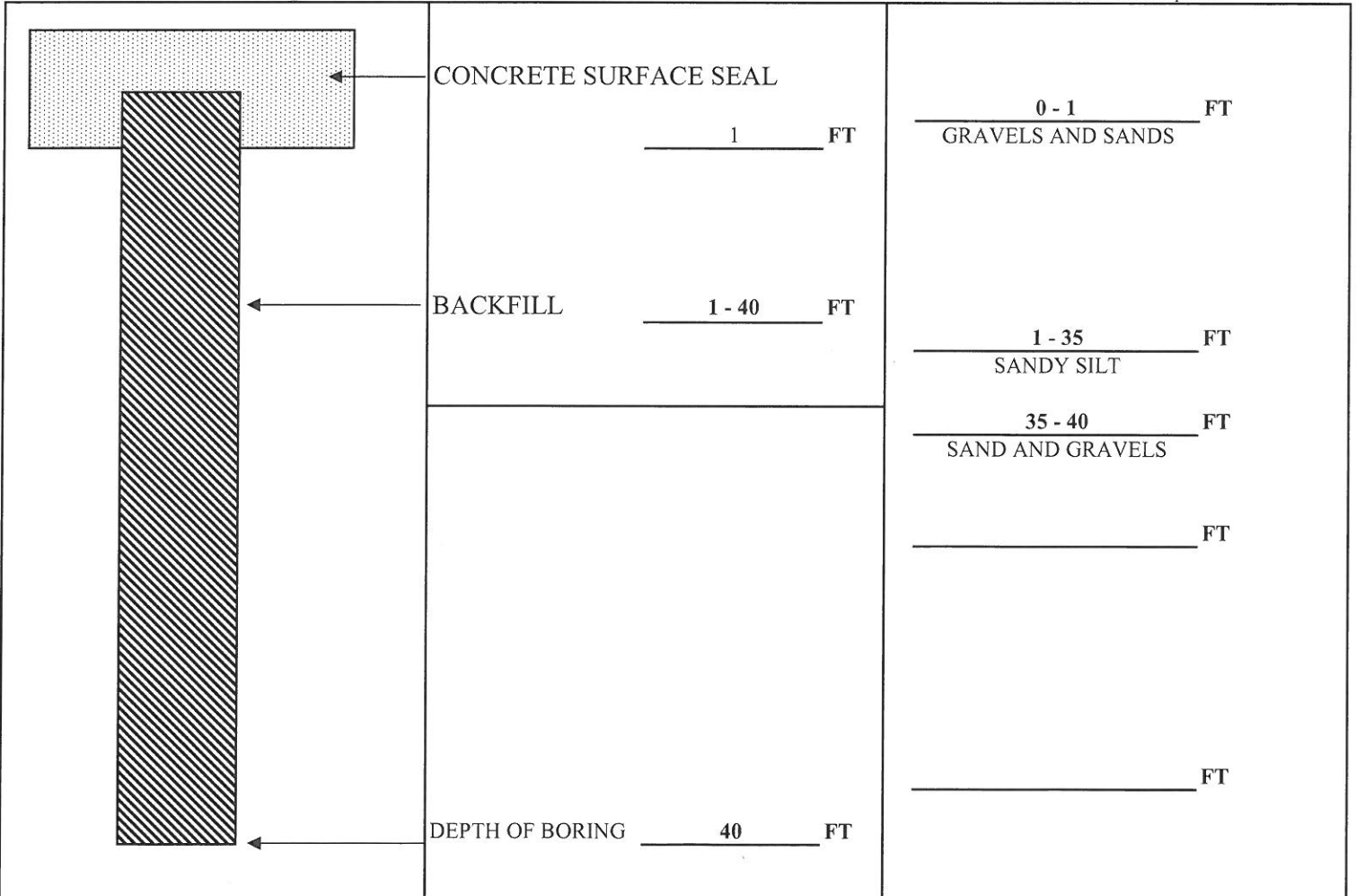
Work/Decommission Start Date 3/21/2012

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 3/21/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

EE03894

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner _____

DENNIS BARANICK

Site Address _____

1124 N PACIFIC AVENUE

Consulting Firm **MAUL FOSTER & ALONGI**

City _____

KELSO

County _____

COWLITZ

Geotechnical Soil Boring

Hole # **B3**

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. _____

20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature _____

Marc Chalona

Driller/Trainee License No. _____

3000

Cased or Uncased Diameter _____

2.25"

Static Level 19'

Work/Decommission Start Date _____

3/21/2012

If trainee, licensed driller's _____

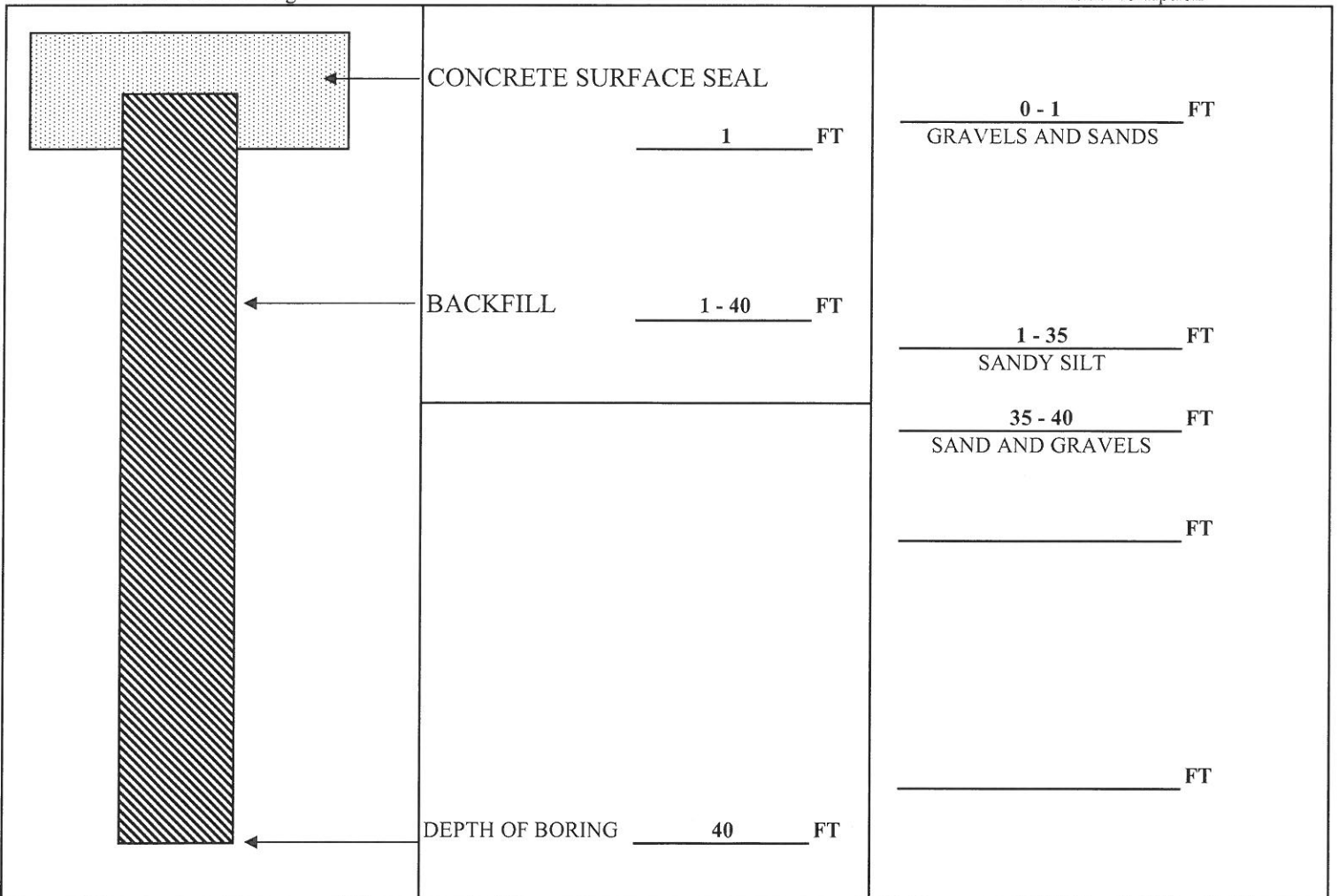
Signature and License No. _____

Work/Decommission Completed Date _____

3/21/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16668

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* EE03894

Geotechnical Soil Boring
Property Owner DENNIS BARANICK

Consulting Firm MAUL FOSTER & ALONGI

Site Address 1124 N PACIFIC AVENUE

City KELSO County COWLITZ
EWM

Geotechnical Soil Boring Hole # B3

Location 1/4 NE 1/4 NE Sec 27 Twp: 8N R 2W or
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) Marc Chalona

Tax Parcel No. _____

Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level 19'

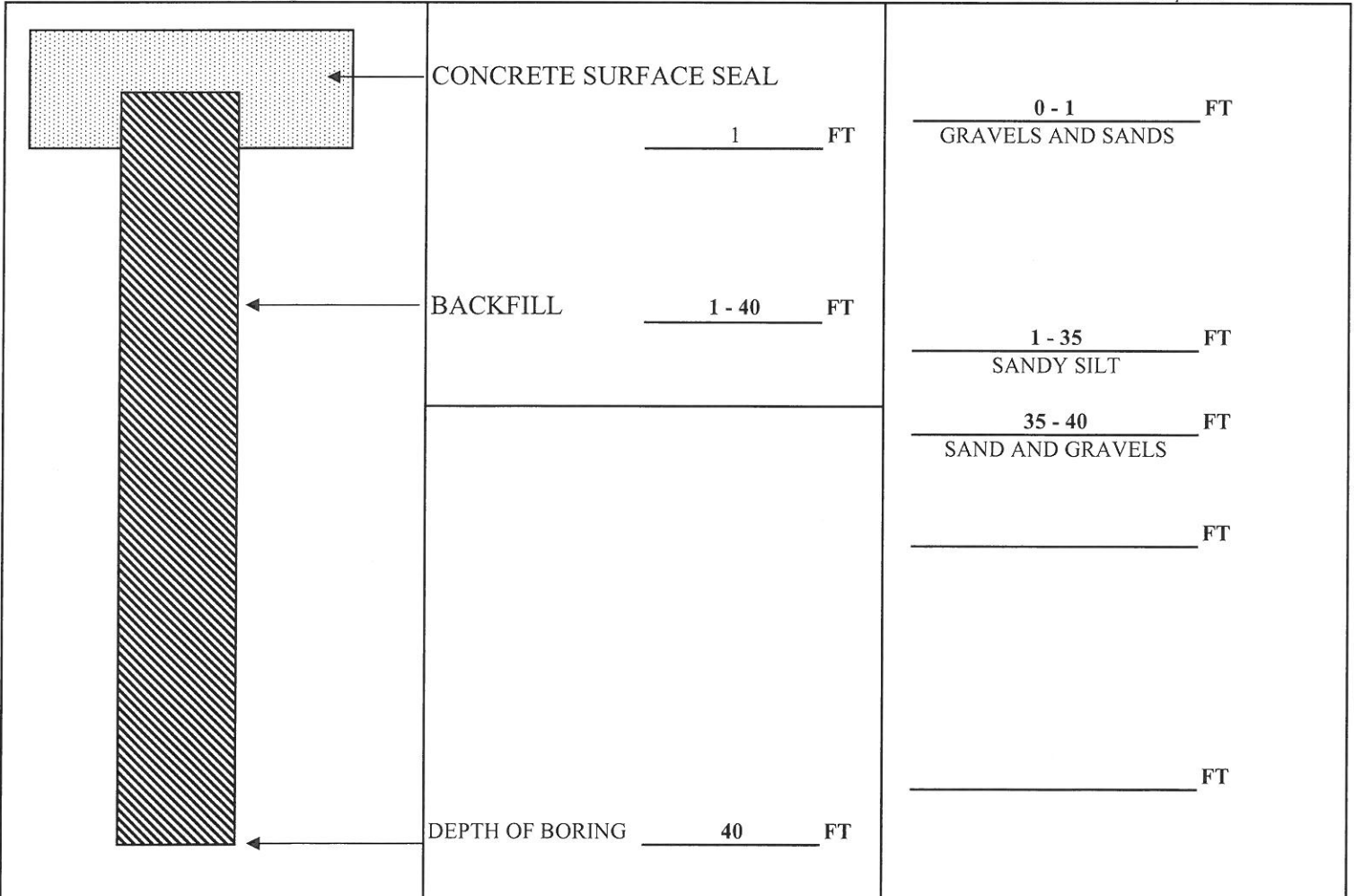
If trainee, licensed driller's Signature and License No. _____

Work/Decommission Start Date 3/21/2012

Work/Decommission Completed Date 3/21/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

EE03894

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # B4

Location 1/4 NE 1/4 NE Sec 27 Twn 8N R 2W or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____ still Required) Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. 20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No.

3000

Cased or Uncased Diameter 2.25" Static Level 1'

Work/Decommission Start Date 3/21/2012

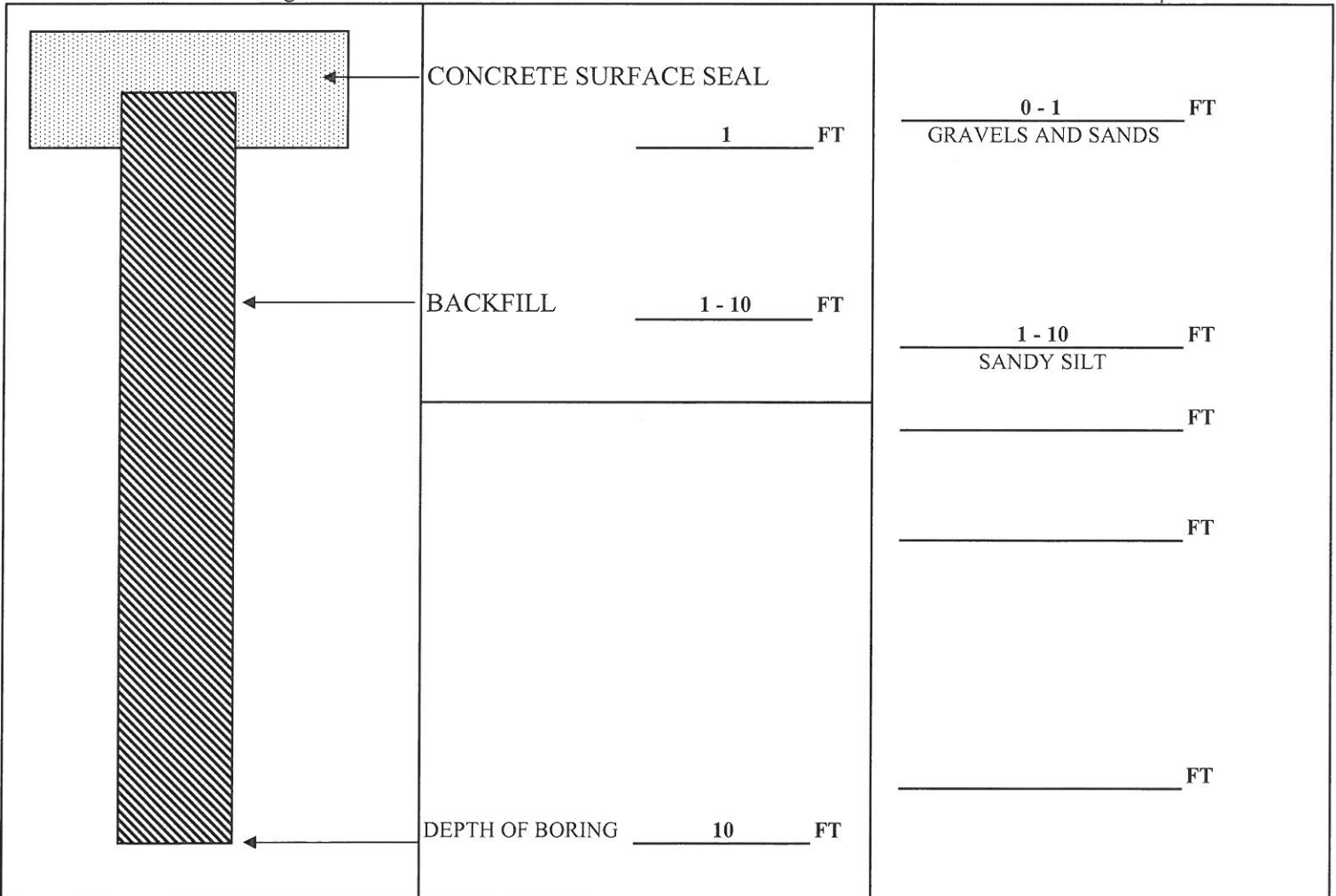
If trainee, licensed driller's

Signature and License No. _____

Work/Decommission Completed Date 3/21/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16668

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number EE03894

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or _____
EWM
WWM

Hole # B4

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona

Driller/Trainee Signature Marc Chalona

Cased or Uncased Diameter 2.25" Static Level 1'

Driller/Trainee License No. 3000

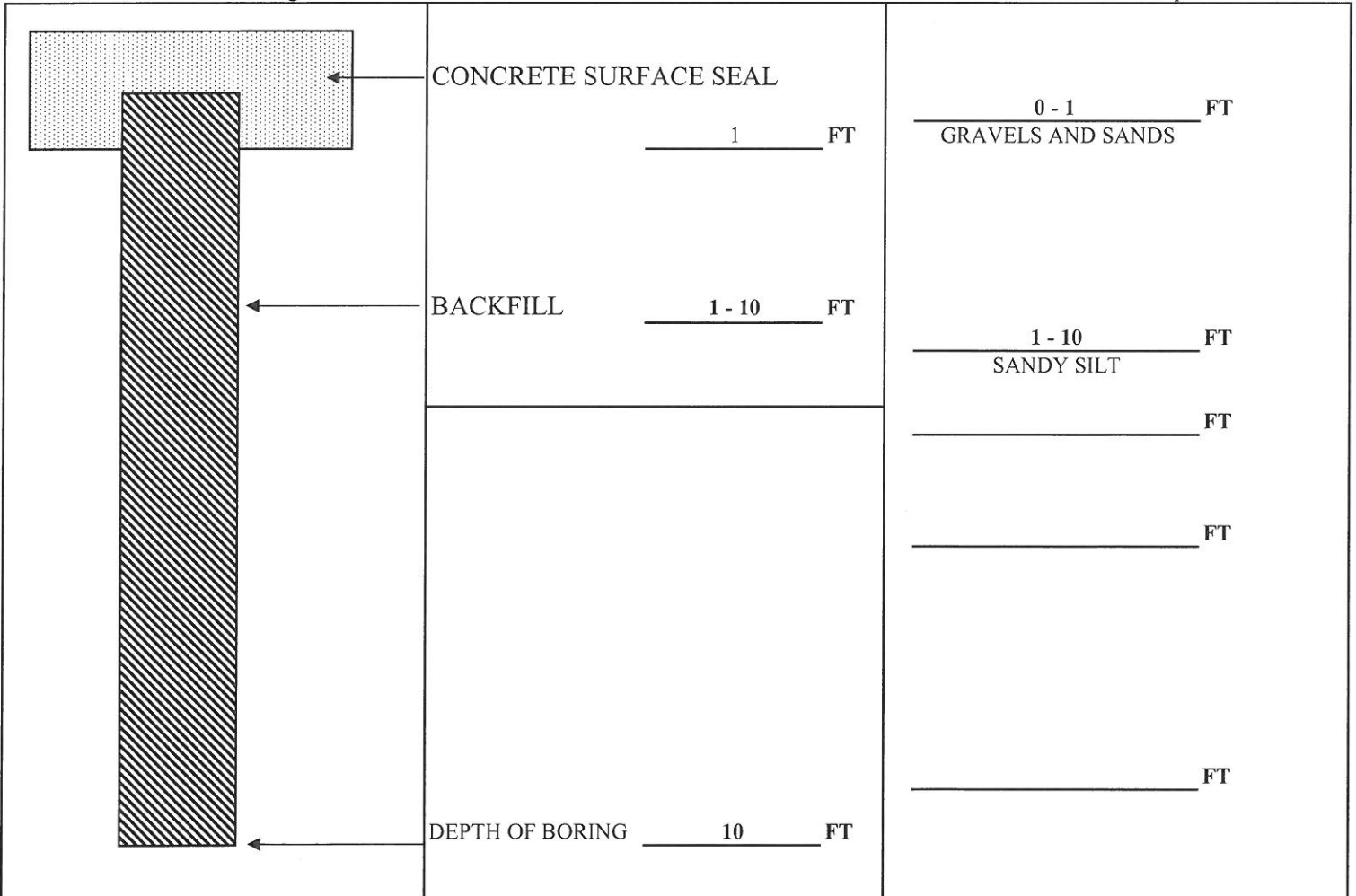
Work/Decommission Start Date 3/21/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/21/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # GP1

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. 20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No. _____

3000

Cased or Uncased Diameter 2.25"

Static Level _____

Work/Decommission Start Date 3/20/2012

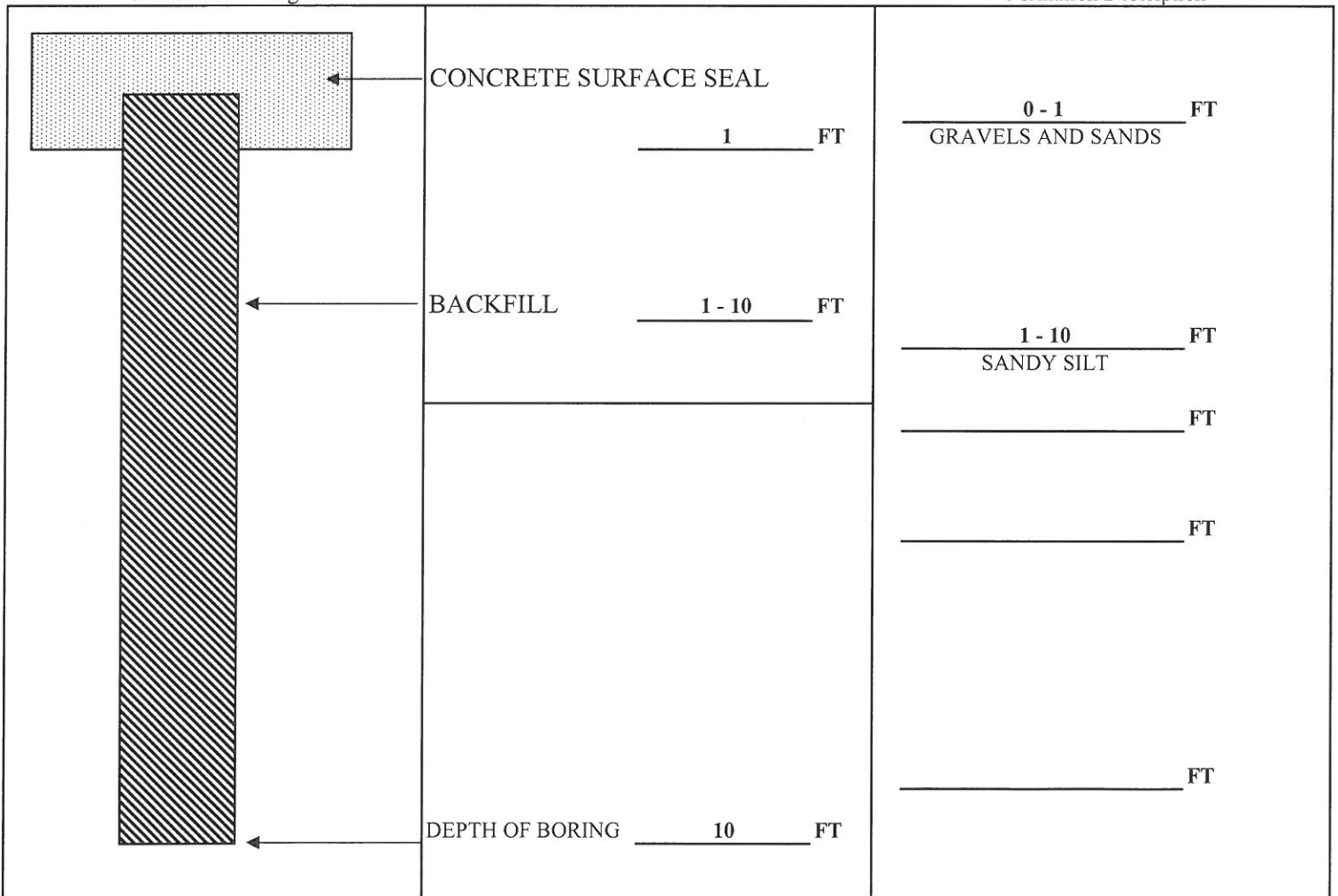
If trainee, licensed driller's

Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rev=2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring
Property Owner DENNIS BARANICK

Consulting Firm MAUL FOSTER & ALONGI

Site Address 1124 N PACIFIC AVENUE

City KELSO County COWLITZ

Geotechnical Soil Boring
Hole # GPI

Location 1/4 NE 1/4 NE Sec 27 Twn 8N R 2W or
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona
Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level _____

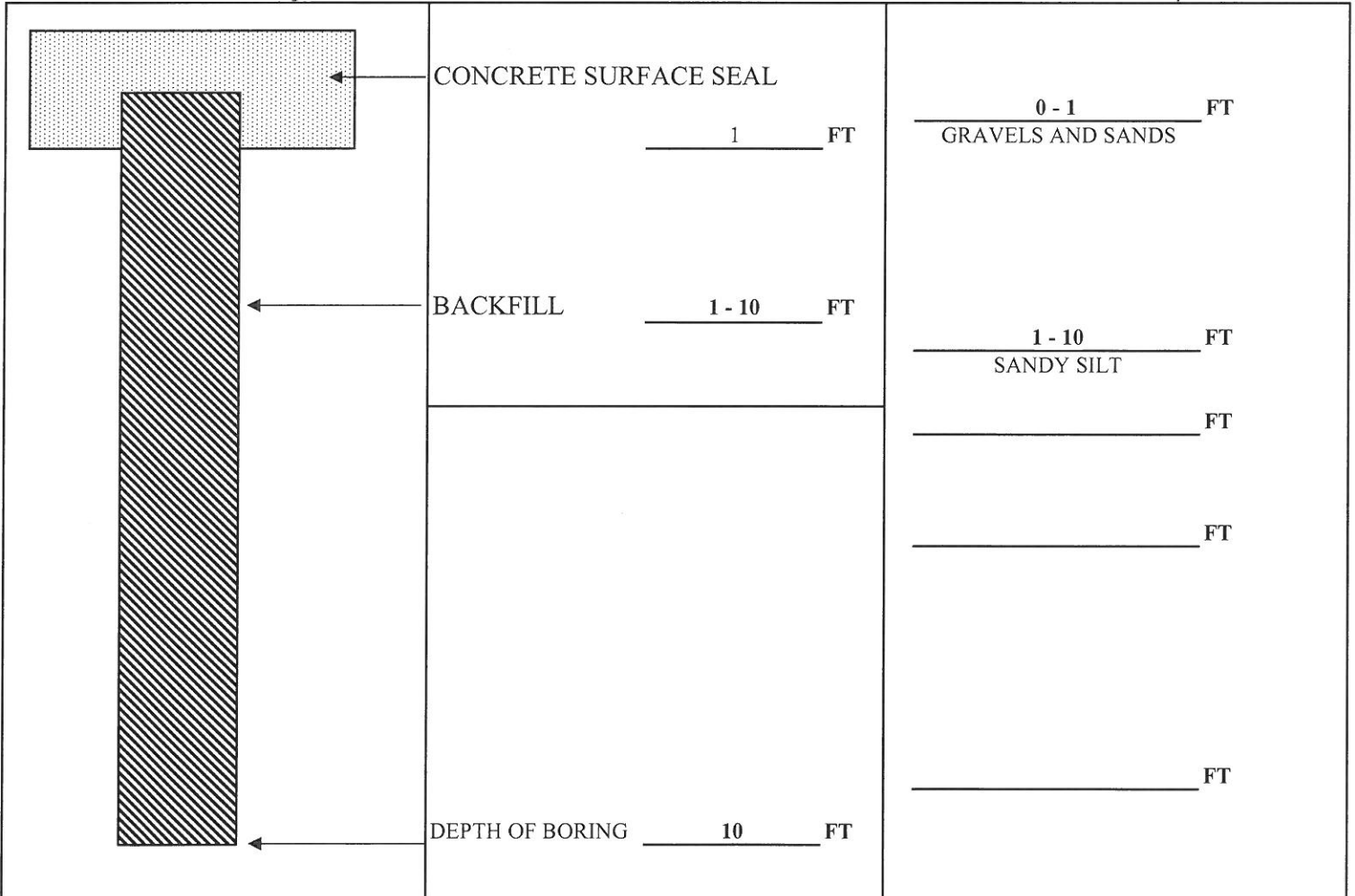
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # GP2

Location 1/4 NE 1/4 NE Sec 27 Twp: 8N R 2W or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____ still Required) Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. 20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level _____

Work/Decommission Start Date 3/20/2012

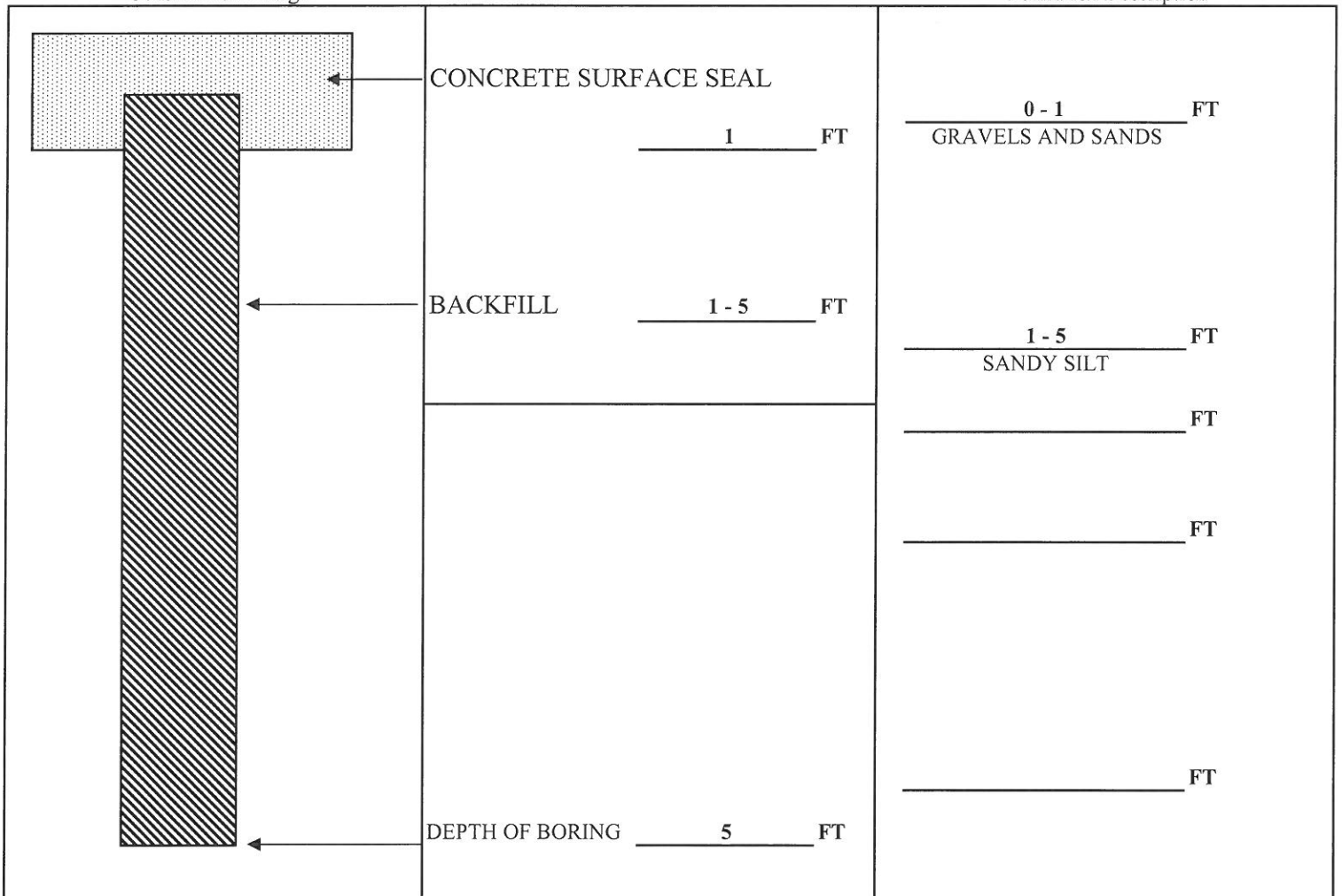
If trainee, licensed driller's

Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Location 1/4 NE 1/4 NE Sec 27 Twn 8N R 2W or

Hole # GP2

EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona

Driller/Trainee Signature Marc Chalona

Cased or Uncased Diameter 2.25" Static Level _____

Driller/Trainee License No. 3000

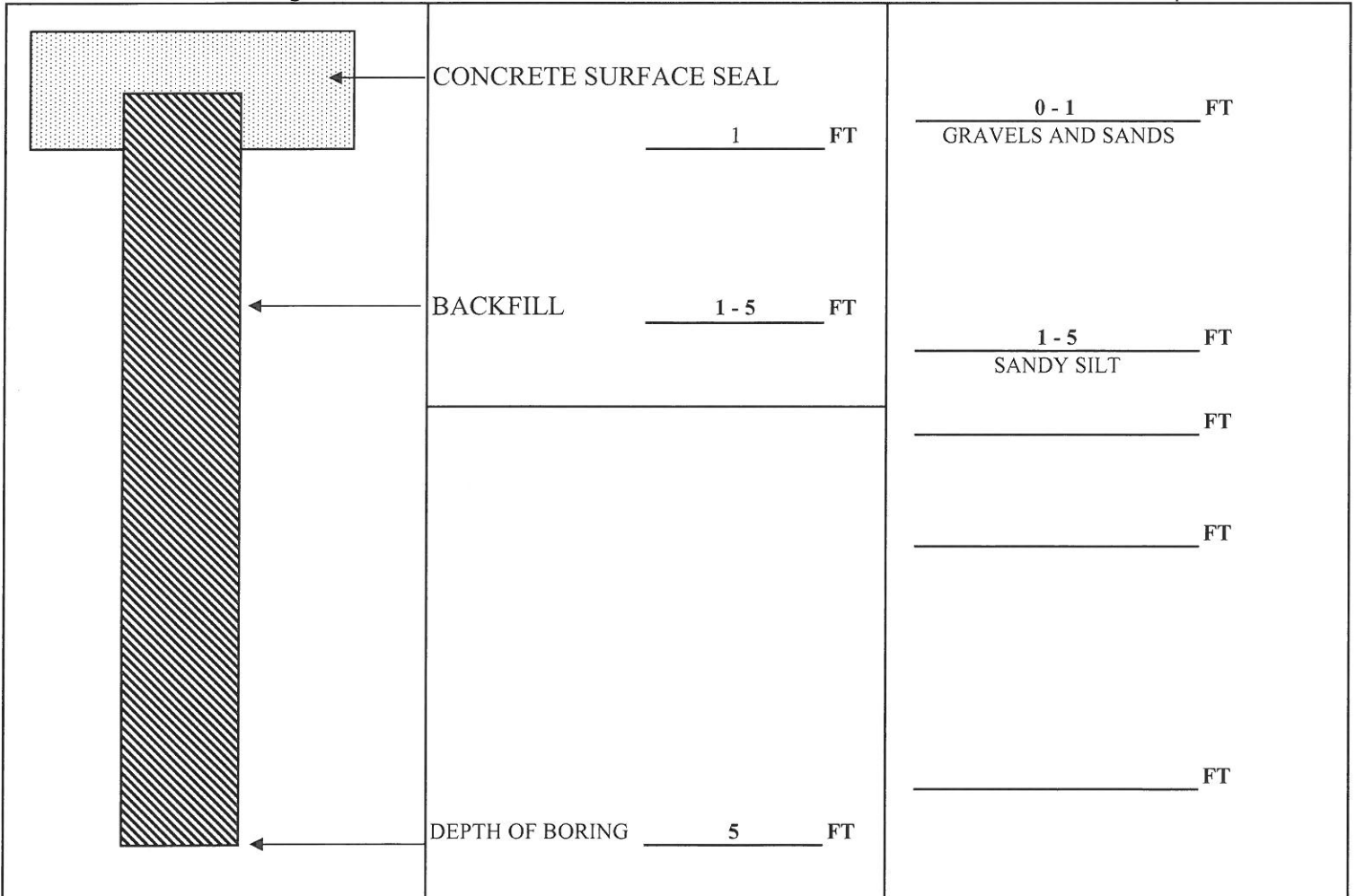
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # GP3

Location 1/4 NE 1/4 NE Sec 27 Twn 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. 20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No.

3000

Cased or Uncased Diameter 2.25" Static Level _____

Work/Decommission Start Date 3/20/2012

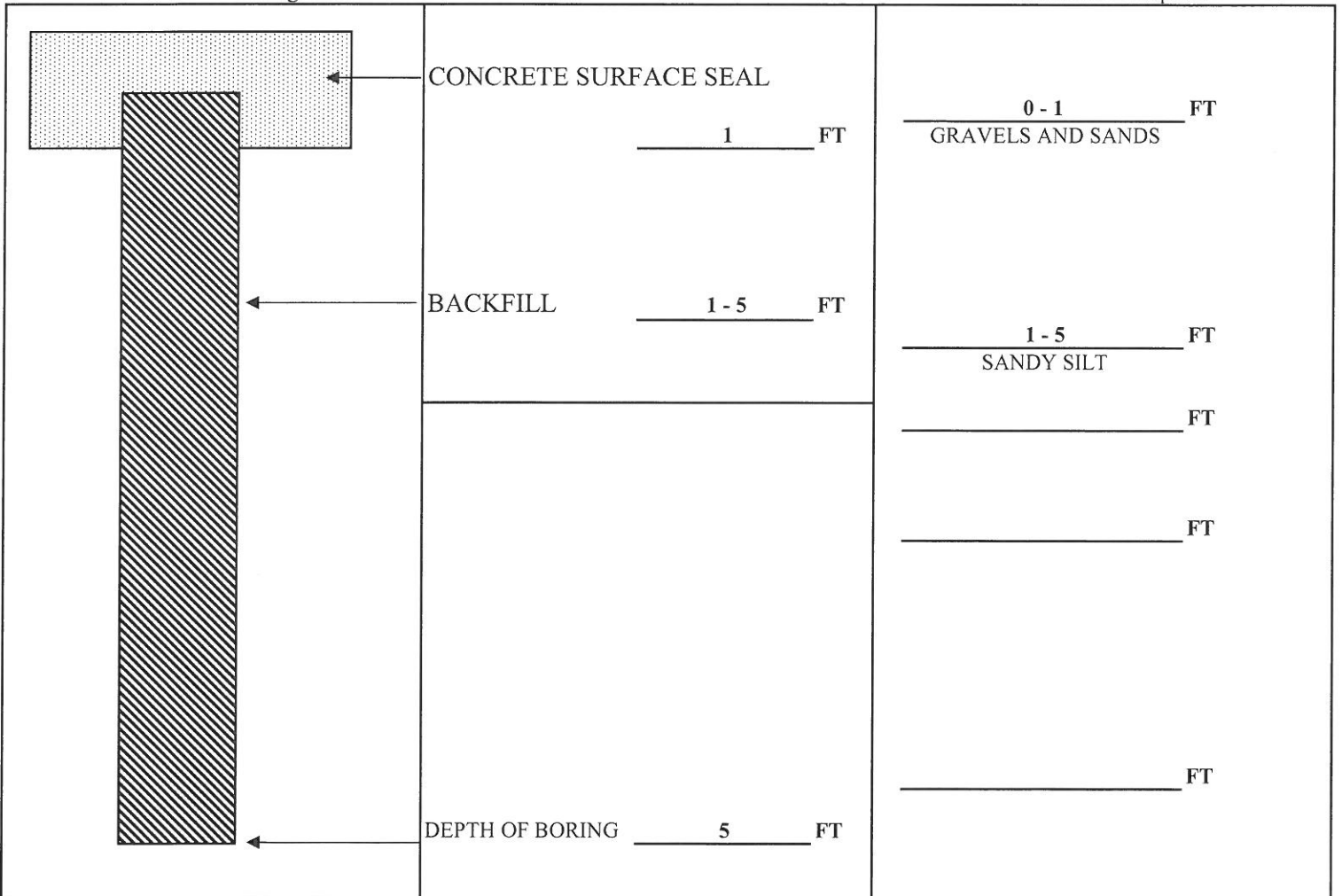
If trainee, licensed driller's

Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring
Property Owner DENNIS BARANICK

Consulting Firm MAUL FOSTER & ALONGI

Site Address 1124 N PACIFIC AVENUE

City KELSO County COWLITZ
EWM

Geotechnical Soil Boring
Hole # GP3

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona
Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level _____

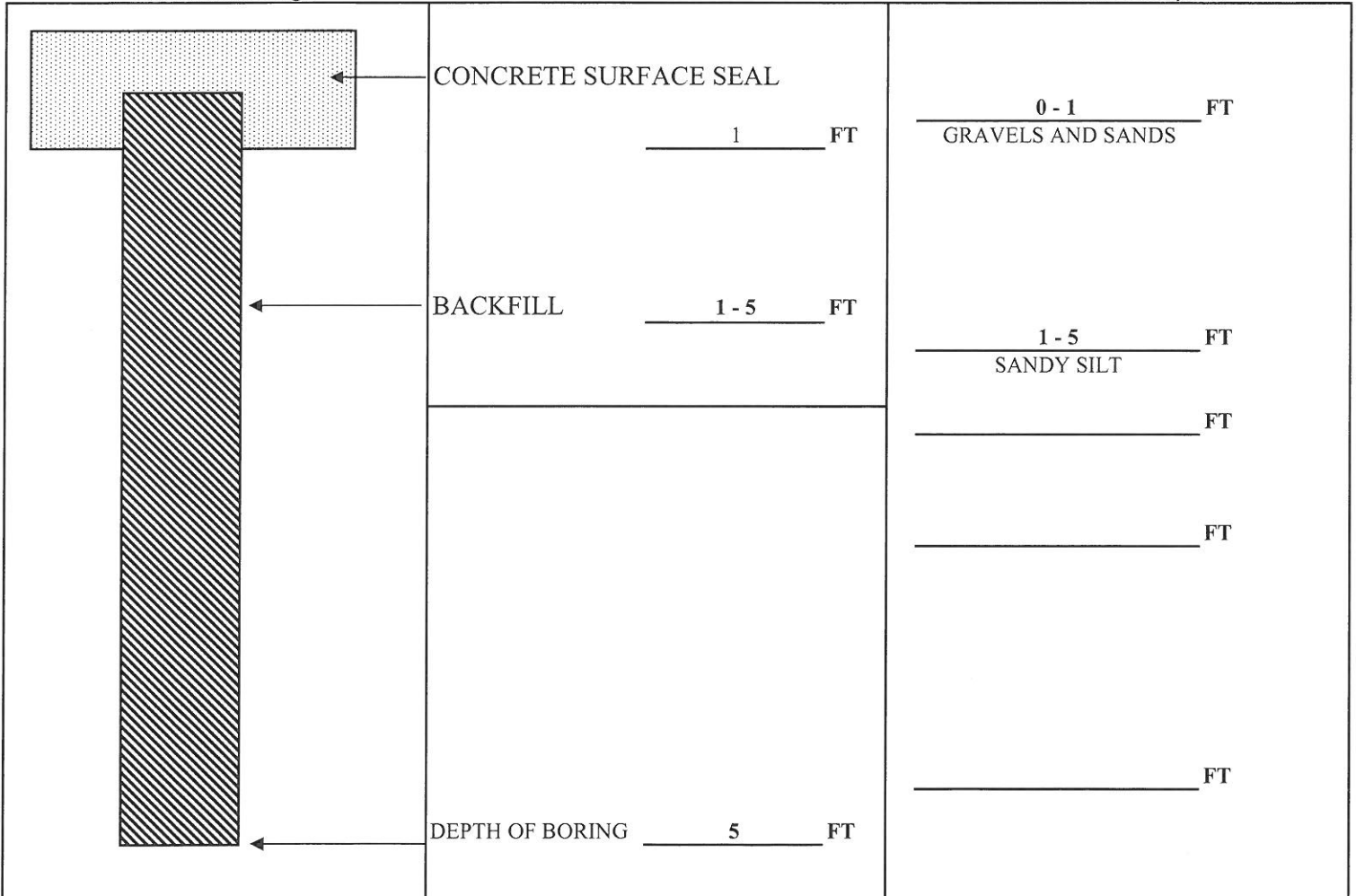
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # GP4

Location 1/4 NE 1/4 NE Sec 27 Twp: 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. 20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No. _____

3000

Cased or Uncased Diameter 2.25"

Static Level _____

Work/Decommission Start Date 3/20/2012

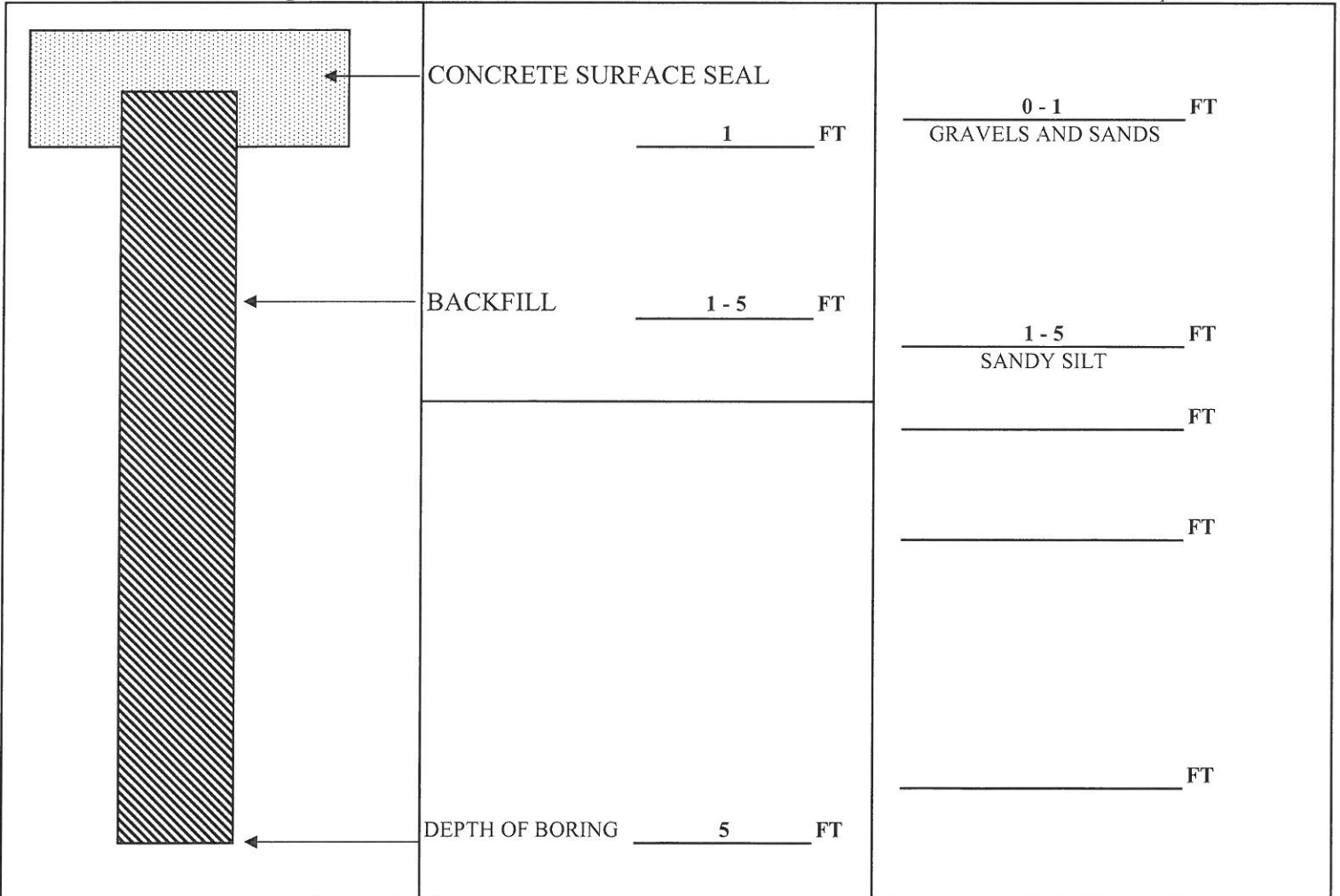
If trainee, licensed driller's _____

Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Location 1/4 NE 1/4 NE Sec 27 Twr 8N R 2W or

Hole # GP4

EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards Materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona

Driller/Trainee Signature Marc Chalona

Cased or Uncased Diameter 2.25" Static Level _____

Driller/Trainee License No. 3000

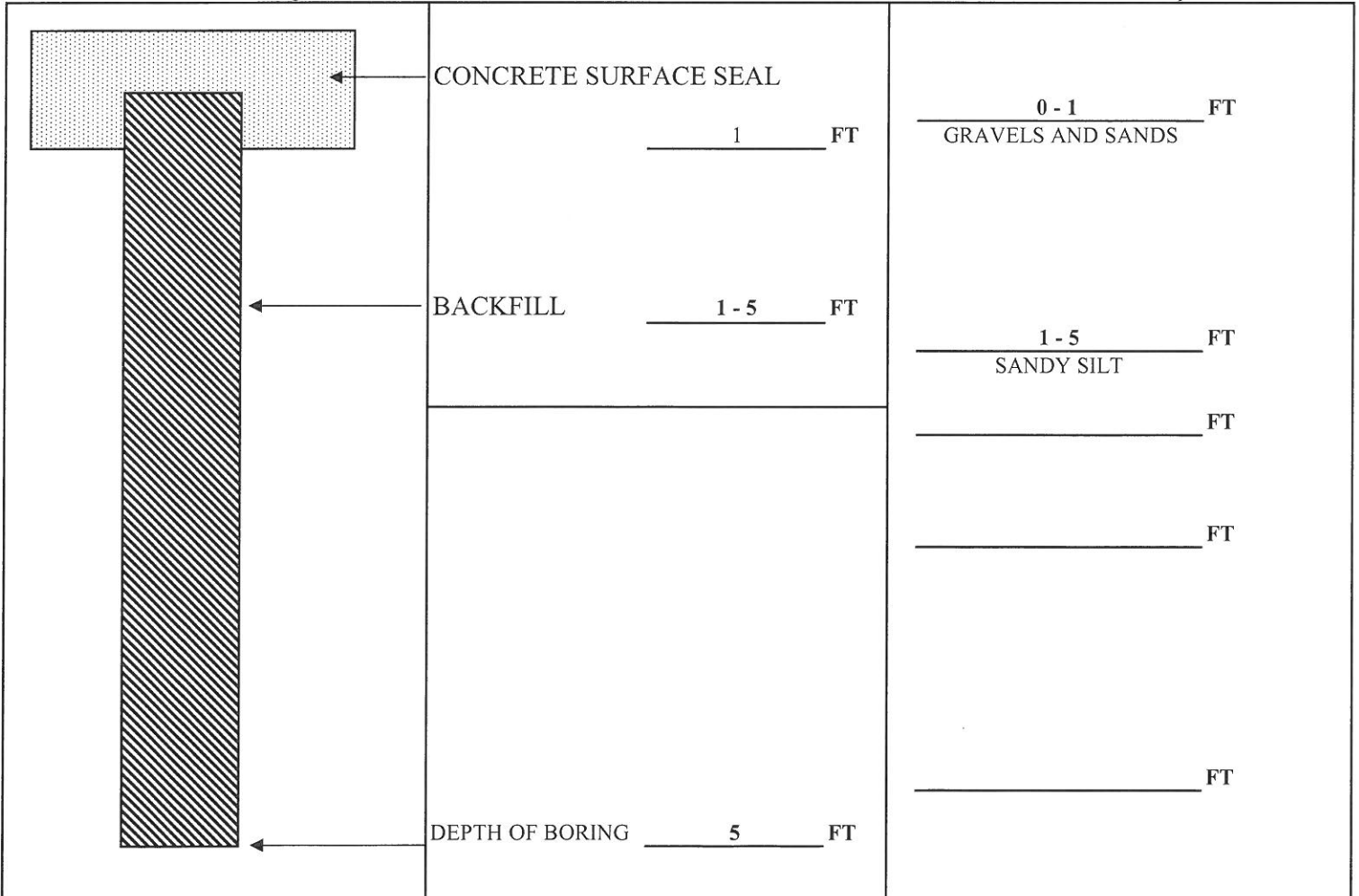
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Geotechnical Soil Boring

Property Owner **DENNIS BARANICK**

Site Address **1124 N PACIFIC AVENUE**

Consulting Firm **MAUL FOSTER & ALONGI**

City **KELSO** County **COWLITZ**

Geotechnical Soil Boring

Hole # **GP5**

Location 1/4 **NE** 1/4 **NE** Sec **27** Twp **8N** R **2W** or **WWM**

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. **20476**

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No.

3000

Cased or Uncased Diameter **2.25"** Static Level _____

Work/Decommission Start Date **3/20/2012**

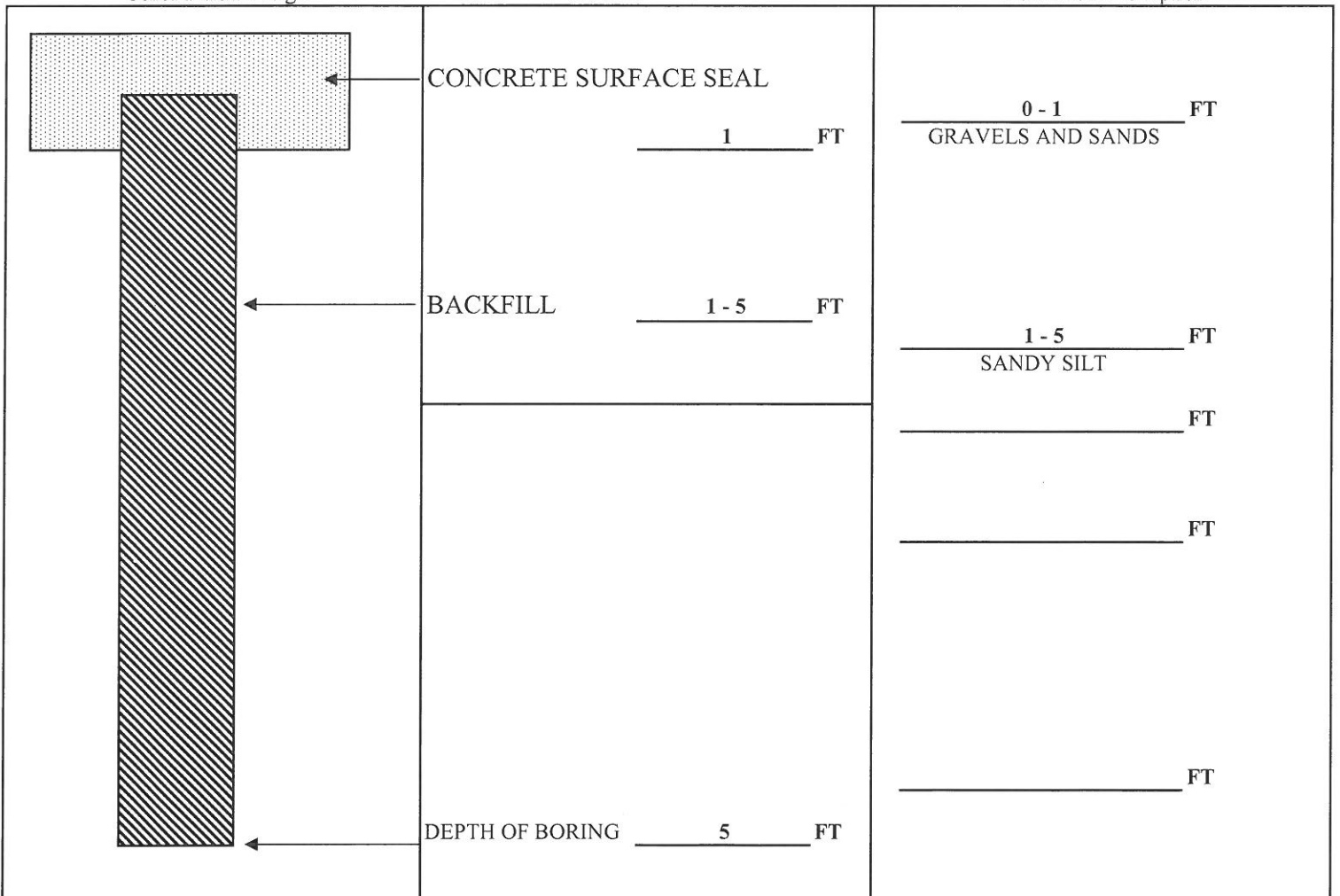
If trainee, licensed driller's

Signature and License No.

Work/Decommission Completed Date **3/20/2012**

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring
Property Owner DENNIS BARANICK

Consulting Firm MAUL FOSTER & ALONGI

Site Address 1124 N PACIFIC AVENUE
City KELSO County COWLITZ

Geotechnical Soil Boring
Hole # GP5

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) Marc Chalona
Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Tax Parcel No. _____

Cased or Uncased Diameter 2.25" Static Level _____

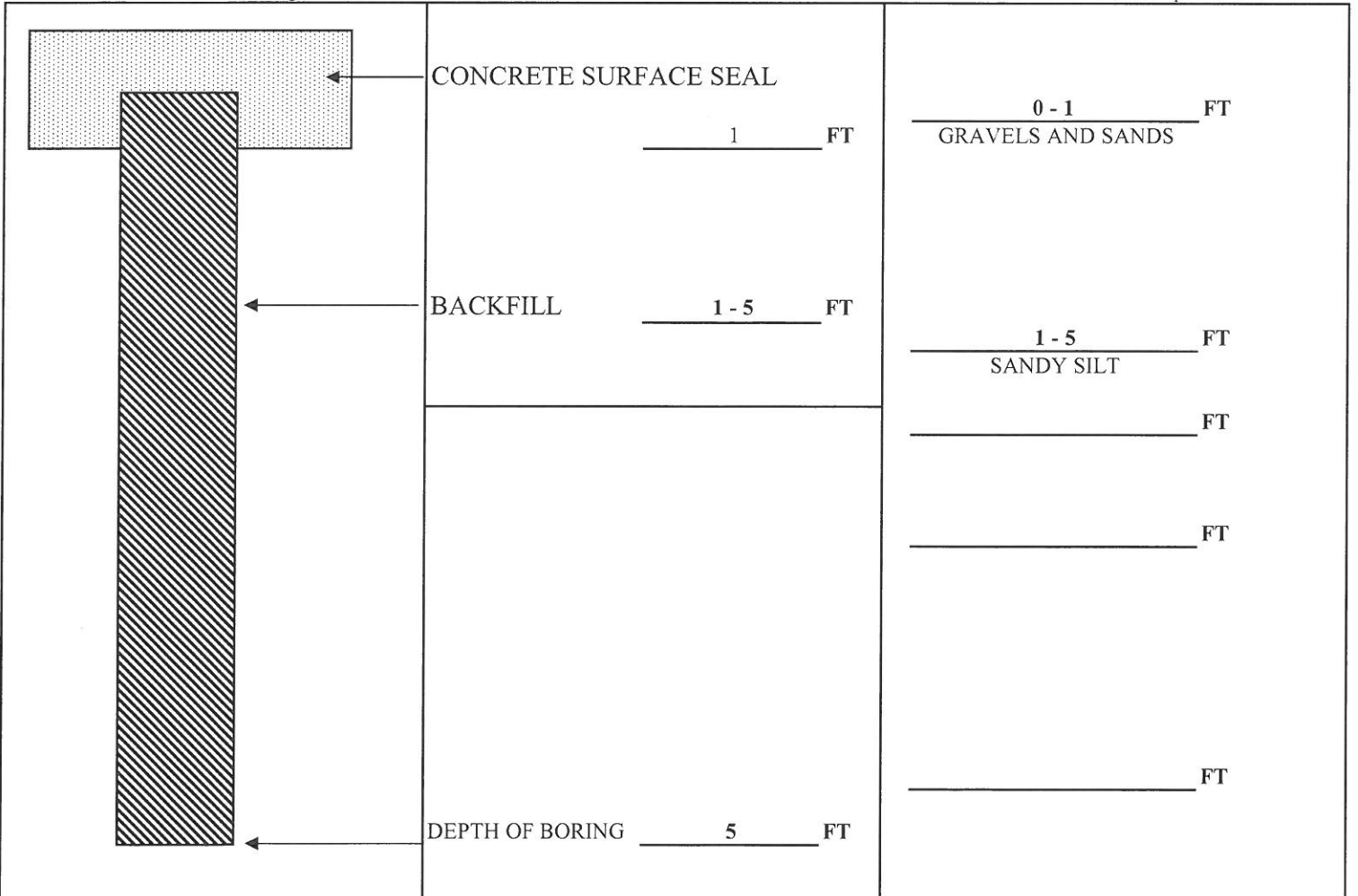
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # GP6

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

Tax Parcel No. 20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level _____

Work/Decommission Start Date 3/20/2012

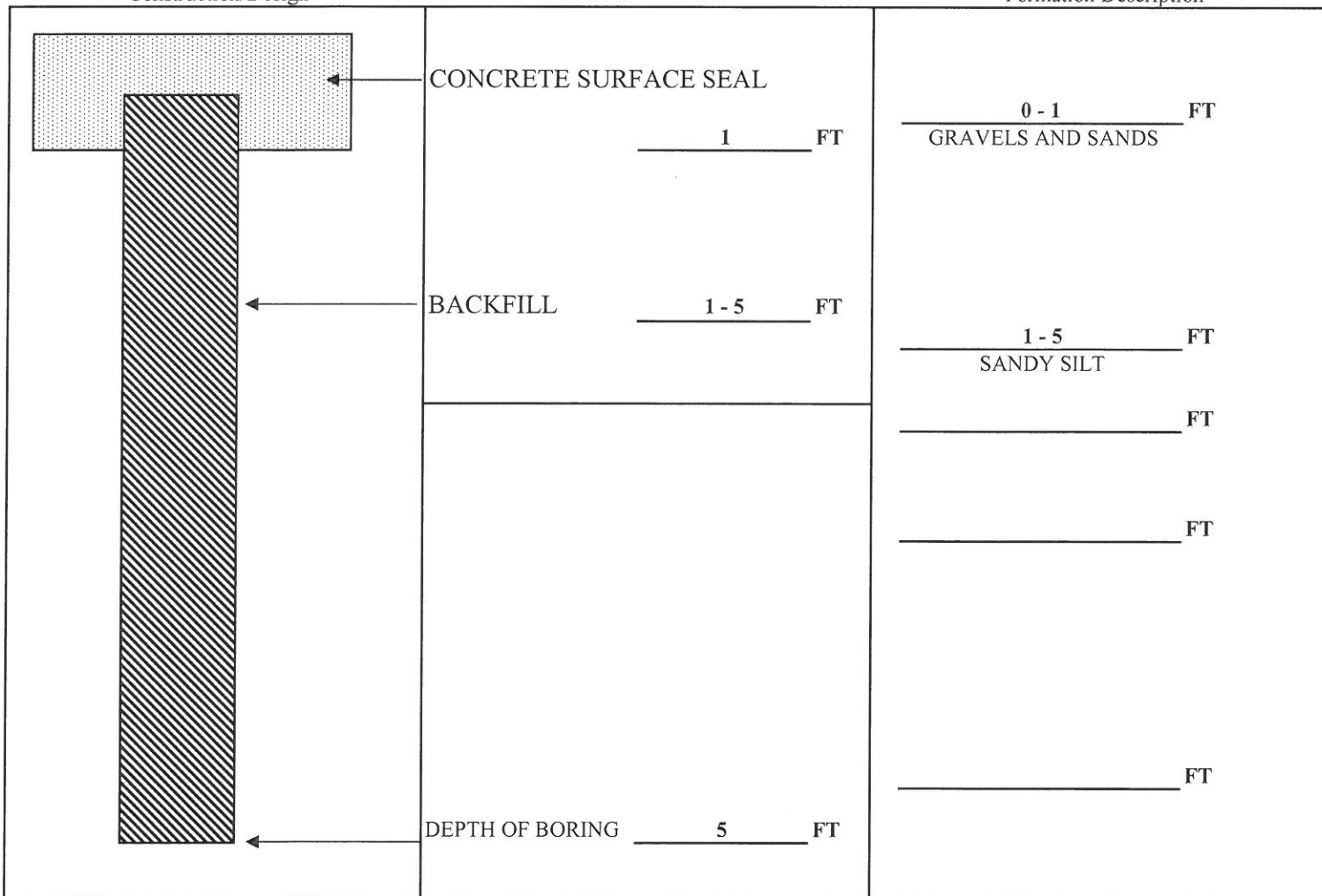
If trainee, licensed driller's

Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2.01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring
Hole # GP6

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona
Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level _____

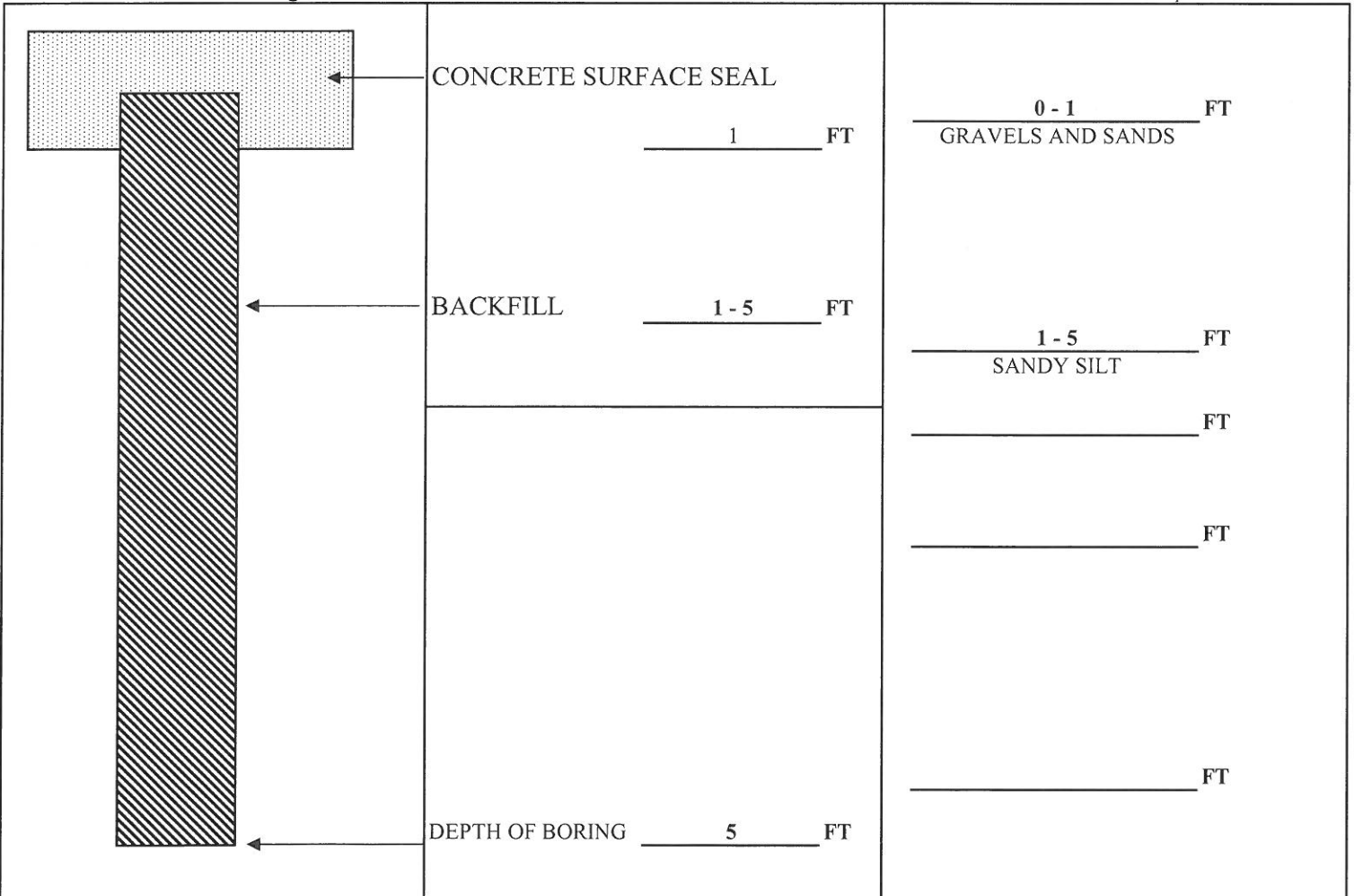
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No.

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number _____

Geotechnical Soil Boring

Property Owner **DENNIS BARANICK**

Site Address **1124 N PACIFIC AVENUE**

Consulting Firm **MAUL FOSTER & ALONGI**

City **KELSO** County **COWLITZ**

Geotechnical Soil Boring

Hole # **GP7**

Location 1/4 **NE** 1/4 **NE** Sec **27** Twp **8N** R **2W** or **WWM**

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____ still Required) Long Deg _____ Long Min/Sec _____

Tax Parcel No. **20476**

Driller Trainee Name (Print) **Marc Chalona**

Driller/Trainee Signature *Marc Chalona*

Cased or **Uncased** Diameter **2.25"** Static Level _____

Driller/Trainee License No. **3000**

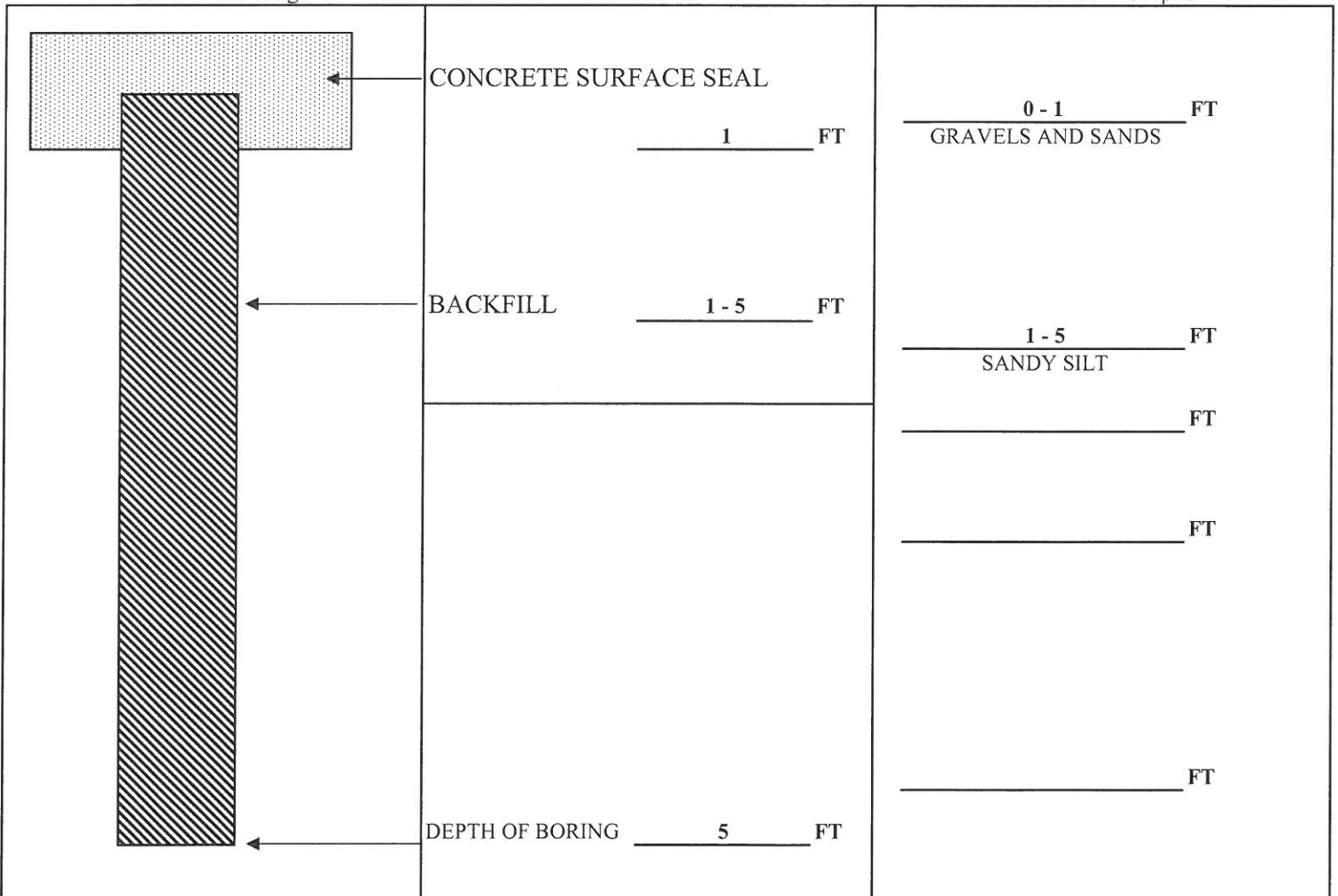
Work/Decommission Start Date **3/20/2012**

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date **3/20/2012**

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rec=v 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring

Hole # GP7

Location 1/4 NE 1/4 NE Sec 27 Twr 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona

Driller/Trainee Signature Marc Chalona

Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level _____

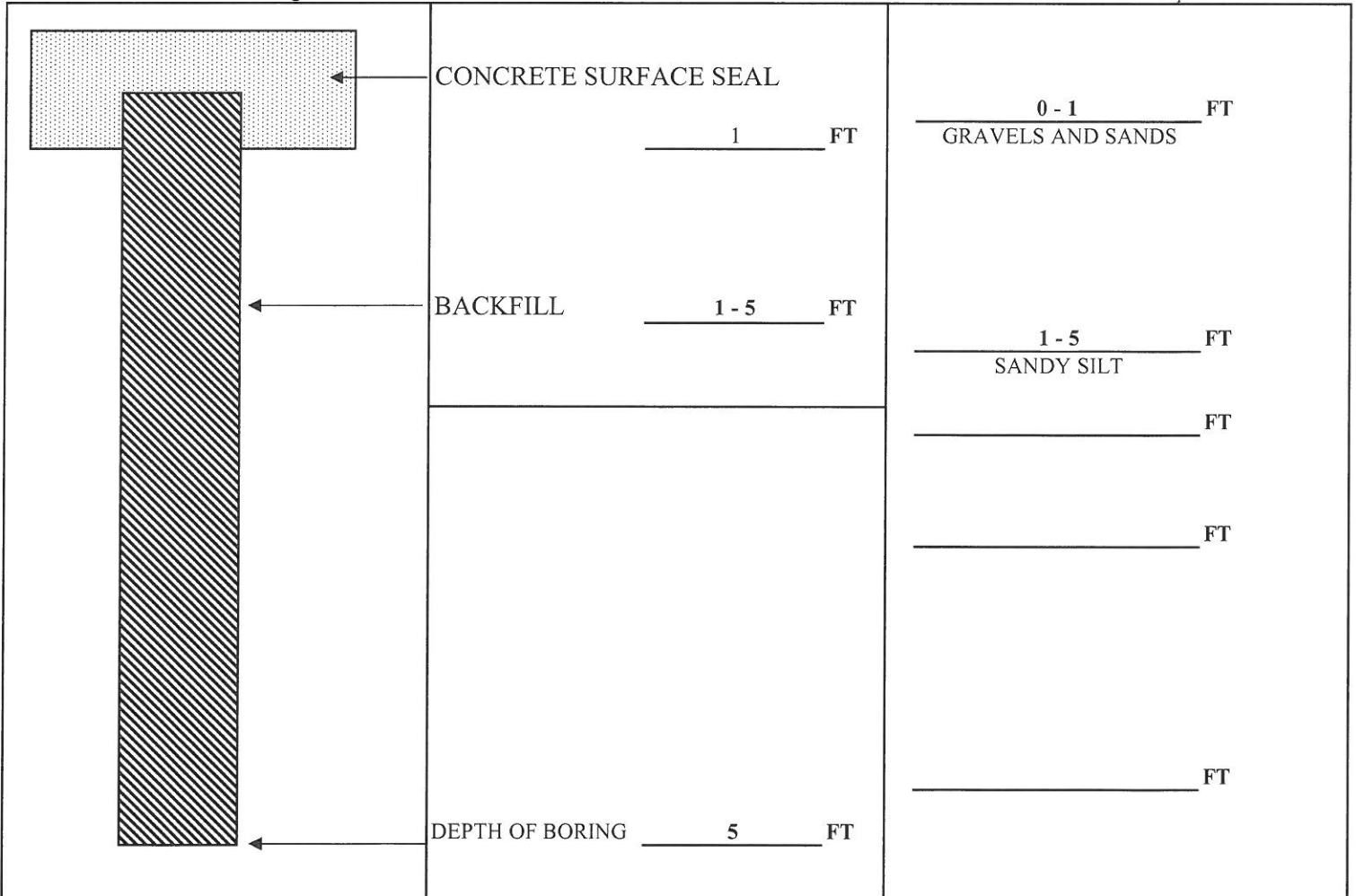
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

Formation Description



GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

SE44816

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Geotechnical Soil Boring

Property Owner

DENNIS BARANICK

Site Address

1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City

KELSO

County

COWLITZ

Geotechnical Soil Boring

Hole # GP8

Location

1/4 NE 1/4 NE Sec 27 Twn 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r

Lat Deg _____

Lat Min/Sec _____

still Required)

Long Deg _____

Long Min/Sec _____

Tax Parcel No.

20476

Driller Trainee Name (Print)

Marc Chalona

Driller/Trainee Signature

Marc Chalona

Driller/Trainee License No.

3000

Cased or Uncased Diameter

2.25"

Static Level _____

Work/Decommission Start Date

3/20/2012

If trainee, licensed driller's

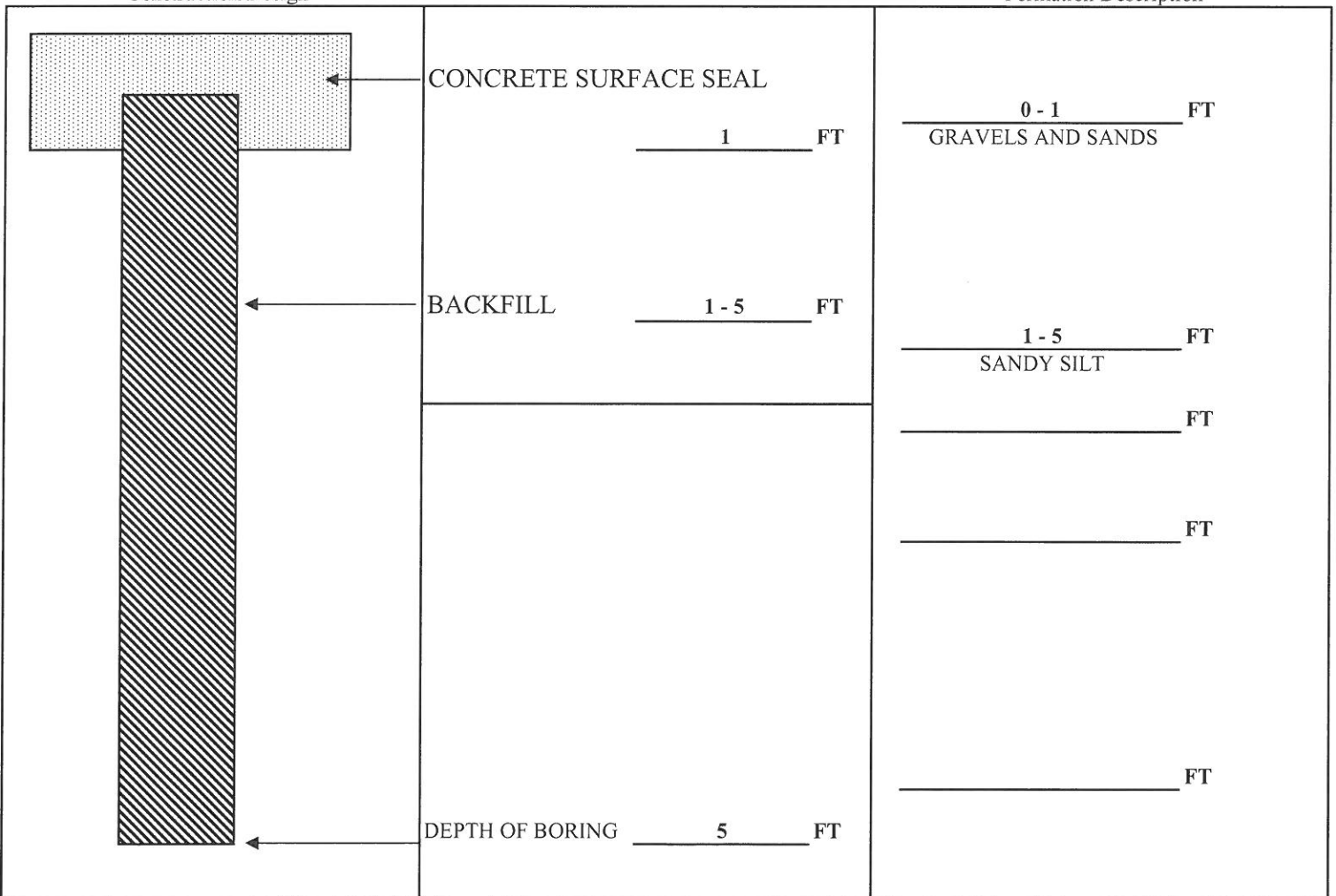
Signature and License No. _____

Work/Decommission Completed Date

3/20/2012

Construction/Design

Formation Description



Scale 1" = _____

Page 1 of 1

ECY 050-12 (Rev= 2/01)

GEOTECHNICAL BORING REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. _____

AE16669

Construction/Decommission

P12076-6450

Type of Well

Construction

Decommission *ORIGINAL INSTALLATION Notice*
of Intent Number SE44816

Geotechnical Soil Boring

Property Owner DENNIS BARANICK

Site Address 1124 N PACIFIC AVENUE

Consulting Firm MAUL FOSTER & ALONGI

City KELSO County COWLITZ

Geotechnical Soil Boring
Hole # GP8

Location 1/4 NE 1/4 NE Sec 27 Twp 8N R 2W or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) Marc Chalona
Driller/Trainee Signature Marc Chalona
Driller/Trainee License No. 3000

Cased or Uncased Diameter 2.25" Static Level _____

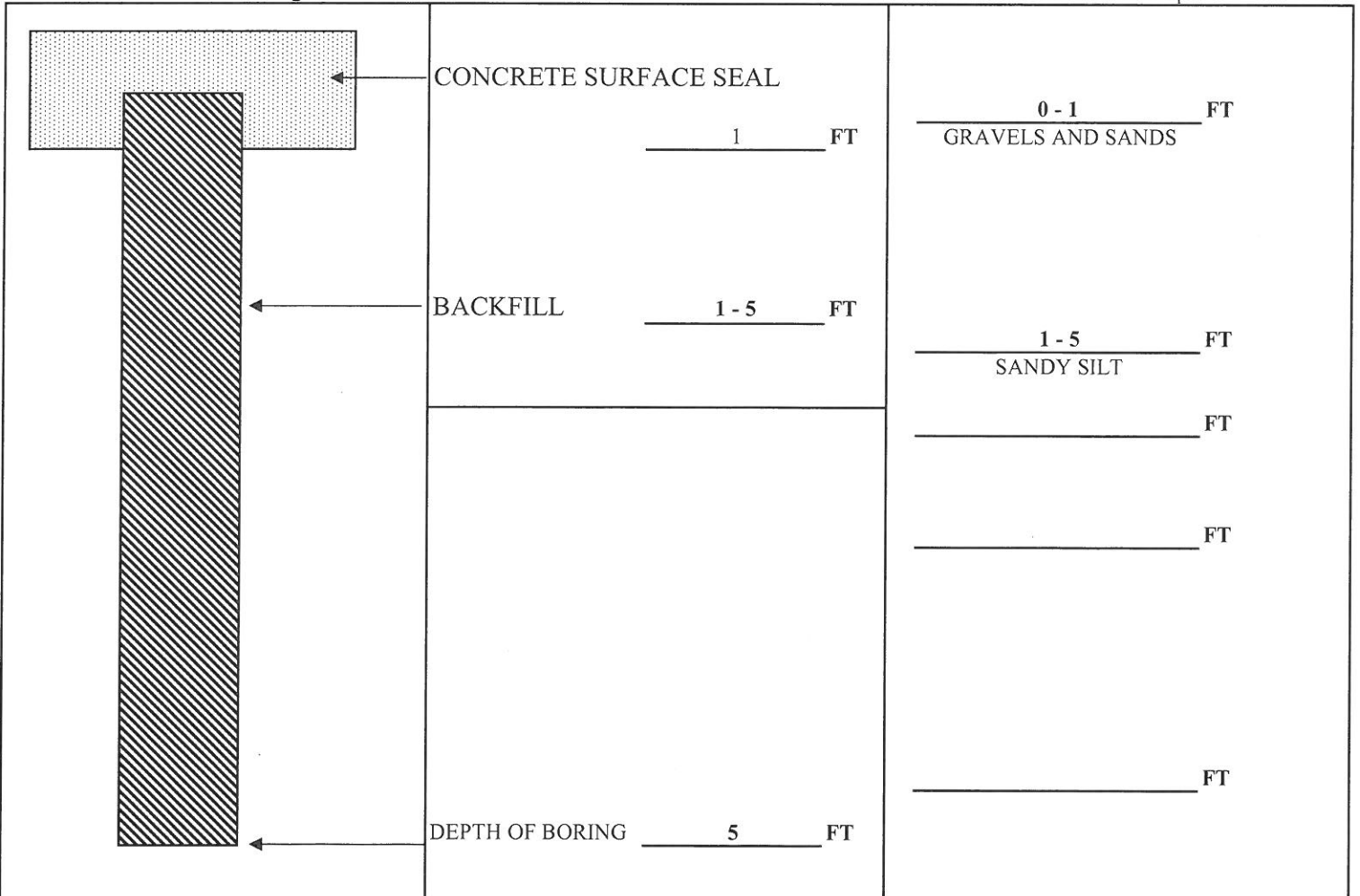
Work/Decommission Start Date 3/20/2012

If trainee, licensed driller's
Signature and License No. _____

Work/Decommission Completed Date 3/20/2012

Construction/Design

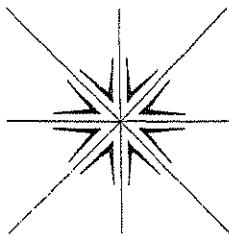
Formation Description



APPENDIX C

LABORATORY ANALYTICAL RESULTS





Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

April 03, 2012

Mike Stringer
Maul, Foster & Alongi
400 East Mill Plain Blvd
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691
FAX: (360) 906-1958

RE: Kelso IPG / 0443.02.02

Dear Mike Stringer:

Order No.: 1203193

Specialty Analytical received 27 samples on 3/22/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard

Project Manager


Technical Review

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203193
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203193-01

Client Sample ID: Trip Blank
 Collection Date: 3/21/2012 8:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
2-Butanone	ND	10.0		µg/L	1	3/22/2012 3:29:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/22/2012 3:29:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/22/2012 3:29:00 PM
Acetone	ND	50.0		µg/L	1	3/22/2012 3:29:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/22/2012 3:29:00 PM
Benzene	ND	0.300		µg/L	1	3/22/2012 3:29:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Bromoform	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Bromomethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/22/2012 3:29:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Chlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Chloroethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Chloroform	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Chloromethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-01

Client Sample ID: Trip Blank
Collection Date: 3/21/2012 8:00:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/22/2012 3:29:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/22/2012 3:29:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Naphthalene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
o-Xylene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Styrene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Toluene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/22/2012 3:29:00 PM
Surr: 1,2-Dichloroethane-d4	92.8	72.2-129		%REC	1	3/22/2012 3:29:00 PM
Surr: 4-Bromofluorobenzene	90.0	73.5-125		%REC	1	3/22/2012 3:29:00 PM
Surr: Dibromofluoromethane	90.8	58.8-148		%REC	1	3/22/2012 3:29:00 PM
Surr: Toluene-d8	98.1	79.8-137		%REC	1	3/22/2012 3:29:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-02

Client Sample ID: Equipment Blank
Collection Date: 3/21/2012 5:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	ND	0.116		mg/L	1	3/22/2012
Lube Oil	ND	0.289		mg/L	1	3/22/2012
Surr: o-Terphenyl	68.6	50-150		%REC	1	3/22/2012
NWTPH-GX		NWTPH-GX				Analyst: jpg
Gasoline	ND	100		µg/L	1	3/22/2012
Surr: 4-Bromofluorobenzene	95.8	50-150		%REC	1	3/22/2012
DISSOLVED METALS BY ICP		6010A				Analyst: cmt
Aluminum	ND	0.0500		mg/L	1	3/23/2012 12:28:03 PM
Cadmium	ND	0.00100		mg/L	1	3/23/2012 12:28:03 PM
Chromium	ND	0.00500		mg/L	1	3/23/2012 12:28:03 PM
Copper	ND	0.0100		mg/L	1	3/23/2012 12:28:03 PM
Lead	ND	0.0200		mg/L	1	3/23/2012 12:28:03 PM
Nickel	ND	0.00500		mg/L	1	3/23/2012 12:28:03 PM
Zinc	ND	0.0100		mg/L	1	3/23/2012 12:28:03 PM
DISSOLVED METALS BY ICP/MS		SW6020				Analyst: cmt
Arsenic	ND	0.100		ug/L	1	3/26/2012 4:04:00 PM
DISSOLVED MERCURY		E7470A				Analyst: cmt
Mercury	ND	0.0001		mg/L	1	3/24/2012
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
2-Methylnaphthalene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Acenaphthene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Acenaphthylene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Anthracene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Benz(a)anthracene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Benzo(a)pyrene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Benzo(b)fluoranthene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Benzo(g,h,i)perylene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Benzo(k)fluoranthene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Chrysene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Dibenz(a,h)anthracene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Fluoranthene	0.0612	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Fluorene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Naphthalene	0.194	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Phenanthrene	0.183	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Pyrene	0.0714	0.0510		µg/L	1	3/23/2012 10:28:00 AM
Surr: 2-Fluorobiphenyl	66.1	18.6-106		%REC	1	3/23/2012 10:28:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-02

Client Sample ID: Equipment Blank
Collection Date: 3/21/2012 5:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
Surr: Nitrobenzene-d5	74.7	17-130		%REC	1	3/23/2012 10:28:00 AM
Surr: p-Terphenyl-d14	76.8	39.6-131		%REC	1	3/23/2012 10:28:00 AM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
2-Butanone	ND	10.0		µg/L	1	3/22/2012 3:52:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/22/2012 3:52:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/22/2012 3:52:00 PM
Acetone	ND	50.0		µg/L	1	3/22/2012 3:52:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/22/2012 3:52:00 PM
Benzene	ND	0.300		µg/L	1	3/22/2012 3:52:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Bromoform	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Bromomethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/22/2012 3:52:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-02

Client Sample ID: Equipment Blank
Collection Date: 3/21/2012 5:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Chlorobenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Chloroethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Chloroform	1.27	1.00		µg/L	1	3/22/2012 3:52:00 PM
Chloromethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/22/2012 3:52:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/22/2012 3:52:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Naphthalene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
o-Xylene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Styrene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Toluene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/22/2012 3:52:00 PM
Surr: 1,2-Dichloroethane-d4	93.0	72.2-129		%REC	1	3/22/2012 3:52:00 PM
Surr: 4-Bromofluorobenzene	90.3	73.5-125		%REC	1	3/22/2012 3:52:00 PM
Surr: Dibromofluoromethane	91.6	58.8-148		%REC	1	3/22/2012 3:52:00 PM
Surr: Toluene-d8	94.7	79.8-137		%REC	1	3/22/2012 3:52:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-03

Client Sample ID: GP1-W-10
Collection Date: 3/21/2012 11:15:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	0.0919	0.0773		mg/L	1	3/22/2012
Lube Oil	ND	0.193		mg/L	1	3/22/2012
Surr: o-Terphenyl	87.8	50-150		%REC	1	3/22/2012
NWTPH-GX		NWTPH-GX				Analyst: jpg
Gasoline	ND	100		µg/L	1	3/22/2012
Surr: 4-Bromofluorobenzene	94.6	50-150		%REC	1	3/22/2012
DISSOLVED METALS BY ICP		6010A				Analyst: cmt
Aluminum	ND	0.0500		mg/L	1	3/23/2012 12:55:34 PM
Cadmium	ND	0.00100		mg/L	1	3/23/2012 12:55:34 PM
Chromium	0.00530	0.00500		mg/L	1	3/23/2012 12:55:34 PM
Copper	ND	0.0100		mg/L	1	3/23/2012 12:55:34 PM
Lead	ND	0.0200		mg/L	1	3/23/2012 12:55:34 PM
Nickel	ND	0.00500		mg/L	1	3/23/2012 12:55:34 PM
Zinc	0.0106	0.0100		mg/L	1	3/23/2012 12:55:34 PM
DISSOLVED METALS BY ICP/MS		SW6020				Analyst: cmt
Arsenic	ND	0.100		ug/L	1	3/26/2012 4:11:00 PM
DISSOLVED MERCURY		E7470A				Analyst: cmt
Mercury	ND	0.0001		mg/L	1	3/24/2012
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
1-Methylnaphthalene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
2-Methylnaphthalene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Acenaphthene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Acenaphthylene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Anthracene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Benz(a)anthracene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Benzo(a)pyrene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Benzo(b)fluoranthene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Benzo(g,h,i)perylene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Benzo(k)fluoranthene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Chrysene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Dibenz(a,h)anthracene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Fluoranthene	0.0622	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Fluorene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Naphthalene	0.155	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Phenanthrene	0.187	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Pyrene	0.0622	0.0518		µg/L	1	3/23/2012 10:54:00 AM
Surr: 2-Fluorobiphenyl	70.9	18.6-106		%REC	1	3/23/2012 10:54:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-03

Client Sample ID: GP1-W-10
Collection Date: 3/21/2012 11:15:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
Surr: Nitrobenzene-d5	92.7	17-130		%REC	1	3/23/2012 10:54:00 AM
Surr: p-Terphenyl-d14	86.8	39.6-131		%REC	1	3/23/2012 10:54:00 AM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rk
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
2-Butanone	ND	10.0		µg/L	1	3/22/2012 4:15:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/22/2012 4:15:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/22/2012 4:15:00 PM
Acetone	ND	50.0		µg/L	1	3/22/2012 4:15:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/22/2012 4:15:00 PM
Benzene	ND	0.300		µg/L	1	3/22/2012 4:15:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Bromoform	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Bromomethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/22/2012 4:15:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-03

Client Sample ID: GP1-W-10
Collection Date: 3/21/2012 11:15:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Chlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Chloroethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Chloroform	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Chloromethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/22/2012 4:15:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/22/2012 4:15:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Naphthalene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
o-Xylene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Styrene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Toluene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/22/2012 4:15:00 PM
Surr: 1,2-Dichloroethane-d4	92.7	72.2-129		%REC	1	3/22/2012 4:15:00 PM
Surr: 4-Bromofluorobenzene	91.4	73.5-125		%REC	1	3/22/2012 4:15:00 PM
Surr: Dibromofluoromethane	92.7	58.8-148		%REC	1	3/22/2012 4:15:00 PM
Surr: Toluene-d8	97.9	79.8-137		%REC	1	3/22/2012 4:15:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-04

Client Sample ID: GP9-W-7
Collection Date: 3/21/2012 2:16:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	0.0846	0.0770		mg/L	1	3/22/2012
Lube Oil	ND	0.192		mg/L	1	3/22/2012
Surr: o-Terphenyl	83.7	50-150		%REC	1	3/22/2012
NWTPH-GX		NWTPH-GX		Analyst: jrp		
Gasoline	ND	100		µg/L	1	3/22/2012
Surr: 4-Bromofluorobenzene	94.7	50-150		%REC	1	3/22/2012
DISSOLVED METALS BY ICP		6010A		Analyst: cmt		
Aluminum	ND	0.0500		mg/L	1	3/23/2012 1:00:08 PM
Cadmium	ND	0.00100		mg/L	1	3/23/2012 1:00:08 PM
Chromium	ND	0.00500		mg/L	1	3/23/2012 1:00:08 PM
Copper	ND	0.0100		mg/L	1	3/23/2012 1:00:08 PM
Lead	ND	0.0200		mg/L	1	3/23/2012 1:00:08 PM
Nickel	ND	0.00500		mg/L	1	3/23/2012 1:00:08 PM
Zinc	ND	0.0100		mg/L	1	3/23/2012 1:00:08 PM
DISSOLVED METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	ND	0.100		ug/L	1	3/26/2012 4:17:00 PM
DISSOLVED MERCURY		E7470A		Analyst: cmt		
Mercury	ND	0.0001		mg/L	1	3/24/2012
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: bda		
1-Methylnaphthalene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
2-Methylnaphthalene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Acenaphthene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Acenaphthylene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Anthracene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Benz(a)anthracene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Benzo(a)pyrene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Benzo(b)fluoranthene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Benzo(g,h,i)perylene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Benzo(k)fluoranthene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Chrysene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Dibenz(a,h)anthracene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Fluoranthene	0.0823	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Fluorene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Naphthalene	0.0926	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Phenanthrene	0.185	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Pyrene	0.0617	0.0514		µg/L	1	3/23/2012 11:21:00 AM
Surr: 2-Fluorobiphenyl	92.5	18.6-106		%REC	1	3/23/2012 11:21:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-04

Client Sample ID: GP9-W-7
Collection Date: 3/21/2012 2:16:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
Surr: Nitrobenzene-d5	99.7	17-130		%REC	1	3/23/2012 11:21:00 AM
Surr: p-Terphenyl-d14	96.0	39.6-131		%REC	1	3/23/2012 11:21:00 AM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
2-Butanone	ND	10.0		µg/L	1	3/22/2012 4:38:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/22/2012 4:38:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/22/2012 4:38:00 PM
Acetone	ND	50.0		µg/L	1	3/22/2012 4:38:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/22/2012 4:38:00 PM
Benzene	ND	0.300		µg/L	1	3/22/2012 4:38:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Bromoform	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Bromomethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/22/2012 4:38:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-04

Client Sample ID: GP9-W-7
Collection Date: 3/21/2012 2:16:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Chlorobenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Chloroethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Chloroform	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Chloromethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/22/2012 4:38:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/22/2012 4:38:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Naphthalene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
o-Xylene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Styrene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Toluene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/22/2012 4:38:00 PM
Surr: 1,2-Dichloroethane-d4	93.4	72.2-129		%REC	1	3/22/2012 4:38:00 PM
Surr: 4-Bromofluorobenzene	92.6	73.5-125		%REC	1	3/22/2012 4:38:00 PM
Surr: Dibromofluoromethane	93.7	58.8-148		%REC	1	3/22/2012 4:38:00 PM
Surr: Toluene-d8	98.4	79.8-137		%REC	1	3/22/2012 4:38:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-05

Client Sample ID: GP9-W-38.0
Collection Date: 3/21/2012 3:56:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	0.110	0.0771		mg/L	1	3/22/2012
Lube Oil	ND	0.193		mg/L	1	3/22/2012
Surr: o-Terphenyl	71.1	50-150		%REC	1	3/22/2012
NWTPH-GX		NWTPH-GX		Analyst: jrp		
Gasoline	ND	100		µg/L	1	3/22/2012
Surr: 4-Bromofluorobenzene	95.0	50-150		%REC	1	3/22/2012
DISSOLVED METALS BY ICP		6010A		Analyst: cmt		
Aluminum	ND	0.0500		mg/L	1	3/23/2012 1:04:42 PM
Cadmium	ND	0.00100		mg/L	1	3/23/2012 1:04:42 PM
Chromium	ND	0.00500		mg/L	1	3/23/2012 1:04:42 PM
Copper	ND	0.0100		mg/L	1	3/23/2012 1:04:42 PM
Lead	ND	0.0200		mg/L	1	3/23/2012 1:04:42 PM
Nickel	0.00540	0.00500		mg/L	1	3/23/2012 1:04:42 PM
Zinc	0.0124	0.0100		mg/L	1	3/23/2012 1:04:42 PM
DISSOLVED METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	0.298	0.100		ug/L	1	3/26/2012 4:24:00 PM
DISSOLVED MERCURY		E7470A		Analyst: cmt		
Mercury	ND	0.0001		mg/L	1	3/24/2012
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: bda		
1-Methylnaphthalene	ND	0.0513		µg/L	1	3/23/2012 11:48:00 AM
2-Methylnaphthalene	ND	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Acenaphthene	0.226	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Acenaphthylene	ND	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Anthracene	0.565	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Benz(a)anthracene	0.164	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Benzo(a)pyrene	0.144	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Benzo(b)fluoranthene	0.133	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Benzo(g,h,i)perylene	0.0924	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Benzo(k)fluoranthene	ND	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Chrysene	0.236	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Dibenz(a,h)anthracene	ND	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Fluoranthene	1.16	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Fluorene	0.493	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Indeno(1,2,3-cd)pyrene	0.0719	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Naphthalene	0.0616	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Phenanthrene	3.40	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Pyrene	1.39	0.0513		µg/L	1	3/23/2012 11:48:00 AM
Surr: 2-Fluorobiphenyl	67.9	18.6-106		%REC	1	3/23/2012 11:48:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-05

Client Sample ID: GP9-W-38.0
Collection Date: 3/21/2012 3:56:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
Surr: Nitrobenzene-d5	93.6	17-130		%REC	1	3/23/2012 11:48:00 AM
Surr: p-Terphenyl-d14	79.0	39.6-131		%REC	1	3/23/2012 11:48:00 AM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rk
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
2-Butanone	ND	10.0		µg/L	1	3/22/2012 5:01:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/22/2012 5:01:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/22/2012 5:01:00 PM
Acetone	ND	50.0		µg/L	1	3/22/2012 5:01:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/22/2012 5:01:00 PM
Benzene	ND	0.300		µg/L	1	3/22/2012 5:01:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Bromoform	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Bromomethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/22/2012 5:01:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-05

Client Sample ID: GP9-W-38.0
Collection Date: 3/21/2012 3:56:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Chlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Chloroethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Chloroform	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Chloromethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/22/2012 5:01:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/22/2012 5:01:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Naphthalene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
o-Xylene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Styrene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Toluene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/22/2012 5:01:00 PM
Surr: 1,2-Dichloroethane-d4	93.5	72.2-129		%REC	1	3/22/2012 5:01:00 PM
Surr: 4-Bromofluorobenzene	93.5	73.5-125		%REC	1	3/22/2012 5:01:00 PM
Surr: Dibromofluoromethane	93.9	58.8-148		%REC	1	3/22/2012 5:01:00 PM
Surr: Toluene-d8	97.4	79.8-137		%REC	1	3/22/2012 5:01:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-06

Client Sample ID: GP10-W-38
Collection Date: 3/21/2012 6:35:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	0.129	0.0792		mg/L	1	3/22/2012
Lube Oil	ND	0.198		mg/L	1	3/22/2012
Surr: o-Terphenyl	72.5	50-150		%REC	1	3/22/2012
NWTPH-GX		NWTPH-GX		Analyst: jrp		
Gasoline	ND	100		µg/L	1	3/22/2012
Surr: 4-Bromofluorobenzene	95.1	50-150		%REC	1	3/22/2012
DISSOLVED METALS BY ICP		6010A		Analyst: cmt		
Aluminum	ND	0.0500		mg/L	1	3/23/2012 1:09:17 PM
Cadmium	ND	0.00100		mg/L	1	3/23/2012 1:09:17 PM
Chromium	ND	0.00500		mg/L	1	3/23/2012 1:09:17 PM
Copper	ND	0.0100		mg/L	1	3/23/2012 1:09:17 PM
Lead	ND	0.0200		mg/L	1	3/23/2012 1:09:17 PM
Nickel	0.00580	0.00500		mg/L	1	3/23/2012 1:09:17 PM
Zinc	0.0139	0.0100		mg/L	1	3/23/2012 1:09:17 PM
DISSOLVED METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	0.194	0.100		ug/L	1	3/26/2012 4:31:00 PM
DISSOLVED MERCURY		E7470A		Analyst: cmt		
Mercury	ND	0.0001		mg/L	1	3/24/2012
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: bda		
1-Methylnaphthalene	0.0613	0.0511		µg/L	1	3/23/2012 12:14:00 PM
2-Methylnaphthalene	ND	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Acenaphthene	1.00	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Acenaphthylene	0.0613	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Anthracene	0.798	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Benz(a)anthracene	0.123	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Benzo(a)pyrene	0.0613	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Benzo(b)fluoranthene	0.0511	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Benzo(g,h,i)perylene	ND	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Benzo(k)fluoranthene	ND	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Chrysene	0.153	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Dibenz(a,h)anthracene	ND	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Fluoranthene	0.818	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Fluorene	1.52	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Naphthalene	0.123	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Phenanthrene	5.46	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Pyrene	0.900	0.0511		µg/L	1	3/23/2012 12:14:00 PM
Surr: 2-Fluorobiphenyl	79.5	18.6-106		%REC	1	3/23/2012 12:14:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-06

Client Sample ID: GP10-W-38
Collection Date: 3/21/2012 6:35:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
Surr: Nitrobenzene-d5	95.0	17-130		%REC	1	3/23/2012 12:14:00 PM
Surr: p-Terphenyl-d14	93.7	39.6-131		%REC	1	3/23/2012 12:14:00 PM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rk
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
2-Butanone	ND	10.0		µg/L	1	3/22/2012 5:24:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/22/2012 5:24:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/22/2012 5:24:00 PM
Acetone	ND	50.0		µg/L	1	3/22/2012 5:24:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/22/2012 5:24:00 PM
Benzene	ND	0.300		µg/L	1	3/22/2012 5:24:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Bromoform	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Bromomethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/22/2012 5:24:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-06

Client Sample ID: GP10-W-38
Collection Date: 3/21/2012 6:35:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Chlorobenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Chloroethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Chloroform	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Chloromethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/22/2012 5:24:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/22/2012 5:24:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Naphthalene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
o-Xylene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Styrene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Toluene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/22/2012 5:24:00 PM
Surr: 1,2-Dichloroethane-d4	95.5	72.2-129		%REC	1	3/22/2012 5:24:00 PM
Surr: 4-Bromofluorobenzene	91.6	73.5-125		%REC	1	3/22/2012 5:24:00 PM
Surr: Dibromofluoromethane	94.9	58.8-148		%REC	1	3/22/2012 5:24:00 PM
Surr: Toluene-d8	96.2	79.8-137		%REC	1	3/22/2012 5:24:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-07

Client Sample ID: GP9-S-0.5
Collection Date: 3/21/2012 11:20:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	27.9		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	27.9		mg/Kg-dry	1	3/22/2012
Kerosene	ND	69.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	69.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	140		mg/Kg-dry	1	3/22/2012
Surr: BFB	92.1	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	101	50-150		%REC	1	3/22/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	20000	E6010 6.47		mg/Kg-dry	1	3/22/2012 4:41:51 PM
Cadmium	ND	0.129		mg/Kg-dry	1	3/22/2012 4:41:51 PM
Chromium	16.4	0.647		mg/Kg-dry	1	3/22/2012 4:41:51 PM
Copper	26.4	1.29		mg/Kg-dry	1	3/22/2012 4:41:51 PM
Lead	ND	2.59		mg/Kg-dry	1	3/22/2012 4:41:51 PM
Nickel	10.3	0.647		mg/Kg-dry	1	3/22/2012 4:41:51 PM
Zinc	58.4	1.29		mg/Kg-dry	1	3/22/2012 4:41:51 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	1480	SW6020 1290		µg/Kg-dry	10	3/26/2012 1:29:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	ND	SW7471 0.0233		mg/Kg-dry	1	3/23/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-08

Client Sample ID: GP9-S-3
Collection Date: 3/21/2012 11:25:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	28.3		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	28.3		mg/Kg-dry	1	3/22/2012
Kerosene	ND	70.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	70.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	142		mg/Kg-dry	1	3/22/2012
Surr: BFB	92.4	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	99.3	50-150		%REC	1	3/22/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	24400	E6010 6.81		mg/Kg-dry	1	3/22/2012 4:46:21 PM
Cadmium	ND	0.136		mg/Kg-dry	1	3/22/2012 4:46:21 PM
Chromium	18.9	0.681		mg/Kg-dry	1	3/22/2012 4:46:21 PM
Copper	47.0	1.36		mg/Kg-dry	1	3/22/2012 4:46:21 PM
Lead	ND	2.72		mg/Kg-dry	1	3/22/2012 4:46:21 PM
Nickel	13.1	0.681		mg/Kg-dry	1	3/22/2012 4:46:21 PM
Zinc	55.0	1.36		mg/Kg-dry	1	3/22/2012 4:46:21 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	1710	SW6020 1360		µg/Kg-dry	10	3/26/2012 1:36:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.0594	SW7471 0.0237		mg/Kg-dry	1	3/23/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-09

Client Sample ID: GP9-S-7.5
Collection Date: 3/21/2012 11:30:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
						Analyst: kh
Gasoline	ND	28.1		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	28.1		mg/Kg-dry	1	3/22/2012
Kerosene	ND	70.1		mg/Kg-dry	1	3/22/2012
Diesel	ND	70.1		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	140		mg/Kg-dry	1	3/22/2012
Surr: BFB	93.2	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	104	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-10

Client Sample ID: GP9-S-12.5
Collection Date: 3/21/2012 11:35:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	28.3		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	28.3		mg/Kg-dry	1	3/22/2012
Kerosene	ND	70.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	70.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	142		mg/Kg-dry	1	3/22/2012
Surr: BFB	95.8	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	106	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-11

Client Sample ID: GP9-S-17.5
Collection Date: 3/21/2012 11:40:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	25.6		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	25.6		mg/Kg-dry	1	3/22/2012
Kerosene	ND	63.9		mg/Kg-dry	1	3/22/2012
Diesel	ND	63.9		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	128		mg/Kg-dry	1	3/22/2012
Surr: BFB	98.9	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	106	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-12

Client Sample ID: GP9-S-22.5
Collection Date: 3/21/2012 1:56:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
						Analyst: kh
Gasoline	ND	25.7		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	25.7		mg/Kg-dry	1	3/22/2012
Kerosene	ND	64.3		mg/Kg-dry	1	3/22/2012
Diesel	ND	64.3		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	129		mg/Kg-dry	1	3/22/2012
Surr: BFB	104	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	107	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-13

Client Sample ID: GP9-S-27.5
Collection Date: 3/21/2012 2:05:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	24.9		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	24.9		mg/Kg-dry	1	3/22/2012
Kerosene	ND	62.3		mg/Kg-dry	1	3/22/2012
Diesel	ND	62.3		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	125		mg/Kg-dry	1	3/22/2012
Surr: BFB	104	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	106	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-14

Client Sample ID: GP9-S-32.5
Collection Date: 3/21/2012 2:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	26.3		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	26.3		mg/Kg-dry	1	3/22/2012
Kerosene	ND	65.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	65.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	132		mg/Kg-dry	1	3/22/2012
Surr: BFB	100	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	109	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-15

Client Sample ID: GP9-S-37.5
Collection Date: 3/21/2012 2:40:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	25.0		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	25.0		mg/Kg-dry	1	3/22/2012
Kerosene	ND	62.4		mg/Kg-dry	1	3/22/2012
Diesel	ND	62.4		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	125		mg/Kg-dry	1	3/22/2012
Surr: BFB	107	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	115	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-16

Client Sample ID: GP10-S-0.5
Collection Date: 3/21/2012 3:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	27.5		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	27.5		mg/Kg-dry	1	3/22/2012
Kerosene	ND	68.7		mg/Kg-dry	1	3/22/2012
Diesel	ND	68.7		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	137		mg/Kg-dry	1	3/22/2012
Surr: BFB	89.0	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	94.5	50-150		%REC	1	3/22/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	16600	6.36		mg/Kg-dry	1	3/23/2012 10:10:22 AM
Cadmium	ND	0.127		mg/Kg-dry	1	3/23/2012 10:10:22 AM
Chromium	17.3	0.636		mg/Kg-dry	1	3/23/2012 10:10:22 AM
Copper	40.2	1.27		mg/Kg-dry	1	3/23/2012 10:10:22 AM
Lead	7.15	2.54		mg/Kg-dry	1	3/23/2012 10:10:22 AM
Nickel	18.0	0.636		mg/Kg-dry	1	3/23/2012 10:10:22 AM
Zinc	384	1.27		mg/Kg-dry	1	3/23/2012 10:10:22 AM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	ND	6360	Q	µg/Kg-dry	50	3/23/2012 9:36:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.153	0.0234		mg/Kg-dry	1	3/23/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-17

Client Sample ID: GP10-S-3
Collection Date: 3/21/2012 3:56:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	28.3		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	28.3		mg/Kg-dry	1	3/22/2012
Kerosene	ND	70.7		mg/Kg-dry	1	3/22/2012
Diesel	ND	70.7		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	141		mg/Kg-dry	1	3/22/2012
Surr: BFB	93.4	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	96.2	50-150		%REC	1	3/22/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	12700	7.07		mg/Kg-dry	1	3/23/2012 10:37:48 AM
Cadmium	ND	0.141		mg/Kg-dry	1	3/23/2012 10:37:48 AM
Chromium	17.7	0.707		mg/Kg-dry	1	3/23/2012 10:37:48 AM
Copper	52.8	1.41		mg/Kg-dry	1	3/23/2012 10:37:48 AM
Lead	ND	2.83		mg/Kg-dry	1	3/23/2012 10:37:48 AM
Nickel	11.8	0.707		mg/Kg-dry	1	3/23/2012 10:37:48 AM
Zinc	71.8	1.41		mg/Kg-dry	1	3/23/2012 10:37:48 AM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	3680	2830		µg/Kg-dry	20	3/24/2012 6:57:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.0304	0.0229		mg/Kg-dry	1	3/23/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-18

Client Sample ID: GP10-S-5.2
Collection Date: 3/21/2012 4:10:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
						Analyst: kh
Gasoline	ND	27.9		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	27.9		mg/Kg-dry	1	3/22/2012
Kerosene	ND	69.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	69.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	140		mg/Kg-dry	1	3/22/2012
Surr: BFB	91.6	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	99.8	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-19

Client Sample ID: GP10-S-12.5
Collection Date: 3/21/2012 4:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
						Analyst: kh
Gasoline	ND	28.7		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	28.7		mg/Kg-dry	1	3/22/2012
Kerosene	ND	71.6		mg/Kg-dry	1	3/22/2012
Diesel	ND	71.6		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	143		mg/Kg-dry	1	3/22/2012
Surr: BFB	94.6	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	98.6	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-20

Client Sample ID: GP10-S-17.5
Collection Date: 3/21/2012 4:25:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	28.4		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	28.4		mg/Kg-dry	1	3/22/2012
Kerosene	ND	71.1		mg/Kg-dry	1	3/22/2012
Diesel	ND	71.1		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	142		mg/Kg-dry	1	3/22/2012
Surr: BFB	76.5	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	81.5	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-21

Client Sample ID: GP10-S-22.5
Collection Date: 3/21/2012 4:40:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	25.7		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	25.7		mg/Kg-dry	1	3/22/2012
Kerosene	ND	64.4		mg/Kg-dry	1	3/22/2012
Diesel	ND	64.4		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	129		mg/Kg-dry	1	3/22/2012
Surr: BFB	99.4	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	104	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-22

Client Sample ID: GP10-S-27.5
Collection Date: 3/21/2012 4:50:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						
						Analyst: kh
Gasoline	ND	27.5		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	27.5		mg/Kg-dry	1	3/22/2012
Kerosene	ND	68.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	68.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	138		mg/Kg-dry	1	3/22/2012
Surr: BFB	106	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	113	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-23

Client Sample ID: GP10-S-32.5
Collection Date: 3/21/2012 4:55:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	24.3		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	24.3		mg/Kg-dry	1	3/22/2012
Kerosene	ND	60.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	60.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	122		mg/Kg-dry	1	3/22/2012
Surr: BFB	105	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	114	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-24

Client Sample ID: GP10-S-37.5
Collection Date: 3/21/2012 5:00:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	27.1		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	27.1		mg/Kg-dry	1	3/22/2012
Kerosene	ND	67.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	67.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	136		mg/Kg-dry	1	3/22/2012
Surr: BFB	99.3	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	106	50-150		%REC	1	3/22/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-25

Client Sample ID: GP11-S-0.5
Collection Date: 3/21/2012 7:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: kh		
Gasoline	ND	21.8		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	21.8		mg/Kg-dry	1	3/22/2012
Kerosene	ND	54.5		mg/Kg-dry	1	3/22/2012
Diesel	Diesel	54.5		mg/Kg-dry	1	3/22/2012
Lube Oil	Lube Oil	109		mg/Kg-dry	1	3/22/2012
Surr: BFB	106	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	120	50-150		%REC	1	3/22/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	192	16.3		mg/Kg-dry	1	3/29/2012
Hydraulic Oil	606	54.5		mg/Kg-dry	1	3/29/2012
Lube Oil	ND	54.5	A3	mg/Kg-dry	1	3/29/2012
Surr: o-Terphenyl	117	50-150		%REC	1	3/29/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	16400	4.70		mg/Kg-dry	1	3/23/2012 11:13:36 AM
Cadmium	0.592	0.0939		mg/Kg-dry	1	3/23/2012 11:13:36 AM
Chromium	10.9	0.470		mg/Kg-dry	1	3/23/2012 11:13:36 AM
Copper	47.9	0.939		mg/Kg-dry	1	3/23/2012 11:13:36 AM
Lead	51.4	1.88		mg/Kg-dry	1	3/23/2012 11:13:36 AM
Nickel	51.7	0.470		mg/Kg-dry	1	3/23/2012 11:13:36 AM
Zinc	166	0.939		mg/Kg-dry	1	3/23/2012 11:13:36 AM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	9260	4700		µg/Kg-dry	50	3/23/2012 10:56:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	ND	0.0182		mg/Kg-dry	1	3/23/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
1,2-Dichlorobenzene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
1,3-Dichlorobenzene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
1,4-Dichlorobenzene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
1-Methylnaphthalene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
2,4-Dinitrotoluene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
2,6-Dinitrotoluene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
2-Chloronaphthalene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
2-Methylnaphthalene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
2-Nitroaniline	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
3-Nitroaniline	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
4-Bromophenyl phenyl ether	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
4-Chloroaniline	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203193
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203193-25

Client Sample ID: GP11-S-0.5
 Collection Date: 3/21/2012 7:20:00 PM
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Chlorophenyl phenyl ether	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
4-Nitroaniline	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Acenaphthene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Acenaphthylene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Anthracene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Benz(a)anthracene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Benzo(a)pyrene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Benzo(b)fluoranthene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Benzo(g,h,i)perylene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Benzo(k)fluoranthene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Benzoic acid	ND	727		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Benzyl alcohol	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Bis(2-chloroethoxy)methane	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Bis(2-chloroethyl)ether	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Bis(2-chloroisopropyl)ether	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Bis(2-ethylhexyl)phthalate	1100	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Butyl benzyl phthalate	468	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Chrysene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Di-n-butyl phthalate	71.5	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Di-n-octyl phthalate	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Dibenz(a,h)anthracene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Dibenzofuran	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Diethyl phthalate	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Dimethyl phthalate	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Fluoranthene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Fluorene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Hexachlorobenzene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Hexachlorobutadiene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Hexachlorocyclopentadiene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Hexachloroethane	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Indeno(1,2,3-cd)pyrene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Isophorone	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
N-Nitrosodi-n-propylamine	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
N-nitrosodimethylamine	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
N-Nitrosodiphenylamine	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Naphthalene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Nitrobenzene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Phenanthrene	ND	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Pyrene	48.7	36.3		µg/Kg-dry	1	3/28/2012 11:56:00 AM
Surr: 2-Fluorobiphenyl	168	52.6-93.2	S	%REC	1	3/28/2012 11:56:00 AM
Surr: 4-Terphenyl-d14	88.1	49.8-118		%REC	1	3/28/2012 11:56:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-25

Client Sample ID: GP11-S-0.5
Collection Date: 3/21/2012 7:20:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL						Analyst: bda
Surr: Nitrobenzene-d5	94.1	44.8-103		%REC	1	3/28/2012 11:56:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-26

Client Sample ID: GP11-S-3
Collection Date: 3/21/2012 7:14:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: kh		
Gasoline	ND	27.5		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	27.5		mg/Kg-dry	1	3/22/2012
Kerosene	ND	68.8		mg/Kg-dry	1	3/22/2012
Diesel	ND	68.8		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	138		mg/Kg-dry	1	3/22/2012
Surr: BFB	97.0	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	104	50-150		%REC	1	3/22/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	ND	20.6		mg/Kg-dry	1	3/29/2012
Lube Oil	ND	68.8		mg/Kg-dry	1	3/29/2012
Surr: o-Terphenyl	99.4	50-150		%REC	1	3/29/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	21400	6.61		mg/Kg-dry	1	3/23/2012 2:59:18 PM
Cadmium	ND	0.132		mg/Kg-dry	1	3/23/2012 2:59:18 PM
Chromium	16.8	0.661		mg/Kg-dry	1	3/23/2012 2:59:18 PM
Copper	35.3	1.32		mg/Kg-dry	1	3/23/2012 2:59:18 PM
Lead	39.3	2.65		mg/Kg-dry	1	3/23/2012 2:59:18 PM
Nickel	12.4	0.661		mg/Kg-dry	1	3/23/2012 2:59:18 PM
Zinc	129	1.32		mg/Kg-dry	1	3/23/2012 2:59:18 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	2290	1320		µg/Kg-dry	10	3/26/2012 12:35:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0627	0.0230		mg/Kg-dry	1	3/23/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
1,2-Dichlorobenzene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
1,3-Dichlorobenzene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
1,4-Dichlorobenzene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
1-Methylnaphthalene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
2,4-Dinitrotoluene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
2,6-Dinitrotoluene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
2-Chloronaphthalene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
2-Methylnaphthalene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
2-Nitroaniline	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
3-Nitroaniline	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
4-Bromophenyl phenyl ether	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
4-Chloroaniline	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
4-Chlorophenyl phenyl ether	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-26

Client Sample ID: GP11-S-3
Collection Date: 3/21/2012 7:14:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Nitroaniline	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Acenaphthene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Acenaphthylene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Anthracene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Benz(a)anthracene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Benzo(a)pyrene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Benzo(b)fluoranthene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Benzo(g,h,i)perylene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Benzo(k)fluoranthene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Benzoic acid	ND	917		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Benzyl alcohol	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Bis(2-chloroethoxy)methane	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Bis(2-chloroethyl)ether	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Bis(2-chloroisopropyl)ether	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Bis(2-ethylhexyl)phthalate	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Butyl benzyl phthalate	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Chrysene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Di-n-butyl phthalate	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Di-n-octyl phthalate	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Dibenz(a,h)anthracene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Dibenzofuran	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Diethyl phthalate	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Dimethyl phthalate	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Fluoranthene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Fluorene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Hexachlorobenzene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Hexachlorobutadiene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Hexachlorocyclopentadiene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Hexachloroethane	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Indeno(1,2,3-cd)pyrene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Isophorone	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
N-Nitrosodi-n-propylamine	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
N-nitrosodimethylamine	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
N-Nitrosodiphenylamine	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Naphthalene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Nitrobenzene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Phenanthrene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Pyrene	ND	45.8		µg/Kg-dry	1	3/28/2012 11:30:00 AM
Surr: 2-Fluorobiphenyl	182	52.6-93.2	S	%REC	1	3/28/2012 11:30:00 AM
Surr: 4-Terphenyl-d14	105	49.8-118		%REC	1	3/28/2012 11:30:00 AM
Surr: Nitrobenzene-d5	109	44.8-103	S	%REC	1	3/28/2012 11:30:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203193
Project: Kelso IPG / 0443.02.02
Lab ID: 1203193-27

Client Sample ID: GP11-S-7.5
Collection Date: 3/21/2012 7:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: kh		
Gasoline	ND	28.5		mg/Kg-dry	1	3/22/2012
Mineral Spirits	ND	28.5		mg/Kg-dry	1	3/22/2012
Kerosene	ND	71.3		mg/Kg-dry	1	3/22/2012
Diesel	ND	71.3		mg/Kg-dry	1	3/22/2012
Lube Oil	ND	143		mg/Kg-dry	1	3/22/2012
Surr: BFB	87.9	50-150		%REC	1	3/22/2012
Surr: o-Terphenyl	97.7	50-150		%REC	1	3/22/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	24700	6.37		mg/Kg-dry	1	3/22/2012 4:24:04 PM
Cadmium	ND	0.127		mg/Kg-dry	1	3/22/2012 4:24:04 PM
Chromium	21.2	0.637		mg/Kg-dry	1	3/22/2012 4:24:04 PM
Copper	46.4	1.27		mg/Kg-dry	1	3/22/2012 4:24:04 PM
Lead	ND	2.55		mg/Kg-dry	1	3/22/2012 4:24:04 PM
Nickel	15.0	0.637		mg/Kg-dry	1	3/22/2012 4:24:04 PM
Zinc	59.7	1.27		mg/Kg-dry	1	3/22/2012 4:24:04 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	6960	6370		µg/Kg-dry	50	3/23/2012 7:48:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0674	0.0238		mg/Kg-dry	1	3/23/2012

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MBLK-31089	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/22/2012	Run ID: TJA IRIS_120322A						
Client ID: ZZZZZ	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824316						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Lead	ND	2.00									
Nickel	ND	0.500									
Zinc	ND	1.00									

Sample ID: MBLK-31104	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: TJA IRIS_120323B						
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Lead	ND	2.00									
Nickel	ND	0.500									
Zinc	ND	1.00									

Sample ID: LCS-31089	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/22/2012	Run ID: TJA IRIS_120322A						
Client ID: ZZZZZ	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824317						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	239.5	5.00	250	0	95.8	80	120	0	0		
Cadmium	4.66	0.100	5	0	93.2	87.2	109	0	0		
Chromium	25.11	0.500	25	0	100	84	113	0	0		
Copper	47.49	1.00	50	0	95	91.3	111	0	0		
Lead	96.92	2.00	100	0	96.9	84.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-31089	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/22/2012	Run ID: TJA IRIS_120322A						
Client ID: ZZZZZ	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824317						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	24.48	0.500	25	0	97.9	85.5	112	0	0		
Zinc	48.68	1.00	50	0	97.4	86.8	112	0	0		

Sample ID: LCS-31104	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: TJA IRIS_120323B						
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	256.7	5.00	250	0	103	80	120	0	0		
Cadmium	4.99	0.100	5	0	99.8	87.2	109	0	0		
Chromium	26.28	0.500	25	0	105	84	113	0	0		
Copper	49.24	1.00	50	0	98.5	91.3	111	0	0		
Lead	103.3	2.00	100	0	103	84.9	109	0	0		
Nickel	25.61	0.500	25	0	102	85.5	112	0	0		
Zinc	51.13	1.00	50	0	102	86.8	112	0	0		

Sample ID: 1203193-27CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: TJA IRIS_120322A						
Client ID: GP11-S-7.5	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	32490	5.94	297.2	24670	2630	75	125	0	0		S,MC
Cadmium	5.801	0.119	5.944	0	97.6	86.4	113	0	0		
Chromium	53.86	0.594	29.72	21.25	110	75	121	0	0		
Copper	105.3	1.19	59.44	46.36	99.2	75.1	126	0	0		
Lead	118.4	2.38	118.9	0	99.6	84.9	109	0	0		
Nickel	46.28	0.594	29.72	14.95	105	89.3	105	0	0		S
Zinc	125.7	1.19	59.44	59.72	111	86.2	113	0	0		

Sample ID: 1203210-01AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: TJA IRIS_120323B						
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824822						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1203210-01AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: TJA IRIS_120323B						
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824822						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	916.4	5.01	250.5	547.5	147	75	125	0	0		S,MI
Cadmium	5.731	0.100	5.01	2.635	61.8	86.4	113	0	0		S,RP
Chromium	46.83	0.501	25.05	36.27	42.2	75	121	0	0		S,RP
Copper	79.49	1.00	50.1	40.2	78.4	75.1	126	0	0		
Lead	451.5	2.00	100.2	322.8	128	84.9	109	0	0		S,MI
Nickel	63.05	0.501	25.05	22.79	161	89.3	105	0	0		S,RP
Zinc	184.2	1.00	50.1	306.2	-244	86.2	113	0	0		S,MI

Sample ID: 1203193-27CMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: TJA IRIS_120322A						
Client ID: GP11-S-7.5	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824321						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	33270	5.94	297.2	24670	2890	75	125	32490	2.39	20	S,MC
Cadmium	5.837	0.119	5.944	0	98.2	86.4	113	5.801	0.613	20	
Chromium	55.43	0.594	29.72	21.25	115	75	121	53.86	2.87	20	
Copper	107.3	1.19	59.44	46.36	103	75.1	126	105.3	1.87	20	
Lead	119	2.38	118.9	0	100	84.9	109	118.4	0.511	20	
Nickel	45.98	0.594	29.72	14.95	104	89.3	105	46.28	0.644	20	
Zinc	126.4	1.19	59.44	59.72	112	86.2	113	125.7	0.566	20	

Sample ID: 1203210-01AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: TJA IRIS_120323B						
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	902.5	5.01	250.5	547.5	142	75	125	916.4	1.52	20	S,MI
Cadmium	5.671	0.100	5.01	2.635	60.6	86.4	113	5.731	1.05	20	S,RP
Chromium	45.95	0.501	25.05	36.27	38.6	75	121	46.83	1.90	20	S,RP
Copper	79.13	1.00	50.1	40.2	77.7	75.1	126	79.49	0.455	20	
Lead	444.5	2.00	100.2	322.8	122	84.9	109	451.5	1.54	20	S,MI
Nickel	61.89	0.501	25.05	22.79	156	89.3	105	63.05	1.86	20	S,RP
Zinc	182.5	1.00	50.1	306.2	-247	86.2	113	184.2	0.874	20	S,MI

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1203193-27CDUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: TJA IRIS_120322A						
Client ID: GP11-S-7.5	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824319						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	25140	6.37	0	0	0	0	0	24670	1.89	20
Cadmium	ND	0.127	0	0	0	0	0	0	0	20
Chromium	21.78	0.637	0	0	0	0	0	21.25	2.49	20
Copper	48.27	1.27	0	0	0	0	0	46.36	4.04	20
Lead	ND	2.55	0	0	0	0	0	0	0	20
Nickel	15.35	0.637	0	0	0	0	0	14.95	2.61	20
Zinc	61.25	1.27	0	0	0	0	0	59.72	2.53	20

Sample ID: 1203210-01ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: TJA IRIS_120323B						
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824820						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	545.3	5.01	0	0	0	0	0	547.5	0.403	20
Cadmium	2.645	0.100	0	0	0	0	0	2.635	0.380	20
Chromium	35.97	0.501	0	0	0	0	0	36.27	0.832	20
Copper	40.42	1.00	0	0	0	0	0	40.2	0.547	20
Lead	321.1	2.00	0	0	0	0	0	322.8	0.529	20
Nickel	22.8	0.501	0	0	0	0	0	22.79	0.0439	20
Zinc	306.5	1.00	0	0	0	0	0	306.2	0.0981	20

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120322A						
Client ID: ZZZZZ	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824315						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	251.7	5.00	250	0	101	90	110	0	0
Cadmium	5.16	0.100	5	0	103	90	110	0	0
Chromium	26.39	0.500	25	0	106	90	110	0	0
Copper	50.49	1.00	50	0	101	90	110	0	0
Lead	104.7	2.00	100	0	105	90	110	0	0
Nickel	26.44	0.500	25	0	106	90	110	0	0
Zinc	53.56	1.00	50	0	107	90	110	0	0

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CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120322A						
Client ID: ZZZZZ	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824324						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	260.9	5.00	250	0	104	90	110	0	0		
Cadmium	5.14	0.100	5	0	103	90	110	0	0		
Chromium	27.18	0.500	25	0	109	90	110	0	0		
Copper	50.7	1.00	50	0	101	90	110	0	0		
Lead	105.2	2.00	100	0	105	90	110	0	0		
Nickel	26.25	0.500	25	0	105	90	110	0	0		
Zinc	53.59	1.00	50	0	107	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120322A						
Client ID: ZZZZZ	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	258.7	5.00	250	0	103	90	110	0	0		
Cadmium	5.14	0.100	5	0	103	90	110	0	0		
Chromium	27.1	0.500	25	0	108	90	110	0	0		
Copper	50.84	1.00	50	0	102	90	110	0	0		
Lead	106.2	2.00	100	0	106	90	110	0	0		
Nickel	26.84	0.500	25	0	107	90	110	0	0		
Zinc	53	1.00	50	0	106	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120322A						
Client ID: ZZZZZ	Batch ID: 31089	TestNo: E6010		Analysis Date: 3/23/2012	SeqNo: 824594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	251.9	5.00	250	0	101	90	110	0	0		
Cadmium	5.01	0.100	5	0	100	90	110	0	0		
Chromium	26.29	0.500	25	0	105	90	110	0	0		
Copper	49.23	1.00	50	0	98.5	90	110	0	0		
Lead	103	2.00	100	0	103	90	110	0	0		
Nickel	25.88	0.500	25	0	104	90	110	0	0		
Zinc	51.4	1.00	50	0	103	90	110	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120323B					
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010			Analysis Date: 3/23/2012	SeqNo: 824804					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	252.5	5.00	250	0	101	90	110	0	0		
Cadmium	4.98	0.100	5	0	99.6	90	110	0	0		
Chromium	26.65	0.500	25	0	107	90	110	0	0		
Copper	49.24	1.00	50	0	98.5	90	110	0	0		
Lead	103.5	2.00	100	0	104	90	110	0	0		
Nickel	25.56	0.500	25	0	102	90	110	0	0		
Zinc	51.37	1.00	50	0	103	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120323B					
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010			Analysis Date: 3/23/2012	SeqNo: 824813					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	255.3	5.00	250	0	102	90	110	0	0		
Cadmium	5.03	0.100	5	0	101	90	110	0	0		
Chromium	26.87	0.500	25	0	107	90	110	0	0		
Copper	48.66	1.00	50	0	97.3	90	110	0	0		
Lead	105.2	2.00	100	0	105	90	110	0	0		
Nickel	25.89	0.500	25	0	104	90	110	0	0		
Zinc	51.54	1.00	50	0	103	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120323B					
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010			Analysis Date: 3/23/2012	SeqNo: 824816					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	242.7	5.00	250	0	97.1	90	110	0	0		
Cadmium	4.75	0.100	5	0	95	90	110	0	0		
Chromium	25.67	0.500	25	0	103	90	110	0	0		
Copper	46.63	1.00	50	0	93.3	90	110	0	0		
Lead	98.58	2.00	100	0	98.6	90	110	0	0		
Nickel	24.11	0.500	25	0	96.4	90	110	0	0		
Zinc	49.03	1.00	50	0	98.1	90	110	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120323B					
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010			Analysis Date: 3/23/2012	SeqNo: 824817					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	252	5.00	250	0	101	90	110	0	0		
Cadmium	4.99	0.100	5	0	99.8	90	110	0	0		
Chromium	26.45	0.500	25	0	106	90	110	0	0		
Copper	48.03	1.00	50	0	96.1	90	110	0	0		
Lead	104.3	2.00	100	0	104	90	110	0	0		
Nickel	25.52	0.500	25	0	102	90	110	0	0		
Zinc	51.09	1.00	50	0	102	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120323B					
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010			Analysis Date: 3/23/2012	SeqNo: 824821					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	244.1	5.00	250	0	97.6	90	110	0	0		
Cadmium	4.92	0.100	5	0	98.4	90	110	0	0		
Chromium	25.5	0.500	25	0	102	90	110	0	0		
Copper	47.27	1.00	50	0	94.5	90	110	0	0		
Lead	100.7	2.00	100	0	101	90	110	0	0		
Nickel	24.7	0.500	25	0	98.8	90	110	0	0		
Zinc	49.53	1.00	50	0	99.1	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120323B					
Client ID: ZZZZZ	Batch ID: 31104	TestNo: E6010			Analysis Date: 3/23/2012	SeqNo: 824826					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	246.4	5.00	250	0	98.6	90	110	0	0		
Cadmium	4.87	0.100	5	0	97.4	90	110	0	0		
Chromium	25.69	0.500	25	0	103	90	110	0	0		
Copper	47.65	1.00	50	0	95.3	90	110	0	0		
Lead	98.84	2.00	100	0	98.8	90	110	0	0		
Nickel	24.54	0.500	25	0	98.2	90	110	0	0		
Zinc	49.2	1.00	50	0	98.4	90	110	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120322A		
Client ID: ZZZZZ		Batch ID: 31089		TestNo: E6010				Analysis Date: 3/22/2012		SeqNo: 824314		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	247.5	5.00	250	0	99	90	110	0	0			
Cadmium	5.08	0.100	5	0	102	90	110	0	0			
Chromium	25.73	0.500	25	0	103	90	110	0	0			
Copper	49.76	1.00	50	0	99.5	90	110	0	0			
Lead	101.7	2.00	100	0	102	90	110	0	0			
Nickel	25.87	0.500	25	0	103	90	110	0	0			
Zinc	51.15	1.00	50	0	102	90	110	0	0			

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120322A		
Client ID: ZZZZZ		Batch ID: 31089		TestNo: E6010				Analysis Date: 3/23/2012		SeqNo: 824574		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	255.4	5.00	250	0	102	90	110	0	0			
Cadmium	5.18	0.100	5	0	104	90	110	0	0			
Chromium	26.43	0.500	25	0	106	90	110	0	0			
Copper	50.22	1.00	50	0	100	90	110	0	0			
Lead	103.7	2.00	100	0	104	90	110	0	0			
Nickel	26.19	0.500	25	0	105	90	110	0	0			
Zinc	51.75	1.00	50	0	104	90	110	0	0			

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120323B		
Client ID: ZZZZZ		Batch ID: 31104		TestNo: E6010				Analysis Date: 3/23/2012		SeqNo: 824803		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	255.4	5.00	250	0	102	90	110	0	0			
Cadmium	5.18	0.100	5	0	104	90	110	0	0			
Chromium	26.43	0.500	25	0	106	90	110	0	0			
Copper	50.22	1.00	50	0	100	90	110	0	0			
Lead	103.7	2.00	100	0	104	90	110	0	0			
Nickel	26.19	0.500	25	0	105	90	110	0	0			
Zinc	51.75	1.00	50	0	104	90	110	0	0			

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CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDIS

Sample ID: 1203185-02CMS		SampType: MS		TestCode: 6010_WDIS		Units: mg/L		Prep Date: 3/23/2012		Run ID: TJA IRIS_120323A		
Client ID: ZZZZZ		Batch ID: 31106		TestNo: 6010A				Analysis Date: 3/23/2012		SeqNo: 824601		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	3.669	0.0500	2.5	0	147	83.8	125	0	0		S	
Cadmium	0.0496	0.00100	0.05	0	99.2	93.4	110	0	0			
Copper	0.5018	0.0100	0.5	0	100	92.7	114	0	0			
Lead	1.492	0.0200	1	0	149	91.9	112	0	0		S,MI	
Nickel	0.2529	0.00500	0.25	0.0052	99.1	88.5	112	0	0			
Zinc	0.5171	0.0100	0.5	0	103	93	110	0	0			

Sample ID: 1203185-02CMSD		SampType: MSD		TestCode: 6010_WDIS		Units: mg/L		Prep Date: 3/23/2012		Run ID: TJA IRIS_120323A		
Client ID: ZZZZZ		Batch ID: 31106		TestNo: 6010A				Analysis Date: 3/23/2012		SeqNo: 824602		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	3.662	0.0500	2.5	0	146	83.8	125	3.669	0.191	20	S	
Cadmium	0.0503	0.00100	0.05	0	101	93.4	110	0.0496	1.40	20		
Copper	0.5113	0.0100	0.5	0	102	92.7	114	0.5018	1.88	20		
Lead	1.475	0.0200	1	0	148	91.9	112	1.492	1.15	20	S,MI	
Nickel	0.2562	0.00500	0.25	0.0052	100	88.5	112	0.2529	1.30	20		
Zinc	0.5276	0.0100	0.5	0	106	93	110	0.5171	2.01	20		

Sample ID: 1203185-02CDUP		SampType: DUP		TestCode: 6010_WDIS		Units: mg/L		Prep Date: 3/23/2012		Run ID: TJA IRIS_120323A		
Client ID: ZZZZZ		Batch ID: 31106		TestNo: 6010A				Analysis Date: 3/23/2012		SeqNo: 824600		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	ND	0.0500	0	0	0	0	0	0	0	20		
Cadmium	ND	0.00100	0	0	0	0	0	0	0	20		
Copper	ND	0.0100	0	0	0	0	0	0	0	20		
Lead	ND	0.0200	0	0	0	0	0	0	0	20		
Nickel	0.0062	0.00500	0	0	0	0	0	0.0052	17.5	20		
Zinc	ND	0.0100	0	0	0	0	0	0	0	20		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDIS

Sample ID: CCV		SampType: CCV		TestCode: 6010_WDIS		Units: mg/L		Prep Date:		Run ID: TJA IRIS_120323A		
Client ID: ZZZZZ		Batch ID: 31106		TestNo: 6010A				Analysis Date: 3/23/2012		SeqNo: 824597		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	2.519	0.0500	2.5	0	101	90	110	0	0			
Cadmium	0.0501	0.00100	0.05	0	100	90	110	0	0			
Copper	0.4923	0.0100	0.5	0	98.5	90	110	0	0			
Lead	1.03	0.0200	1	0	103	90	110	0	0			
Nickel	0.2588	0.00500	0.25	0	104	90	110	0	0			
Zinc	0.514	0.0100	0.5	0	103	90	110	0	0			

Sample ID: CCV		SampType: CCV		TestCode: 6010_WDIS		Units: mg/L		Prep Date:		Run ID: TJA IRIS_120323A		
Client ID: ZZZZZ		Batch ID: 31106		TestNo: 6010A				Analysis Date: 3/23/2012		SeqNo: 824606		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	2.526	0.0500	2.5	0	101	90	110	0	0			
Cadmium	0.0493	0.00100	0.05	0	98.6	90	110	0	0			
Copper	0.489	0.0100	0.5	0	97.8	90	110	0	0			
Lead	1.028	0.0200	1	0	103	90	110	0	0			
Nickel	0.2549	0.00500	0.25	0	102	90	110	0	0			
Zinc	0.5107	0.0100	0.5	0	102	90	110	0	0			

Sample ID: CCV		SampType: CCV		TestCode: 6010_WDIS		Units: mg/L		Prep Date:		Run ID: TJA IRIS_120323A		
Client ID: ZZZZZ		Batch ID: 31106		TestNo: 6010A				Analysis Date: 3/23/2012		SeqNo: 824616		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	2.525	0.0500	2.5	0	101	90	110	0	0			
Cadmium	0.0498	0.00100	0.05	0	99.6	90	110	0	0			
Copper	0.4924	0.0100	0.5	0	98.5	90	110	0	0			
Lead	1.035	0.0200	1	0	104	90	110	0	0			
Nickel	0.2556	0.00500	0.25	0	102	90	110	0	0			
Zinc	0.5137	0.0100	0.5	0	103	90	110	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDIS

Sample ID: ICB-31106	SampType: ICB	TestCode: 6010_WDIS	Units: mg/L	Prep Date: 3/23/2012	Run ID: TJA IRIS_120323A						
Client ID: ZZZZZ	Batch ID: 31106	TestNo: 6010A		Analysis Date: 3/23/2012	SeqNo: 824598						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0500	0	0	0	0	0	0	0	0	
Cadmium	ND	0.00100	0	0	0	0	0	0	0	0	
Copper	ND	0.0100	0	0	0	0	0	0	0	0	
Lead	ND	0.0200	0	0	0	0	0	0	0	0	
Nickel	ND	0.00500	0	0	0	0	0	0	0	0	
Zinc	ND	0.0100	0	0	0	0	0	0	0	0	

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDIS	Units: mg/L	Prep Date:	Run ID: TJA IRIS_120323A						
Client ID: ZZZZZ	Batch ID: 31106	TestNo: 6010A		Analysis Date: 3/23/2012	SeqNo: 824596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2.554	0.0500	2.5	0	102	90	110	0	0		
Cadmium	0.0518	0.00100	0.05	0	104	90	110	0	0		
Copper	0.5022	0.0100	0.5	0	100	90	110	0	0		
Lead	1.037	0.0200	1	0	104	90	110	0	0		
Nickel	0.2619	0.00500	0.25	0	105	90	110	0	0		
Zinc	0.5175	0.0100	0.5	0	104	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: 1203193-27CMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/22/2012	Run ID: ICPMS_120323B						
Client ID: GP11-S-7.5	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19530	2550	6368	6961	197	70	130	0	0		S,MI

Sample ID: 1203193-27CMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/22/2012	Run ID: ICPMS_120323B						
Client ID: GP11-S-7.5	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19290	2550	6368	6961	194	70	130	19530	1.25	20	S,MI

Sample ID: 1203193-27CDUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/22/2012	Run ID: ICPMS_120323B						
Client ID: GP11-S-7.5	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824633						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5926	6370	0	0	0	0	0	6961	0	20	JQ

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824629						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5271	100	5000	0	105	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824639						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5116	100	5000	0	102	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824649						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824649						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5094	100	5000	0	102	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824657						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4902	100	5000	0	98	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/24/2012	SeqNo: 824978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5014	100	5000	0	100	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/24/2012	SeqNo: 824988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5004	100	5000	0	100	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120326A						
Client ID: ZZZZZ	Batch ID: 31105	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825043						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5029	100	5000	0	101	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120326A						
Client ID: ZZZZZ	Batch ID: 31105	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120326A						
Client ID: ZZZZZ	Batch ID: 31105	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5021	100	5000	0	100	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5029	100	5000	0	101	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5021	100	5000	0	100	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4968	100	5000	0	99.4	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4888	100	5000	0	97.8	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824628						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824628						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5340	100	5000	0	107	90	110	0	0	
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/24/2012	SeqNo: 824973						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5032	100	5000	0	101	90	110	0	0	
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120326A						
Client ID: ZZZZZ	Batch ID: 31105	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5122	100	5000	0	102	90	110	0	0	
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120323B						
Client ID: ZZZZZ	Batch ID: 31090	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5122	100	5000	0	102	90	110	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: 1203227-09EMS	SampType: MS	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	43.35	0.100	50	0.05978	86.6	70	130	0	0		

Sample ID: 1203227-09EMSD	SampType: MSD	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825189						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.23	0.100	50	0.05978	90.3	70	130	43.35	4.24	20	

Sample ID: 1203227-09EDUP	SampType: DUP	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825187						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.05208	0.100	0	0	0	0	0	0.05978	0	20	J

Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS	Units: ug/L	Prep Date:	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825184						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.88	0.100	50	0	97.8	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS	Units: ug/L	Prep Date:	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.8	0.100	50	0	102	90	110	0	0		

Sample ID: ICB-31125	SampType: ICB	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: ICB-31125	SampType: ICB	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.100	0	0	0	0	0	0	0	0
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Sample ID: ICV	SampType: ICV	TestCode: 6020_WDISS	Units: ug/L	Prep Date:	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825183						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	51.22	0.100	50	0	102	90	110	0	0
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MBLK-31092	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	Run ID: 5975X_120322A						
Client ID: ZZZZZ	Batch ID: 31092	TestNo: SW8260B		Analysis Date: 3/22/2012	SeqNo: 824391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	1.00									
1,2,3-Trichlorobenzene	0.21	1.00									J
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	0.17	1.00									J
1,2,4-Trimethylbenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2-Dibromoethane	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3,5-Trimethylbenzene	ND	1.00									
1,3-Dichlorobenzene	ND	1.00									
1,3-Dichloropropane	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2,2-Dichloropropane	ND	1.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	1.00									
2-Hexanone	ND	10.0									
4-Chlorotoluene	ND	1.00									
4-Isopropyltoluene	0.36	1.00									J
4-Methyl-2-pentanone	ND	20.0									
Acetone	ND	50.0									
Acrylonitrile	ND	5.00									
Benzene	ND	0.300									
Bromobenzene	ND	1.00									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MBLK-31092	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date:	Run ID: 5975X_120322A						
Client ID: ZZZZZ	Batch ID: 31092	TestNo: SW8260B		Analysis Date: 3/22/2012	SeqNo: 824391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromochloromethane	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon disulfide	ND	2.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	0.28	1.00									J
cis-1,2-Dichloroethene	0.22	1.00									J
cis-1,3-Dichloropropene	ND	1.00									
Dibromochloromethane	ND	1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	1.00									
Ethylbenzene	ND	1.00									
Hexachlorobutadiene	0.13	1.00									J
Isopropylbenzene	0.37	1.00									J
m,p-Xylene	ND	2.00									
Methyl tert-butyl ether	ND	1.00									
Methylene chloride	ND	20.0									
n-Butylbenzene	0.53	1.00									J
n-Propylbenzene	ND	1.00									
Naphthalene	0.59	1.00									J
o-Xylene	ND	1.00									
sec-Butylbenzene	ND	1.00									
Styrene	ND	1.00									
tert-Butylbenzene	ND	1.00									
Tetrachloroethene	ND	1.00									
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MBLK-31092	SampType: MBLK	TestCode: 8260_W	Units: µg/L			Prep Date: _____			Run ID: 5975X_120322A		
Client ID: ZZZZZ	Batch ID: 31092	TestNo: SW8260B				Analysis Date: 3/22/2012			SeqNo: 824391		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr: 1,2-Dichloroethane-d4	92.5	0	100	0	92.5	72.2	129	0	0		
Surr: 4-Bromofluorobenzene	89.18	0	100	0	89.2	73.5	125	0	0		
Surr: Dibromofluoromethane	89.71	0	100	0	89.7	58.8	148	0	0		
Surr: Toluene-d8	97.15	0	100	0	97.2	79.8	137	0	0		

Sample ID: LCS-31092	SampType: LCS	TestCode: 8260_W	Units: µg/L			Prep Date: 3/22/2012			Run ID: 5975X_120322A		
Client ID: ZZZZZ	Batch ID: 31092	TestNo: SW8260B				Analysis Date: 3/22/2012			SeqNo: 824390		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.11	1.00	40	0	95.3	69.9	130	0	0		
Benzene	39.84	0.300	40	0	99.6	77.9	125	0	0		
Chlorobenzene	41.4	1.00	40	0	104	82.5	114	0	0		
Toluene	42.95	1.00	40	0	107	74.6	119	0	0		
Trichloroethene	38.94	1.00	40	0	97.4	74.7	125	0	0		

Sample ID: 1203193-06AMS	SampType: MS	TestCode: 8260_W	Units: µg/L			Prep Date: 3/22/2012			Run ID: 5975X_120322A		
Client ID: GP10-W-38	Batch ID: 31092	TestNo: SW8260B				Analysis Date: 3/22/2012			SeqNo: 824398		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.79	1.00	40	0	97	51.4	176	0	0		
Benzene	40.93	0.300	40	0	102	71.5	118	0	0		
Chlorobenzene	42.49	1.00	40	0	106	79.8	114	0	0		
Toluene	42.41	1.00	40	0.14	106	79.6	121	0	0		
Trichloroethene	41.3	1.00	40	0.21	103	73.6	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 1203193-06AMSD	SampType: MSD	TestCode: 8260_W	Units: µg/L	Prep Date: 3/22/2012	Run ID: 5975X_120322A						
Client ID: GP10-W-38	Batch ID: 31092	TestNo: SW8260B		Analysis Date: 3/22/2012	SeqNo: 824399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.63	1.00	40	0	99.1	51.4	176	38.79	2.14	20	
Benzene	40.38	0.300	40	0	101	71.5	118	40.93	1.35	20	
Chlorobenzene	41.86	1.00	40	0	105	79.8	114	42.49	1.49	20	
Toluene	41.21	1.00	40	0.14	103	79.6	121	42.41	2.87	20	
Trichloroethene	40.18	1.00	40	0.21	99.9	73.6	120	41.3	2.75	20	

Sample ID: CCV-31092	SampType: CCV	TestCode: 8260_W	Units: µg/L	Prep Date:	Run ID: 5975X_120322A						
Client ID: ZZZZZ	Batch ID: 31092	TestNo: SW8260B		Analysis Date: 3/22/2012	SeqNo: 824389						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.3	1.00	40	0	95.8	80	120	0	0		
1,2-Dichloropropane	42.63	1.00	40	0	107	80	120	0	0		
Chloroform	35.23	1.00	40	0	88.1	80	120	0	0		
Ethylbenzene	43.54	1.00	40	0	109	80	120	0	0		
Toluene	42.04	1.00	40	0	105	80	120	0	0		
Vinyl chloride	42.09	1.00	40	0	105	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31148	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825733

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	33.3									
1,2-Dichlorobenzene	ND	33.3									
1,3-Dichlorobenzene	ND	33.3									
1,4-Dichlorobenzene	ND	33.3									
1-Methylnaphthalene	ND	33.3									
2,4-Dinitrotoluene	ND	33.3									
2,6-Dinitrotoluene	ND	33.3									
2-Chloronaphthalene	ND	33.3									
2-Methylnaphthalene	ND	33.3									
2-Nitroaniline	ND	33.3									
3-Nitroaniline	ND	33.3									
4-Bromophenyl phenyl ether	ND	33.3									
4-Chloroaniline	ND	33.3									
4-Chlorophenyl phenyl ether	ND	33.3									
4-Nitroaniline	ND	33.3									
Acenaphthene	ND	33.3									
Acenaphthylene	ND	33.3									
Anthracene	ND	33.3									
Benzo(a)anthracene	ND	33.3									
Benzo(a)pyrene	ND	33.3									
Benzo(b)fluoranthene	ND	33.3									
Benzo(g,h,i)perylene	ND	33.3									
Benzo(k)fluoranthene	ND	33.3									
Benzoic acid	ND	667									
Benzyl alcohol	ND	33.3									
Bis(2-chloroethoxy)methane	ND	33.3									
Bis(2-chloroethyl)ether	ND	33.3									
Bis(2-chloroisopropyl)ether	ND	33.3									
Bis(2-ethylhexyl)phthalate	ND	33.3									
Butyl benzyl phthalate	ND	33.3									
Chrysene	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31148	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	ND	33.3									
Di-n-octyl phthalate	ND	33.3									
Dibenz(a,h)anthracene	ND	33.3									
Dibenzofuran	ND	33.3									
Diethyl phthalate	ND	33.3									
Dimethyl phthalate	ND	33.3									
Fluoranthene	ND	33.3									
Fluorene	ND	33.3									
Hexachlorobenzene	ND	33.3									
Hexachlorobutadiene	ND	33.3									
Hexachlorocyclopentadiene	ND	33.3									
Hexachloroethane	ND	33.3									
Indeno(1,2,3-cd)pyrene	ND	33.3									
Isophorone	ND	33.3									
N-Nitrosodi-n-propylamine	ND	33.3									
N-nitrosodimethylamine	ND	33.3									
N-Nitrosodiphenylamine	ND	33.3									
Naphthalene	ND	33.3									
Nitrobenzene	ND	33.3									
Phenanthrene	ND	33.3									
Pyrene	ND	33.3									
Surr: 2-Fluorobiphenyl	4491	0	3333	0	135	52.6	93.2	0	0		S
Surr: 4-Terphenyl-d14	2865	0	3333	0	85.9	49.8	118	0	0		
Surr: Nitrobenzene-d5	2910	0	3333	0	87.3	44.8	103	0	0		

Sample ID: LCS-31148	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825732						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	981	33.3	1667	0	58.9	30.9	106	0	0		
1,4-Dichlorobenzene	981.3	33.3	1667	0	58.9	31.4	98.2	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: LCS-31148		SampType: LCS		TestCode: 8270BN_S		Units: µg/Kg		Prep Date: 3/27/2012		Run ID: 5973G_120328A		
Client ID: ZZZZZ		Batch ID: 31148		TestNo: SW8270B				Analysis Date: 3/28/2012		SeqNo: 825732		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
2,4-Dinitrotoluene	1214	33.3	1667	0	72.8	59.7	111	0	0			
Acenaphthene	1122	33.3	1667	0	67.3	48.2	105	0	0			
N-Nitrosodi-n-propylamine	1276	33.3	1667	0	76.6	42.4	101	0	0			
Pyrene	1032	33.3	1667	0	61.9	56.7	130	0	0			

Sample ID: 1203227-01CMS		SampType: MS		TestCode: 8270BN_S		Units: µg/Kg-dry		Prep Date: 3/27/2012		Run ID: 5973G_120328A		
Client ID: ZZZZZ		Batch ID: 31148		TestNo: SW8270B				Analysis Date: 3/28/2012		SeqNo: 825806		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,2,4-Trichlorobenzene	1397	40.8	2040	0	68.5	31.1	92.7	0	0			
1,4-Dichlorobenzene	1427	40.8	2040	0	70	16.5	85.6	0	0			
2,4-Dinitrotoluene	602.2	40.8	2040	13.87	28.8	43.4	118	0	0		S,MI	
Acenaphthene	1685	40.8	2040	0	82.6	45.1	102	0	0			
N-Nitrosodi-n-propylamine	1777	40.8	2040	0	87.1	45.6	94.1	0	0			
Pyrene	1461	40.8	2040	112.2	66.1	42.4	131	0	0			

Sample ID: 1203227-01CMSD		SampType: MSD		TestCode: 8270BN_S		Units: µg/Kg-dry		Prep Date: 3/27/2012		Run ID: 5973G_120328A		
Client ID: ZZZZZ		Batch ID: 31148		TestNo: SW8270B				Analysis Date: 3/28/2012		SeqNo: 825807		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,2,4-Trichlorobenzene	1115	40.8	2040	0	54.6	31.1	92.7	1397	22.5	20	R	
1,4-Dichlorobenzene	974.7	40.8	2040	0	47.8	16.5	85.6	1427	37.7	20	R	
2,4-Dinitrotoluene	445.5	40.8	2040	13.87	21.2	43.4	118	602.2	29.9	20	S,R,MI	
Acenaphthene	1450	40.8	2040	0	71.1	45.1	102	1685	15.0	20		
N-Nitrosodi-n-propylamine	1502	40.8	2040	0	73.6	45.6	94.1	1777	16.8	20		
Pyrene	1653	40.8	2040	112.2	75.5	42.4	131	1461	12.3	20		

Sample ID: CCV-31148		SampType: CCV		TestCode: 8270BN_S		Units: µg/Kg		Prep Date:		Run ID: 5973G_120328A		
Client ID: ZZZZZ		Batch ID: 31148		TestNo: SW8270B				Analysis Date: 3/28/2012		SeqNo: 825731		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: CCV-31148	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg		Prep Date:	Run ID: 5973G_120328A					
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B			Analysis Date: 3/28/2012	SeqNo: 825731					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1359	33.3	1333	0	102	80	120	0	0		
Acenaphthene	1469	33.3	1333	0	110	80	120	0	0		
Benzo(a)pyrene	1571	33.3	1333	0	118	80	120	0	0		
Di-n-octyl phthalate	1344	33.3	1333	0	101	80	120	0	0		
Fluoranthene	1377	33.3	1333	0	103	80	120	0	0		
Hexachlorobutadiene	1193	33.3	1333	0	89.5	80	120	0	0		
N-Nitrosodiphenylamine	1448	33.3	1333	0	109	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID: MB-31093	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 3/22/2012	Run ID: GC-O_120322A						
Client ID: ZZZZZ	Batch ID: 31093	TestNo: NWHCID		Analysis Date: 3/22/2012	SeqNo: 824228						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	5.11	20.0									J
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	5.94	50.0									J
Lube Oil	25.85	100									J
Surr: BFB	103.2	0	100	0	103	50	150	0	0		
Surr: o-Terphenyl	106.1	0	100	0	106	50	150	0	0		

Sample ID: MB-31094	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 3/22/2012	Run ID: GC-O_120322B						
Client ID: ZZZZZ	Batch ID: 31094	TestNo: NWHCID		Analysis Date: 3/22/2012	SeqNo: 824243						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2.62	20.0									J
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	1.59	50.0									J
Lube Oil	22.57	100									J
Surr: BFB	104.3	0	100	0	104	50	150	0	0		
Surr: o-Terphenyl	109.8	0	100	0	110	50	150	0	0		

Sample ID: 1203193-08BDUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: GC-O_120322A						
Client ID: GP9-S-3	Batch ID: 31093	TestNo: NWHCID		Analysis Date: 3/22/2012	SeqNo: 824231						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	4.292	28.3	0	0	0	0	0	4.66	0	20	J
Mineral Spirits	ND	28.3	0	0	0	0	0	0	0	20	
Kerosene	ND	70.8	0	0	0	0	0	0	0	20	
Diesel	7.139	70.8	0	0	0	0	0	5.057	0	20	J
Lube Oil	23.57	142	0	0	0	0	0	24.48	0	20	J

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID: 1203193-10BDUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: GC-O_120322A						
Client ID: GP9-S-12.5	Batch ID: 31093	TestNo: NWHCID		Analysis Date: 3/22/2012	SeqNo: 824234						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	5.878	28.3	0	0	0	0	0	4.164	0	20	J
Mineral Spirits	ND	28.3	0	0	0	0	0	0	0	20	
Kerosene	ND	70.8	0	0	0	0	0	0	0	20	
Diesel	3.754	70.8	0	0	0	0	0	3.428	0	20	J
Lube Oil	10.1	142	0	0	0	0	0	11.67	0	20	J

Sample ID: 1203193-19BDUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: GC-O_120322B						
Client ID: GP10-S-12.5	Batch ID: 31094	TestNo: NWHCID		Analysis Date: 3/22/2012	SeqNo: 824245						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	0.8453	28.7	0	0	0	0	0	0.745	0	20	J
Mineral Spirits	ND	28.7	0	0	0	0	0	0	0	20	
Kerosene	ND	71.6	0	0	0	0	0	0	0	20	
Diesel	ND	71.6	0	0	0	0	0	0	0	20	
Lube Oil	ND	143	0	0	0	0	0	0	0	20	

Sample ID: 1203203-02ADUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: GC-O_120322B						
Client ID: ZZZZZ	Batch ID: 31094	TestNo: NWHCID		Analysis Date: 3/22/2012	SeqNo: 824256						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	23.01	26.7	0	0	0	0	0	21.76	0	20	J
Mineral Spirits	ND	26.7	0	0	0	0	0	0	0	20	
Kerosene	ND	66.7	0	0	0	0	0	0	0	20	
Diesel	15.37	66.7	0	0	0	0	0	12.05	0	20	J
Lube Oil	105.7	133	0	0	0	0	0	86.29	0	20	J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: 1203193-26CMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: CVAA_120323B						
Client ID: GP11-S-3	Batch ID: 31112	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3	0.0167	0.25	0.04562	102	78.1	125	0	0		

Sample ID: 1203193-27CMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: CVAA_120323A						
Client ID: GP11-S-7.5	Batch ID: 31111	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824478						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3078	0.0167	0.25	0.04725	104	78.1	125	0.2981	3.22	20	

Sample ID: 1203193-26CMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: CVAA_120323B						
Client ID: GP11-S-3	Batch ID: 31112	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824497						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2917	0.0167	0.25	0.04562	98.4	78.1	125	0.3	2.82	20	

Sample ID: 1203193-27CDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: CVAA_120323A						
Client ID: GP11-S-7.5	Batch ID: 31111	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824476						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04596	0.0167	0	0	0	0	0	0.04725	2.77	20	

Sample ID: 1203193-26CDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: CVAA_120323B						
Client ID: GP11-S-3	Batch ID: 31112	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04362	0.0167	0	0	0	0	0	0.04562	4.46	20	

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120323A						
Client ID: ZZZZZ	Batch ID: 31111	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120323A						
Client ID: ZZZZZ	Batch ID: 31111	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2589	0.0167	0.25	0	104	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120323A						
Client ID: ZZZZZ	Batch ID: 31111	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824491						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2598	0.0167	0.25	0	104	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120323B						
Client ID: ZZZZZ	Batch ID: 31112	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824504						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2612	0.0167	0.25	0	104	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120323B						
Client ID: ZZZZZ	Batch ID: 31112	TestNo: SW7471		Analysis Date: 3/23/2012	SeqNo: 824508						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2647	0.0167	0.25	0	106	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HGDIS_W

Sample ID: MB-31120	SampType: MBLK	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824919
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.000100

Sample ID: LCS-31120	SampType: LCS	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824918
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.004303 0.000100 0.004 0 108 85.4 116 0 0

Sample ID: A1203174-01AMS	SampType: MS	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824951
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.004527 0.000100 0.004 0 113 69.5 125 0 0

Sample ID: A1203174-01AMSD	SampType: MSD	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824952
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.004748 0.000100 0.004 0 119 69.5 125 0.004527 4.77 20

Sample ID: A1203174-01ADUP	SampType: DUP	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824950
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.000100 0 0 0 0 0 0 0 0 20

Sample ID: CCV	SampType: CCV	TestCode: HGDIS_W	Units: mg/L	Prep Date:	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824959
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HGDIS_W

Sample ID: CCV	SampType: CCV	TestCode: HGDIS_W	Units: mg/L	Prep Date:	Run ID: CVAA_120324C						
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824959						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004351	0.000100	0.004	0	109	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-31152	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/27/2012	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Hydraulic Oil	2.593	50.0									J
Lube Oil	22.42	50.0									J
Surr: o-Terphenyl	36.1	0	33.33	0	108	50	150	0	0		

Sample ID: LCS-31152	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/27/2012	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	168	15.0	166.6	0	101	76.3	125	0	0		
Lube Oil	152	50.0	166.6	0	91.2	69.9	127	0	0		

Sample ID: 1203241-11ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	20.1	0	0	0	0	0	0	0	20	
Lube Oil	25.74	66.8	0	0	0	0	0	30.73	0	20	J

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1394	15.0	1364	0	102	85	115	0	0		
Lube Oil	701.1	50.0	699.9	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826221						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel											
Lube Oil											

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx	Analysis Date: 3/29/2012	SeqNo: 826221							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1039	15.0	1023	0	102	85	115	0	0		
Hydraulic Oil	542.5	50.0	506.2	0	107	85	115	0	0		
Lube Oil	526.2	50.0	524.9	0	100	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: MB-31096	SampType: MBLK	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 3/22/2012	Run ID: GC-M_120322B						
Client ID: ZZZZZ	Batch ID: 31096	TestNo: NWTPH-Dx		Analysis Date: 3/22/2012	SeqNo: 824219						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	0.06882	0.0800									J
Lube Oil	0.1676	0.200									J
Surr: o-Terphenyl	0.2055	0	0.2	0	103	50	150	0	0		

Sample ID: LCS-31096	SampType: LCS	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 3/22/2012	Run ID: GC-M_120322B						
Client ID: ZZZZZ	Batch ID: 31096	TestNo: NWTPH-Dx		Analysis Date: 3/22/2012	SeqNo: 824220						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	0.9052	0.0800	1	0	90.5	60.7	121	0	0		
Lube Oil	0.9212	0.200	1	0	92.1	64	126	0	0		

Sample ID: LCSD-31096	SampType: LCSD	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 3/22/2012	Run ID: GC-M_120322B						
Client ID: ZZZZZ	Batch ID: 31096	TestNo: NWTPH-Dx		Analysis Date: 3/22/2012	SeqNo: 824221						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	0.922	0.0800	1	0	92.2	60.7	121	0.9052	1.83	20	
Lube Oil	0.9389	0.200	1	0	93.9	64	126	0.9212	1.90	20	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120322B						
Client ID: ZZZZZ	Batch ID: 31096	TestNo: NWTPH-Dx		Analysis Date: 3/22/2012	SeqNo: 824218						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	6.247	0.0800	6.138	0	102	85	115	0	0		
Lube Oil	3.013	0.200	3.15	0	95.7	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120322B						
Client ID: ZZZZZ	Batch ID: 31096	TestNo: NWTPH-Dx		Analysis Date: 3/22/2012	SeqNo: 824227						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	8.245	0.0800	8.184	0	101	85	115	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120322B						
Client ID: ZZZZZ	Batch ID: 31096	TestNo: NWTPH-Dx		Analysis Date: 3/22/2012	SeqNo: 824227						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil	3.862	0.200	4.2	0	92	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_W

Sample ID: MB-31087	SampType: MBLK	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 3/22/2012	Run ID: GC-S_120322A						
Client ID: ZZZZZ	Batch ID: 31087	TestNo: NWTPH-Gx		Analysis Date: 3/22/2012	SeqNo: 824302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	100									
Surr: 4-Bromofluorobenzene	95.48	0	100	0	95.5	50	150	0	0		

Sample ID: LCS-31087	SampType: LCS	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 3/22/2012	Run ID: GC-S_120322A						
Client ID: ZZZZZ	Batch ID: 31087	TestNo: NWTPH-Gx		Analysis Date: 3/22/2012	SeqNo: 824301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	1676	100	2000	0	83.8	74.4	128	0	0		
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Sample ID: 1203193-02ADUP	SampType: DUP	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 3/22/2012	Run ID: GC-S_120322A						
Client ID: Equipment Blank	Batch ID: 31087	TestNo: NWTPH-Gx		Analysis Date: 3/22/2012	SeqNo: 824304						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	100	0	0	0	0	0	0	0	20	
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	Run ID: GC-S_120322A						
Client ID: ZZZZZ	Batch ID: 31087	TestNo: NWTPH-Gx		Analysis Date: 3/22/2012	SeqNo: 824309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2747	100	3000	0	91.6	80	120	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: MB-31098	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/22/2012	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.01	0.0500									J
2-Methylnaphthalene	ND	0.0500									
Acenaphthene	ND	0.0500									
Acenaphthylene	ND	0.0500									
Anthracene	0.01	0.0500									J
Benz(a)anthracene	0.01	0.0500									J
Benzo(a)pyrene	0.02	0.0500									J
Benzo(b)fluoranthene	ND	0.0500									
Benzo(g,h,i)perylene	ND	0.0500									
Benzo(k)fluoranthene	ND	0.0500									
Chrysene	ND	0.0500									
Dibenz(a,h)anthracene	ND	0.0500									
Fluoranthene	ND	0.0500									
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	ND	0.0500									
Naphthalene	ND	0.0500									
Phenanthrene	0.01	0.0500									J
Pyrene	0.01	0.0500									J
Surr: 2-Fluorobiphenyl	82.55	1.00	100	0	82.6	18.6	106	0	0		
Surr: Nitrobenzene-d5	79.29	1.00	100	0	79.3	17	130	0	0		
Surr: p-Terphenyl-d14	88.49	1.00	100	0	88.5	39.6	131	0	0		

Sample ID: LCS-31098	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/22/2012	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824460						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.46	0.0500	5	0	69.2	35.1	100	0	0		
Benzo(a)pyrene	3.38	0.0500	5	0.02	67.2	23.4	103	0	0		
Benzo(g,h,i)perylene	3.42	0.0500	5	0	68.4	20.8	120	0	0		
Chrysene	3.72	0.0500	5	0	74.4	39.1	119	0	0		
Naphthalene	3.82	0.0500	5	0	76.4	25.6	106	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: LCS-31098	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/22/2012	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824460						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	3.51	0.0500	5	0.01	70	38.1	106	0	0		
Pyrene	3.59	0.0500	5	0.01	71.6	41.3	118	0	0		

Sample ID: LCSD-31098	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/22/2012	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824461						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.55	0.0500	5	0	71	35.1	100	3.46	2.57	20	
Benzo(a)pyrene	3.48	0.0500	5	0	69.6	23.4	103	3.38	2.92	20	
Benzo(g,h,i)perylene	3.56	0.0500	5	0	71.2	20.8	120	3.42	4.01	20	
Chrysene	3.72	0.0500	5	0	74.4	39.1	119	3.72	0	20	
Naphthalene	3.56	0.0500	5	0	71.2	25.6	106	3.82	7.05	20	
Phenanthrene	3.47	0.0500	5	0	69.4	38.1	106	3.51	1.15	20	
Pyrene	3.55	0.0500	5	0	71	41.3	118	3.59	1.12	20	

Sample ID: CCB-31098	SampType: CCB	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824686						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.01	0.0500	0	0	0	0	0	0	0		
2-Methylnaphthalene	ND	0.0500	0	0	0	0	0	0	0		
Acenaphthene	ND	0.0500	0	0	0	0	0	0	0		
Acenaphthylene	ND	0.0500	0	0	0	0	0	0	0		
Anthracene	0.01	0.0500	0	0	0	0	0	0	0		
Benzo(a)anthracene	0.02	0.0500	0	0	0	0	0	0	0		
Benzo(a)pyrene	0.01	0.0500	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	0.02	0.0500	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	0.01	0.0500	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	0.02	0.0500	0	0	0	0	0	0	0		
Chrysene	0.01	0.0500	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	0.01	0.0500	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: CCB-31098	SampType: CCB	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824686						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.02	0.0500	0	0	0	0	0	0	0	0	
Fluorene	ND	0.0500	0	0	0	0	0	0	0	0	
Indeno(1,2,3-cd)pyrene	0.01	0.0500	0	0	0	0	0	0	0	0	
Naphthalene	0.03	0.0500	0	0	0	0	0	0	0	0	
Phenanthrene	0.02	0.0500	0	0	0	0	0	0	0	0	
Pyrene	0.01	0.0500	0	0	0	0	0	0	0	0	
Surr: 2-Fluorobiphenyl	84.31	1.00	100	0	84.3	18.6	106	0	0	0	
Surr: Nitrobenzene-d5	85.39	1.00	100	0	85.4	17	130	0	0	0	
Surr: p-Terphenyl-d14	90.95	1.00	100	0	91	39.6	131	0	0	0	

Sample ID: CCV-31098	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.16	0.0500	1	0	116	70	130	0	0	0	
2-Methylnaphthalene	0.89	0.0500	1	0	89	70	130	0	0	0	
Acenaphthene	0.92	0.0500	1	0	92	70	130	0	0	0	
Acenaphthylene	0.95	0.0500	1	0	95	70	130	0	0	0	
Anthracene	0.98	0.0500	1	0	98	70	130	0	0	0	
Benz(a)anthracene	0.83	0.0500	1	0	83	70	130	0	0	0	
Benzo(a)pyrene	0.9	0.0500	1	0	90	70	130	0	0	0	
Benzo(b)fluoranthene	0.81	0.0500	1	0	81	70	130	0	0	0	
Benzo(g,h,i)perylene	0.93	0.0500	1	0	93	70	130	0	0	0	
Benzo(k)fluoranthene	1.07	0.0500	1	0	107	70	130	0	0	0	
Chrysene	0.97	0.0500	1	0	97	70	130	0	0	0	
Dibenz(a,h)anthracene	0.94	0.0500	1	0	94	70	130	0	0	0	
Fluoranthene	0.94	0.0500	1	0	94	70	130	0	0	0	
Fluorene	1.04	0.0500	1	0	104	70	130	0	0	0	
Indeno(1,2,3-cd)pyrene	0.95	0.0500	1	0	95	70	130	0	0	0	
Naphthalene	0.95	0.0500	1	0	95	70	130	0	0	0	
Phenanthrene	0.83	0.0500	1	0	83	70	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203193
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: CCV-31098	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	0.89	0.0500	1	0	89	70	130	0	0		

Sample ID: CCV-31098	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120323A						
Client ID: ZZZZZ	Batch ID: 31098	TestNo: 8270SIM		Analysis Date: 3/23/2012	SeqNo: 824685						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.97	0.0500	1	0	97	70	130	0	0		
2-Methylnaphthalene	0.99	0.0500	1	0	99	70	130	0	0		
Acenaphthene	0.89	0.0500	1	0	89	70	130	0	0		
Acenaphthylene	0.94	0.0500	1	0	94	70	130	0	0		
Anthracene	0.9	0.0500	1	0	90	70	130	0	0		
Benz(a)anthracene	0.84	0.0500	1	0	84	70	130	0	0		
Benzo(a)pyrene	0.87	0.0500	1	0	87	70	130	0	0		
Benzo(b)fluoranthene	0.93	0.0500	1	0	93	70	130	0	0		
Benzo(g,h,i)perylene	0.92	0.0500	1	0	92	70	130	0	0		
Benzo(k)fluoranthene	1.05	0.0500	1	0	105	70	130	0	0		
Chrysene	0.92	0.0500	1	0	92	70	130	0	0		
Dibenz(a,h)anthracene	0.96	0.0500	1	0	96	70	130	0	0		
Fluoranthene	0.94	0.0500	1	0	94	70	130	0	0		
Fluorene	0.94	0.0500	1	0	94	70	130	0	0		
Indeno(1,2,3-cd)pyrene	0.93	0.0500	1	0	93	70	130	0	0		
Naphthalene	1	0.0500	1	0	100	70	130	0	0		
Phenanthrene	0.97	0.0500	1	0	97	70	130	0	0		
Pyrene	0.92	0.0500	1	0	92	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

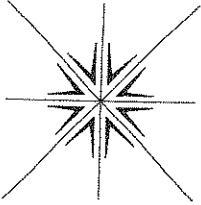
B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD



Specialty Analytical
 11711 SE Capps Road
 Clackamas, OR 97015
 Phone: 503-607-1331
 Fax: 503-607-1336

Contact Person/Project Manager Mike Stringer
 Company MFA
 Address 400 E Mill Plain Blvd #400
Vancouver WA
 Phone _____ Fax _____
 Project No. Kelso IP6 ← Project Name 0443.02.02
 Project Site Location OR _____ WA Other _____
 Invoice To _____ P.O. No. _____

Collected By:
 Signature [Signature]
 Printed Meghan Ballaguer
 Signature _____
 Printed _____

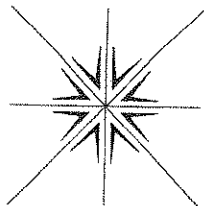
Turn Around Time
 Normal 5-7 Business Days
 Rush _____
 Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses							For Laboratory Use								
					Dis. Metals (Al, Pb, Cd, Cr, Cu, Ni, Zn) by GC/MS	As by 6020 (dis.)	Hg by 7471 (dis.)	NITPH-DX	NITPH-CX	VOCs by low level 8260	PAHs by 8270 SIM	Lab Job No.	Shipped Via	Air Bill No.	Temperature On Receipt °C	Specialty Analytical Containers? Y/N	Specialty Analytical Trip Blanks? Y/N			
3/21/12	0800	TRIP BLANK	W	6	X	X	X	X	X	X	X	X								
	1730	EQUIPMENT BLANK	W	6	X	X	X	X	X	X	X	X								
	1115	GP1-W-10	W	8	X	X	X	X	X	X	X	X								
	1416	GP9-W-7	W	8	X	X	X	X	X	X	X	X								
	1556	GP9-W-38.0	W	8	X	X	X	X	X	X	X	X								
	1835	GP10-W-38	W	8	X	X	X	X	X	X	X	X								
		GP10-W-10 (M)																		

Relinquished By: <u>[Signature]</u> Company: <u>MFA</u>	Date: <u>3/21</u> Time: <u>3:30</u>	Received By: <u>Nikki Pippes</u> Company: <u>Specialty</u>	Relinquished By: _____ Company: _____	Date: _____ Time: _____
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)			Received For Lab By: <u>Nikki Pippes</u>	Date: <u>3/22/12</u> Time: <u>0915</u>

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Mike Stringer

Company MPA

Address 400 E Mill Plain Blvd # 400
Vancouver WA

Phone _____ Fax _____

Project No. kelso IPG ↔ Project Name 0443.02:02

Project Site Location OR _____ WA X Other _____

Invoice To _____ P.O. No. _____

Collected By:

Signature [Signature]

Printed Marghan Gallagher

Signature _____

Printed _____

Turn Around Time

Normal 5-7 Business Days

Rush _____

Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses								For Laboratory Use					
					Metals (Al, Pb, Cd, Cr, Cu, Ni, Zn) by 6010	As by 6020	Hg by 7471	NWTPH-HGD	NWTPH Ds	NWTPH Gs	low level VOCs	SVOC	PCB	Lab Job No.	Shipped Via	Air Bill No.		
3/21	1120	GP9-S-0.5	S	1	X	X	X	X	X	X	X	X	X	X				
	1125	GP9-S-3		1	X	X	X	X	X	X	X	X	X	X				
	1130	GP9-S-7.5		1	X	X	X	X	X	X	X	X	X	X				
	1135	GP9-S-12.5		1	X	X	X	X	X	X	X	X	X	X				
	1140	GP9-S-17.5		1	X	X	X	X	X	X	X	X	X	X				
	1350	GP9-S-22.5		1	X	X	X	X	X	X	X	X	X	X				
	1405	GP9-S-27.5		1	X	X	X	X	X	X	X	X	X	X				
	1430	GP9-S-32.5		1	X	X	X	X	X	X	X	X	X	X				
	1440	GP9-S-37.5		1	X	X	X	X	X	X	X	X	X	X				
	1540	GP10-S-0.5		1	X	X	X	X	X	X	X	X	X	X				
	1550	GP10-S-3		1	X	X	X	X	X	X	X	X	X	X				
	1610	GP10-S-5.2		1	X	X	X	X	X	X	X	X	X	X				

For Laboratory Use

Lab Job No. 1203913

Shipped Via Specialty

Air Bill No. _____

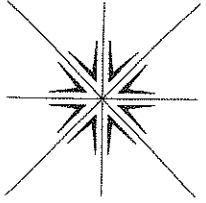
Temperature On Receipt _____ °C

Specialty Analytical Containers? Y / N

Specialty Analytical Trip Blanks? Y / N

Relinquished By: <u>[Signature]</u>	Date: <u>3/21</u>	Time: <u>2130</u>	Received By: <u>Nikki Buppas</u>	Relinquished By: _____	Date: _____	Time: _____
Company: <u>MPA</u>			Company: <u>Specialty</u>	Company: _____		
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)				Received For Lab By: <u>Nikki Buppas</u>	Date: <u>3/22/12</u>	Time: <u>0915</u>

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager MIKE STRINGER
Company MFA
Address 400 E Mill Plain Bld #400
Vanouver WA
Phone _____ Fax _____
Project No. 0443.02.02 Project Name Kebo IPG
Project Site Location OR _____ WA Other _____
Invoice To _____ P.O. No. _____

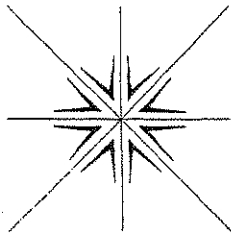
Collected By:
Signature [Signature]
Printed Meghan Callaghan
Signature _____
Printed _____

Turn Around Time
 Normal 5-7 Business Days
 Rush _____
Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses										For Laboratory Use		
					Metals (Al, Pb, Cd, Cr, Cu, Ni, Zn)	AS	Hg	NWTPH HCID	NWTPH DX	NWTPH GX	low level Ver	SVOC	PCB	Lab Job No.	Shipped Via		
3/21	1615	GP10-S-12.5	S	7	X	X	X	X	X	X	X	X	X	X	X	1203193	Specialty
	1625	GP10-S-17.5	1	7	X	X	X	X	X	X	X	X	X	X	X		
	1640	GP10-S-22.5		7	X	X	X	X	X	X	X	X	X	X	X		
	1650	GP10-S-27.5		7	X	X	X	X	X	X	X	X	X	X	X		
	1655	GP10-S-32.5		7	X	X	X	X	X	X	X	X	X	X	X		
	1700	GP10-S-37.5		7	X	X	X	X	X	X	X	X	X	X	X		
	1920	GP10-S-0.5		2	X	X	X	X	X	X	X	X	X	X	X		
	1914	GP11-S-3		7	X	X	X	X	X	X	X	X	X	X	X		
	1930	GP11-S-7.5		7	X	X	X	X	X	X	X	X	X	X	X		

Relinquished By: <u>[Signature]</u> Company: <u>MFA</u>	Date: <u>3/21</u> Time: <u>1130</u>	Received By: <u>Nikki Buppas</u> Company: <u>Specialty</u>	Relinquished By: _____ Company: _____	Date: _____ Time: _____
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)			Received For Lab By: <u>Nikki Buppas</u>	Date: <u>3/22/2</u> Time: <u>0915</u>



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

April 03, 2012

Mike Stringer
Maul, Foster & Alongi
400 East Mill Plain Blvd
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: Kelso IPG / 0443.02.02

Dear Mike Stringer:

Order No.: 1203227

Specialty Analytical received 10 samples on 3/23/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review

Specialty Analytical**Date:** 03-Apr-12

CLIENT: Maul, Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab Order: 1203227**CASE NARRATIVE**

The NWTPH-Dx batch QC sample contains a product found in the Diesel range which appears to be weathered. Upon examination of the contaminant, the leading and tailing ends of the chromatogram are missing the typical n-Alkane peaks normally associated with Diesel.

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-01

Client Sample ID: HA4-S-0.5
Collection Date: 3/22/2012 10:09:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: kh
Gasoline	ND	24.5		mg/Kg-dry	1	3/23/2012
Mineral Spirits	ND	24.5		mg/Kg-dry	1	3/23/2012
Kerosene	ND	61.2		mg/Kg-dry	1	3/23/2012
Diesel	Diesel	61.2		mg/Kg-dry	1	3/23/2012
Lube Oil	Lube Oil	122		mg/Kg-dry	1	3/23/2012
Surr: BFB	89.9	50-150		%REC	1	3/23/2012
Surr: o-Terphenyl	82.7	50-150		%REC	1	3/23/2012
NWTPH-DX						Analyst: kh
Diesel	292	18.4	A1	mg/Kg-dry	1	3/28/2012
Lube Oil	1360	61.2		mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	129	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP						Analyst: cmt
		E6010				
Aluminum	16900	5.67		mg/Kg-dry	1	3/26/2012 6:46:59 PM
Cadmium	4.05	0.113		mg/Kg-dry	1	3/26/2012 6:46:59 PM
Chromium	16.6	0.567		mg/Kg-dry	1	3/26/2012 6:46:59 PM
Copper	139	1.13		mg/Kg-dry	1	3/26/2012 6:46:59 PM
Lead	417	2.27		mg/Kg-dry	1	3/26/2012 6:46:59 PM
Nickel	25.6	0.567		mg/Kg-dry	1	3/26/2012 6:46:59 PM
Zinc	1570	1.13		mg/Kg-dry	1	3/26/2012 6:46:59 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
		SW6020				
Arsenic	4360	1130		µg/Kg-dry	10	3/27/2012 4:37:00 PM
MERCURY, TOTAL						Analyst: cmt
		SW7471				
Mercury	0.104	0.0204		mg/Kg-dry	1	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL						Analyst: bda
		SW8270B				
1,2,4-Trichlorobenzene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
1,2-Dichlorobenzene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
1,3-Dichlorobenzene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
1,4-Dichlorobenzene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
1-Methylnaphthalene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
2,4-Dinitrotoluene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
2,6-Dinitrotoluene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
2-Chloronaphthalene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
2-Methylnaphthalene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
2-Nitroaniline	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
3-Nitroaniline	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
4-Bromophenyl phenyl ether	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
4-Chloroaniline	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
4-Chlorophenyl phenyl ether	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-01

Client Sample ID: HA4-S-0.5
Collection Date: 3/22/2012 10:09:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bda
4-Nitroaniline	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Acenaphthene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Acenaphthylene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Anthracene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Benzo(a)anthracene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Benzo(a)pyrene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Benzo(b)fluoranthene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Benzo(g,h,i)perylene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Benzo(k)fluoranthene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Benzoic acid	ND	816		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Benzyl alcohol	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Bis(2-chloroethoxy)methane	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Bis(2-chloroethyl)ether	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Bis(2-chloroisopropyl)ether	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Bis(2-ethylhexyl)phthalate	1440	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Butyl benzyl phthalate	540	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Chrysene	69.8	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Di-n-butyl phthalate	250	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Di-n-octyl phthalate	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Dibenz(a,h)anthracene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Dibenzofuran	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Diethyl phthalate	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Dimethyl phthalate	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Fluoranthene	60.8	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Fluorene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Hexachlorobenzene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Hexachlorobutadiene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Hexachlorocyclopentadiene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Hexachloroethane	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Isophorone	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
N-Nitrosodi-n-propylamine	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
N-nitrosodimethylamine	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
N-Nitrosodiphenylamine	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Naphthalene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Nitrobenzene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Phenanthrene	ND	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Pyrene	112	40.8		µg/Kg-dry	1	3/28/2012 2:10:00 PM
Surr: 2-Fluorobiphenyl	131	52.6-93.2	S	%REC	1	3/28/2012 2:10:00 PM
Surr: 4-Terphenyl-d14	80.4	49.8-118		%REC	1	3/28/2012 2:10:00 PM
Surr: Nitrobenzene-d5	70.7	44.8-103		%REC	1	3/28/2012 2:10:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-01

Client Sample ID: HA4-S-0.5
Collection Date: 3/22/2012 10:09:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.408		µg/Kg-dry	1	3/28/2012
Aroclor 1221	ND	0.408		µg/Kg-dry	1	3/28/2012
Aroclor 1232	ND	0.408		µg/Kg-dry	1	3/28/2012
Aroclor 1242	62.0	0.408		µg/Kg-dry	1	3/28/2012
Aroclor 1248	ND	0.408		µg/Kg-dry	1	3/28/2012
Aroclor 1254	240	0.815		µg/Kg-dry	2	3/29/2012
Aroclor 1260	264	0.408		µg/Kg-dry	1	3/28/2012
Aroclor 1262	ND	0.408		µg/Kg-dry	1	3/28/2012
Aroclor 1268	ND	0.408		µg/Kg-dry	1	3/28/2012
Surr: Decachlorobiphenyl	139	56.5-130	S,MI	%REC	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-02

Client Sample ID: HA4-S-1.5
Collection Date: 3/22/2012 10:17:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: kh
Diesel	31.7	19.2		mg/Kg-dry	1	3/28/2012
Lube Oil	181	64.1		mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	104	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP						Analyst: cmt
E6010						
Aluminum	18500	6.41		mg/Kg-dry	1	3/27/2012 4:35:48 PM
Cadmium	0.564	0.128		mg/Kg-dry	1	3/27/2012 4:35:48 PM
Chromium	15.6	0.641		mg/Kg-dry	1	3/27/2012 4:35:48 PM
Copper	60.5	1.28		mg/Kg-dry	1	3/27/2012 4:35:48 PM
Lead	78.3	2.56		mg/Kg-dry	1	3/27/2012 4:35:48 PM
Nickel	12.1	0.641		mg/Kg-dry	1	3/27/2012 4:35:48 PM
Zinc	274	1.28	B	mg/Kg-dry	1	3/27/2012 4:35:48 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
SW6020						
Arsenic	2900	1280		µg/Kg-dry	10	3/27/2012 5:31:00 PM
MERCURY, TOTAL						Analyst: cmt
SW7471						
Mercury	0.0572	0.0201		mg/Kg-dry	1	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL						Analyst: bda
SW8270B						
1,2,4-Trichlorobenzene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
1,2-Dichlorobenzene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
1,3-Dichlorobenzene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
1,4-Dichlorobenzene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
1-Methylnaphthalene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
2,4-Dinitrotoluene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
2,6-Dinitrotoluene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
2-Chloronaphthalene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
2-Methylnaphthalene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
2-Nitroaniline	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
3-Nitroaniline	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
4-Bromophenyl phenyl ether	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
4-Chloroaniline	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
4-Chlorophenyl phenyl ether	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
4-Nitroaniline	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Acenaphthene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Acenaphthylene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Anthracene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Benz(a)anthracene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Benzo(a)pyrene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Benzo(b)fluoranthene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Benzo(g,h,i)perylene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Benzo(k)fluoranthene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-02

Client Sample ID: HA4-S-1.5
Collection Date: 3/22/2012 10:17:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bdb
Benzoic acid	ND	855		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Benzyl alcohol	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Bis(2-chloroethoxy)methane	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Bis(2-chloroethyl)ether	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Bis(2-chloroisopropyl)ether	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Bis(2-ethylhexyl)phthalate	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Butyl benzyl phthalate	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Chrysene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Di-n-butyl phthalate	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Di-n-octyl phthalate	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Dibenz(a,h)anthracene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Dibenzofuran	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Diethyl phthalate	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Dimethyl phthalate	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Fluoranthene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Fluorene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Hexachlorobenzene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Hexachlorobutadiene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Hexachlorocyclopentadiene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Hexachloroethane	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Indeno(1,2,3-cd)pyrene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Isophorone	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
N-Nitrosodi-n-propylamine	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
N-nitrosodimethylamine	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
N-Nitrosodiphenylamine	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Naphthalene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Nitrobenzene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Phenanthrene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Pyrene	ND	42.7		µg/Kg-dry	1	3/28/2012 12:50:00 PM
Surr: 2-Fluorobiphenyl	117	52.6-93.2	S	%REC	1	3/28/2012 12:50:00 PM
Surr: 4-Terphenyl-d14	72.8	49.8-118		%REC	1	3/28/2012 12:50:00 PM
Surr: Nitrobenzene-d5	67.6	44.8-103		%REC	1	3/28/2012 12:50:00 PM
PCB'S IN SOIL SW8082						Analyst: jrp
Aroclor 1016	ND	0.427		µg/Kg-dry	1	3/28/2012
Aroclor 1221	ND	0.427		µg/Kg-dry	1	3/28/2012
Aroclor 1232	ND	0.427		µg/Kg-dry	1	3/28/2012
Aroclor 1242	2.56	0.427		µg/Kg-dry	1	3/28/2012
Aroclor 1248	ND	0.427		µg/Kg-dry	1	3/28/2012
Aroclor 1254	4.96	0.427		µg/Kg-dry	1	3/29/2012
Aroclor 1260	6.84	0.427		µg/Kg-dry	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-02

Client Sample ID: HA4-S-1.5
Collection Date: 3/22/2012 10:17:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1262	ND	0.427		µg/Kg-dry	1	3/28/2012
Aroclor 1268	ND	0.427		µg/Kg-dry	1	3/28/2012
Surr: Decachlorobiphenyl	58.1	56.5-130		%REC	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-03

Client Sample ID: HA5-S-0.5
Collection Date: 3/22/2012 12:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID				Analyst: kh
Gasoline	ND	25.5		mg/Kg-dry	1	3/23/2012
Mineral Spirits	ND	25.5		mg/Kg-dry	1	3/23/2012
Kerosene	ND	63.9		mg/Kg-dry	1	3/23/2012
Diesel	Diesel	63.9		mg/Kg-dry	1	3/23/2012
Lube Oil	Lube Oil	128		mg/Kg-dry	1	3/23/2012
Surr: BFB	91.9	50-150		%REC	1	3/23/2012
Surr: o-Terphenyl	107	50-150		%REC	1	3/23/2012
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	348	19.2	A1	mg/Kg-dry	1	3/28/2012
Hydraulic Oil	1050	63.9		mg/Kg-dry	1	3/28/2012
Lube Oil	ND	63.9	A3	mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	137	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP		E6010				Analyst: cmt
Aluminum	11600	5.70		mg/Kg-dry	1	3/26/2012 6:51:28 PM
Cadmium	3.63	0.114		mg/Kg-dry	1	3/26/2012 6:51:28 PM
Chromium	15.8	0.570		mg/Kg-dry	1	3/26/2012 6:51:28 PM
Copper	121	1.14		mg/Kg-dry	1	3/26/2012 6:51:28 PM
Lead	372	2.28		mg/Kg-dry	1	3/26/2012 6:51:28 PM
Nickel	34.5	0.570		mg/Kg-dry	1	3/26/2012 6:51:28 PM
Zinc	620	1.14		mg/Kg-dry	1	3/26/2012 6:51:28 PM
TOTAL METALS BY ICP/MS		SW6020				Analyst: cmt
Arsenic	4600	2280		µg/Kg-dry	20	3/27/2012 7:12:00 PM
MERCURY, TOTAL		SW7471				Analyst: cmt
Mercury	0.136	0.0213		mg/Kg-dry	1	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B				Analyst: bda
1,2,4-Trichlorobenzene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
1,2-Dichlorobenzene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
1,3-Dichlorobenzene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
1,4-Dichlorobenzene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
1-Methylnaphthalene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
2,4-Dinitrotoluene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
2,6-Dinitrotoluene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
2-Chloronaphthalene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
2-Methylnaphthalene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
2-Nitroaniline	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
3-Nitroaniline	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
4-Bromophenyl phenyl ether	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
4-Chloroaniline	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-03

Client Sample ID: HA5-S-0.5
Collection Date: 3/22/2012 12:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bda
4-Chlorophenyl phenyl ether	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
4-Nitroaniline	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Acenaphthene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Acenaphthylene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Anthracene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Benzo(a)anthracene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Benzo(a)pyrene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Benzo(b)fluoranthene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Benzo(g,h,i)perylene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Benzo(k)fluoranthene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Benzoic acid	ND	852		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Benzyl alcohol	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Bis(2-chloroethoxy)methane	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Bis(2-chloroethyl)ether	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Bis(2-chloroisopropyl)ether	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Bis(2-ethylhexyl)phthalate	884	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Butyl benzyl phthalate	724	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Chrysene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Di-n-butyl phthalate	161	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Di-n-octyl phthalate	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Dibenz(a,h)anthracene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Dibenzofuran	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Diethyl phthalate	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Dimethyl phthalate	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Fluoranthene	65.1	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Fluorene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Hexachlorobenzene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Hexachlorobutadiene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Hexachlorocyclopentadiene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Hexachloroethane	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Isophorone	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
N-Nitrosodi-n-propylamine	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
N-nitrosodimethylamine	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
N-Nitrosodiphenylamine	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Naphthalene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Nitrobenzene	ND	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Phenanthrene	46.0	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Pyrene	95.8	42.5		µg/Kg-dry	1	3/28/2012 2:36:00 PM
Surr: 2-Fluorobiphenyl	185	52.6-93.2	S	%REC	1	3/28/2012 2:36:00 PM
Surr: 4-Terphenyl-d14	108	49.8-118		%REC	1	3/28/2012 2:36:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-03

Client Sample ID: HA5-S-0.5
Collection Date: 3/22/2012 12:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bda
Surr: Nitrobenzene-d5	92.5	44.8-103		%REC	1	3/28/2012 2:36:00 PM
PCB'S IN SOIL SW8082						Analyst: jrp
Aroclor 1016	ND	0.425		µg/Kg-dry	1	3/28/2012
Aroclor 1221	ND	0.425		µg/Kg-dry	1	3/28/2012
Aroclor 1232	ND	0.425		µg/Kg-dry	1	3/28/2012
Aroclor 1242	7.66	0.425		µg/Kg-dry	1	3/28/2012
Aroclor 1248	ND	0.425		µg/Kg-dry	1	3/28/2012
Aroclor 1254	63.0	0.425		µg/Kg-dry	1	3/29/2012
Aroclor 1260	58.7	0.425		µg/Kg-dry	1	3/28/2012
Aroclor 1262	ND	0.425		µg/Kg-dry	1	3/28/2012
Aroclor 1268	ND	0.425		µg/Kg-dry	1	3/28/2012
Surr: Decachlorobiphenyl	102	56.5-130		%REC	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-04

Client Sample ID: HA5-S-1.5
Collection Date: 3/22/2012 12:35:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: kh
Diesel	ND	21.2		mg/Kg-dry	1	3/28/2012
Lube Oil	ND	70.8		mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	96.3	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP						Analyst: cmt
		E6010				
Aluminum	19300	6.56		mg/Kg-dry	1	3/27/2012 5:25:29 PM
Cadmium	0.302	0.131		mg/Kg-dry	1	3/27/2012 5:25:29 PM
Chromium	14.0	0.656		mg/Kg-dry	1	3/27/2012 5:25:29 PM
Copper	33.2	1.31		mg/Kg-dry	1	3/27/2012 5:25:29 PM
Lead	32.5	2.62		mg/Kg-dry	1	3/27/2012 5:25:29 PM
Nickel	10.7	0.656		mg/Kg-dry	1	3/27/2012 5:25:29 PM
Zinc	148	1.31	B	mg/Kg-dry	1	3/27/2012 5:25:29 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
		SW6020				
Arsenic	3250	1310		µg/Kg-dry	10	3/27/2012 5:58:00 PM
MERCURY, TOTAL						Analyst: cmt
		SW7471				
Mercury	0.0557	0.0237		mg/Kg-dry	1	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL						Analyst: bda
		SW8270B				
1,2,4-Trichlorobenzene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
1,2-Dichlorobenzene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
1,3-Dichlorobenzene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
1,4-Dichlorobenzene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
1-Methylnaphthalene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
2,4-Dinitrotoluene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
2,6-Dinitrotoluene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
2-Chloronaphthalene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
2-Methylnaphthalene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
2-Nitroaniline	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
3-Nitroaniline	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
4-Bromophenyl phenyl ether	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
4-Chloroaniline	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
4-Chlorophenyl phenyl ether	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
4-Nitroaniline	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Acenaphthene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Acenaphthylene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Anthracene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Benzo(a)anthracene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Benzo(a)pyrene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Benzo(b)fluoranthene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Benzo(g,h,i)perylene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Benzo(k)fluoranthene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-04

Client Sample ID: HA5-S-1.5
Collection Date: 3/22/2012 12:35:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bda
Benzoic acid	ND	945		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Benzyl alcohol	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Bis(2-chloroethoxy)methane	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Bis(2-chloroethyl)ether	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Bis(2-chloroisopropyl)ether	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Bis(2-ethylhexyl)phthalate	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Butyl benzyl phthalate	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Chrysene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Di-n-butyl phthalate	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Di-n-octyl phthalate	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Dibenz(a,h)anthracene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Dibenzofuran	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Diethyl phthalate	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Dimethyl phthalate	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Fluoranthene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Fluorene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Hexachlorobenzene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Hexachlorobutadiene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Hexachlorocyclopentadiene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Hexachloroethane	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Indeno(1,2,3-cd)pyrene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Isophorone	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
N-Nitrosodi-n-propylamine	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
N-nitrosodimethylamine	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
N-Nitrosodiphenylamine	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Naphthalene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Nitrobenzene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Phenanthrene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Pyrene	ND	47.2		µg/Kg-dry	1	3/28/2012 10:36:00 AM
Surr: 2-Fluorobiphenyl	146	52.6-93.2	S	%REC	1	3/28/2012 10:36:00 AM
Surr: 4-Terphenyl-d14	92.1	49.8-118		%REC	1	3/28/2012 10:36:00 AM
Surr: Nitrobenzene-d5	92.3	44.8-103		%REC	1	3/28/2012 10:36:00 AM
PCB'S IN SOIL SW8082						Analyst: jrp
Aroclor 1016	ND	0.472		µg/Kg-dry	1	3/28/2012
Aroclor 1221	ND	0.472		µg/Kg-dry	1	3/28/2012
Aroclor 1232	ND	0.472		µg/Kg-dry	1	3/28/2012
Aroclor 1242	ND	0.472		µg/Kg-dry	1	3/28/2012
Aroclor 1248	ND	0.472		µg/Kg-dry	1	3/28/2012
Aroclor 1254	ND	0.472		µg/Kg-dry	1	3/28/2012
Aroclor 1260	ND	0.472		µg/Kg-dry	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-04

Client Sample ID: HA5-S-1.5
Collection Date: 3/22/2012 12:35:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1262	ND	0.472		µg/Kg-dry	1	3/28/2012
Aroclor 1268	ND	0.472		µg/Kg-dry	1	3/28/2012
Surr: Decachlorobiphenyl	95.7	56.5-130		%REC	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-05

Client Sample ID: HA6-S-0.5
Collection Date: 3/22/2012 1:10:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID				Analyst: jrp
Gasoline	ND	23.1		mg/Kg-dry	1	3/26/2012
Mineral Spirits	ND	23.1		mg/Kg-dry	1	3/26/2012
Kerosene	ND	57.7		mg/Kg-dry	1	3/26/2012
Diesel	Diesel	57.7		mg/Kg-dry	1	3/26/2012
Lube Oil	Lube Oil	115		mg/Kg-dry	1	3/26/2012
Surr: BFB	72.5	50-150		%REC	1	3/26/2012
Surr: o-Terphenyl	83.3	50-150		%REC	1	3/26/2012
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	187	17.3		mg/Kg-dry	1	3/28/2012
Hydraulic Oil	620	57.7		mg/Kg-dry	1	3/28/2012
Lube Oil	ND	57.7	A3	mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	101	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP		E6010				Analyst: cmt
Aluminum	11700	5.35		mg/Kg-dry	1	3/26/2012 5:31:32 PM
Cadmium	1.81	0.107		mg/Kg-dry	1	3/26/2012 5:31:32 PM
Chromium	25.8	0.535		mg/Kg-dry	1	3/26/2012 5:31:32 PM
Copper	111	1.07		mg/Kg-dry	1	3/26/2012 5:31:32 PM
Lead	238	2.14		mg/Kg-dry	1	3/26/2012 5:31:32 PM
Nickel	43.0	0.535		mg/Kg-dry	1	3/26/2012 5:31:32 PM
Zinc	451	1.07		mg/Kg-dry	1	3/26/2012 5:31:32 PM
TOTAL METALS BY ICP/MS		SW6020				Analyst: cmt
Arsenic	37300	2140		µg/Kg-dry	20	3/27/2012 6:38:00 PM
MERCURY, TOTAL		SW7471				Analyst: cmt
Mercury	0.0519	0.0161		mg/Kg-dry	1	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B				Analyst: bda
1,2,4-Trichlorobenzene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
1,2-Dichlorobenzene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
1,3-Dichlorobenzene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
1,4-Dichlorobenzene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
1-Methylnaphthalene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
2,4-Dinitrotoluene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
2,6-Dinitrotoluene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
2-Chloronaphthalene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
2-Methylnaphthalene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
2-Nitroaniline	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
3-Nitroaniline	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
4-Bromophenyl phenyl ether	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
4-Chloroaniline	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-05

Client Sample ID: HA6-S-0.5
Collection Date: 3/22/2012 1:10:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bda
4-Chlorophenyl phenyl ether	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
4-Nitroaniline	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Acenaphthene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Acenaphthylene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Anthracene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Benzo(a)anthracene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Benzo(a)pyrene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Benzo(b)fluoranthene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Benzo(g,h,i)perylene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Benzo(k)fluoranthene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Benzoic acid	ND	770		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Benzyl alcohol	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Bis(2-chloroethoxy)methane	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Bis(2-chloroethyl)ether	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Bis(2-chloroisopropyl)ether	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Bis(2-ethylhexyl)phthalate	459	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Butyl benzyl phthalate	777	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Chrysene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Di-n-butyl phthalate	91.6	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Di-n-octyl phthalate	281	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Dibenz(a,h)anthracene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Dibenzofuran	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Diethyl phthalate	41.2	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Dimethyl phthalate	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Fluoranthene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Fluorene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Hexachlorobenzene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Hexachlorobutadiene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Hexachlorocyclopentadiene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Hexachloroethane	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Indeno(1,2,3-cd)pyrene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Isophorone	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
N-Nitrosodi-n-propylamine	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
N-nitrosodimethylamine	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
N-Nitrosodiphenylamine	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Naphthalene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Nitrobenzene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Phenanthrene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Pyrene	ND	38.5		µg/Kg-dry	1	3/28/2012 1:16:00 PM
Surr: 2-Fluorobiphenyl	184	52.6-93.2	S	%REC	1	3/28/2012 1:16:00 PM
Surr: 4-Terphenyl-d14	94.8	49.8-118		%REC	1	3/28/2012 1:16:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-05

Client Sample ID: HA6-S-0.5
Collection Date: 3/22/2012 1:10:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B				Analyst: bda
Surr: Nitrobenzene-d5	99.3	44.8-103		%REC	1	3/28/2012 1:16:00 PM
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.385		µg/Kg-dry	1	3/28/2012
Aroclor 1221	ND	0.385		µg/Kg-dry	1	3/28/2012
Aroclor 1232	ND	0.385		µg/Kg-dry	1	3/28/2012
Aroclor 1242	16.9	0.385		µg/Kg-dry	1	3/28/2012
Aroclor 1248	ND	0.385		µg/Kg-dry	1	3/28/2012
Aroclor 1254	39.3	0.385		µg/Kg-dry	1	3/29/2012
Aroclor 1260	60.8	0.385		µg/Kg-dry	1	3/28/2012
Aroclor 1262	ND	0.385		µg/Kg-dry	1	3/28/2012
Aroclor 1268	ND	0.385		µg/Kg-dry	1	3/28/2012
Surr: Decachlorobiphenyl	130	56.5-130	S,MI	%REC	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-06

Client Sample ID: HA6-S-1.5
Collection Date: 3/22/2012 1:25:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	62.6	16.9	A1	mg/Kg-dry	1	3/28/2012
Hydraulic Oil	206	56.5		mg/Kg-dry	1	3/28/2012
Lube Oil	ND	56.5	A3	mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	97.8	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	9140	5.65		mg/Kg-dry	1	3/27/2012 5:29:59 PM
Cadmium	1.73	0.113		mg/Kg-dry	1	3/27/2012 5:29:59 PM
Chromium	45.1	0.565		mg/Kg-dry	1	3/27/2012 5:29:59 PM
Copper	182	1.13		mg/Kg-dry	1	3/27/2012 5:29:59 PM
Lead	337	2.26		mg/Kg-dry	1	3/27/2012 5:29:59 PM
Nickel	20.7	0.565		mg/Kg-dry	1	3/27/2012 5:29:59 PM
Zinc	775	1.13	B	mg/Kg-dry	1	3/27/2012 5:29:59 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	224000	4520		µg/Kg-dry	40	3/28/2012 11:10:00 AM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0744	0.0189		mg/Kg-dry	1	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
1,2-Dichlorobenzene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
1,3-Dichlorobenzene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
1,4-Dichlorobenzene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
1-Methylnaphthalene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
2,4-Dinitrotoluene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
2,6-Dinitrotoluene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
2-Chloronaphthalene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
2-Methylnaphthalene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
2-Nitroaniline	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
3-Nitroaniline	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
4-Bromophenyl phenyl ether	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
4-Chloroaniline	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
4-Chlorophenyl phenyl ether	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
4-Nitroaniline	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Acenaphthene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Acenaphthylene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Anthracene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Benz(a)anthracene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Benzo(a)pyrene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Benzo(b)fluoranthene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Benzo(g,h,i)perylene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-06

Client Sample ID: HA6-S-1.5
Collection Date: 3/22/2012 1:25:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bdb
Benzo(k)fluoranthene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Benzoic acid	ND	754		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Benzyl alcohol	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Bis(2-chloroethoxy)methane	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Bis(2-chloroethyl)ether	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Bis(2-chloroisopropyl)ether	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Bis(2-ethylhexyl)phthalate	143	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Butyl benzyl phthalate	201	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Chrysene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Di-n-butyl phthalate	130	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Di-n-octyl phthalate	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Dibenz(a,h)anthracene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Dibenzofuran	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Diethyl phthalate	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Dimethyl phthalate	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Fluoranthene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Fluorene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Hexachlorobenzene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Hexachlorobutadiene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Hexachlorocyclopentadiene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Hexachloroethane	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Isophorone	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
N-Nitrosodi-n-propylamine	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
N-nitrosodimethylamine	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
N-Nitrosodiphenylamine	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Naphthalene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Nitrobenzene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Phenanthrene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Pyrene	ND	37.6		µg/Kg-dry	1	3/28/2012 1:43:00 PM
Surr: 2-Fluorobiphenyl	161	52.6-93.2	S	%REC	1	3/28/2012 1:43:00 PM
Surr: 4-Terphenyl-d14	89.4	49.8-118		%REC	1	3/28/2012 1:43:00 PM
Surr: Nitrobenzene-d5	92.5	44.8-103		%REC	1	3/28/2012 1:43:00 PM
PCB'S IN SOIL SW8082						Analyst: jrp
Aroclor 1016	ND	0.376		µg/Kg-dry	1	3/28/2012
Aroclor 1221	ND	0.376		µg/Kg-dry	1	3/28/2012
Aroclor 1232	ND	0.376		µg/Kg-dry	1	3/28/2012
Aroclor 1242	ND	0.376		µg/Kg-dry	1	3/28/2012
Aroclor 1248	ND	0.376		µg/Kg-dry	1	3/28/2012
Aroclor 1254	39.2	0.376		µg/Kg-dry	1	3/29/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-06

Client Sample ID: HA6-S-1.5
Collection Date: 3/22/2012 1:25:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1260	55.7	0.376		µg/Kg-dry	1	3/28/2012
Aroclor 1262	ND	0.376		µg/Kg-dry	1	3/28/2012
Aroclor 1268	ND	0.376		µg/Kg-dry	1	3/28/2012
Surr: Decachlorobiphenyl	97.1	56.5-130		%REC	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-07

Client Sample ID: HA7-S-0.5
Collection Date: 3/22/2012 2:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID				Analyst: kh
Gasoline	ND	24.6		mg/Kg-dry	1	3/23/2012
Mineral Spirits	ND	24.6		mg/Kg-dry	1	3/23/2012
Kerosene	ND	61.4		mg/Kg-dry	1	3/23/2012
Diesel	ND	61.4		mg/Kg-dry	1	3/23/2012
Lube Oil	Lube Oil	123		mg/Kg-dry	1	3/23/2012
Surr: BFB	99.5	50-150		%REC	1	3/23/2012
Surr: o-Terphenyl	103	50-150		%REC	1	3/23/2012
NWTPH-DX		NWTPH-DX				Analyst: kh
Diesel	35.8	18.4		mg/Kg-dry	1	3/28/2012
Lube Oil	191	61.4		mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	72.9	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP		E6010				Analyst: cmt
Aluminum	13000	5.12		mg/Kg-dry	1	3/26/2012 6:56:14 PM
Cadmium	5.14	0.102		mg/Kg-dry	1	3/26/2012 6:56:14 PM
Chromium	23.8	0.512		mg/Kg-dry	1	3/26/2012 6:56:14 PM
Copper	207	1.02		mg/Kg-dry	1	3/26/2012 6:56:14 PM
Lead	552	2.05		mg/Kg-dry	1	3/26/2012 6:56:14 PM
Nickel	59.6	0.512		mg/Kg-dry	1	3/26/2012 6:56:14 PM
Zinc	1010	1.02		mg/Kg-dry	1	3/26/2012 6:56:14 PM
TOTAL METALS BY ICP/MS		SW6020				Analyst: cmt
Arsenic	ND	16400	Q	µg/Kg-dry	160	3/28/2012 11:57:00 AM
MERCURY, TOTAL		SW7471				Analyst: cmt
Mercury	0.521	0.0162		mg/Kg-dry	1	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B				Analyst: bda
1,2,4-Trichlorobenzene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
1,2-Dichlorobenzene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
1,3-Dichlorobenzene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
1,4-Dichlorobenzene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
1-Methylnaphthalene	146	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
2,4-Dinitrotoluene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
2,6-Dinitrotoluene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
2-Chloronaphthalene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
2-Methylnaphthalene	247	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
2-Nitroaniline	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
3-Nitroaniline	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
4-Bromophenyl phenyl ether	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
4-Chloroaniline	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
4-Chlorophenyl phenyl ether	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-07

Client Sample ID: HA7-S-0.5
Collection Date: 3/22/2012 2:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bda
4-Nitroaniline	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Acenaphthene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Acenaphthylene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Anthracene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Benzo(a)anthracene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Benzo(a)pyrene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Benzo(b)fluoranthene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Benzo(g,h,i)perylene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Benzo(k)fluoranthene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Benzoic acid	ND	819		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Benzyl alcohol	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Bis(2-chloroethoxy)methane	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Bis(2-chloroethyl)ether	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Bis(2-chloroisopropyl)ether	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Bis(2-ethylhexyl)phthalate	483	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Butyl benzyl phthalate	1250	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Chrysene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Di-n-butyl phthalate	88.9	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Di-n-octyl phthalate	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Dibenz(a,h)anthracene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Dibenzofuran	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Diethyl phthalate	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Dimethyl phthalate	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Fluoranthene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Fluorene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Hexachlorobenzene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Hexachlorobutadiene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Hexachlorocyclopentadiene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Hexachloroethane	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Indeno(1,2,3-cd)pyrene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Isophorone	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
N-Nitrosodi-n-propylamine	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
N-nitrosodimethylamine	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
N-Nitrosodiphenylamine	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Naphthalene	268	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Nitrobenzene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Phenanthrene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Pyrene	ND	40.9		µg/Kg-dry	1	3/28/2012 3:03:00 PM
Surr: 2-Fluorobiphenyl	183	52.6-93.2	S	%REC	1	3/28/2012 3:03:00 PM
Surr: 4-Terphenyl-d14	96.6	49.8-118		%REC	1	3/28/2012 3:03:00 PM
Surr: Nitrobenzene-d5	82.1	44.8-103		%REC	1	3/28/2012 3:03:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-07

Client Sample ID: HA7-S-0.5
Collection Date: 3/22/2012 2:15:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.409		µg/Kg-dry	1	3/28/2012
Aroclor 1221	ND	0.409		µg/Kg-dry	1	3/28/2012
Aroclor 1232	ND	0.409		µg/Kg-dry	1	3/28/2012
Aroclor 1242	10.6	0.409		µg/Kg-dry	1	3/28/2012
Aroclor 1248	ND	0.409		µg/Kg-dry	1	3/28/2012
Aroclor 1254	87.6	0.409		µg/Kg-dry	1	3/29/2012
Aroclor 1260	165	0.409		µg/Kg-dry	1	3/28/2012
Aroclor 1262	ND	0.409		µg/Kg-dry	1	3/28/2012
Aroclor 1268	ND	0.409		µg/Kg-dry	1	3/28/2012
Surr: Decachlorobiphenyl	99.7	56.5-130		%REC	1	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-08

Client Sample ID: HA7-S-1.5
Collection Date: 3/22/2012 3:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX						Analyst: kh
Diesel	260	19.0	A1	mg/Kg-dry	1	3/28/2012
Lube Oil	2040	63.4	A2	mg/Kg-dry	1	3/28/2012
Surr: o-Terphenyl	91.3	50-150		%REC	1	3/28/2012
TOTAL METALS BY ICP						Analyst: cmt
		E6010				
Aluminum	14100	5.46		mg/Kg-dry	1	3/27/2012 5:34:27 PM
Cadmium	22.0	0.109		mg/Kg-dry	1	3/27/2012 5:34:27 PM
Chromium	41.4	0.546		mg/Kg-dry	1	3/27/2012 5:34:27 PM
Copper	530	1.09		mg/Kg-dry	1	3/27/2012 5:34:27 PM
Lead	1160	2.19		mg/Kg-dry	1	3/27/2012 5:34:27 PM
Nickel	57.9	0.546		mg/Kg-dry	1	3/27/2012 5:34:27 PM
Zinc	1990	1.09	B	mg/Kg-dry	1	3/27/2012 5:34:27 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
		SW6020				
Arsenic	24800	17500		µg/Kg-dry	160	3/28/2012 12:04:00 PM
MERCURY, TOTAL						Analyst: cmt
		SW7471				
Mercury	1.44	0.0374		mg/Kg-dry	2	3/27/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL						Analyst: bda
		SW8270B				
1,2,4-Trichlorobenzene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
1,2-Dichlorobenzene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
1,3-Dichlorobenzene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
1,4-Dichlorobenzene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
1-Methylnaphthalene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
2,4-Dinitrotoluene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
2,6-Dinitrotoluene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
2-Chloronaphthalene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
2-Methylnaphthalene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
2-Nitroaniline	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
3-Nitroaniline	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
4-Bromophenyl phenyl ether	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
4-Chloroaniline	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
4-Chlorophenyl phenyl ether	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
4-Nitroaniline	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Acenaphthene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Acenaphthylene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Anthracene	63.4	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Benz(a)anthracene	80.7	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Benzo(a)pyrene	278	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Benzo(b)fluoranthene	191	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Benzo(g,h,i)perylene	322	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Benzo(k)fluoranthene	349	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-08

Client Sample ID: HA7-S-1.5
Collection Date: 3/22/2012 3:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL SW8270B						Analyst: bda
Benzoic acid	ND	845		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Benzyl alcohol	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Bis(2-chloroethoxy)methane	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Bis(2-chloroethyl)ether	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Bis(2-chloroisopropyl)ether	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Bis(2-ethylhexyl)phthalate	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Butyl benzyl phthalate	970	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Chrysene	365	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Di-n-butyl phthalate	1420	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Di-n-octyl phthalate	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Dibenz(a,h)anthracene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Dibenzofuran	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Diethyl phthalate	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Dimethyl phthalate	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Fluoranthene	284	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Fluorene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Hexachlorobenzene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Hexachlorobutadiene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Hexachlorocyclopentadiene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Hexachloroethane	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Indeno(1,2,3-cd)pyrene	226	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Isophorone	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
N-Nitrosodi-n-propylamine	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
N-nitrosodimethylamine	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
N-Nitrosodiphenylamine	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Naphthalene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Nitrobenzene	ND	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Phenanthrene	147	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Pyrene	406	42.2		µg/Kg-dry	1	3/28/2012 3:30:00 PM
Surr: 2-Fluorobiphenyl	191	52.6-93.2	S	%REC	1	3/28/2012 3:30:00 PM
Surr: 4-Terphenyl-d14	107	49.8-118		%REC	1	3/28/2012 3:30:00 PM
Surr: Nitrobenzene-d5	83.2	44.8-103		%REC	1	3/28/2012 3:30:00 PM
PCB'S IN SOIL SW8082						Analyst: jrp
Aroclor 1016	ND	2.11	Q	µg/Kg-dry	5	3/28/2012
Aroclor 1221	ND	2.11	Q	µg/Kg-dry	5	3/28/2012
Aroclor 1232	ND	2.11	Q	µg/Kg-dry	5	3/28/2012
Aroclor 1242	84.5	2.11		µg/Kg-dry	5	3/28/2012
Aroclor 1248	ND	2.11	Q	µg/Kg-dry	5	3/28/2012
Aroclor 1254	334	2.11		µg/Kg-dry	5	3/29/2012
Aroclor 1260	570	2.11		µg/Kg-dry	5	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-08

Client Sample ID: HA7-S-1.5
Collection Date: 3/22/2012 3:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1262	ND	2.11	Q	µg/Kg-dry	5	3/28/2012
Aroclor 1268	ND	2.11	Q	µg/Kg-dry	5	3/28/2012
Surr: Decachlorobiphenyl	304	56.5-130	S,MI	%REC	5	3/28/2012

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-09

Client Sample ID: GP10-W-10
Collection Date: 3/22/2012 10:45:00 AM

Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	0.0963	0.0805		mg/L	1	3/27/2012
Lube Oil	0.304	0.201	A2	mg/L	1	3/27/2012
Surr: o-Terphenyl	86.3	50-150		%REC	1	3/27/2012
NWTPH-GX		NWTPH-GX		Analyst: jrp		
Gasoline	ND	100		µg/L	1	3/26/2012
Surr: 4-Bromofluorobenzene	96.5	50-150		%REC	1	3/26/2012
DISSOLVED METALS BY ICP		6010A		Analyst: cmt		
Aluminum	0.808	0.0500		mg/L	1	3/26/2012 2:27:53 PM
Cadmium	ND	0.00100		mg/L	1	3/26/2012 2:27:53 PM
Chromium	ND	0.00500		mg/L	1	3/26/2012 2:27:53 PM
Copper	ND	0.0100		mg/L	1	3/26/2012 2:27:53 PM
Lead	ND	0.0200		mg/L	1	3/26/2012 2:27:53 PM
Nickel	ND	0.00500		mg/L	1	3/26/2012 2:27:53 PM
Zinc	0.0687	0.0100		mg/L	1	3/26/2012 2:27:53 PM
DISSOLVED METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	ND	0.100		ug/L	1	3/26/2012 3:37:00 PM
DISSOLVED MERCURY		E7470A		Analyst: cmt		
Mercury	ND	0.0001		mg/L	1	3/24/2012
LOW LEVEL PAH BY GC/MS		8270SIM		Analyst: bda		
1-Methylnaphthalene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
2-Methylnaphthalene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Acenaphthene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Acenaphthylene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Anthracene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Benz(a)anthracene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Benzo(a)pyrene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Benzo(b)fluoranthene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Benzo(g,h,i)perylene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Benzo(k)fluoranthene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Chrysene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Dibenz(a,h)anthracene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Fluoranthene	0.0599	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Fluorene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Naphthalene	0.110	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Phenanthrene	0.110	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Pyrene	0.0499	0.0499		µg/L	1	3/26/2012 3:11:00 PM
Surr: 2-Fluorobiphenyl	65.2	18.6-106		%REC	1	3/26/2012 3:11:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-09

Client Sample ID: GP10-W-10
Collection Date: 3/22/2012 10:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
LOW LEVEL PAH BY GC/MS		8270SIM				Analyst: bda
Surr: Nitrobenzene-d5	61.1	17-130		%REC	1	3/26/2012 3:11:00 PM
Surr: p-Terphenyl-d14	80.6	39.6-131		%REC	1	3/26/2012 3:11:00 PM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rk
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
2-Butanone	ND	10.0		µg/L	1	3/26/2012 9:26:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/26/2012 9:26:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/26/2012 9:26:00 PM
Acetone	ND	50.0		µg/L	1	3/26/2012 9:26:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/26/2012 9:26:00 PM
Benzene	ND	0.300		µg/L	1	3/26/2012 9:26:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Bromoform	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Bromomethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/26/2012 9:26:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-09

Client Sample ID: GP10-W-10
Collection Date: 3/22/2012 10:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Chlorobenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Chloroethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Chloroform	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Chloromethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/26/2012 9:26:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/26/2012 9:26:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Naphthalene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
o-Xylene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Styrene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Toluene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/26/2012 9:26:00 PM
Surr: 1,2-Dichloroethane-d4	95.8	72.2-129		%REC	1	3/26/2012 9:26:00 PM
Surr: 4-Bromofluorobenzene	97.6	73.5-125		%REC	1	3/26/2012 9:26:00 PM
Surr: Dibromofluoromethane	99.5	58.8-148		%REC	1	3/26/2012 9:26:00 PM
Surr: Toluene-d8	104	79.8-137		%REC	1	3/26/2012 9:26:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-10

Client Sample ID: GP11-W-8
Collection Date: 3/22/2012 11:42:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	100		µg/L	1	3/26/2012
Surr: 4-Bromofluorobenzene	96.4	50-150		%REC	1	3/26/2012
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
2-Butanone	ND	10.0		µg/L	1	3/26/2012 10:00:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/26/2012 10:00:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/L	1	3/26/2012 10:00:00 PM
Acetone	ND	50.0		µg/L	1	3/26/2012 10:00:00 PM
Acrylonitrile	ND	5.00		µg/L	1	3/26/2012 10:00:00 PM
Benzene	ND	0.300		µg/L	1	3/26/2012 10:00:00 PM
Bromobenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Bromochloromethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Bromoform	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Bromomethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Carbon disulfide	ND	2.00		µg/L	1	3/26/2012 10:00:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM

Specialty Analytical

Date: 03-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203227
Project: Kelso IPG / 0443.02.02
Lab ID: 1203227-10

Client Sample ID: GP11-W-8
Collection Date: 3/22/2012 11:42:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: rkg
Chlorobenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Chloroethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Chloroform	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Chloromethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Dibromomethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Ethylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
m,p-Xylene	ND	2.00		µg/L	1	3/26/2012 10:00:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Methylene chloride	ND	20.0		µg/L	1	3/26/2012 10:00:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Naphthalene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
o-Xylene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Styrene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Toluene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Trichloroethene	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Vinyl chloride	ND	1.00		µg/L	1	3/26/2012 10:00:00 PM
Surr: 1,2-Dichloroethane-d4	96.2	72.2-129		%REC	1	3/26/2012 10:00:00 PM
Surr: 4-Bromofluorobenzene	98.4	73.5-125		%REC	1	3/26/2012 10:00:00 PM
Surr: Dibromofluoromethane	101	58.8-148		%REC	1	3/26/2012 10:00:00 PM
Surr: Toluene-d8	104	79.8-137		%REC	1	3/26/2012 10:00:00 PM

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MBLK-31129	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326F						
Client ID: ZZZZZ	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Lead	ND	2.00									
Nickel	ND	0.500									
Zinc	ND	1.00									

Sample ID: MBLK-31145	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/27/2012	Run ID: TJA IRIS_120327D						
Client ID: ZZZZZ	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825647						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Lead	ND	2.00									
Nickel	ND	0.500									
Zinc	8.68	1.00									

Sample ID: LCS-31129	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326F						
Client ID: ZZZZZ	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	243.5	5.00	250	0	97.4	80	120	0	0		
Cadmium	4.77	0.100	5	0	95.4	87.2	109	0	0		
Chromium	25.05	0.500	25	0	100	84	113	0	0		
Copper	47.12	1.00	50	0	94.2	91.3	111	0	0		
Lead	95.82	2.00	100	0	95.8	84.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-31129	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326F						
Client ID: ZZZZZ	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	23.73	0.500	25	0	94.9	85.5	112	0	0		
Zinc	48.15	1.00	50	0	96.3	86.8	112	0	0		

Sample ID: LCS-31145	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/27/2012	Run ID: TJA IRIS_120327D						
Client ID: ZZZZZ	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825648						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	233.3	5.00	250	0	93.3	80	120	0	0		
Cadmium	4.69	0.100	5	0	93.8	87.2	109	0	0		
Chromium	24.41	0.500	25	0	97.6	84	113	0	0		
Copper	46.26	1.00	50	0	92.5	91.3	111	0	0		
Lead	94.4	2.00	100	0	94.4	84.9	109	0	0		
Nickel	23.78	0.500	25	0	95.1	85.5	112	0	0		
Zinc	51.53	1.00	50	0	103	86.8	112	0	0		B

Sample ID: 1203227-05CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326F						
Client ID: HA6-S-0.5	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825353						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	16500	5.35	267.3	11710	1790	75	125	0	0		S,MI
Cadmium	7.099	0.107	5.346	1.807	99	86.4	113	0	0		
Chromium	73.8	0.535	26.73	25.81	180	75	121	0	0		S,RP
Copper	154.2	1.07	53.46	111.1	80.6	75.1	126	0	0		
Lead	311.4	2.14	106.9	237.6	69	84.9	109	0	0		S,RP
Nickel	81.01	0.535	26.73	43.01	142	89.3	105	0	0		S,RP
Zinc	481.2	1.07	53.46	451.3	56	86.2	113	0	0		S,MI

Sample ID: 1203227-02CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: TJA IRIS_120327D						
Client ID: HA4-S-1.5	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1203227-02CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: TJA IRIS_120327D						
Client ID: HA4-S-1.5	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	24170	5.53	276.3	18470	2060	75	125	0	0		S,MI
Cadmium	5.195	0.111	5.526	0.5641	83.8	86.4	113	0	0		S,RP
Chromium	41.84	0.553	27.63	15.62	94.9	75	121	0	0		
Copper	90.89	1.11	55.26	60.5	55	75.1	126	0	0		S,RP
Lead	130.2	2.21	110.5	78.28	47	84.9	109	0	0		S,RP
Nickel	36.63	0.553	27.63	12.14	88.6	89.3	105	0	0		S,RP
Zinc	195.8	1.11	55.26	274.5	-142	86.2	113	0	0		B,S,RP

Sample ID: 1203227-05CMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326F						
Client ID: HA6-S-0.5	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825354						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	16890	5.35	267.3	11710	1940	75	125	16500	2.37	20	S,MI
Cadmium	7.174	0.107	5.346	1.807	100	86.4	113	7.099	1.05	20	
Chromium	75.58	0.535	26.73	25.81	186	75	121	73.8	2.39	20	S,RP
Copper	157.8	1.07	53.46	111.1	87.4	75.1	126	154.2	2.33	20	
Lead	315.2	2.14	106.9	237.6	72.6	84.9	109	311.4	1.23	20	S,RP
Nickel	81.84	0.535	26.73	43.01	145	89.3	105	81.01	1.01	20	S,RP
Zinc	486.8	1.07	53.46	451.3	66.4	86.2	113	481.2	1.15	20	S,MI

Sample ID: 1203227-02CMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: TJA IRIS_120327D						
Client ID: HA4-S-1.5	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825652						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	24270	5.53	276.3	18470	2100	75	125	24170	0.411	20	S,MI
Cadmium	5.106	0.111	5.526	0.5641	82.2	86.4	113	5.195	1.72	20	S,RP
Chromium	41.72	0.553	27.63	15.62	94.5	75	121	41.84	0.291	20	
Copper	91.47	1.11	55.26	60.5	56	75.1	126	90.89	0.630	20	S,RP
Lead	126.8	2.21	110.5	78.28	43.9	84.9	109	130.2	2.67	20	S,RP
Nickel	36.15	0.553	27.63	12.14	86.9	89.3	105	36.63	1.31	20	S,RP
Zinc	194.5	1.11	55.26	274.5	-145	86.2	113	195.8	0.680	20	BS,RP

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1203227-05CDUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326F						
Client ID: HA6-S-0.5	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825352						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	12320	5.35	0	0	0	0	0	11710	5.07	20	
Cadmium	1.935	0.107	0	0	0	0	0	1.807	6.86	20	
Chromium	26.9	0.535	0	0	0	0	0	25.81	4.14	20	
Copper	117.5	1.07	0	0	0	0	0	111.1	5.61	20	
Lead	252.9	2.14	0	0	0	0	0	237.6	6.24	20	
Nickel	45.98	0.535	0	0	0	0	0	43.01	6.66	20	
Zinc	478.9	1.07	0	0	0	0	0	451.3	5.93	20	

Sample ID: 1203227-02CDUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: TJA IRIS_120327D						
Client ID: HA4-S-1.5	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	18950	6.41	0	0	0	0	0	18470	2.54	20	
Cadmium	0.5897	0.128	0	0	0	0	0	0.5641	4.44	20	
Chromium	16.29	0.641	0	0	0	0	0	15.62	4.26	20	
Copper	61.03	1.28	0	0	0	0	0	60.5	0.865	20	
Lead	79.05	2.56	0	0	0	0	0	78.28	0.978	20	
Nickel	12.68	0.641	0	0	0	0	0	12.14	4.34	20	
Zinc	282.3	1.28	0	0	0	0	0	274.5	2.81	20	B

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120326F						
Client ID: ZZZZZ	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	238.8	5.00	250	0	95.5	90	110	0	0		
Cadmium	4.86	0.100	5	0	97.2	90	110	0	0		
Chromium	24.76	0.500	25	0	99	90	110	0	0		
Copper	47.14	1.00	50	0	94.3	90	110	0	0		
Lead	97.39	2.00	100	0	97.4	90	110	0	0		
Nickel	24.36	0.500	25	0	97.4	90	110	0	0		
Zinc	49.01	1.00	50	0	98	90	110	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120326F					
Client ID: ZZZZZ	Batch ID: 31129	TestNo: E6010			Analysis Date: 3/26/2012	SeqNo: 825357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	252.7	5.00	250	0	101	90	110	0	0		
Cadmium	5.17	0.100	5	0	103	90	110	0	0		
Chromium	26.05	0.500	25	0	104	90	110	0	0		
Copper	50.54	1.00	50	0	101	90	110	0	0		
Lead	102.6	2.00	100	0	103	90	110	0	0		
Nickel	25.86	0.500	25	0	103	90	110	0	0		
Zinc	51.42	1.00	50	0	103	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120326F					
Client ID: ZZZZZ	Batch ID: 31129	TestNo: E6010			Analysis Date: 3/26/2012	SeqNo: 825362					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	256.4	5.00	250	0	103	90	110	0	0		
Cadmium	5.23	0.100	5	0	105	90	110	0	0		
Chromium	26.8	0.500	25	0	107	90	110	0	0		
Copper	52.41	1.00	50	0	105	90	110	0	0		
Lead	104.6	2.00	100	0	105	90	110	0	0		
Nickel	26.81	0.500	25	0	107	90	110	0	0		
Zinc	53.07	1.00	50	0	106	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg		Prep Date:	Run ID: TJA IRIS_120327D					
Client ID: ZZZZZ	Batch ID: 31145	TestNo: E6010			Analysis Date: 3/27/2012	SeqNo: 825646					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	231.9	5.00	250	0	92.8	90	110	0	0		
Cadmium	4.74	0.100	5	0	94.8	90	110	0	0		
Chromium	24.01	0.500	25	0	96	90	110	0	0		
Copper	45.49	1.00	50	0	91	90	110	0	0		
Lead	92.73	2.00	100	0	92.7	90	110	0	0		
Nickel	23.72	0.500	25	0	94.9	90	110	0	0		
Zinc	46.75	1.00	50	0	93.5	90	110	0	0		B

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120327D						
Client ID: ZZZZZ	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	230.4	5.00	250	0	92.2	90	110	0	0		
Cadmium	4.66	0.100	5	0	93.2	90	110	0	0		
Chromium	23.91	0.500	25	0	95.6	90	110	0	0		
Copper	45.56	1.00	50	0	91.1	90	110	0	0		
Lead	92.04	2.00	100	0	92	90	110	0	0		
Nickel	23.25	0.500	25	0	93	90	110	0	0		
Zinc	46.83	1.00	50	0	93.7	90	110	0	0		B

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120327D						
Client ID: ZZZZZ	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825659						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	237.9	5.00	250	0	95.2	90	110	0	0		
Cadmium	4.8	0.100	5	0	96	90	110	0	0		
Chromium	24.75	0.500	25	0	99	90	110	0	0		
Copper	46.88	1.00	50	0	93.8	90	110	0	0		
Lead	96.19	2.00	100	0	96.2	90	110	0	0		
Nickel	24.23	0.500	25	0	96.9	90	110	0	0		
Zinc	48.6	1.00	50	0	97.2	90	110	0	0		B

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120326F						
Client ID: ZZZZZ	Batch ID: 31129	TestNo: E6010		Analysis Date: 3/26/2012	SeqNo: 825347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	249.2	5.00	250	0	99.7	90	110	0	0		
Cadmium	5.12	0.100	5	0	102	90	110	0	0		
Chromium	25.83	0.500	25	0	103	90	110	0	0		
Copper	50.63	1.00	50	0	101	90	110	0	0		
Lead	100.6	2.00	100	0	101	90	110	0	0		
Nickel	25.62	0.500	25	0	102	90	110	0	0		
Zinc	50.65	1.00	50	0	101	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120327D						
Client ID: ZZZZZ	Batch ID: 31145	TestNo: E6010		Analysis Date: 3/27/2012	SeqNo: 825645						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	246.5	5.00	250	0	98.6	90	110	0	0		
Cadmium	5.03	0.100	5	0	101	90	110	0	0		
Chromium	25.81	0.500	25	0	103	90	110	0	0		
Copper	49.84	1.00	50	0	99.7	90	110	0	0		
Lead	99.63	2.00	100	0	99.6	90	110	0	0		
Nickel	25.48	0.500	25	0	102	90	110	0	0		
Zinc	50.91	1.00	50	0	102	90	110	0	0		B

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDIS

Sample ID: 1203227-09EMS	SampType: MS	TestCode: 6010_WDIS	Units: mg/L	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326C						
Client ID: GP10-W-10	Batch ID: 31126	TestNo: 6010A		Analysis Date: 3/26/2012	SeqNo: 825328						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	3.804	0.0500	2.5	0.8077	120	83.8	125	0	0		
Cadmium	0.0736	0.00100	0.05	0	147	93.4	110	0	0		S,MI
Chromium	0.3707	0.00500	0.25	0.0044	147	93.4	112	0	0		S,MI
Copper	0.6491	0.0100	0.5	0.0077	128	92.7	114	0	0		S,MI
Lead	1.071	0.0200	1	0	107	91.9	112	0	0		
Nickel	0.3645	0.00500	0.25	0	146	88.5	112	0	0		S,MI
Zinc	0.7998	0.0100	0.5	0.0687	146	93	110	0	0		S,MI

Sample ID: 1203227-09EMSD	SampType: MSD	TestCode: 6010_WDIS	Units: mg/L	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326C						
Client ID: GP10-W-10	Batch ID: 31126	TestNo: 6010A		Analysis Date: 3/26/2012	SeqNo: 825329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	3.748	0.0500	2.5	0.8077	118	83.8	125	3.804	1.48	20	
Cadmium	0.0747	0.00100	0.05	0	149	93.4	110	0.0736	1.48	20	S,MI
Chromium	0.3773	0.00500	0.25	0.0044	149	93.4	112	0.3707	1.76	20	S,MI
Copper	0.6667	0.0100	0.5	0.0077	132	92.7	114	0.6491	2.68	20	S,MI
Lead	1.062	0.0200	1	0	106	91.9	112	1.071	0.844	20	
Nickel	0.3761	0.00500	0.25	0	150	88.5	112	0.3645	3.13	20	S,MI
Zinc	0.8151	0.0100	0.5	0.0687	149	93	110	0.7998	1.89	20	S,MI

Sample ID: 1203227-09EDUP	SampType: DUP	TestCode: 6010_WDIS	Units: mg/L	Prep Date: 3/26/2012	Run ID: TJA IRIS_120326C						
Client ID: GP10-W-10	Batch ID: 31126	TestNo: 6010A		Analysis Date: 3/26/2012	SeqNo: 825327						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	0.7656	0.0500	0	0	0	0	0	0.8077	5.35	20	
Cadmium	ND	0.00100	0	0	0	0	0	0	0	20	
Chromium	ND	0.00500	0	0	0	0	0	0.0044	0	20	
Copper	0.0047	0.0100	0	0	0	0	0	0.0077	0	20	J
Lead	ND	0.0200	0	0	0	0	0	0	0	20	
Nickel	0.0032	0.00500	0	0	0	0	0	0	0	20	J
Zinc	0.0705	0.0100	0	0	0	0	0	0.0687	2.59	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDIS

Sample ID: CCV		SampType: CCV		TestCode: 6010_WDIS		Units: mg/L		Prep Date:		Run ID: TJA IRIS_120326C		
Client ID: ZZZZZ		Batch ID: 31126		TestNo: 6010A				Analysis Date: 3/26/2012		SeqNo: 825332		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	2.504	0.0500	2.5	0	100	90	110	0	0			
Cadmium	0.0516	0.00100	0.05	0	103	90	110	0	0			
Chromium	0.2619	0.00500	0.25	0	105	90	110	0	0			
Copper	0.4914	0.0100	0.5	0	98.3	90	110	0	0			
Lead	1.027	0.0200	1	0	103	90	110	0	0			
Nickel	0.2601	0.00500	0.25	0	104	90	110	0	0			
Zinc	0.5157	0.0100	0.5	0	103	90	110	0	0			

Sample ID: ICB-31126		SampType: ICB		TestCode: 6010_WDIS		Units: mg/L		Prep Date: 3/26/2012		Run ID: TJA IRIS_120326C		
Client ID: ZZZZZ		Batch ID: 31126		TestNo: 6010A				Analysis Date: 3/26/2012		SeqNo: 825325		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	ND	0.0500	0	0	0	0	0	0	0			
Cadmium	ND	0.00100	0	0	0	0	0	0	0			
Chromium	ND	0.00500	0	0	0	0	0	0	0			
Copper	ND	0.0100	0	0	0	0	0	0	0			
Lead	ND	0.0200	0	0	0	0	0	0	0			
Nickel	ND	0.00500	0	0	0	0	0	0	0			
Zinc	ND	0.0100	0	0	0	0	0	0	0			

Sample ID: ICV		SampType: ICV		TestCode: 6010_WDIS		Units: mg/L		Prep Date:		Run ID: TJA IRIS_120326C		
Client ID: ZZZZZ		Batch ID: 31126		TestNo: 6010A				Analysis Date: 3/26/2012		SeqNo: 825324		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	2.492	0.0500	2.5	0	99.7	90	110	0	0			
Cadmium	0.0512	0.00100	0.05	0	102	90	110	0	0			
Chromium	0.2583	0.00500	0.25	0	103	90	110	0	0			
Copper	0.5063	0.0100	0.5	0	101	90	110	0	0			
Lead	1.006	0.0200	1	0	101	90	110	0	0			
Nickel	0.2562	0.00500	0.25	0	102	90	110	0	0			
Zinc	0.5065	0.0100	0.5	0	101	90	110	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: MBLK-31133	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/26/2012	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825664						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 100

Sample ID: MBLK-31146	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825686						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 100

Sample ID: LCS-31133	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/26/2012	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825665						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 4900 100 5000 0 98 75 115 0 0

Sample ID: LCS-31146	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 4748 100 5000 0 95 75 115 0 0

Sample ID: 1203227-05CMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/26/2012	Run ID: ICPMS_120327C						
Client ID: HA6-S-0.5	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825678						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 34300 2140 5346 37290 -56 70 130 0 0 S,MC

Sample ID: 1203227-02CMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: ICPMS_120327A						
Client ID: HA4-S-1.5	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825690						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: 1203227-02CMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: ICPMS_120327A						
Client ID: HA4-S-1.5	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825690						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6479	1190	5935	2897	60.3	70	130	0	0		S

Sample ID: 1203227-05CMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/26/2012	Run ID: ICPMS_120327C						
Client ID: HA6-S-0.5	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825679						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	34040	2140	5346	37290	-60.8	70	130	34300	0.751	20	S,MC

Sample ID: 1203227-02CMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: ICPMS_120327A						
Client ID: HA4-S-1.5	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825691						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6552	1190	5935	2897	61.6	70	130	6479	1.11	20	S

Sample ID: 1203227-05CDUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/26/2012	Run ID: ICPMS_120327C						
Client ID: HA6-S-0.5	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825677						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	38130	2140	0	0	0	0	0	37290	2.21	20	

Sample ID: 1203227-02CDUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: ICPMS_120327A						
Client ID: HA4-S-1.5	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825689						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2868	1280	0	0	0	0	0	2897	1.02	20	

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825668						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825668						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4820	100	5000	0	96.4	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4878	100	5000	0	97.6	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4782	100	5000	0	95.6	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825683						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4888	100	5000	0	97.8	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825685						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4878	100	5000	0	97.6	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic											

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4782	100	5000	0	95.6	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4857	100	5000	0	97.1	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825725						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4854	100	5000	0	97.1	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825728						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4857	100	5000	0	97.1	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825730						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4854	100	5000	0	97.1	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825663						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825663						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4935	100	5000	0	98.7	90	110	0	0
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/27/2012	SeqNo: 825684						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4935	100	5000	0	98.7	90	110	0	0
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327C						
Client ID: ZZZZZ	Batch ID: 31133	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4939	100	5000	0	98.8	90	110	0	0
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120327A						
Client ID: ZZZZZ	Batch ID: 31146	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825726						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4939	100	5000	0	98.8	90	110	0	0
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Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: 1203227-09EMS	SampType: MS	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: GP10-W-10	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	43.35	0.100	50	0.05978	86.6	70	130	0	0		

Sample ID: 1203227-09EMSD	SampType: MSD	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: GP10-W-10	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825189						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.23	0.100	50	0.05978	90.3	70	130	43.35	4.24	20	

Sample ID: 1203227-09EDUP	SampType: DUP	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: GP10-W-10	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825187						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.05208	0.100	0	0	0	0	0	0.05978	0	20	J

Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS	Units: ug/L	Prep Date:	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825184						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.88	0.100	50	0	97.8	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS	Units: ug/L	Prep Date:	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.8	0.100	50	0	102	90	110	0	0		

Sample ID: ICB-31125	SampType: ICB	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: ICB-31125	SampType: ICB	TestCode: 6020_WDISS	Units: ug/L	Prep Date: 3/26/2012	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.100	0	0	0	0	0	0	0	0
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Sample ID: ICV	SampType: ICV	TestCode: 6020_WDISS	Units: ug/L	Prep Date:	Run ID: ICPMS_120326B						
Client ID: ZZZZZ	Batch ID: 31125	TestNo: SW6020		Analysis Date: 3/26/2012	SeqNo: 825183						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	51.22	0.100	50	0	102	90	110	0	0
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-31149	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: GCK_120328A						
Client ID: ZZZZZ	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/28/2012	SeqNo: 825929						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	7163	0	6667	0	107	56.5	130	0	0		

Sample ID: MB-31149	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: GCK_120328A						
Client ID: ZZZZZ	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/29/2012	SeqNo: 825943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1254	ND	0.333									
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Sample ID: LCS-31149	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: GCK_120328A						
Client ID: ZZZZZ	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/28/2012	SeqNo: 825930						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	58.67	0.333	66.67	0	88	44.3	137	0	0		
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Sample ID: 1203227-02CMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: GCK_120328A						
Client ID: HA4-S-1.5	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/28/2012	SeqNo: 825931						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	69.23	0.427	85.47	0	81	56.6	123	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: 1203227-02CMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: GCK_120328A						
Client ID: HA4-S-1.5	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/28/2012	SeqNo: 825932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	65.81	0.427	85.47	0	77	56.6	123	69.23	5.06	20	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_120328A						
Client ID: ZZZZZ	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/28/2012	SeqNo: 825928						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	58.67	0.333	66.67	0	88	85	115	0	0		
Aroclor 1242	66.67	0.333	66.67	0	100	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_120328A						
Client ID: ZZZZZ	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/28/2012	SeqNo: 825941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	70.67	0.333	66.67	0	106	85	115	0	0		
Aroclor 1242	64	0.333	66.67	0	96	85	115	0	0		
Aroclor 1260	76	0.333	66.67	0	114	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_120328A						
Client ID: ZZZZZ	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/29/2012	SeqNo: 825942						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_120328A						
Client ID: ZZZZZ	Batch ID: 31149	TestNo: SW8082		Analysis Date: 3/29/2012	SeqNo: 825951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	62.67	0.333	66.67	0	94	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MBLK-31138	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 3/26/2012	Run ID: 5973L_120326A
Client ID: ZZZZZ	Batch ID: 31138	TestNo: SW8260B		Analysis Date: 3/26/2012	SeqNo: 825366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	1.00									
1,2,3-Trichlorobenzene	0.26	1.00									J
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	0.17	1.00									J
1,2,4-Trimethylbenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2-Dibromoethane	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3,5-Trimethylbenzene	ND	1.00									
1,3-Dichlorobenzene	ND	1.00									
1,3-Dichloropropane	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2,2-Dichloropropane	ND	1.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	1.00									
2-Hexanone	ND	10.0									
4-Chlorotoluene	ND	1.00									
4-Isopropyltoluene	ND	1.00									
4-Methyl-2-pentanone	ND	20.0									
Acetone	ND	50.0									
Acrylonitrile	ND	5.00									
Benzene	ND	0.300									
Bromobenzene	ND	1.00									

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MBLK-31138	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 3/26/2012	Run ID: 5973L_120326A						
Client ID: ZZZZZ	Batch ID: 31138	TestNo: SW8260B		Analysis Date: 3/26/2012	SeqNo: 825366						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromochloromethane	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon disulfide	ND	2.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
Dibromochloromethane	ND	1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	1.00									
Ethylbenzene	ND	1.00									
Hexachlorobutadiene	0.4	1.00									J
Isopropylbenzene	ND	1.00									
m,p-Xylene	ND	2.00									
Methyl tert-butyl ether	ND	1.00									
Methylene chloride	ND	20.0									
n-Butylbenzene	ND	1.00									
n-Propylbenzene	ND	1.00									
Naphthalene	0.51	1.00									J
o-Xylene	ND	1.00									
sec-Butylbenzene	ND	1.00									
Styrene	ND	1.00									
tert-Butylbenzene	ND	1.00									
Tetrachloroethene	ND	1.00									
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MBLK-31138		SampType: MBLK		TestCode: 8260_W		Units: µg/L		Prep Date: 3/26/2012		Run ID: 5973L_120326A	
Client ID: ZZZZZ		Batch ID: 31138		TestNo: SW8260B				Analysis Date: 3/26/2012		SeqNo: 825366	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr: 1,2-Dichloroethane-d4	97.57	0	100	0	97.6	72.2	129	0	0		
Surr: 4-Bromofluorobenzene	97.99	0	100	0	98	73.5	125	0	0		
Surr: Dibromofluoromethane	103.5	0	100	0	104	58.8	148	0	0		
Surr: Toluene-d8	105.5	0	100	0	106	79.8	137	0	0		

Sample ID: LCS-31138		SampType: LCS		TestCode: 8260_W		Units: µg/L		Prep Date: 3/26/2012		Run ID: 5973L_120326A	
Client ID: ZZZZZ		Batch ID: 31138		TestNo: SW8260B				Analysis Date: 3/26/2012		SeqNo: 825365	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	40.1	1.00	40	0	100	69.9	130	0	0		
Benzene	40.47	0.300	40	0	101	77.9	125	0	0		
Chlorobenzene	41.03	1.00	40	0	103	82.5	114	0	0		
Toluene	44.32	1.00	40	0	111	74.6	119	0	0		
Trichloroethene	41.87	1.00	40	0	105	74.7	125	0	0		

Sample ID: 1203215-04CMS		SampType: MS		TestCode: 8260_W		Units: µg/L		Prep Date: 3/26/2012		Run ID: 5973L_120326A	
Client ID: ZZZZZ		Batch ID: 31138		TestNo: SW8260B				Analysis Date: 3/27/2012		SeqNo: 825383	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.43	1.00	40	0	96.1	51.4	176	0	0		
Benzene	39.01	0.300	40	0	97.5	71.5	118	0	0		
Chlorobenzene	41.2	1.00	40	0	103	79.8	114	0	0		
Toluene	42.47	1.00	40	0.13	106	79.6	121	0	0		
Trichloroethene	43.2	1.00	40	0.4	107	73.6	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 1203215-04CMSD	SampType: MSD	TestCode: 8260_W	Units: µg/L	Prep Date: 3/26/2012	Run ID: 5973L_120326A						
Client ID: ZZZZZ	Batch ID: 31138	TestNo: SW8260B		Analysis Date: 3/27/2012	SeqNo: 825384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	50.95	1.00	40	0	127	51.4	176	38.43	28.0	20	R
Benzene	38.41	0.300	40	0	96	71.5	118	39.01	1.55	20	
Chlorobenzene	40.81	1.00	40	0	102	79.8	114	41.2	0.951	20	
Toluene	41.78	1.00	40	0.13	104	79.6	121	42.47	1.64	20	
Trichloroethene	41.55	1.00	40	0.4	103	73.6	120	43.2	3.89	20	

Sample ID: CCV-31138	SampType: CCV	TestCode: 8260_W	Units: µg/L	Prep Date:	Run ID: 5973L_120326A						
Client ID: ZZZZZ	Batch ID: 31138	TestNo: SW8260B		Analysis Date: 3/26/2012	SeqNo: 825364						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	36.08	0.500	40	0	90.2	80	120	0	0		
1,2-Dichloropropane	38.15	0.300	40	0	95.4	80	120	0	0		
Chloroform	39.09	0.300	40	0	97.7	80	120	0	0		
Ethylbenzene	40.82	0.500	40	0	102	80	120	0	0		
Toluene	42.48	0.500	40	0	106	80	120	0	0		
Vinyl Chloride	33.42	0.300	40	0	83.6	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31148	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825733

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	33.3									
1,2-Dichlorobenzene	ND	33.3									
1,3-Dichlorobenzene	ND	33.3									
1,4-Dichlorobenzene	ND	33.3									
1-Methylnaphthalene	ND	33.3									
2,4-Dinitrotoluene	ND	33.3									
2,6-Dinitrotoluene	ND	33.3									
2-Chloronaphthalene	ND	33.3									
2-Methylnaphthalene	ND	33.3									
2-Nitroaniline	ND	33.3									
3-Nitroaniline	ND	33.3									
4-Bromophenyl phenyl ether	ND	33.3									
4-Chloroaniline	ND	33.3									
4-Chlorophenyl phenyl ether	ND	33.3									
4-Nitroaniline	ND	33.3									
Acenaphthene	ND	33.3									
Acenaphthylene	ND	33.3									
Anthracene	ND	33.3									
Benzo(a)anthracene	ND	33.3									
Benzo(a)pyrene	ND	33.3									
Benzo(b)fluoranthene	ND	33.3									
Benzo(g,h,i)perylene	ND	33.3									
Benzo(k)fluoranthene	ND	33.3									
Benzoic acid	ND	667									
Benzyl alcohol	ND	33.3									
Bis(2-chloroethoxy)methane	ND	33.3									
Bis(2-chloroethyl)ether	ND	33.3									
Bis(2-chloroisopropyl)ether	ND	33.3									
Bis(2-ethylhexyl)phthalate	ND	33.3									
Butyl benzyl phthalate	ND	33.3									
Chrysene	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31148	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	ND	33.3									
Di-n-octyl phthalate	ND	33.3									
Dibenz(a,h)anthracene	ND	33.3									
Dibenzofuran	ND	33.3									
Diethyl phthalate	ND	33.3									
Dimethyl phthalate	ND	33.3									
Fluoranthene	ND	33.3									
Fluorene	ND	33.3									
Hexachlorobenzene	ND	33.3									
Hexachlorobutadiene	ND	33.3									
Hexachlorocyclopentadiene	ND	33.3									
Hexachloroethane	ND	33.3									
Indeno(1,2,3-cd)pyrene	ND	33.3									
Isophorone	ND	33.3									
N-Nitrosodi-n-propylamine	ND	33.3									
N-nitrosodimethylamine	ND	33.3									
N-Nitrosodiphenylamine	ND	33.3									
Naphthalene	ND	33.3									
Nitrobenzene	ND	33.3									
Phenanthrene	ND	33.3									
Pyrene	ND	33.3									
Surr: 2-Fluorobiphenyl	4491	0	3333	0	135	52.6	93.2	0	0		S
Surr: 4-Terphenyl-d14	2865	0	3333	0	85.9	49.8	118	0	0		
Surr: Nitrobenzene-d5	2910	0	3333	0	87.3	44.8	103	0	0		

Sample ID: LCS-31148	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825732						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	981	33.3	1667	0	58.9	30.9	106	0	0		
1,4-Dichlorobenzene	981.3	33.3	1667	0	58.9	31.4	98.2	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: LCS-31148	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825732						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2,4-Dinitrotoluene	1214	33.3	1667	0	72.8	59.7	111	0	0		
Acenaphthene	1122	33.3	1667	0	67.3	48.2	105	0	0		
N-Nitrosodi-n-propylamine	1276	33.3	1667	0	76.6	42.4	101	0	0		
Pyrene	1032	33.3	1667	0	61.9	56.7	130	0	0		

Sample ID: 1203227-01CMS	SampType: MS	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: HA4-S-0.5	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825806						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	1397	40.8	2040	0	68.5	31.1	92.7	0	0		
1,4-Dichlorobenzene	1427	40.8	2040	0	70	16.5	85.6	0	0		
2,4-Dinitrotoluene	602.2	40.8	2040	13.87	28.8	43.4	118	0	0		S,MI
Acenaphthene	1685	40.8	2040	0	82.6	45.1	102	0	0		
N-Nitrosodi-n-propylamine	1777	40.8	2040	0	87.1	45.6	94.1	0	0		
Pyrene	1461	40.8	2040	112.2	66.1	42.4	131	0	0		

Sample ID: 1203227-01CMSD	SampType: MSD	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: HA4-S-0.5	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825807						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	1115	40.8	2040	0	54.6	31.1	92.7	1397	22.5	20	R
1,4-Dichlorobenzene	974.7	40.8	2040	0	47.8	16.5	85.6	1427	37.7	20	R
2,4-Dinitrotoluene	445.5	40.8	2040	13.87	21.2	43.4	118	602.2	29.9	20	S,R,MI
Acenaphthene	1450	40.8	2040	0	71.1	45.1	102	1685	15.0	20	
N-Nitrosodi-n-propylamine	1502	40.8	2040	0	73.6	45.6	94.1	1777	16.8	20	
Pyrene	1653	40.8	2040	112.2	75.5	42.4	131	1461	12.3	20	

Sample ID: CCV-31148	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825731						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: CCV-31148	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg		Prep Date:	Run ID: 5973G_120328A					
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B			Analysis Date: 3/28/2012	SeqNo: 825731					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1359	33.3	1333	0	102	80	120	0	0		
Acenaphthene	1469	33.3	1333	0	110	80	120	0	0		
Benzo(a)pyrene	1571	33.3	1333	0	118	80	120	0	0		
Di-n-octyl phthalate	1344	33.3	1333	0	101	80	120	0	0		
Fluoranthene	1377	33.3	1333	0	103	80	120	0	0		
Hexachlorobutadiene	1193	33.3	1333	0	89.5	80	120	0	0		
N-Nitrosodiphenylamine	1448	33.3	1333	0	109	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID: MB-31107	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: GC-O_120323A						
Client ID: ZZZZZ	Batch ID: 31107	TestNo: NWHCID		Analysis Date: 3/23/2012	SeqNo: 824462						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2.42	20.0									J
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	1.47	50.0									J
Lube Oil	ND	100									
Surr: BFB	104.7	0	100	0	105	50	150	0	0		
Surr: o-Terphenyl	107.6	0	100	0	108	50	150	0	0		

Sample ID: MB-31131	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: GC-O_120326A						
Client ID: ZZZZZ	Batch ID: 31131	TestNo: NWHCID		Analysis Date: 3/26/2012	SeqNo: 825127						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2.37	20.0									J
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	2.22	50.0									J
Lube Oil	14.66	100									J
Surr: BFB	88.14	0	100	0	88.1	50	150	0	0		
Surr: o-Terphenyl	90.21	0	100	0	90.2	50	150	0	0		

Sample ID: 1203208-03ADUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: GC-O_120323A						
Client ID: ZZZZZ	Batch ID: 31107	TestNo: NWHCID		Analysis Date: 3/23/2012	SeqNo: 824466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	481.1	25.9	0	0	0	0	0	617.1	24.8	20	
Mineral Spirits	ND	25.9	0	0	0	0	0	0	0	20	
Kerosene	ND	64.9	0	0	0	0	0	0	0	20	
Diesel	4247	64.9	0	0	0	0	0	5501	25.7	20	
Lube Oil	93.45	130	0	0	0	0	0	137	0	20	J

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID: 1203227-01BDUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: GC-O_120323A						
Client ID: HA4-S-0.5	Batch ID: 31107	TestNo: NWHCID		Analysis Date: 3/23/2012	SeqNo: 824908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	5.3	24.5	0	0	0	0	0	4.92	0	20	J
Mineral Spirits	ND	24.5	0	0	0	0	0	0	0	20	
Kerosene	ND	61.2	0	0	0	0	0	0	0	20	
Diesel	263.1	61.2	0	0	0	0	0	262.2	0.354	20	
Lube Oil	1094	122	0	0	0	0	0	1148	4.78	20	

Sample ID: 1203227-05BDUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/26/2012	Run ID: GC-O_120326A						
Client ID: HA6-S-0.5	Batch ID: 31131	TestNo: NWHCID		Analysis Date: 3/26/2012	SeqNo: 825129						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	5.808	23.1	0	0	0	0	0	4.284	0	20	J
Mineral Spirits	ND	23.1	0	0	0	0	0	0	0	20	
Kerosene	ND	57.7	0	0	0	0	0	0	0	20	
Diesel	124.2	57.7	0	0	0	0	0	117.7	5.31	20	
Lube Oil	311.5	115	0	0	0	0	0	302.1	3.05	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MB-31147	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120327B						
Client ID: ZZZZZ	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825490						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	ND	0.0167									
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Sample ID: LCS-31147	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120327B						
Client ID: ZZZZZ	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825489						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2667	0.0167	0.25	0	107	88.2	113	0	0		
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Sample ID: 1203227-05CMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: CVAA_120327B						
Client ID: HA6-S-0.5	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2691	0.0152	0.2279	0.05191	95.3	78.1	125	0	0		
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Sample ID: 1203227-05CMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: CVAA_120327B						
Client ID: HA6-S-0.5	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2736	0.0152	0.2279	0.05191	97.3	78.1	125	0.2691	1.68	20	
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Sample ID: 1203227-05CDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: CVAA_120327B						
Client ID: HA6-S-0.5	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825492						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.05179	0.0161	0	0	0	0	0	0.05191	0.232	20	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120327B						
Client ID: ZZZZZ	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825501						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120327B						
Client ID: ZZZZZ	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825501						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2647	0.0167	0.25	0	106	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120327B						
Client ID: ZZZZZ	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2661	0.0167	0.25	0	106	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120327B						
Client ID: ZZZZZ	Batch ID: 31147	TestNo: SW7471		Analysis Date: 3/27/2012	SeqNo: 825504						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2582	0.0167	0.25	0	103	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HGDIS_W

Sample ID: MB-31120	SampType: MBLK	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824919
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.000100

Sample ID: LCS-31120	SampType: LCS	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824918
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.004303 0.000100 0.004 0 108 85.4 116 0 0

Sample ID: A1203174-01AMS	SampType: MS	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824951
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.004527 0.000100 0.004 0 113 69.5 125 0 0

Sample ID: A1203174-01AMSD	SampType: MSD	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824952
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury 0.004748 0.000100 0.004 0 119 69.5 125 0.004527 4.77 20

Sample ID: A1203174-01ADUP	SampType: DUP	TestCode: HGDIS_W	Units: mg/L	Prep Date: 3/24/2012	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824950
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury ND 0.000100 0 0 0 0 0 0 0 0 20

Sample ID: CCV	SampType: CCV	TestCode: HGDIS_W	Units: mg/L	Prep Date:	Run ID: CVAA_120324C
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824959
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HGDIS_W

Sample ID: CCV	SampType: CCV	TestCode: HGDIS_W	Units: mg/L	Prep Date:	Run ID: CVAA_120324C						
Client ID: ZZZZZ	Batch ID: 31120	TestNo: E7470A		Analysis Date: 3/24/2012	SeqNo: 824959						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004351	0.000100	0.004	0	109	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-31140	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825782						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	32.62	0	33.33	0	97.9	50	150	0	0		

Sample ID: LCS-31140	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825899						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	164.4	15.0	166.6	0	98.7	76.3	125	0	0		
Lube Oil	166.6	50.0	166.6	0	100	69.9	127	0	0		

Sample ID: 1203208-03ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 3/26/2012	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825785						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	5352	19.5	0	0	0	0	0	4902	8.78	20	CN
Lube Oil	ND	64.9	0	0	0	0	0	0	0	20	A3

Sample ID: 1203227-08BDUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: GC-M_120328A						
Client ID: HA7-S-1.5	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	235.7	19.0	0	0	0	0	0	260.1	9.83	20	A1
Lube Oil	1843	63.4	0	0	0	0	0	2036	9.94	20	A2

Sample ID: CCB	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825901						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0	0	0	0	0	0	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCB	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825901						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil	ND	50.0	0	0	0	0	0	0	0	0	
Surr: o-Terphenyl	32.68	0	33.33	0	98	50	150	0	0	0	

Sample ID: CCB	SampType: CCB	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825911						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0	0	0	0	0	0	0	0	0	
Hydraulic Oil	12.55	50.0	0	0	0	0	0	0	0	0	
Lube Oil	45	50.0	0	0	0	0	0	0	0	0	
Surr: o-Terphenyl	33.76	0	33.33	0	101	50	150	0	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825781						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1442	15.0	1364	0	106	85	115	0	0	0	
Lube Oil	621.2	50.0	699.9	0	88.7	85	115	0	0	0	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825900						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1174	15.0	1023	0	115	85	115	0	0	0	
Hydraulic Oil	497.8	50.0	506.2	0	98.3	85	115	0	0	0	
Lube Oil	483.1	50.0	524.9	0	92	85	115	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825910						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1347	15.0	1364	0	98.7	85	115	0	0		
Hydraulic Oil	791.4	50.0	708.7	0	112	85	115	0	0		
Lube Oil	707.5	50.0	699.9	0	101	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120328A						
Client ID: ZZZZZ	Batch ID: 31140	TestNo: NWTPH-Dx		Analysis Date: 3/28/2012	SeqNo: 825913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1019	15.0	1023	0	99.6	85	115	0	0		
Hydraulic Oil	537.4	50.0	506.2	0	106	85	115	0	0		
Lube Oil	515	50.0	524.9	0	98.1	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: MB-31136	SampType: MBLK	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 3/26/2012	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.06748	0.0800									J
Hydraulic Oil	0.1032	0.200									J

Sample ID: MB-31136	SampType: MBLK	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 3/26/2012	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825776						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.0800									
Lube Oil	ND	0.200									
Surr: o-Terphenyl	0.2244	0	0.2	0	112	50	150	0	0		

Sample ID: LCS-31136	SampType: LCS	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 3/26/2012	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825777						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1.038	0.0800	1	0	104	60.7	121	0	0		
Lube Oil	0.9539	0.200	1	0	95.4	64	126	0	0		

Sample ID: LCSD-31136	SampType: LCSD	TestCode: NWTPHDXLL	Units: mg/L	Prep Date: 3/26/2012	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825778						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1.04	0.0800	1	0	104	60.7	121	1.038	0.210	20	
Lube Oil	1.156	0.200	1	0	116	64	126	0.9539	19.2	20	

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	8.438	0.0800	8.184	0	103	85	115	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hydraulic Oil	4.093	0.200	4.253	0	96.2	85	115	0	0		
Lube Oil	4.283	0.200	4.2	0	102	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	6.961	0.0800	6.138	0	113	85	115	0	0		
Hydraulic Oil	3.179	0.200	3.038	0	105	85	115	0	0		
Lube Oil	3.367	0.200	3.15	0	107	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	8.653	0.0800	8.184	0	106	85	115	0	0		
Lube Oil	3.727	0.200	4.2	0	88.7	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXLL	Units: mg/L	Prep Date:	Run ID: GC-M_120327A						
Client ID: ZZZZZ	Batch ID: 31136	TestNo: NWTPH-Dx		Analysis Date: 3/27/2012	SeqNo: 825883						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	7.042	0.0800	6.138	0	115	85	115	0	0		
Lube Oil	2.899	0.200	3.15	0	92	85	115	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_W

Sample ID: MB-31134	SampType: MBLK	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 3/26/2012	Run ID: GC-S_120326A						
Client ID: ZZZZZ	Batch ID: 31134	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825053						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	100									
Surr: 4-Bromofluorobenzene	96.47	0	100	0	96.5	50	150	0	0		

Sample ID: LCS-31134	SampType: LCS	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 3/26/2012	Run ID: GC-S_120326A						
Client ID: ZZZZZ	Batch ID: 31134	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	1871	100	2000	0	93.6	74.4	128	0	0		
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Sample ID: 1203227-09ADUP	SampType: DUP	TestCode: NWTPHGX_	Units: µg/L	Prep Date: 3/26/2012	Run ID: GC-S_120326A						
Client ID: GP10-W-10	Batch ID: 31134	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	100	0	0	0	0	0	0	0	0	20
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	Run ID: GC-S_120326A						
Client ID: ZZZZZ	Batch ID: 31134	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2765	100	3000	0	92.2	80	120	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	Run ID: GC-S_120326A						
Client ID: ZZZZZ	Batch ID: 31134	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2574	100	3000	0	85.8	80	120	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: MB-31124	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/26/2012	Run ID: 5975Q_120326A						
Client ID: ZZZZZ	Batch ID: 31124	TestNo: 8270SIM		Analysis Date: 3/26/2012	SeqNo: 825105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.01	0.0500									J
2-Methylnaphthalene	0.01	0.0500									J
Acenaphthene	0.01	0.0500									J
Acenaphthylene	0.01	0.0500									J
Anthracene	0.01	0.0500									J
Benz(a)anthracene	0.01	0.0500									J
Benzo(a)pyrene	0.01	0.0500									J
Benzo(b)fluoranthene	0.02	0.0500									J
Benzo(g,h,i)perylene	ND	0.0500									
Benzo(k)fluoranthene	0.01	0.0500									J
Chrysene	0.01	0.0500									J
Dibenz(a,h)anthracene	ND	0.0500									
Fluoranthene	0.02	0.0500									J
Fluorene	ND	0.0500									
Indeno(1,2,3-cd)pyrene	0.01	0.0500									J
Naphthalene	0.02	0.0500									J
Phenanthrene	0.02	0.0500									J
Pyrene	ND	0.0500									
Surr: 2-Fluorobiphenyl	54.34	1.00	100	0	54.3	18.6	106	0	0		
Surr: Nitrobenzene-d5	56.94	1.00	100	0	56.9	17	130	0	0		
Surr: p-Terphenyl-d14	64.71	1.00	100	0	64.7	39.6	131	0	0		

Sample ID: LCS-31124	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/26/2012	Run ID: 5975Q_120326A						
Client ID: ZZZZZ	Batch ID: 31124	TestNo: 8270SIM		Analysis Date: 3/26/2012	SeqNo: 825222						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.9	0.0500	5	0	58	35.1	100	0	0		
Benzo(a)pyrene	3.02	0.0500	5	0	60.4	23.4	103	0	0		
Benzo(g,h,i)perylene	3.06	0.0500	5	0	61.2	20.8	120	0	0		
Chrysene	3.17	0.0500	5	0	63.4	39.1	119	0	0		
Naphthalene	2.77	0.0500	5	0	55.4	25.6	106	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: LCS-31124	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/26/2012	Run ID: 5975Q_120326A						
Client ID: ZZZZZ	Batch ID: 31124	TestNo: 8270SIM		Analysis Date: 3/26/2012	SeqNo: 825222						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	3.19	0.0500	5	0	63.8	38.1	106	0	0		
Pyrene	3.39	0.0500	5	0	67.8	41.3	118	0	0		

Sample ID: LCSD-31124	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 3/26/2012	Run ID: 5975Q_120326A						
Client ID: ZZZZZ	Batch ID: 31124	TestNo: 8270SIM		Analysis Date: 3/27/2012	SeqNo: 825256						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.95	0.0500	5	0	59	35.1	100	2.9	1.71	20	
Benzo(a)pyrene	2.94	0.0500	5	0	58.8	23.4	103	3.02	2.68	20	
Benzo(g,h,i)perylene	2.84	0.0500	5	0	56.8	20.8	120	3.06	7.46	20	
Chrysene	3.19	0.0500	5	0	63.8	39.1	119	3.17	0.629	20	
Naphthalene	2.77	0.0500	5	0	55.4	25.6	106	2.77	0	20	
Phenanthrene	3.15	0.0500	5	0	63	38.1	106	3.19	1.26	20	
Pyrene	3.24	0.0500	5	0	64.8	41.3	118	3.39	4.52	20	

Sample ID: CCV-31124	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120326A						
Client ID: ZZZZZ	Batch ID: 31124	TestNo: 8270SIM		Analysis Date: 3/26/2012	SeqNo: 825099						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.93	0.0500	1	0	93	70	130	0	0		
2-Methylnaphthalene	0.92	0.0500	1	0	92	70	130	0	0		
Acenaphthene	0.86	0.0500	1	0	86	70	130	0	0		
Acenaphthylene	0.88	0.0500	1	0	88	70	130	0	0		
Anthracene	0.85	0.0500	1	0	85	70	130	0	0		
Benzo(a)anthracene	0.81	0.0500	1	0	81	70	130	0	0		
Benzo(a)pyrene	0.83	0.0500	1	0	83	70	130	0	0		
Benzo(b)fluoranthene	0.81	0.0500	1	0	81	70	130	0	0		
Benzo(g,h,i)perylene	0.83	0.0500	1	0	83	70	130	0	0		
Benzo(k)fluoranthene	1.01	0.0500	1	0	101	70	130	0	0		
Chrysene	0.85	0.0500	1	0	85	70	130	0	0		
Dibenz(a,h)anthracene	0.85	0.0500	1	0	85	70	130	0	0		

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CLIENT: Maul, Foster & Alongi
Work Order: 1203227
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: CCV-31124	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120326A
Client ID: ZZZZZ	Batch ID: 31124	TestNo: 8270SIM		Analysis Date: 3/26/2012	SeqNo: 825099

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	0.83	0.0500	1	0	83	70	130	0	0		
Fluorene	0.92	0.0500	1	0	92	70	130	0	0		
Indeno(1,2,3-cd)pyrene	0.81	0.0500	1	0	81	70	130	0	0		
Naphthalene	0.92	0.0500	1	0	92	70	130	0	0		
Phenanthrene	0.87	0.0500	1	0	87	70	130	0	0		
Pyrene	0.81	0.0500	1	0	81	70	130	0	0		

Sample ID: CCV-31124	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	Run ID: 5975Q_120326A
Client ID: ZZZZZ	Batch ID: 31124	TestNo: 8270SIM		Analysis Date: 3/27/2012	SeqNo: 825255

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.92	0.0500	1	0	92	70	130	0	0		
2-Methylnaphthalene	0.96	0.0500	1	0	96	70	130	0	0		
Acenaphthene	0.83	0.0500	1	0	83	70	130	0	0		
Acenaphthylene	0.89	0.0500	1	0	89	70	130	0	0		
Anthracene	0.85	0.0500	1	0	85	70	130	0	0		
Benz(a)anthracene	0.84	0.0500	1	0	84	70	130	0	0		
Benzo(a)pyrene	0.83	0.0500	1	0	83	70	130	0	0		
Benzo(b)fluoranthene	0.86	0.0500	1	0	86	70	130	0	0		
Benzo(g,h,i)perylene	0.83	0.0500	1	0	83	70	130	0	0		
Benzo(k)fluoranthene	0.96	0.0500	1	0	96	70	130	0	0		
Chrysene	0.9	0.0500	1	0	90	70	130	0	0		
Dibenz(a,h)anthracene	0.81	0.0500	1	0	81	70	130	0	0		
Fluoranthene	0.82	0.0500	1	0	82	70	130	0	0		
Fluorene	0.96	0.0500	1	0	96	70	130	0	0		
Indeno(1,2,3-cd)pyrene	0.83	0.0500	1	0	83	70	130	0	0		
Naphthalene	0.85	0.0500	1	0	85	70	130	0	0		
Phenanthrene	0.82	0.0500	1	0	82	70	130	0	0		
Pyrene	0.81	0.0500	1	0	81	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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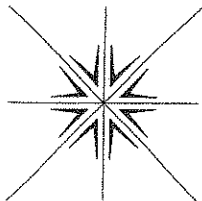
B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Mike Stringer
Company MFA
Address 400 E Mill Plain Blvd
Vancouver WA
Phone _____ Fax _____
Project No. 0443.02.02 Project Name Kelso IPG
Project Site Location OR _____ WA Other _____
Invoice To _____ P.O. No. _____

Collected By:
Signature [Signature]
Printed Meaghan Gallagher

Signature _____
Printed _____

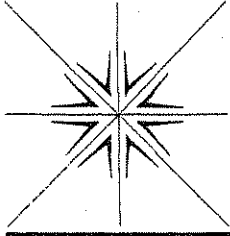
Turn Around Time
 Normal 5-7 Business Days
 Rush _____
Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses										For Laboratory Use		
					Metals (Al Pb Cr Cd Fe Ni Zn) (6010)	As 6020	Hg 7471	NWTPH HClD	NWTPH DA	NWTPH Gx	low level VBC 8260	SVOC 8270C	PCB 8082	Lab Job No.	Shipped Via	Air Bill No.	
3/22	1009	HA4-S-0.5	S	7	X	X	X	X	X			X	X		Temperature On Receipt _____ °C Specialty Analytical Containers? Y/N Specialty Analytical Trip Blanks? Y/N	Comments (X) Follow ups added	Lab I.D. 3/26/12
	1017	HA4-S-1.5		7	X	X	X	X	X			X	X				
	1215	HA5-S-0.5		7	X	X	X	X	X			X	X				
	1235	HA5-S-1.5		7	X	X	X	X	X			X	X				
	1310	HA6-S-0.5		7	X	X	X	X	X			X	X				
	1325	HA6-S-1.5		7	X	X	X	X	X			X	X				
	1415	HA7-S-0.5		7	X	X	X	X	X			X	X				
	1500	HA7-S-1.5		7	X	X	X	X	X			X	X				

Relinquished By: <u>[Signature]</u> Company: <u>MFA</u>	Date: <u>3/22</u> Time: <u>1830</u>	Received By: <u>[Signature]</u> Company: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u> Company: <u>[Signature]</u>	Date: <u>3/23/12</u> Time: <u>1345</u>
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Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)	Received For Lab By: <u>[Signature]</u> Date: <u>3/23/12</u> Time: <u>1345</u>
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Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

April 06, 2012

Mike Stringer
Maul, Foster & Alongi
400 East Mill Plain Blvd
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691

FAX (360) 906-1958

RE: Kelso IPG / 0443.02.02

Dear Mike Stringer:

Order No.: 1203181

Specialty Analytical received 22 samples on 3/21/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard

Project Manager


Technical Review

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-01

Client Sample ID: HA1-S-0.5
Collection Date: 3/20/2012 11:35:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrj		
Gasoline	ND	26.3		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	26.3		mg/Kg-dry	1	3/21/2012
Kerosene	ND	65.8		mg/Kg-dry	1	3/21/2012
Diesel	Diesel	65.8		mg/Kg-dry	1	3/21/2012
Lube Oil	Lube Oil	132		mg/Kg-dry	1	3/21/2012
Surr: BFB	100	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	102	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	29.0	19.7		mg/Kg-dry	1	3/29/2012
Lube Oil	252	65.8		mg/Kg-dry	1	3/29/2012
Surr: o-Terphenyl	94.9	50-150		%REC	1	3/29/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	16500	6.33		mg/Kg-dry	1	3/21/2012 3:52:33 PM
Cadmium	2.04	0.127		mg/Kg-dry	1	3/21/2012 3:52:33 PM
Chromium	18.8	0.633		mg/Kg-dry	1	3/21/2012 3:52:33 PM
Copper	138	1.27		mg/Kg-dry	1	3/21/2012 3:52:33 PM
Lead	898	2.53		mg/Kg-dry	1	3/21/2012 3:52:33 PM
Nickel	18.7	0.633		mg/Kg-dry	1	3/21/2012 3:52:33 PM
Zinc	21600	6.33		mg/Kg-dry	5	3/22/2012 3:29:41 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	9650	2530		µg/Kg-dry	20	3/22/2012 4:02:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.843	0.0200		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
1,2-Dichlorobenzene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
1,3-Dichlorobenzene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
1,4-Dichlorobenzene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
1-Methylnaphthalene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
2,4-Dinitrotoluene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
2,6-Dinitrotoluene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
2-Chloronaphthalene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
2-Methylnaphthalene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
2-Nitroaniline	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
3-Nitroaniline	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
4-Bromophenyl phenyl ether	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
4-Chloroaniline	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
4-Chlorophenyl phenyl ether	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-01

Client Sample ID: HA1-S-0.5
Collection Date: 3/20/2012 11:35:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Nitroaniline	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Acenaphthene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Acenaphthylene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Anthracene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Benz(a)anthracene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Benzo(a)pyrene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Benzo(b)fluoranthene	57.5	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Benzo(g,h,i)perylene	46.1	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Benzo(k)fluoranthene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Benzoic acid	ND	878		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Benzyl alcohol	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Bis(2-chloroethoxy)methane	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Bis(2-chloroethyl)ether	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Bis(2-chloroisopropyl)ether	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Bis(2-ethylhexyl)phthalate	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Butyl benzyl phthalate	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Chrysene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Di-n-butyl phthalate	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Di-n-octyl phthalate	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Dibenz(a,h)anthracene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Dibenzofuran	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Diethyl phthalate	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Dimethyl phthalate	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Fluoranthene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Fluorene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Hexachlorobenzene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Hexachlorobutadiene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Hexachlorocyclopentadiene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Hexachloroethane	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Indeno(1,2,3-cd)pyrene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Isophorone	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
N-Nitrosodi-n-propylamine	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
N-nitrosodimethylamine	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
N-Nitrosodiphenylamine	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Naphthalene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Nitrobenzene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Phenanthrene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Pyrene	ND	43.8		µg/Kg-dry	1	3/28/2012 12:23:00 PM
Surr: 2-Fluorobiphenyl	158	52.6-93.2	S	%REC	1	3/28/2012 12:23:00 PM
Surr: 4-Terphenyl-d14	88.0	49.8-118		%REC	1	3/28/2012 12:23:00 PM
Surr: Nitrobenzene-d5	91.7	44.8-103		%REC	1	3/28/2012 12:23:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-02

Client Sample ID: HA1-S-1.5
Collection Date: 3/20/2012 11:55:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	ND	20.8		mg/Kg-dry	1	3/29/2012
Lube Oil	ND	69.3		mg/Kg-dry	1	3/29/2012
Surr: o-Terphenyl	107	50-150		%REC	1	3/29/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	19800	6.08		mg/Kg-dry	1	3/28/2012 5:43:38 PM
Cadmium	0.231	0.122		mg/Kg-dry	1	3/28/2012 5:43:38 PM
Chromium	15.6	0.608		mg/Kg-dry	1	3/28/2012 5:43:38 PM
Copper	33.3	1.22		mg/Kg-dry	1	3/28/2012 5:43:38 PM
Lead	25.7	2.43		mg/Kg-dry	1	3/28/2012 5:43:38 PM
Nickel	12.2	0.608		mg/Kg-dry	1	3/28/2012 5:43:38 PM
Zinc	114	1.22		mg/Kg-dry	1	3/28/2012 5:43:38 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	3920	2430		µg/Kg-dry	20	3/28/2012 5:25:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0545	0.0211		mg/Kg-dry	1	3/29/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
1,2-Dichlorobenzene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
1,3-Dichlorobenzene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
1,4-Dichlorobenzene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
1-Methylnaphthalene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
2,4-Dinitrotoluene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
2,6-Dinitrotoluene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
2-Chloronaphthalene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
2-Methylnaphthalene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
2-Nitroaniline	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
3-Nitroaniline	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
4-Bromophenyl phenyl ether	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
4-Chloroaniline	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
4-Chlorophenyl phenyl ether	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
4-Nitroaniline	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Acenaphthene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Acenaphthylene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Anthracene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Benz(a)anthracene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Benzo(a)pyrene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Benzo(b)fluoranthene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Benzo(g,h,i)perylene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Benzo(k)fluoranthene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-02

Client Sample ID: HA1-S-1.5
Collection Date: 3/20/2012 11:55:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
Benzoic acid	ND	925		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Benzyl alcohol	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Bis(2-chloroethoxy)methane	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Bis(2-chloroethyl)ether	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Bis(2-chloroisopropyl)ether	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Bis(2-ethylhexyl)phthalate	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Butyl benzyl phthalate	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Chrysene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Di-n-butyl phthalate	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Di-n-octyl phthalate	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Dibenz(a,h)anthracene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Dibenzofuran	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Diethyl phthalate	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Dimethyl phthalate	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Fluoranthene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Fluorene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Hexachlorobenzene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Hexachlorobutadiene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Hexachlorocyclopentadiene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Hexachloroethane	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Indeno(1,2,3-cd)pyrene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Isophorone	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
N-Nitrosodi-n-propylamine	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
N-nitrosodimethylamine	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
N-Nitrosodiphenylamine	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Naphthalene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Nitrobenzene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Phenanthrene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Pyrene	ND	46.2		µg/Kg-dry	1	3/28/2012 11:03:00 AM
Surr: 2-Fluorobiphenyl	161	52.6-93.2	S	%REC	1	3/28/2012 11:03:00 AM
Surr: 4-Terphenyl-d14	97.2	49.8-118		%REC	1	3/28/2012 11:03:00 AM
Surr: Nitrobenzene-d5	103	44.8-103		%REC	1	3/28/2012 11:03:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-03

Client Sample ID: HA2-S-0.5
Collection Date: 3/20/2012 12:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrp		
Gasoline	ND	25.9		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	25.9		mg/Kg-dry	1	3/21/2012
Kerosene	ND	64.9		mg/Kg-dry	1	3/21/2012
Diesel	Diesel	64.9		mg/Kg-dry	1	3/21/2012
Lube Oil	Lube Oil	130		mg/Kg-dry	1	3/21/2012
Surr: BFB	103	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	107	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	63.6	19.5	A1,K	mg/Kg-dry	1	4/3/2012
Lube Oil	336	64.9		mg/Kg-dry	1	4/3/2012
Surr: o-Terphenyl	78.3	50-150		%REC	1	4/3/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	17900	6.49		mg/Kg-dry	1	3/21/2012 3:57:02 PM
Cadmium	2.70	0.130		mg/Kg-dry	1	3/21/2012 3:57:02 PM
Chromium	15.4	0.649		mg/Kg-dry	1	3/21/2012 3:57:02 PM
Copper	434	1.30		mg/Kg-dry	1	3/21/2012 3:57:02 PM
Lead	354	2.59		mg/Kg-dry	1	3/21/2012 3:57:02 PM
Nickel	31.9	0.649		mg/Kg-dry	1	3/21/2012 3:57:02 PM
Zinc	1790	1.30		mg/Kg-dry	1	3/21/2012 3:57:02 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	3750	1300		µg/Kg-dry	10	3/22/2012 1:21:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.123	0.0217		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
1,2-Dichlorobenzene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
1,3-Dichlorobenzene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
1,4-Dichlorobenzene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
1-Methylnaphthalene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
2,4-Dinitrotoluene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
2,6-Dinitrotoluene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
2-Chloronaphthalene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
2-Methylnaphthalene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
2-Nitroaniline	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
3-Nitroaniline	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
4-Bromophenyl phenyl ether	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
4-Chloroaniline	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
4-Chlorophenyl phenyl ether	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-03

Client Sample ID: HA2-S-0.5
Collection Date: 3/20/2012 12:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Nitroaniline	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Acenaphthene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Acenaphthylene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Anthracene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Benz(a)anthracene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Benzo(a)pyrene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Benzo(b)fluoranthene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Benzo(g,h,i)perylene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Benzo(k)fluoranthene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Benzoic acid	ND	865		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Benzyl alcohol	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Bis(2-chloroethoxy)methane	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Bis(2-chloroethyl)ether	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Bis(2-chloroisopropyl)ether	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Bis(2-ethylhexyl)phthalate	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Butyl benzyl phthalate	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Chrysene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Di-n-butyl phthalate	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Di-n-octyl phthalate	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Dibenz(a,h)anthracene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Dibenzofuran	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Diethyl phthalate	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Dimethyl phthalate	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Fluoranthene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Fluorene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Hexachlorobenzene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Hexachlorobutadiene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Hexachlorocyclopentadiene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Hexachloroethane	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Indeno(1,2,3-cd)pyrene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Isophorone	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
N-Nitrosodi-n-propylamine	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
N-nitrosodimethylamine	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
N-Nitrosodiphenylamine	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Naphthalene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Nitrobenzene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Phenanthrene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Pyrene	ND	43.2		µg/Kg-dry	1	4/4/2012 4:55:00 PM
Surr: 2-Fluorobiphenyl	165	52.6-93.2	S	%REC	1	4/4/2012 4:55:00 PM
Surr: 4-Terphenyl-d14	103	49.8-118		%REC	1	4/4/2012 4:55:00 PM
Surr: Nitrobenzene-d5	80.0	44.8-103		%REC	1	4/4/2012 4:55:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-04

Client Sample ID: HA2-S-1.5
Collection Date: 3/20/2012 12:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						Analyst: knt
Hold	Hold				1	4/4/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-05

Client Sample ID: HA3-S-0.5
Collection Date: 3/20/2012 12:45:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrp		
Gasoline	ND	24.7		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	24.7		mg/Kg-dry	1	3/21/2012
Kerosene	ND	61.7		mg/Kg-dry	1	3/21/2012
Diesel	Diesel	61.7		mg/Kg-dry	1	3/21/2012
Lube Oil	Lube Oil	123		mg/Kg-dry	1	3/21/2012
Surr: BFB	103	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	93.7	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	244	18.5	A1,K	mg/Kg-dry	1	4/3/2012
Lube Oil	1100	61.7	A2	mg/Kg-dry	1	4/3/2012
Surr: o-Terphenyl	149	50-150		%REC	1	4/3/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	11900	5.31		mg/Kg-dry	1	3/21/2012 4:24:31 PM
Cadmium	6.04	0.106		mg/Kg-dry	1	3/21/2012 4:24:31 PM
Chromium	31.0	0.531		mg/Kg-dry	1	3/21/2012 4:24:31 PM
Copper	951	1.06		mg/Kg-dry	1	3/21/2012 4:24:31 PM
Lead	2400	2.13		mg/Kg-dry	1	3/21/2012 4:24:31 PM
Nickel	37.6	0.531		mg/Kg-dry	1	3/21/2012 4:24:31 PM
Zinc	3370	1.06		mg/Kg-dry	1	3/21/2012 4:24:31 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	13900	10600		µg/Kg-dry	100	3/23/2012 6:00:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	72.3	1.65		mg/Kg-dry	80	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
1,2-Dichlorobenzene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
1,3-Dichlorobenzene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
1,4-Dichlorobenzene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
1-Methylnaphthalene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
2,4-Dinitrotoluene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
2,6-Dinitrotoluene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
2-Chloronaphthalene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
2-Methylnaphthalene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
2-Nitroaniline	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
3-Nitroaniline	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
4-Bromophenyl phenyl ether	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
4-Chloroaniline	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
4-Chlorophenyl phenyl ether	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203181
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203181-05

Client Sample ID: HA3-S-0.5
 Collection Date: 3/20/2012 12:45:00 PM
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Nitroaniline	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Acenaphthene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Acenaphthylene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Anthracene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Benz(a)anthracene	45.6	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Benzo(a)pyrene	78.1	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Benzo(b)fluoranthene	129	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Benzo(g,h,i)perylene	138	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Benzo(k)fluoranthene	47.7	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Benzoic acid	ND	822		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Benzyl alcohol	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Bis(2-chloroethoxy)methane	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Bis(2-chloroethyl)ether	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Bis(2-chloroisopropyl)ether	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Bis(2-ethylhexyl)phthalate	374	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Butyl benzyl phthalate	434	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Chrysene	69.9	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Di-n-butyl phthalate	73.6	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Di-n-octyl phthalate	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Dibenz(a,h)anthracene	44.4	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Dibenzofuran	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Diethyl phthalate	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Dimethyl phthalate	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Fluoranthene	85.9	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Fluorene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Hexachlorobenzene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Hexachlorobutadiene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Hexachlorocyclopentadiene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Hexachloroethane	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Indeno(1,2,3-cd)pyrene	95.4	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Isophorone	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
N-Nitrosodi-n-propylamine	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
N-nitrosodimethylamine	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
N-Nitrosodiphenylamine	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Naphthalene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Nitrobenzene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Phenanthrene	ND	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Pyrene	77.7	41.1		µg/Kg-dry	1	4/4/2012 5:22:00 PM
Surr: 2-Fluorobiphenyl	115	52.6-93.2	S	%REC	1	4/4/2012 5:22:00 PM
Surr: 4-Terphenyl-d14	71.7	49.8-118		%REC	1	4/4/2012 5:22:00 PM
Surr: Nitrobenzene-d5	64.3	44.8-103		%REC	1	4/4/2012 5:22:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-06

Client Sample ID: HA3-S-1.5
Collection Date: 3/20/2012 1:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						Analyst: knt
Hold	Hold				1	4/4/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-07

Client Sample ID: GP1-S-0.5
Collection Date: 3/20/2012 3:11:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: jrp
Gasoline	Gasoline	22.5		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	22.5		mg/Kg-dry	1	3/21/2012
Kerosene	ND	56.3		mg/Kg-dry	1	3/21/2012
Diesel	Diesel	56.3		mg/Kg-dry	1	3/21/2012
Lube Oil	Lube Oil	113		mg/Kg-dry	1	3/21/2012
Surr: BFB	105	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	200	50-150	S,MI	%REC	1	3/21/2012
NWTPH-DX						Analyst: kh
Diesel	3290	16.9	A1,K	mg/Kg-dry	1	3/26/2012
Hydraulic Oil	8950	563		mg/Kg-dry	10	3/26/2012
Lube Oil	ND	56.3		mg/Kg-dry	1	3/26/2012
Surr: o-Terphenyl	216	50-150	S,MI	%REC	1	3/26/2012
5035A/NWTPH-GX						Analyst: jrp
Gasoline	691	17.4		mg/Kg-dry	5	3/26/2012
Surr: 4-Bromofluorobenzene	160	50-150	S,MI	%REC	5	3/26/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	7940	5.41		mg/Kg-dry	1	3/21/2012 4:29:16 PM
Cadmium	14.9	0.108		mg/Kg-dry	1	3/21/2012 4:29:16 PM
Chromium	51.2	0.541		mg/Kg-dry	1	3/21/2012 4:29:16 PM
Copper	224	1.08		mg/Kg-dry	1	3/21/2012 4:29:16 PM
Lead	887	2.17		mg/Kg-dry	1	3/21/2012 4:29:16 PM
Nickel	56.6	0.541		mg/Kg-dry	1	3/21/2012 4:29:16 PM
Zinc	3970	1.08		mg/Kg-dry	1	3/21/2012 4:29:16 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	15400	10800		µg/Kg-dry	100	3/23/2012 6:07:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.589	0.0182		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL						Analyst: bda
1,2,4-Trichlorobenzene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
1,2-Dichlorobenzene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
1,3-Dichlorobenzene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
1,4-Dichlorobenzene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
1-Methylnaphthalene	346	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
2,4-Dinitrotoluene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
2,6-Dinitrotoluene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
2-Chloronaphthalene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
2-Methylnaphthalene	589	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
2-Nitroaniline	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203181
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203181-07

Client Sample ID: GP1-S-0.5
 Collection Date: 3/20/2012 3:11:00 PM
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
3-Nitroaniline	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
4-Bromophenyl phenyl ether	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
4-Chloroaniline	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
4-Chlorophenyl phenyl ether	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
4-Nitroaniline	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Acenaphthene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Acenaphthylene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Anthracene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Benz(a)anthracene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Benzo(a)pyrene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Benzo(b)fluoranthene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Benzo(g,h,i)perylene	248	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
Benzo(k)fluoranthene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Benzoic acid	ND	1500	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Benzyl alcohol	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Bis(2-chloroethoxy)methane	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Bis(2-chloroethyl)ether	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Bis(2-chloroisopropyl)ether	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Bis(2-ethylhexyl)phthalate	29200	300		µg/Kg-dry	4	3/26/2012 1:39:00 PM
Butyl benzyl phthalate	6780	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
Chrysene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Di-n-butyl phthalate	1530	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
Di-n-octyl phthalate	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Dibenz(a,h)anthracene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Dibenzofuran	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Diethyl phthalate	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Dimethyl phthalate	90.1	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
Fluoranthene	179	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
Fluorene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Hexachlorobenzene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Hexachlorobutadiene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Hexachlorocyclopentadiene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Hexachloroethane	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Indeno(1,2,3-cd)pyrene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Isophorone	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
N-Nitrosodi-n-propylamine	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
N-nitrosodimethylamine	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
N-Nitrosodiphenylamine	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Naphthalene	438	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
Nitrobenzene	ND	75.0	Q	µg/Kg-dry	1	3/26/2012 2:06:00 PM
Phenanthrene	200	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-07

Client Sample ID: GP1-S-0.5
Collection Date: 3/20/2012 3:11:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
Pyrene	462	75.0		µg/Kg-dry	1	3/26/2012 2:06:00 PM
Surr: 2-Fluorobiphenyl	98.8	52.6-93.2	S	%REC	1	3/26/2012 2:06:00 PM
Surr: 4-Terphenyl-d14	89.9	49.8-118		%REC	1	3/26/2012 2:06:00 PM
Surr: Nitrobenzene-d5	68.2	44.8-103		%REC	1	3/26/2012 2:06:00 PM
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
1,1,1,2-Tetrachloroethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,1,1-Trichloroethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,1,2,2-Tetrachloroethane	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,1,2-Trichloroethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,1-Dichloroethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,1-Dichloroethene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,1-Dichloropropene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,2,3-Trichlorobenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,2,3-Trichloropropane	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,2,4-Trichlorobenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,2,4-Trimethylbenzene	8940	624		ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,2-Dibromo-3-chloropropane	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,2-Dibromoethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,2-Dichlorobenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,2-Dichloroethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,2-Dichloropropane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,3,5-Trimethylbenzene	5600	624		ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,3-Dichlorobenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
1,3-Dichloropropane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
1,4-Dichlorobenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
2,2-Dichloropropane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
2-Butanone	ND	23.0		ug/Kg-dry	1	3/23/2012 1:00:00 PM
2-Chlorotoluene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
2-Hexanone	ND	23.0		ug/Kg-dry	1	3/23/2012 1:00:00 PM
4-Chlorotoluene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
4-Isopropyltoluene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
4-Methyl-2-pentanone	ND	23.0		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Acetone	171	57.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Benzene	111	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Bromobenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
Bromochloromethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Bromodichloromethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Bromoform	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Bromomethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Carbon Disulfide	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-07

Client Sample ID: GP1-S-0.5
Collection Date: 3/20/2012 3:11:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B			Analyst: rk	
Carbon tetrachloride	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Chlorobenzene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Chloroethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Chloroform	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Chloromethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
cis-1,2-Dichloroethene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
cis-1,3-Dichloropropene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Dibromochloromethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Dibromomethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Dichlorodifluoromethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Ethylbenzene	3080	624		ug/Kg-dry	50	3/23/2012 1:53:00 PM
Hexachlorobutadiene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
Isopropylbenzene	33.5	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
m,p-Xylene	8430	1250		ug/Kg-dry	50	3/23/2012 1:53:00 PM
Methyl tert-butyl ether	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Methylene Chloride	ND	57.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
n-Butylbenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
n-Propylbenzene	773	624		ug/Kg-dry	50	3/23/2012 1:53:00 PM
Naphthalene	2950	624		ug/Kg-dry	50	3/23/2012 1:53:00 PM
o-Xylene	2960	624		ug/Kg-dry	50	3/23/2012 1:53:00 PM
sec-Butylbenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
Styrene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
tert-Butylbenzene	ND	624	Q	ug/Kg-dry	50	3/23/2012 1:53:00 PM
Tetrachloroethene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Toluene	159	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
trans-1,2-Dichloroethene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
trans-1,3-Dichloropropene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Trichloroethene	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Trichlorofluoromethane	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Vinyl Chloride	ND	11.5		ug/Kg-dry	1	3/23/2012 1:00:00 PM
Surr: 1,2-Dichloroethane-d4	88.9	71.5-112		%REC	1	3/23/2012 1:00:00 PM
Surr: 4-Bromofluorobenzene	88.0	75.7-122		%REC	1	3/23/2012 1:00:00 PM
Surr: Dibromofluoromethane	76.9	64.3-124		%REC	1	3/23/2012 1:00:00 PM
Surr: Toluene-d8	115	74.9-120		%REC	1	3/23/2012 1:00:00 PM
PCB'S IN SOIL		SW8082			Analyst: jrp	
Aroclor 1016	ND	0.375		µg/Kg-dry	1	3/26/2012
Aroclor 1221	ND	0.375		µg/Kg-dry	1	3/26/2012
Aroclor 1232	ND	0.375		µg/Kg-dry	1	3/26/2012
Aroclor 1242	998	3.75		µg/Kg-dry	10	3/27/2012
Aroclor 1248	ND	0.375		µg/Kg-dry	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-07

Client Sample ID: GP1-S-0.5
Collection Date: 3/20/2012 3:11:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL						Analyst: jrp
		SW8082				
Aroclor 1254	2120	3.75		µg/Kg-dry	10	3/27/2012
Aroclor 1260	773	3.75		µg/Kg-dry	10	3/27/2012
Aroclor 1262	ND	0.375		µg/Kg-dry	1	3/26/2012
Aroclor 1268	ND	0.375		µg/Kg-dry	1	3/26/2012
Surr: Decachlorobiphenyl	24.9	56.5-130	S,MI	%REC	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-08

Client Sample ID: GP1-S-6.5
Collection Date: 3/20/2012 3:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrp		
Gasoline	ND	27.2		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	27.2		mg/Kg-dry	1	3/21/2012
Kerosene	ND	68.0		mg/Kg-dry	1	3/21/2012
Diesel	ND	68.0		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	136		mg/Kg-dry	1	3/21/2012
Surr: BFB	102	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	108	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	45.7	20.4	A1	mg/Kg-dry	1	3/26/2012
Lube Oil	155	68.0		mg/Kg-dry	1	3/26/2012
Surr: o-Terphenyl	92.7	50-150		%REC	1	3/26/2012
5035A/NWTPH-GX		NWTPH-GX		Analyst: jrp		
Gasoline	5.55	4.14		mg/Kg-dry	1	3/26/2012
Surr: 4-Bromofluorobenzene	87.4	50-150		%REC	1	3/26/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	15900	5.86		mg/Kg-dry	1	3/21/2012 4:34:02 PM
Cadmium	0.258	0.117		mg/Kg-dry	1	3/21/2012 4:34:02 PM
Chromium	15.5	0.586		mg/Kg-dry	1	3/21/2012 4:34:02 PM
Copper	32.0	1.17		mg/Kg-dry	1	3/21/2012 4:34:02 PM
Lead	26.1	2.35		mg/Kg-dry	1	3/21/2012 4:34:02 PM
Nickel	12.3	0.586		mg/Kg-dry	1	3/21/2012 4:34:02 PM
Zinc	157	1.17		mg/Kg-dry	1	3/21/2012 4:34:02 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	1400	1170		µg/Kg-dry	10	3/22/2012 1:41:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0333	0.0195		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
1,2-Dichlorobenzene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
1,3-Dichlorobenzene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
1,4-Dichlorobenzene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
1-Methylnaphthalene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
2,4-Dinitrotoluene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
2,6-Dinitrotoluene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
2-Chloronaphthalene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
2-Methylnaphthalene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
2-Nitroaniline	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
3-Nitroaniline	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203181
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203181-08

Client Sample ID: GP1-S-6.5
 Collection Date: 3/20/2012 3:20:00 PM
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Bromophenyl phenyl ether	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
4-Chloroaniline	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
4-Chlorophenyl phenyl ether	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
4-Nitroaniline	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Acenaphthene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Acenaphthylene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Anthracene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Benz(a)anthracene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Benzo(a)pyrene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Benzo(b)fluoranthene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Benzo(g,h,i)perylene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Benzo(k)fluoranthene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Benzoic acid	ND	907		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Benzyl alcohol	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Bis(2-chloroethoxy)methane	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Bis(2-chloroethyl)ether	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Bis(2-chloroisopropyl)ether	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Bis(2-ethylhexyl)phthalate	76.6	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Butyl benzyl phthalate	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Chrysene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Di-n-butyl phthalate	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Di-n-octyl phthalate	98.4	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Dibenz(a,h)anthracene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Dibenzofuran	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Diethyl phthalate	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Dimethyl phthalate	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Fluoranthene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Fluorene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Hexachlorobenzene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Hexachlorobutadiene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Hexachlorocyclopentadiene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Hexachloroethane	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Indeno(1,2,3-cd)pyrene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Isophorone	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
N-Nitrosodi-n-propylamine	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
N-nitrosodimethylamine	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
N-Nitrosodiphenylamine	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Naphthalene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Nitrobenzene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Phenanthrene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM
Pyrene	ND	45.3		µg/Kg-dry	1	3/26/2012 10:27:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-08

Client Sample ID: GP1-S-6.5
Collection Date: 3/20/2012 3:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
Surr: 2-Fluorobiphenyl	128	52.6-93.2	S	%REC	1	3/26/2012 10:27:00 AM
Surr: 4-Terphenyl-d14	94.4	49.8-118		%REC	1	3/26/2012 10:27:00 AM
Surr: Nitrobenzene-d5	50.9	44.8-103		%REC	1	3/26/2012 10:27:00 AM
VOLATILES BY GC/MS		SW8260B		Analyst: rk		
1,1,1,2-Tetrachloroethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,1,1-Trichloroethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,1,2,2-Tetrachloroethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,1,2-Trichloroethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,1-Dichloroethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,1-Dichloroethene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,1-Dichloropropene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2,3-Trichlorobenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2,3-Trichloropropane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2,4-Trichlorobenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2,4-Trimethylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2-Dibromo-3-chloropropane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2-Dibromoethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2-Dichlorobenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2-Dichloroethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,2-Dichloropropane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,3,5-Trimethylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,3-Dichlorobenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,3-Dichloropropane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
1,4-Dichlorobenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
2,2-Dichloropropane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
2-Butanone	ND	27.4		ug/Kg-dry	1	3/23/2012 12:33:00 PM
2-Chlorotoluene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
2-Hexanone	ND	27.4		ug/Kg-dry	1	3/23/2012 12:33:00 PM
4-Chlorotoluene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
4-Isopropyltoluene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
4-Methyl-2-pentanone	ND	27.4		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Acetone	ND	68.4		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Benzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Bromobenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Bromochloromethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Bromodichloromethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Bromoform	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Bromomethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Carbon Disulfide	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Carbon tetrachloride	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-08

Client Sample ID: GP1-S-6.5
Collection Date: 3/20/2012 3:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: rkg		
Chlorobenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Chloroethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Chloroform	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Chloromethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
cis-1,2-Dichloroethene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
cis-1,3-Dichloropropene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Dibromochloromethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Dibromomethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Dichlorodifluoromethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Ethylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Hexachlorobutadiene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Isopropylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
m,p-Xylene	ND	27.4		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Methyl tert-butyl ether	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Methylene Chloride	ND	68.4		ug/Kg-dry	1	3/23/2012 12:33:00 PM
n-Butylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
n-Propylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Naphthalene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
o-Xylene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
sec-Butylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Styrene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
tert-Butylbenzene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Tetrachloroethene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Toluene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
trans-1,2-Dichloroethene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
trans-1,3-Dichloropropene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Trichloroethene	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Trichlorofluoromethane	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Vinyl Chloride	ND	13.7		ug/Kg-dry	1	3/23/2012 12:33:00 PM
Surr: 1,2-Dichloroethane-d4	107	71.5-112		%REC	1	3/23/2012 12:33:00 PM
Surr: 4-Bromofluorobenzene	93.6	75.7-122		%REC	1	3/23/2012 12:33:00 PM
Surr: Dibromofluoromethane	106	64.3-124		%REC	1	3/23/2012 12:33:00 PM
Surr: Toluene-d8	91.5	74.9-120		%REC	1	3/23/2012 12:33:00 PM
PCB'S IN SOIL		SW8082		Analyst: jrp		
Aroclor 1016	ND	0.453		µg/Kg-dry	1	3/26/2012
Aroclor 1221	ND	0.453		µg/Kg-dry	1	3/26/2012
Aroclor 1232	ND	0.453		µg/Kg-dry	1	3/26/2012
Aroclor 1242	32.7	0.453		µg/Kg-dry	1	3/26/2012
Aroclor 1248	ND	0.453		µg/Kg-dry	1	3/26/2012
Aroclor 1254	38.1	0.453		µg/Kg-dry	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-08

Client Sample ID: GP1-S-6.5
Collection Date: 3/20/2012 3:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL						Analyst: jrp
		SW8082				
Aroclor 1260	20.9	0.453		µg/Kg-dry	1	3/26/2012
Aroclor 1262	ND	0.453		µg/Kg-dry	1	3/26/2012
Aroclor 1268	ND	0.453		µg/Kg-dry	1	3/26/2012
Surr: Decachlorobiphenyl	138	56.5-130	S,MI	%REC	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-09

Client Sample ID: GP1-S-9
Collection Date: 3/20/2012 3:25:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST						
Hold	Hold				1	4/4/2012

PER CLIENT

Analyst: **knt**

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-10

Client Sample ID: GP2-S-0.5
Collection Date: 3/20/2012 3:45:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: jrp
Gasoline	ND	28.5		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	28.5		mg/Kg-dry	1	3/21/2012
Kerosene	ND	71.2		mg/Kg-dry	1	3/21/2012
Diesel	ND	71.2		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	142		mg/Kg-dry	1	3/21/2012
Surr: BFB	99.6	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	101	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	23400	7.12		mg/Kg-dry	1	3/21/2012 4:38:34 PM
Cadmium	ND	0.142		mg/Kg-dry	1	3/21/2012 4:38:34 PM
Chromium	16.9	0.712		mg/Kg-dry	1	3/21/2012 4:38:34 PM
Copper	35.7	1.42		mg/Kg-dry	1	3/21/2012 4:38:34 PM
Lead	6.48	2.85		mg/Kg-dry	1	3/21/2012 4:38:34 PM
Nickel	13.2	0.712		mg/Kg-dry	1	3/21/2012 4:38:34 PM
Zinc	129	1.42		mg/Kg-dry	1	3/21/2012 4:38:34 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	2850	1420		µg/Kg-dry	10	3/22/2012 1:48:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.0591	0.0238		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-11

Client Sample ID: GP2-S-3
Collection Date: 3/20/2012 4:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID				Analyst: jrp
Gasoline	ND	30.8		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	30.8		mg/Kg-dry	1	3/21/2012
Kerosene	ND	76.9		mg/Kg-dry	1	3/21/2012
Diesel	ND	76.9		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	154		mg/Kg-dry	1	3/21/2012
Surr: BFB	97.8	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	101	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP		E6010				Analyst: cmt
Aluminum	19800	6.63		mg/Kg-dry	1	3/21/2012 4:43:06 PM
Cadmium	ND	0.133		mg/Kg-dry	1	3/21/2012 4:43:06 PM
Chromium	39.5	0.663		mg/Kg-dry	1	3/21/2012 4:43:06 PM
Copper	42.8	1.33		mg/Kg-dry	1	3/21/2012 4:43:06 PM
Lead	4.32	2.65		mg/Kg-dry	1	3/21/2012 4:43:06 PM
Nickel	30.3	0.663		mg/Kg-dry	1	3/21/2012 4:43:06 PM
Zinc	83.4	1.33		mg/Kg-dry	1	3/21/2012 4:43:06 PM
TOTAL METALS BY ICP/MS		SW6020				Analyst: cmt
Arsenic	2840	1330		µg/Kg-dry	10	3/22/2012 1:54:00 PM
MERCURY, TOTAL		SW7471				Analyst: cmt
Mercury	0.0427	0.0249		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-12

Client Sample ID: GP3-S-0.5
Collection Date: 3/20/2012 4:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrp		
Gasoline	ND	29.1		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	29.1		mg/Kg-dry	1	3/21/2012
Kerosene	ND	72.8		mg/Kg-dry	1	3/21/2012
Diesel	ND	72.8		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	146		mg/Kg-dry	1	3/21/2012
Surr: BFB	96.2	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	96.0	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	17300	7.28		mg/Kg-dry	1	3/21/2012 4:47:37 PM
Cadmium	ND	0.146		mg/Kg-dry	1	3/21/2012 4:47:37 PM
Chromium	10.5	0.728		mg/Kg-dry	1	3/21/2012 4:47:37 PM
Copper	33.8	1.46		mg/Kg-dry	1	3/21/2012 4:47:37 PM
Lead	ND	2.91		mg/Kg-dry	1	3/21/2012 4:47:37 PM
Nickel	9.75	0.728		mg/Kg-dry	1	3/21/2012 4:47:37 PM
Zinc	182	1.46		mg/Kg-dry	1	3/21/2012 4:47:37 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	1550	1460		µg/Kg-dry	10	3/22/2012 2:01:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0290	0.0235		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-13

Client Sample ID: GP3-S-3
Collection Date: 3/20/2012 4:25:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: jrp
Gasoline	ND	29.5		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	29.5		mg/Kg-dry	1	3/21/2012
Kerosene	ND	73.9		mg/Kg-dry	1	3/21/2012
Diesel	ND	73.9		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	148		mg/Kg-dry	1	3/21/2012
Surr: BFB	98.4	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	104	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	21900	6.84		mg/Kg-dry	1	3/21/2012 4:52:08 PM
Cadmium	0.397	0.137		mg/Kg-dry	1	3/21/2012 4:52:08 PM
Chromium	25.8	0.684		mg/Kg-dry	1	3/21/2012 4:52:08 PM
Copper	55.8	1.37		mg/Kg-dry	1	3/21/2012 4:52:08 PM
Lead	45.2	2.74		mg/Kg-dry	1	3/21/2012 4:52:08 PM
Nickel	25.6	0.684		mg/Kg-dry	1	3/21/2012 4:52:08 PM
Zinc	427	1.37		mg/Kg-dry	1	3/21/2012 4:52:08 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	2930	2740		µg/Kg-dry	20	3/22/2012 4:22:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.0368	0.0200		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-14

Client Sample ID: GP4-S-2.5
Collection Date: 3/20/2012 4:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrp		
Gasoline	ND	25.7		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	25.7		mg/Kg-dry	1	3/21/2012
Kerosene	ND	64.2		mg/Kg-dry	1	3/21/2012
Diesel	ND	64.2		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	128		mg/Kg-dry	1	3/21/2012
Surr: BFB	103	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	106	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	15400	5.35		mg/Kg-dry	1	3/21/2012 4:56:39 PM
Cadmium	4.73	0.107		mg/Kg-dry	1	3/21/2012 4:56:39 PM
Chromium	19.4	0.535		mg/Kg-dry	1	3/21/2012 4:56:39 PM
Copper	588	1.07		mg/Kg-dry	1	3/21/2012 4:56:39 PM
Lead	838	2.14		mg/Kg-dry	1	3/21/2012 4:56:39 PM
Nickel	22.5	0.535		mg/Kg-dry	1	3/21/2012 4:56:39 PM
Zinc	1490	1.07		mg/Kg-dry	1	3/21/2012 4:56:39 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	4470	2140		µg/Kg-dry	20	3/22/2012 4:29:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.154	0.0201		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-15

Client Sample ID: GP5-S-0.5
Collection Date: 3/20/2012 4:53:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrj		
Gasoline	ND	29.2		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	29.2		mg/Kg-dry	1	3/21/2012
Kerosene	ND	73.1		mg/Kg-dry	1	3/21/2012
Diesel	Diesel	73.1		mg/Kg-dry	1	3/21/2012
Lube Oil	Lube Oil	146		mg/Kg-dry	1	3/21/2012
Surr: BFB	104	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	105	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	88.2	21.9	A1	mg/Kg-dry	1	3/26/2012
Lube Oil	443	73.1		mg/Kg-dry	1	3/26/2012
Surr: o-Terphenyl	80.3	50-150		%REC	1	3/26/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	20100	6.77		mg/Kg-dry	1	3/21/2012 5:24:18 PM
Cadmium	1.41	0.135		mg/Kg-dry	1	3/21/2012 5:24:18 PM
Chromium	18.6	0.677		mg/Kg-dry	1	3/21/2012 5:24:18 PM
Copper	52.0	1.35		mg/Kg-dry	1	3/21/2012 5:24:18 PM
Lead	74.8	2.71		mg/Kg-dry	1	3/21/2012 5:24:18 PM
Nickel	25.7	0.677		mg/Kg-dry	1	3/21/2012 5:24:18 PM
Zinc	830	1.35		mg/Kg-dry	1	3/21/2012 5:24:18 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	5420	2710		µg/Kg-dry	20	3/22/2012 4:36:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0607	0.0244		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
1,2-Dichlorobenzene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
1,3-Dichlorobenzene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
1,4-Dichlorobenzene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
1-Methylnaphthalene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
2,4-Dinitrotoluene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
2,6-Dinitrotoluene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
2-Chloronaphthalene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
2-Methylnaphthalene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
2-Nitroaniline	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
3-Nitroaniline	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
4-Bromophenyl phenyl ether	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
4-Chloroaniline	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
4-Chlorophenyl phenyl ether	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203181
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203181-15

Client Sample ID: GP5-S-0.5
 Collection Date: 3/20/2012 4:53:00 PM
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B				Analyst: bda
4-Nitroaniline	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Acenaphthene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Acenaphthylene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Anthracene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Benz(a)anthracene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Benzo(a)pyrene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Benzo(b)fluoranthene	73.6	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Benzo(g,h,i)perylene	63.4	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Benzo(k)fluoranthene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Benzoic acid	ND	975		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Benzyl alcohol	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Bis(2-chloroethoxy)methane	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Bis(2-chloroethyl)ether	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Bis(2-chloroisopropyl)ether	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Bis(2-ethylhexyl)phthalate	434	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Butyl benzyl phthalate	593	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Chrysene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Di-n-butyl phthalate	119	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Di-n-octyl phthalate	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Dibenz(a,h)anthracene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Dibenzofuran	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Diethyl phthalate	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Dimethyl phthalate	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Fluoranthene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Fluorene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Hexachlorobenzene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Hexachlorobutadiene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Hexachlorocyclopentadiene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Hexachloroethane	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Indeno(1,2,3-cd)pyrene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Isophorone	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
N-Nitrosodi-n-propylamine	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
N-nitrosodimethylamine	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
N-Nitrosodiphenylamine	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Naphthalene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Nitrobenzene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Phenanthrene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Pyrene	ND	48.7		µg/Kg-dry	1	3/26/2012 11:46:00 AM
Surr: 2-Fluorobiphenyl	140	52.6-93.2	S	%REC	1	3/26/2012 11:46:00 AM
Surr: 4-Terphenyl-d14	88.4	49.8-118		%REC	1	3/26/2012 11:46:00 AM
Surr: Nitrobenzene-d5	75.3	44.8-103		%REC	1	3/26/2012 11:46:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-15

Client Sample ID: GP5-S-0.5
Collection Date: 3/20/2012 4:53:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1221	ND	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1232	ND	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1242	16.6	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1248	ND	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1254	84.8	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1260	59.5	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1262	ND	0.487		µg/Kg-dry	1	3/26/2012
Aroclor 1268	ND	0.487		µg/Kg-dry	1	3/26/2012
Surr: Decachlorobiphenyl	52.4	56.5-130	S,MI	%REC	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-16

Client Sample ID: GP5-S-3
Collection Date: 3/20/2012 5:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrj		
Gasoline	ND	28.1		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	28.1		mg/Kg-dry	1	3/21/2012
Kerosene	ND	70.1		mg/Kg-dry	1	3/21/2012
Diesel	ND	70.1		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	140		mg/Kg-dry	1	3/21/2012
Surr: BFB	96.2	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	101	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	ND	21.0		mg/Kg-dry	1	3/26/2012
Lube Oil	ND	70.1		mg/Kg-dry	1	3/26/2012
Surr: o-Terphenyl	93.5	50-150		%REC	1	3/26/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	18100	6.05		mg/Kg-dry	1	3/21/2012 5:28:47 PM
Cadmium	0.496	0.121		mg/Kg-dry	1	3/21/2012 5:28:47 PM
Chromium	18.4	0.605		mg/Kg-dry	1	3/21/2012 5:28:47 PM
Copper	41.8	1.21		mg/Kg-dry	1	3/21/2012 5:28:47 PM
Lead	15.9	2.42		mg/Kg-dry	1	3/21/2012 5:28:47 PM
Nickel	18.6	0.605		mg/Kg-dry	1	3/21/2012 5:28:47 PM
Zinc	232	1.21		mg/Kg-dry	1	3/21/2012 5:28:47 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	3990	2420		µg/Kg-dry	20	3/22/2012 4:42:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0694	0.0220		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
1,2-Dichlorobenzene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
1,3-Dichlorobenzene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
1,4-Dichlorobenzene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
1-Methylnaphthalene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
2,4-Dinitrotoluene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
2,6-Dinitrotoluene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
2-Chloronaphthalene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
2-Methylnaphthalene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
2-Nitroaniline	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
3-Nitroaniline	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
4-Bromophenyl phenyl ether	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
4-Chloroaniline	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
4-Chlorophenyl phenyl ether	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203181
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203181-16

Client Sample ID: GP5-S-3
 Collection Date: 3/20/2012 5:00:00 PM
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Nitroaniline	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Acenaphthene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Acenaphthylene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Anthracene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Benz(a)anthracene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Benzo(a)pyrene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Benzo(b)fluoranthene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Benzo(g,h,i)perylene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Benzo(k)fluoranthene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Benzoic acid	ND	935		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Benzyl alcohol	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Bis(2-chloroethoxy)methane	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Bis(2-chloroethyl)ether	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Bis(2-chloroisopropyl)ether	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Bis(2-ethylhexyl)phthalate	52.8	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Butyl benzyl phthalate	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Chrysene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Di-n-butyl phthalate	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Di-n-octyl phthalate	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Dibenz(a,h)anthracene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Dibenzofuran	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Diethyl phthalate	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Dimethyl phthalate	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Fluoranthene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Fluorene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Hexachlorobenzene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Hexachlorobutadiene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Hexachlorocyclopentadiene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Hexachloroethane	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Indeno(1,2,3-cd)pyrene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Isophorone	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
N-Nitrosodi-n-propylamine	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
N-nitrosodimethylamine	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
N-Nitrosodiphenylamine	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Naphthalene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Nitrobenzene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Phenanthrene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Pyrene	ND	46.7		µg/Kg-dry	1	3/26/2012 10:54:00 AM
Surr: 2-Fluorobiphenyl	75.4	52.6-93.2		%REC	1	3/26/2012 10:54:00 AM
Surr: 4-Terphenyl-d14	94.7	49.8-118		%REC	1	3/26/2012 10:54:00 AM
Surr: Nitrobenzene-d5	50.3	44.8-103		%REC	1	3/26/2012 10:54:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-16

Client Sample ID: GP5-S-3
Collection Date: 3/20/2012 5:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1221	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1232	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1242	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1248	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1254	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1260	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1262	ND	0.467		µg/Kg-dry	1	3/26/2012
Aroclor 1268	ND	0.467		µg/Kg-dry	1	3/26/2012
Surr: Decachlorobiphenyl	84.4	56.5-130		%REC	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-17

Client Sample ID: GP6-S-0.5
Collection Date: 3/20/2012 5:10:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: jrp
Gasoline	ND	29.5		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	29.5		mg/Kg-dry	1	3/21/2012
Kerosene	ND	73.9		mg/Kg-dry	1	3/21/2012
Diesel	ND	73.9		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	148		mg/Kg-dry	1	3/21/2012
Surr: BFB	94.7	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	97.6	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP						Analyst: cmt
		E6010				
Aluminum	26000	6.37		mg/Kg-dry	1	3/21/2012 5:33:16 PM
Cadmium	0.815	0.127		mg/Kg-dry	1	3/21/2012 5:33:16 PM
Chromium	18.4	0.637		mg/Kg-dry	1	3/21/2012 5:33:16 PM
Copper	36.6	1.27		mg/Kg-dry	1	3/21/2012 5:33:16 PM
Lead	19.0	2.55		mg/Kg-dry	1	3/21/2012 5:33:16 PM
Nickel	23.0	0.637		mg/Kg-dry	1	3/21/2012 5:33:16 PM
Zinc	250	1.27		mg/Kg-dry	1	3/21/2012 5:33:16 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
		SW6020				
Arsenic	1850	1270		µg/Kg-dry	10	3/22/2012 2:55:00 PM
MERCURY, TOTAL						Analyst: cmt
		SW7471				
Mercury	0.0677	0.0224		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-18

Client Sample ID: GP6-S-3
Collection Date: 3/20/2012 5:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: jrp
Gasoline	ND	29.4		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	29.4		mg/Kg-dry	1	3/21/2012
Kerosene	ND	73.4		mg/Kg-dry	1	3/21/2012
Diesel	ND	73.4		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	147		mg/Kg-dry	1	3/21/2012
Surr: BFB	101	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	102	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	18200	5.92		mg/Kg-dry	1	3/21/2012 5:37:46 PM
Cadmium	ND	0.118		mg/Kg-dry	1	3/21/2012 5:37:46 PM
Chromium	22.5	0.592		mg/Kg-dry	1	3/21/2012 5:37:46 PM
Copper	39.5	1.18		mg/Kg-dry	1	3/21/2012 5:37:46 PM
Lead	ND	2.37		mg/Kg-dry	1	3/21/2012 5:37:46 PM
Nickel	15.8	0.592		mg/Kg-dry	1	3/21/2012 5:37:46 PM
Zinc	78.8	1.18		mg/Kg-dry	1	3/21/2012 5:37:46 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	2880	2370		µg/Kg-dry	20	3/22/2012 4:49:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.0396	0.0216		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-19

Client Sample ID: GP7-S-0.5
Collection Date: 3/20/2012 5:35:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrj		
Gasoline	ND	23.6		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	23.6		mg/Kg-dry	1	3/21/2012
Kerosene	ND	58.9		mg/Kg-dry	1	3/21/2012
Diesel	Diesel	58.9		mg/Kg-dry	1	3/21/2012
Lube Oil	Lube Oil	118		mg/Kg-dry	1	3/21/2012
Surr: BFB	97.6	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	102	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	147	17.7	A1	mg/Kg-dry	1	3/26/2012
Lube Oil	554	58.9	A2	mg/Kg-dry	1	3/26/2012
Surr: o-Terphenyl	109	50-150		%REC	1	3/26/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	11600	5.26		mg/Kg-dry	1	3/21/2012 5:42:16 PM
Cadmium	2.09	0.105		mg/Kg-dry	1	3/21/2012 5:42:16 PM
Chromium	90.2	0.526		mg/Kg-dry	1	3/21/2012 5:42:16 PM
Copper	133	1.05		mg/Kg-dry	1	3/21/2012 5:42:16 PM
Lead	219	2.10		mg/Kg-dry	1	3/21/2012 5:42:16 PM
Nickel	102	0.526		mg/Kg-dry	1	3/21/2012 5:42:16 PM
Zinc	441	1.05		mg/Kg-dry	1	3/21/2012 5:42:16 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	22700	4210		µg/Kg-dry	40	3/22/2012 4:56:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0939	0.0174		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
1,2-Dichlorobenzene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
1,3-Dichlorobenzene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
1,4-Dichlorobenzene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
1-Methylnaphthalene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
2,4-Dinitrotoluene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
2,6-Dinitrotoluene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
2-Chloronaphthalene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
2-Methylnaphthalene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
2-Nitroaniline	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
3-Nitroaniline	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
4-Bromophenyl phenyl ether	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
4-Chloroaniline	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
4-Chlorophenyl phenyl ether	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
 Lab Order: 1203181
 Project: Kelso IPG / 0443.02.02
 Lab ID: 1203181-19

Client Sample ID: GP7-S-0.5
 Collection Date: 3/20/2012 5:35:00 PM
 Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Nitroaniline	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Acenaphthene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Acenaphthylene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Anthracene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Benz(a)anthracene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Benzo(a)pyrene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Benzo(b)fluoranthene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Benzo(g,h,i)perylene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Benzo(k)fluoranthene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Benzoic acid	ND	786		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Benzyl alcohol	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Bis(2-chloroethoxy)methane	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Bis(2-chloroethyl)ether	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Bis(2-chloroisopropyl)ether	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Bis(2-ethylhexyl)phthalate	601	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Butyl benzyl phthalate	355	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Chrysene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Di-n-butyl phthalate	168	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Di-n-octyl phthalate	65.2	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Dibenz(a,h)anthracene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Dibenzofuran	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Diethyl phthalate	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Dimethyl phthalate	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Fluoranthene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Fluorene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Hexachlorobenzene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Hexachlorobutadiene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Hexachlorocyclopentadiene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Hexachloroethane	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Indeno(1,2,3-cd)pyrene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Isophorone	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
N-Nitrosodi-n-propylamine	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
N-nitrosodimethylamine	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
N-Nitrosodiphenylamine	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Naphthalene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Nitrobenzene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Phenanthrene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Pyrene	ND	39.2		µg/Kg-dry	1	3/26/2012 11:20:00 AM
Surr: 2-Fluorobiphenyl	96.0	52.6-93.2	S	%REC	1	3/26/2012 11:20:00 AM
Surr: 4-Terphenyl-d14	76.1	49.8-118		%REC	1	3/26/2012 11:20:00 AM
Surr: Nitrobenzene-d5	46.2	44.8-103		%REC	1	3/26/2012 11:20:00 AM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-19

Client Sample ID: GP7-S-0.5
Collection Date: 3/20/2012 5:35:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL						Analyst: jrp
		SW8082				
Aroclor 1016	ND	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1221	ND	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1232	ND	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1242	15.7	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1248	ND	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1254	53.4	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1260	47.1	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1262	ND	0.392		µg/Kg-dry	1	3/26/2012
Aroclor 1268	ND	0.392		µg/Kg-dry	1	3/26/2012
Surr: Decachlorobiphenyl	96.6	56.5-130		%REC	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-20

Client Sample ID: GP7-S-3
Collection Date: 3/20/2012 5:50:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrj		
Gasoline	ND	28.5		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	28.5		mg/Kg-dry	1	3/21/2012
Kerosene	ND	71.2		mg/Kg-dry	1	3/21/2012
Diesel	ND	71.2		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	142		mg/Kg-dry	1	3/21/2012
Surr: BFB	100	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	105	50-150		%REC	1	3/21/2012
NWTPH-DX		NWTPH-DX		Analyst: kh		
Diesel	ND	21.4		mg/Kg-dry	1	3/26/2012
Lube Oil	ND	71.2		mg/Kg-dry	1	3/26/2012
Surr: o-Terphenyl	101	50-150		%REC	1	3/26/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	11000	7.12		mg/Kg-dry	1	3/21/2012 5:46:59 PM
Cadmium	ND	0.142		mg/Kg-dry	1	3/21/2012 5:46:59 PM
Chromium	16.3	0.712		mg/Kg-dry	1	3/21/2012 5:46:59 PM
Copper	50.8	1.42		mg/Kg-dry	1	3/21/2012 5:46:59 PM
Lead	16.9	2.85		mg/Kg-dry	1	3/21/2012 5:46:59 PM
Nickel	13.2	0.712		mg/Kg-dry	1	3/21/2012 5:46:59 PM
Zinc	193	1.42		mg/Kg-dry	1	3/21/2012 5:46:59 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	2130	1420		µg/Kg-dry	10	3/22/2012 3:15:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	ND	0.0188		mg/Kg-dry	1	3/22/2012
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
1,2,4-Trichlorobenzene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
1,2-Dichlorobenzene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
1,3-Dichlorobenzene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
1,4-Dichlorobenzene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
1-Methylnaphthalene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
2,4-Dinitrotoluene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
2,6-Dinitrotoluene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
2-Chloronaphthalene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
2-Methylnaphthalene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
2-Nitroaniline	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
3-Nitroaniline	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
4-Bromophenyl phenyl ether	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
4-Chloroaniline	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
4-Chlorophenyl phenyl ether	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-20

Client Sample ID: GP7-S-3
Collection Date: 3/20/2012 5:50:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS- BASE/NEUTRAL		SW8270B		Analyst: bda		
4-Nitroaniline	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Acenaphthene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Acenaphthylene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Anthracene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Benz(a)anthracene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Benzo(a)pyrene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Benzo(b)fluoranthene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Benzo(g,h,i)perylene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Benzo(k)fluoranthene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Benzoic acid	ND	950		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Benzyl alcohol	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Bis(2-chloroethoxy)methane	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Bis(2-chloroethyl)ether	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Bis(2-chloroisopropyl)ether	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Bis(2-ethylhexyl)phthalate	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Butyl benzyl phthalate	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Chrysene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Di-n-butyl phthalate	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Di-n-octyl phthalate	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Dibenz(a,h)anthracene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Dibenzofuran	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Diethyl phthalate	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Dimethyl phthalate	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Fluoranthene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Fluorene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Hexachlorobenzene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Hexachlorobutadiene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Hexachlorocyclopentadiene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Hexachloroethane	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Indeno(1,2,3-cd)pyrene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Isophorone	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
N-Nitrosodi-n-propylamine	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
N-nitrosodimethylamine	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
N-Nitrosodiphenylamine	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Naphthalene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Nitrobenzene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Phenanthrene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Pyrene	ND	47.4		µg/Kg-dry	1	3/26/2012 12:46:00 PM
Surr: 2-Fluorobiphenyl	101	52.6-93.2	S	%REC	1	3/26/2012 12:46:00 PM
Surr: 4-Terphenyl-d14	91.5	49.8-118		%REC	1	3/26/2012 12:46:00 PM
Surr: Nitrobenzene-d5	78.8	44.8-103		%REC	1	3/26/2012 12:46:00 PM

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-20

Client Sample ID: GP7-S-3
Collection Date: 3/20/2012 5:50:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PCB'S IN SOIL		SW8082				Analyst: jrp
Aroclor 1016	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1221	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1232	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1242	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1248	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1254	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1260	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1262	ND	0.474		µg/Kg-dry	1	3/26/2012
Aroclor 1268	ND	0.474		µg/Kg-dry	1	3/26/2012
Surr: Decachlorobiphenyl	69.0	56.5-130		%REC	1	3/26/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-21

Client Sample ID: GP8-S-0.5
Collection Date: 3/20/2012 6:05:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID						Analyst: jrp
Gasoline	ND	29.4		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	29.4		mg/Kg-dry	1	3/21/2012
Kerosene	ND	73.5		mg/Kg-dry	1	3/21/2012
Diesel	ND	73.5		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	147		mg/Kg-dry	1	3/21/2012
Surr: BFB	95.4	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	100	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP						Analyst: cmt
Aluminum	18100	6.34		mg/Kg-dry	1	3/21/2012 5:51:32 PM
Cadmium	0.799	0.127		mg/Kg-dry	1	3/21/2012 5:51:32 PM
Chromium	21.1	0.634		mg/Kg-dry	1	3/21/2012 5:51:32 PM
Copper	106	1.27		mg/Kg-dry	1	3/21/2012 5:51:32 PM
Lead	113	2.54		mg/Kg-dry	1	3/21/2012 5:51:32 PM
Nickel	28.8	0.634		mg/Kg-dry	1	3/21/2012 5:51:32 PM
Zinc	211	1.27		mg/Kg-dry	1	3/21/2012 5:51:32 PM
TOTAL METALS BY ICP/MS						Analyst: cmt
Arsenic	5990	2540		µg/Kg-dry	20	3/22/2012 5:03:00 PM
MERCURY, TOTAL						Analyst: cmt
Mercury	0.737	0.0230		mg/Kg-dry	1	3/22/2012

Specialty Analytical

Date: 06-Apr-12

CLIENT: Maul, Foster & Alongi
Lab Order: 1203181
Project: Kelso IPG / 0443.02.02
Lab ID: 1203181-22

Client Sample ID: GP8-S-3
Collection Date: 3/20/2012 6:20:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		NWHCID		Analyst: jrp		
Gasoline	ND	29.3		mg/Kg-dry	1	3/21/2012
Mineral Spirits	ND	29.3		mg/Kg-dry	1	3/21/2012
Kerosene	ND	73.3		mg/Kg-dry	1	3/21/2012
Diesel	ND	73.3		mg/Kg-dry	1	3/21/2012
Lube Oil	ND	147		mg/Kg-dry	1	3/21/2012
Surr: BFB	101	50-150		%REC	1	3/21/2012
Surr: o-Terphenyl	104	50-150		%REC	1	3/21/2012
TOTAL METALS BY ICP		E6010		Analyst: cmt		
Aluminum	22700	6.32		mg/Kg-dry	1	3/21/2012 3:34:40 PM
Cadmium	ND	0.126		mg/Kg-dry	1	3/21/2012 3:34:40 PM
Chromium	21.7	0.632		mg/Kg-dry	1	3/21/2012 3:34:40 PM
Copper	39.7	1.26		mg/Kg-dry	1	3/21/2012 3:34:40 PM
Lead	ND	2.53		mg/Kg-dry	1	3/21/2012 3:34:40 PM
Nickel	15.6	0.632		mg/Kg-dry	1	3/21/2012 3:34:40 PM
Zinc	72.5	1.26		mg/Kg-dry	1	3/21/2012 3:34:40 PM
TOTAL METALS BY ICP/MS		SW6020		Analyst: cmt		
Arsenic	4640	1260		µg/Kg-dry	10	3/22/2012 12:07:00 PM
MERCURY, TOTAL		SW7471		Analyst: cmt		
Mercury	0.0443	0.0199		mg/Kg-dry	1	3/22/2012

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MBLK-31063	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/21/2012	Run ID: TJA IRIS_120321B						
Client ID: ZZZZZ	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/21/2012	SeqNo: 823845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Lead	ND	2.00									
Nickel	ND	0.500									
Zinc	ND	1.00									

Sample ID: MBLK-31154	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/28/2012	Run ID: TJA IRIS_120328D						
Client ID: ZZZZZ	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	5.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Copper	ND	1.00									
Lead	ND	2.00									
Nickel	ND	0.500									
Zinc	ND	1.00									

Sample ID: LCS-31063	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/21/2012	Run ID: TJA IRIS_120321B						
Client ID: ZZZZZ	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/21/2012	SeqNo: 823846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	244.8	5.00	250	0	97.9	80	120	0	0		
Cadmium	4.76	0.100	5	0	95.2	87.2	109	0	0		
Chromium	26.1	0.500	25	0	104	84	113	0	0		
Copper	46.6	1.00	50	0	93.2	91.3	111	0	0		
Lead	98.78	2.00	100	0	98.8	84.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-31063	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/21/2012	Run ID: TJA IRIS_120321B						
Client ID: ZZZZZ	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/21/2012	SeqNo: 823846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nickel	25	0.500	25	0	100	85.5	112	0	0		
Zinc	48.96	1.00	50	0	97.9	86.8	112	0	0		

Sample ID: LCS-31154	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/28/2012	Run ID: TJA IRIS_120328D						
Client ID: ZZZZZ	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825875						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	237.2	5.00	250	0	94.9	80	120	0	0		
Cadmium	4.81	0.100	5	0	96.2	87.2	109	0	0		
Chromium	24.86	0.500	25	0	99.4	84	113	0	0		
Copper	47.62	1.00	50	0	95.2	91.3	111	0	0		
Lead	96.75	2.00	100	0	96.8	84.9	109	0	0		
Nickel	24.18	0.500	25	0	96.7	85.5	112	0	0		
Zinc	48.16	1.00	50	0	96.3	86.8	112	0	0		

Sample ID: 1203181-22CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/21/2012	Run ID: TJA IRIS_120321B						
Client ID: GP8-S-3	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/21/2012	SeqNo: 823849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	29510	6.55	327.3	22740	2070	75	125	0	0		S,MC
Cadmium	6.363	0.131	6.546	0	97.2	86.4	113	0	0		
Chromium	59.87	0.655	32.73	21.69	117	75	121	0	0		
Copper	104.7	1.31	65.46	39.68	99.4	75.1	126	0	0		
Lead	129.9	2.62	130.9	0	99.2	84.9	109	0	0		
Nickel	50.64	0.655	32.73	15.62	107	89.3	105	0	0		S,MI
Zinc	149.5	1.31	65.46	72.48	118	86.2	113	0	0		S

Sample ID: 1203181-02CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/28/2012	Run ID: TJA IRIS_120328D						
Client ID: HA1-S-1.5	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1203181-02CMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/28/2012	Run ID: TJA IRIS_120328D
Client ID: HA1-S-1.5	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825878

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	24670	5.98	298.9	19830	1620	75	125	0	0		S,MI
Cadmium	5.416	0.120	5.978	0.2312	86.7	86.4	113	0	0		
Chromium	43.21	0.598	29.89	15.63	92.3	75	121	0	0		
Copper	86.54	1.20	59.78	33.25	89.1	75.1	126	0	0		
Lead	126.9	2.39	119.6	25.73	84.6	84.9	109	0	0		S,RP
Nickel	37.84	0.598	29.89	12.19	85.8	89.3	105	0	0		S,RP
Zinc	164.3	1.20	59.78	113.9	84.2	86.2	113	0	0		S,RP

Sample ID: 1203181-22CMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/21/2012	Run ID: TJA IRIS_120321B
Client ID: GP8-S-3	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/21/2012	SeqNo: 823850

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	27620	6.55	327.3	22740	1490	75	125	29510	6.60	20	S,MC
Cadmium	6.441	0.131	6.546	0	98.4	86.4	113	6.363	1.23	20	
Chromium	59.29	0.655	32.73	21.69	115	75	121	59.87	0.967	20	
Copper	105.6	1.31	65.46	39.68	101	75.1	126	104.7	0.809	20	
Lead	128.9	2.62	130.9	0	98.4	84.9	109	129.9	0.799	20	
Nickel	50.3	0.655	32.73	15.62	106	89.3	105	50.64	0.674	20	S,MI
Zinc	142.8	1.31	65.46	72.48	107	86.2	113	149.5	4.57	20	

Sample ID: 1203181-02CMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/28/2012	Run ID: TJA IRIS_120328D
Client ID: HA1-S-1.5	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825879

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	25080	5.98	298.9	19830	1760	75	125	24670	1.68	20	S,MI
Cadmium	5.596	0.120	5.978	0.2312	89.7	86.4	113	5.416	3.26	20	
Chromium	43.88	0.598	29.89	15.63	94.5	75	121	43.21	1.54	20	
Copper	87.12	1.20	59.78	33.25	90.1	75.1	126	86.54	0.661	20	
Lead	130.9	2.39	119.6	25.73	88	84.9	109	126.9	3.15	20	
Nickel	38.8	0.598	29.89	12.19	89	89.3	105	37.84	2.50	20	S,RP
Zinc	167	1.20	59.78	113.9	88.8	86.2	113	164.3	1.66	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 1203181-22CDUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/21/2012	Run ID: TJA IRIS_120321B
Client ID: GP8-S-3	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/21/2012	SeqNo: 823848

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	21820	6.32	0	0	0	0	0	22740	4.14	20	
Cadmium	ND	0.126	0	0	0	0	0	0	0	20	
Chromium	20.97	0.632	0	0	0	0	0	21.69	3.38	20	
Copper	38.38	1.26	0	0	0	0	0	39.68	3.34	20	
Lead	ND	2.53	0	0	0	0	0	0	0	20	
Nickel	14.94	0.632	0	0	0	0	0	15.62	4.47	20	
Zinc	76.39	1.26	0	0	0	0	0	72.48	5.25	20	

Sample ID: 1203181-02CDUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 3/28/2012	Run ID: TJA IRIS_120328D
Client ID: HA1-S-1.5	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825877

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	19640	6.08	0	0	0	0	0	19830	0.986	20	
Cadmium	0.2555	0.122	0	0	0	0	0	0.2312	10.0	20	
Chromium	15.5	0.608	0	0	0	0	0	15.63	0.860	20	
Copper	33.21	1.22	0	0	0	0	0	33.25	0.110	20	
Lead	24.62	2.43	0	0	0	0	0	25.73	4.40	20	
Nickel	11.94	0.608	0	0	0	0	0	12.19	2.12	20	
Zinc	112.9	1.22	0	0	0	0	0	113.9	0.944	20	

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120321B
Client ID: ZZZZZ	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/21/2012	SeqNo: 823844

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	245.2	5.00	250	0	98.1	90	110	0	0		
Cadmium	4.87	0.100	5	0	97.4	90	110	0	0		
Chromium	25.72	0.500	25	0	103	90	110	0	0		
Copper	46.69	1.00	50	0	93.4	90	110	0	0		
Lead	100.9	2.00	100	0	101	90	110	0	0		
Nickel	24.68	0.500	25	0	98.7	90	110	0	0		
Zinc	49.67	1.00	50	0	99.3	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120321B		
Client ID: ZZZZZ		Batch ID: 31063		TestNo: E6010				Analysis Date: 3/21/2012		SeqNo: 823854		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	253.6	5.00	250	0	101	90	110	0	0			
Cadmium	4.97	0.100	5	0	99.4	90	110	0	0			
Chromium	26.72	0.500	25	0	107	90	110	0	0			
Copper	47.63	1.00	50	0	95.3	90	110	0	0			
Lead	103.9	2.00	100	0	104	90	110	0	0			
Nickel	25.84	0.500	25	0	103	90	110	0	0			
Zinc	52.1	1.00	50	0	104	90	110	0	0			

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120321B		
Client ID: ZZZZZ		Batch ID: 31063		TestNo: E6010				Analysis Date: 3/21/2012		SeqNo: 823863		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	248.8	5.00	250	0	99.5	90	110	0	0			
Cadmium	4.84	0.100	5	0	96.8	90	110	0	0			
Chromium	26.17	0.500	25	0	105	90	110	0	0			
Copper	46.95	1.00	50	0	93.9	90	110	0	0			
Lead	103.1	2.00	100	0	103	90	110	0	0			
Nickel	25.33	0.500	25	0	101	90	110	0	0			
Zinc	51.03	1.00	50	0	102	90	110	0	0			

Sample ID: CCV		SampType: CCV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120321B		
Client ID: ZZZZZ		Batch ID: 31063		TestNo: E6010				Analysis Date: 3/21/2012		SeqNo: 823871		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	250.8	5.00	250	0	100	90	110	0	0			
Cadmium	4.97	0.100	5	0	99.4	90	110	0	0			
Chromium	26.64	0.500	25	0	107	90	110	0	0			
Copper	48.46	1.00	50	0	96.9	90	110	0	0			
Lead	105.4	2.00	100	0	105	90	110	0	0			
Nickel	26.09	0.500	25	0	104	90	110	0	0			
Zinc	51.95	1.00	50	0	104	90	110	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120321B						
Client ID: ZZZZZ	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	51.75	1.00	50	0	104	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120321B						
Client ID: ZZZZZ	Batch ID: 31063	TestNo: E6010		Analysis Date: 3/22/2012	SeqNo: 824388						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	53.56	1.00	50	0	107	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120328D						
Client ID: ZZZZZ	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825873						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	239.1	5.00	250	0	95.6	90	110	0	0	
Cadmium	4.85	0.100	5	0	97	90	110	0	0	
Chromium	24.77	0.500	25	0	99.1	90	110	0	0	
Copper	46.8	1.00	50	0	93.6	90	110	0	0	
Lead	97.62	2.00	100	0	97.6	90	110	0	0	
Nickel	24.28	0.500	25	0	97.1	90	110	0	0	
Zinc	49.05	1.00	50	0	98.1	90	110	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJA IRIS_120328D						
Client ID: ZZZZZ	Batch ID: 31154	TestNo: E6010		Analysis Date: 3/28/2012	SeqNo: 825882						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	240.8	5.00	250	0	96.3	90	110	0	0	
Cadmium	4.91	0.100	5	0	98.2	90	110	0	0	
Chromium	24.98	0.500	25	0	99.9	90	110	0	0	
Copper	47.84	1.00	50	0	95.7	90	110	0	0	
Lead	99.22	2.00	100	0	99.2	90	110	0	0	
Nickel	24.75	0.500	25	0	99	90	110	0	0	
Zinc	49.57	1.00	50	0	99.1	90	110	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120321B		
Client ID: ZZZZZ		Batch ID: 31063		TestNo: E6010				Analysis Date: 3/21/2012		SeqNo: 823843		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	243.6	5.00	250	0	97.4	90	110	0	0			
Cadmium	4.9	0.100	5	0	98	90	110	0	0			
Chromium	24.9	0.500	25	0	99.6	90	110	0	0			
Copper	48.58	1.00	50	0	97.2	90	110	0	0			
Lead	97.57	2.00	100	0	97.6	90	110	0	0			
Nickel	24.65	0.500	25	0	98.6	90	110	0	0			
Zinc	49.32	1.00	50	0	98.6	90	110	0	0			

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120321B		
Client ID: ZZZZZ		Batch ID: 31063		TestNo: E6010				Analysis Date: 3/22/2012		SeqNo: 824385		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Zinc	51.15	1.00	50	0	102	90	110	0	0			

Sample ID: ICV		SampType: ICV		TestCode: 6010_S		Units: mg/Kg		Prep Date:		Run ID: TJA IRIS_120328D		
Client ID: ZZZZZ		Batch ID: 31154		TestNo: E6010				Analysis Date: 3/28/2012		SeqNo: 825872		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	254.8	5.00	250	0	102	90	110	0	0			
Cadmium	5.16	0.100	5	0	103	90	110	0	0			
Chromium	26.33	0.500	25	0	105	90	110	0	0			
Copper	51.04	1.00	50	0	102	90	110	0	0			
Lead	102.6	2.00	100	0	103	90	110	0	0			
Nickel	25.93	0.500	25	0	104	90	110	0	0			
Zinc	52.02	1.00	50	0	104	90	110	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: MBLK-31064	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/21/2012	Run ID: ICPMS_120322A
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824264
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	100			
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Sample ID: MBLK-31155	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/28/2012	Run ID: ICPMS_120328A
Client ID: ZZZZZ	Batch ID: 31155	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825846
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	100			
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Sample ID: LCS-31064	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/21/2012	Run ID: ICPMS_120322A
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824259
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	5168	100	5000	0	103	75	115	0	0
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Sample ID: LCS-31155	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/28/2012	Run ID: ICPMS_120328A
Client ID: ZZZZZ	Batch ID: 31155	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825847
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	5119	100	5000	0	102	75	115	0	0
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Sample ID: LCSD-31155	SampType: LCSD	TestCode: 6020_S	Units: µg/Kg	Prep Date: 3/28/2012	Run ID: ICPMS_120328A
Client ID: ZZZZZ	Batch ID: 31155	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825848
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	5057	100	5000	0	101	80	120	5119	1.22	20
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Sample ID: 1203181-22CMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/21/2012	Run ID: ICPMS_120322A
Client ID: GP8-S-3	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824262
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: 1203181-22CMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/21/2012	Run ID: ICPMS_120322A						
Client ID: GP8-S-3	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824262						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8836	1410	7049	4644	59.5	70	130	0	0		S,MI

Sample ID: 1203181-22CMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/21/2012	Run ID: ICPMS_120322A						
Client ID: GP8-S-3	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824263						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9436	1410	7049	4644	68	70	130	8836	6.57	20	S,MI

Sample ID: 1203181-22CDUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 3/21/2012	Run ID: ICPMS_120322A						
Client ID: GP8-S-3	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4687	1260	0	0	0	0	0	4644	0.921	20	

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824265						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4509	100	5000	0	90.2	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824275						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4519	100	5000	0	90.4	90	110	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824284						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824284						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4681	100	5000	0	93.6	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824295						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4619	100	5000	0	92.4	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824300						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	4680	100	5000	0	93.6	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5175	100	5000	0	104	90	110	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120328A						
Client ID: ZZZZZ	Batch ID: 31155	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825852						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5132	100	5000	0	103	90	110	0	0		
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824257						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/22/2012	SeqNo: 824257						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5012	100	5000	0	100	90	110	0	0	
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120322A						
Client ID: ZZZZZ	Batch ID: 31064	TestNo: SW6020		Analysis Date: 3/23/2012	SeqNo: 824617						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5340	100	5000	0	107	90	110	0	0	
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Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	Run ID: ICPMS_120328A						
Client ID: ZZZZZ	Batch ID: 31155	TestNo: SW6020		Analysis Date: 3/28/2012	SeqNo: 825845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5099	100	5000	0	102	90	110	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: MB-31108	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 3/23/2012	Run ID: GCK_120326A						
Client ID: ZZZZZ	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/26/2012	SeqNo: 825258						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	6569	0	6667	0	98.5	56.5	130	0	0		

Sample ID: LCS-31108	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 3/23/2012	Run ID: GCK_120326A						
Client ID: ZZZZZ	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/26/2012	SeqNo: 825259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	42.67	0.333	66.67	0	64	44.3	137	0	0		
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Sample ID: 1203181-08BMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 3/23/2012	Run ID: GCK_120326A						
Client ID: GP1-S-6.5	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/26/2012	SeqNo: 825260						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	47.17	0.453	90.7	0	52	56.6	123	0	0		S,MI
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Sample ID: 1203181-08BMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 3/23/2012	Run ID: GCK_120326A						
Client ID: GP1-S-6.5	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/26/2012	SeqNo: 825261						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	68.03	0.453	90.7	0	75	56.6	123	47.17	36.2	20	R
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCB	SampType: CCB	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 3/23/2012	Run ID: GCK_120326A						
Client ID: ZZZZZ	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/27/2012	SeqNo: 825421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1242	ND	0.333	0	0	0	0	0	0	0	0	
Aroclor 1254	ND	0.333	0	0	0	0	0	0	0	0	
Aroclor 1260	ND	0.333	0	0	0	0	0	0	0	0	

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_120326A						
Client ID: ZZZZZ	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/26/2012	SeqNo: 825257						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	62.67	0.333	66.67	0	94	85	115	0	0		
Aroclor 1242	66.67	0.333	66.67	0	100	85	115	0	0		
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_120326A						
Client ID: ZZZZZ	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/26/2012	SeqNo: 825269						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	58	0.333	66.67	0	87	85	115	0	0		
Aroclor 1242	58.67	0.333	66.67	0	88	85	115	0	0		
Aroclor 1254	57.33	0.333	66.67	0	86	85	115	0	0		
Aroclor 1260	60	0.333	66.67	0	90	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	Run ID: GCK_120326A						
Client ID: ZZZZZ	Batch ID: 31108	TestNo: SW8082		Analysis Date: 3/27/2012	SeqNo: 825420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1242	66.67	0.333	66.67	0	100	85	115	0	0		
Aroclor 1254	66.67	0.333	66.67	0	100	85	115	0	0		
Aroclor 1260	66.67	0.333	66.67	0	100	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg		Prep Date:	Run ID: GCK_120326A					
Client ID: ZZZZZ	Batch ID: 31108	TestNo: SW8082			Analysis Date: 3/27/2012	SeqNo: 825423					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1242	70.67	0.333	66.67	0	106	85	115	0	0		
Aroclor 1254	70	0.333	66.67	0	105	85	115	0	0		
Aroclor 1260	75.33	0.333	66.67	0	113	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-31113	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5975X_120323A						
Client ID: ZZZZZ	Batch ID: 31113	TestNo: SW8260B		Analysis Date: 3/23/2012	SeqNo: 824833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	0.85	10.0									J
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	10.0									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	10.0									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	0.51	10.0									J
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	20.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	20.0									
Acetone	3.79	50.0									J
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-31113	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5975X_120323A						
Client ID: ZZZZZ	Batch ID: 31113	TestNo: SW8260B		Analysis Date: 3/23/2012	SeqNo: 824833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon Disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene Chloride	ND	50.0									
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	6.71	10.0									J
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1,2-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: MBLK-31113	SampType: MBLK	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5975X_120323A						
Client ID: ZZZZZ	Batch ID: 31113	TestNo: SW8260B		Analysis Date: 3/23/2012	SeqNo: 824833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl Chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	98.18	0	100	0	98.2	71.5	112	0	0		
Surr: 4-Bromofluorobenzene	95.95	0	100	0	96	75.7	122	0	0		
Surr: Dibromofluoromethane	101.2	0	100	0	101	64.3	124	0	0		
Surr: Toluene-d8	99.32	0	100	0	99.3	74.9	120	0	0		

Sample ID: LCS-31113	SampType: LCS	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5975X_120323A						
Client ID: ZZZZZ	Batch ID: 31113	TestNo: SW8260B		Analysis Date: 3/23/2012	SeqNo: 824832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	56.82	10.0	60	0	94.7	65.4	133	0	0		
Benzene	61.26	10.0	60	0	102	78	123	0	0		
Chlorobenzene	57.29	10.0	60	0	95.5	79.5	125	0	0		
Toluene	57.85	10.0	60	0	96.4	77.5	132	0	0		
Trichloroethene	57.68	10.0	60	0	96.1	72.4	124	0	0		

Sample ID: LCSD-31113	SampType: LCSD	TestCode: 8260_5035	Units: ug/Kg	Prep Date:	Run ID: 5975X_120323A						
Client ID: ZZZZZ	Batch ID: 31113	TestNo: SW8260B		Analysis Date: 3/23/2012	SeqNo: 824837						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	58.44	10.0	60	0	97.4	65.4	133	56.82	2.81	20	
Benzene	63.03	10.0	60	0	105	78	123	61.26	2.85	20	
Chlorobenzene	60.92	10.0	60	0	102	79.5	125	57.29	6.14	20	
Toluene	66.65	10.0	60	0	111	77.5	132	57.85	14.1	20	
Trichloroethene	60.19	10.0	60	0	100	72.4	124	57.68	4.26	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_5035

Sample ID: CCV-31113	SampType: CCV	TestCode: 8260_5035	Units: ug/Kg		Prep Date:	Run ID: 5975X_120323A					
Client ID: ZZZZZ	Batch ID: 31113	TestNo: SW8260B			Analysis Date: 3/23/2012	SeqNo: 824827					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	56.82	10.0	60	0	94.7	80	120	0	0		
1,2-Dichloropropane	56.2	10.0	60	0	93.7	80	120	0	0		
Chloroform	56.04	10.0	60	0	93.4	80	120	0	0		
Ethylbenzene	57.53	10.0	60	0	95.9	80	120	0	0		
Toluene	57.85	10.0	60	0	96.4	80	120	0	0		
Vinyl Chloride	58.88	10.0	60	0	98.1	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31100	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/22/2012	Run ID: 5973G_120326A						
Client ID: ZZZZZ	Batch ID: 31100	TestNo: SW8270B		Analysis Date: 3/26/2012	SeqNo: 824994						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	33.3									
1,2-Dichlorobenzene	ND	33.3									
1,3-Dichlorobenzene	ND	33.3									
1,4-Dichlorobenzene	ND	33.3									
1-Methylnaphthalene	ND	33.3									
2,4-Dinitrotoluene	ND	33.3									
2,6-Dinitrotoluene	ND	33.3									
2-Chloronaphthalene	ND	33.3									
2-Methylnaphthalene	ND	33.3									
2-Nitroaniline	ND	33.3									
3-Nitroaniline	ND	33.3									
4-Bromophenyl phenyl ether	ND	33.3									
4-Chloroaniline	ND	33.3									
4-Chlorophenyl phenyl ether	ND	33.3									
4-Nitroaniline	ND	33.3									
Acenaphthene	ND	33.3									
Acenaphthylene	ND	33.3									
Anthracene	ND	33.3									
Benz(a)anthracene	ND	33.3									
Benzo(a)pyrene	ND	33.3									
Benzo(b)fluoranthene	ND	33.3									
Benzo(g,h,i)perylene	19	33.3									J
Benzo(k)fluoranthene	ND	33.3									
Benzoic acid	ND	667									
Benzyl alcohol	ND	33.3									
Bis(2-chloroethoxy)methane	ND	33.3									
Bis(2-chloroethyl)ether	ND	33.3									
Bis(2-chloroisopropyl)ether	ND	33.3									
Bis(2-ethylhexyl)phthalate	ND	33.3									
Butyl benzyl phthalate	ND	33.3									
Chrysene	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

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 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31100	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg			Prep Date: 3/22/2012	Run ID: 5973G_120326A				
Client ID: ZZZZZ	Batch ID: 31100	TestNo: SW8270B				Analysis Date: 3/26/2012	SeqNo: 824994				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	ND	33.3									
Di-n-octyl phthalate	ND	33.3									
Dibenz(a,h)anthracene	19	33.3									J
Dibenzofuran	ND	33.3									
Diethyl phthalate	ND	33.3									
Dimethyl phthalate	ND	33.3									
Fluoranthene	ND	33.3									
Fluorene	ND	33.3									
Hexachlorobenzene	ND	33.3									
Hexachlorobutadiene	ND	33.3									
Hexachlorocyclopentadiene	ND	33.3									
Hexachloroethane	ND	33.3									
Indeno(1,2,3-cd)pyrene	18.67	33.3									J
Isophorone	ND	33.3									
N-Nitrosodi-n-propylamine	ND	33.3									
N-nitrosodimethylamine	ND	33.3									
N-Nitrosodiphenylamine	ND	33.3									
Naphthalene	ND	33.3									
Nitrobenzene	ND	33.3									
Phenanthrene	ND	33.3									
Pyrene	ND	33.3									
Surr: 2-Fluorobiphenyl	4797	0	3333	0	144	52.6	93.2	0	0		S
Surr: 4-Terphenyl-d14	3080	0	3333	0	92.4	49.8	118	0	0		
Surr: Nitrobenzene-d5	3223	0	3333	0	96.7	44.8	103	0	0		

Sample ID: MB-31148	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg			Prep Date: 3/27/2012	Run ID: 5973G_120328A				
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B				Analysis Date: 3/28/2012	SeqNo: 825733				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	33.3									
1,2-Dichlorobenzene	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31148	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	33.3									
1,4-Dichlorobenzene	ND	33.3									
1-Methylnaphthalene	ND	33.3									
2,4-Dinitrotoluene	ND	33.3									
2,6-Dinitrotoluene	ND	33.3									
2-Chloronaphthalene	ND	33.3									
2-Methylnaphthalene	ND	33.3									
2-Nitroaniline	ND	33.3									
3-Nitroaniline	ND	33.3									
4-Bromophenyl phenyl ether	ND	33.3									
4-Chloroaniline	ND	33.3									
4-Chlorophenyl phenyl ether	ND	33.3									
4-Nitroaniline	ND	33.3									
Acenaphthene	ND	33.3									
Acenaphthylene	ND	33.3									
Anthracene	ND	33.3									
Benz(a)anthracene	ND	33.3									
Benzo(a)pyrene	ND	33.3									
Benzo(b)fluoranthene	ND	33.3									
Benzo(g,h,i)perylene	ND	33.3									
Benzo(k)fluoranthene	ND	33.3									
Benzoic acid	ND	667									
Benzyl alcohol	ND	33.3									
Bis(2-chloroethoxy)methane	ND	33.3									
Bis(2-chloroethyl)ether	ND	33.3									
Bis(2-chloroisopropyl)ether	ND	33.3									
Bis(2-ethylhexyl)phthalate	ND	33.3									
Butyl benzyl phthalate	ND	33.3									
Chrysene	ND	33.3									
Di-n-butyl phthalate	ND	33.3									
Di-n-octyl phthalate	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31148	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A						
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	ND	33.3									
Dibenzofuran	ND	33.3									
Diethyl phthalate	ND	33.3									
Dimethyl phthalate	ND	33.3									
Fluoranthene	ND	33.3									
Fluorene	ND	33.3									
Hexachlorobenzene	ND	33.3									
Hexachlorobutadiene	ND	33.3									
Hexachlorocyclopentadiene	ND	33.3									
Hexachloroethane	ND	33.3									
Indeno(1,2,3-cd)pyrene	ND	33.3									
Isophorone	ND	33.3									
N-Nitrosodi-n-propylamine	ND	33.3									
N-nitrosodimethylamine	ND	33.3									
N-Nitrosodiphenylamine	ND	33.3									
Naphthalene	ND	33.3									
Nitrobenzene	ND	33.3									
Phenanthrene	ND	33.3									
Pyrene	ND	33.3									
Surr: 2-Fluorobiphenyl	4491	0	3333	0	135	52.6	93.2	0	0		S
Surr: 4-Terphenyl-d14	2865	0	3333	0	85.9	49.8	118	0	0		
Surr: Nitrobenzene-d5	2910	0	3333	0	87.3	44.8	103	0	0		

Sample ID: MB-31192	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 4/3/2012	Run ID: 5973G_120404A						
Client ID: ZZZZZ	Batch ID: 31192	TestNo: SW8270B		Analysis Date: 4/4/2012	SeqNo: 827943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	33.3									
1,2-Dichlorobenzene	ND	33.3									
1,3-Dichlorobenzene	ND	33.3									
1,4-Dichlorobenzene	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31192	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 4/3/2012	Run ID: 5973G_120404A						
Client ID: ZZZZZ	Batch ID: 31192	TestNo: SW8270B		Analysis Date: 4/4/2012	SeqNo: 827943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	33.3									
2,4-Dinitrotoluene	ND	33.3									
2,6-Dinitrotoluene	ND	33.3									
2-Chloronaphthalene	ND	33.3									
2-Methylnaphthalene	ND	33.3									
2-Nitroaniline	ND	33.3									
3-Nitroaniline	ND	33.3									
4-Bromophenyl phenyl ether	ND	33.3									
4-Chloroaniline	ND	33.3									
4-Chlorophenyl phenyl ether	ND	33.3									
4-Nitroaniline	ND	33.3									
Acenaphthene	ND	33.3									
Acenaphthylene	ND	33.3									
Anthracene	ND	33.3									
Benz(a)anthracene	ND	33.3									
Benzo(a)pyrene	ND	33.3									
Benzo(b)fluoranthene	ND	33.3									
Benzo(g,h,i)perylene	14	33.3									J
Benzo(k)fluoranthene	ND	33.3									
Benzoic acid	ND	667									
Benzyl alcohol	ND	33.3									
Bis(2-chloroethoxy)methane	ND	33.3									
Bis(2-chloroethyl)ether	ND	33.3									
Bis(2-chloroisopropyl)ether	ND	33.3									
Bis(2-ethylhexyl)phthalate	ND	33.3									
Butyl benzyl phthalate	ND	33.3									
Chrysene	ND	33.3									
Di-n-butyl phthalate	ND	33.3									
Di-n-octyl phthalate	ND	33.3									
Dibenz(a,h)anthracene	10.67	33.3									J
Dibenzofuran	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: MB-31192	SampType: MBLK	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 4/3/2012	Run ID: 5973G_120404A						
Client ID: ZZZZZ	Batch ID: 31192	TestNo: SW8270B		Analysis Date: 4/4/2012	SeqNo: 827943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethyl phthalate	ND	33.3									
Dimethyl phthalate	ND	33.3									
Fluoranthene	ND	33.3									
Fluorene	ND	33.3									
Hexachlorobenzene	ND	33.3									
Hexachlorobutadiene	ND	33.3									
Hexachlorocyclopentadiene	ND	33.3									
Hexachloroethane	ND	33.3									
Indeno(1,2,3-cd)pyrene	11.33	33.3									J
Isophorone	ND	33.3									
N-Nitrosodi-n-propylamine	ND	33.3									
N-nitrosodimethylamine	ND	33.3									
N-Nitrosodiphenylamine	ND	33.3									
Naphthalene	ND	33.3									
Nitrobenzene	12	33.3									J
Phenanthrene	ND	33.3									
Pyrene	ND	33.3									
Surr: 2-Fluorobiphenyl	4673	0	3333	0	140	52.6	93.2	0	0		S
Surr: 4-Terphenyl-d14	3162	0	3333	0	94.9	49.8	118	0	0		
Surr: Nitrobenzene-d5	2773	0	3333	0	83.2	44.8	103	0	0		

Sample ID: LCS-31100	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/22/2012	Run ID: 5973G_120326A						
Client ID: ZZZZZ	Batch ID: 31100	TestNo: SW8270B		Analysis Date: 3/26/2012	SeqNo: 824801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	682.7	33.3	1667	0	41	30.9	106	0	0		
1,4-Dichlorobenzene	567.3	33.3	1667	0	34	31.4	98.2	0	0		
2,4-Dinitrotoluene	1015	33.3	1667	0	60.9	59.7	111	0	0		
Acenaphthene	810	33.3	1667	0	48.6	48.2	105	0	0		
N-Nitrosodi-n-propylamine	923	33.3	1667	0	55.4	42.4	101	0	0		
Pyrene	1012	33.3	1667	0	60.7	56.7	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: LCS-31148	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 3/27/2012	Run ID: 5973G_120328A
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825732

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	981	33.3	1667	0	58.9	30.9	106	0	0		
1,4-Dichlorobenzene	981.3	33.3	1667	0	58.9	31.4	98.2	0	0		
2,4-Dinitrotoluene	1214	33.3	1667	0	72.8	59.7	111	0	0		
Acenaphthene	1122	33.3	1667	0	67.3	48.2	105	0	0		
N-Nitrosodi-n-propylamine	1276	33.3	1667	0	76.6	42.4	101	0	0		
Pyrene	1032	33.3	1667	0	61.9	56.7	130	0	0		

Sample ID: LCS-31192	SampType: LCS	TestCode: 8270BN_S	Units: µg/Kg	Prep Date: 4/3/2012	Run ID: 5973G_120404A
Client ID: ZZZZZ	Batch ID: 31192	TestNo: SW8270B		Analysis Date: 4/4/2012	SeqNo: 827942

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1234	33.3	1667	0	74	30.9	106	0	0		
1,4-Dichlorobenzene	1181	33.3	1667	0	70.8	31.4	98.2	0	0		
2,4-Dinitrotoluene	1310	33.3	1667	0	78.6	59.7	111	0	0		
Acenaphthene	1186	33.3	1667	0	71.1	48.2	105	0	0		
N-Nitrosodi-n-propylamine	1413	33.3	1667	0	84.8	42.4	101	0	0		
Pyrene	1083	33.3	1667	0	65	56.7	130	0	0		

Sample ID: 1203181-16AMS	SampType: MS	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 3/22/2012	Run ID: 5973G_120326A
Client ID: GP5-S-3	Batch ID: 31100	TestNo: SW8270B		Analysis Date: 3/26/2012	SeqNo: 824992

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1028	46.7	2338	0	44	31.1	92.7	0	0		
1,4-Dichlorobenzene	845.7	46.7	2338	0	36.2	16.5	85.6	0	0		
2,4-Dinitrotoluene	1616	46.7	2338	0	69.1	43.4	118	0	0		
Acenaphthene	1311	46.7	2338	0	56.1	45.1	102	0	0		
N-Nitrosodi-n-propylamine	1784	46.7	2338	0	76.3	45.6	94.1	0	0		
Pyrene	1255	46.7	2338	0	53.7	42.4	131	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: 1203227-01CMS	SampType: MS	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: 5973G_120328A
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825806

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1397	40.8	2040	0	68.5	31.1	92.7	0	0		
1,4-Dichlorobenzene	1427	40.8	2040	0	70	16.5	85.6	0	0		
2,4-Dinitrotoluene	602.2	40.8	2040	13.87	28.8	43.4	118	0	0		S,MI
Acenaphthene	1685	40.8	2040	0	82.6	45.1	102	0	0		
N-Nitrosodi-n-propylamine	1777	40.8	2040	0	87.1	45.6	94.1	0	0		
Pyrene	1461	40.8	2040	112.2	66.1	42.4	131	0	0		

Sample ID: 1203181-03CMS	SampType: MS	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 4/3/2012	Run ID: 5973G_120404A
Client ID: HA2-S-0.5	Batch ID: 31192	TestNo: SW8270B		Analysis Date: 4/4/2012	SeqNo: 827946

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1420	43.2	2162	0	65.7	31.1	92.7	0	0		
1,4-Dichlorobenzene	1231	43.2	2162	0	56.9	16.5	85.6	0	0		
2,4-Dinitrotoluene	1364	43.2	2162	0	63.1	43.4	118	0	0		
Acenaphthene	1517	43.2	2162	0	70.2	45.1	102	0	0		
N-Nitrosodi-n-propylamine	1585	43.2	2162	0	73.3	45.6	94.1	0	0		
Pyrene	1240	43.2	2162	0	57.4	42.4	131	0	0		

Sample ID: 1203181-16AMSD	SampType: MSD	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 3/22/2012	Run ID: 5973G_120326A
Client ID: GP5-S-3	Batch ID: 31100	TestNo: SW8270B		Analysis Date: 3/26/2012	SeqNo: 824993

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	791.5	46.7	2338	0	33.9	31.1	92.7	1028	26.0	20	R
1,4-Dichlorobenzene	659.7	46.7	2338	0	28.2	16.5	85.6	845.7	24.7	20	R
2,4-Dinitrotoluene	1630	46.7	2338	0	69.7	43.4	118	1616	0.864	20	
Acenaphthene	1200	46.7	2338	0	51.3	45.1	102	1311	8.86	20	
N-Nitrosodi-n-propylamine	1436	46.7	2338	0	61.4	45.6	94.1	1784	21.6	20	R
Pyrene	1238	46.7	2338	0	53	42.4	131	1255	1.35	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: 1203227-01CMSD	SampType: MSD	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 3/27/2012	Run ID: 5973G_120328A
Client ID: ZZZZZ	Batch ID: 31148	TestNo: SW8270B		Analysis Date: 3/28/2012	SeqNo: 825807

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1115	40.8	2040	0	54.6	31.1	92.7	1397	22.5	20	R
1,4-Dichlorobenzene	974.7	40.8	2040	0	47.8	16.5	85.6	1427	37.7	20	R
2,4-Dinitrotoluene	445.5	40.8	2040	13.87	21.2	43.4	118	602.2	29.9	20	S,R,MI
Acenaphthene	1450	40.8	2040	0	71.1	45.1	102	1685	15.0	20	
N-Nitrosodi-n-propylamine	1502	40.8	2040	0	73.6	45.6	94.1	1777	16.8	20	
Pyrene	1653	40.8	2040	112.2	75.5	42.4	131	1461	12.3	20	

Sample ID: 1203181-03CMSD	SampType: MSD	TestCode: 8270BN_S	Units: µg/Kg-dry	Prep Date: 4/3/2012	Run ID: 5973G_120404A
Client ID: HA2-S-0.5	Batch ID: 31192	TestNo: SW8270B		Analysis Date: 4/4/2012	SeqNo: 827947

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1316	43.2	2162	0	60.9	31.1	92.7	1420	7.62	20	
1,4-Dichlorobenzene	1164	43.2	2162	0	53.8	16.5	85.6	1231	5.60	20	
2,4-Dinitrotoluene	1333	43.2	2162	0	61.7	43.4	118	1364	2.28	20	
Acenaphthene	1454	43.2	2162	0	67.3	45.1	102	1517	4.25	20	
N-Nitrosodi-n-propylamine	1432	43.2	2162	0	66.2	45.6	94.1	1585	10.1	20	
Pyrene	1218	43.2	2162	0	56.3	42.4	131	1240	1.79	20	

Sample ID: CCV-31100	SampType: CCV	TestCode: 8270BN_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_120326A
Client ID: ZZZZZ	Batch ID: 31100	TestNo: SW8270B		Analysis Date: 3/26/2012	SeqNo: 824800

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1399	33.3	1333	0	105	80	120	0	0		
Acenaphthene	1469	33.3	1333	0	110	80	120	0	0		
Benzo(a)pyrene	1549	33.3	1333	0	116	80	120	0	0		
Di-n-octyl phthalate	1291	33.3	1333	0	96.8	80	120	0	0		
Fluoranthene	1282	33.3	1333	0	96.1	80	120	0	0		
Hexachlorobutadiene	1220	33.3	1333	0	91.5	80	120	0	0		
N-Nitrosodiphenylamine	1447	33.3	1333	0	108	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270BN_S

Sample ID: CCV-31148		SampType: CCV		TestCode: 8270BN_S		Units: µg/Kg		Prep Date:		Run ID: 5973G_120328A		
Client ID: ZZZZZ		Batch ID: 31148		TestNo: SW8270B				Analysis Date: 3/28/2012		SeqNo: 825731		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,4-Dichlorobenzene	1359	33.3	1333	0	102	80	120	0	0			
Acenaphthene	1469	33.3	1333	0	110	80	120	0	0			
Benzo(a)pyrene	1571	33.3	1333	0	118	80	120	0	0			
Di-n-octyl phthalate	1344	33.3	1333	0	101	80	120	0	0			
Fluoranthene	1377	33.3	1333	0	103	80	120	0	0			
Hexachlorobutadiene	1193	33.3	1333	0	89.5	80	120	0	0			
N-Nitrosodiphenylamine	1448	33.3	1333	0	109	80	120	0	0			

Sample ID: CCV-31192		SampType: CCV		TestCode: 8270BN_S		Units: µg/Kg		Prep Date:		Run ID: 5973G_120404A		
Client ID: ZZZZZ		Batch ID: 31192		TestNo: SW8270B				Analysis Date: 4/4/2012		SeqNo: 827941		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,4-Dichlorobenzene	1425	33.3	1333	0	107	80	120	0	0			
Acenaphthene	1319	33.3	1333	0	99	80	120	0	0			
Benzo(a)pyrene	1411	33.3	1333	0	106	80	120	0	0			
Di-n-octyl phthalate	1070	33.3	1333	0	80.3	80	120	0	0			
Fluoranthene	1350	33.3	1333	0	101	80	120	0	0			
Hexachlorobutadiene	1523	33.3	1333	0	114	80	120	0	0			
N-Nitrosodiphenylamine	1463	33.3	1333	0	110	80	120	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID: MB-31067	SampType: MBLK	TestCode: HCID_NW	Units: mg/Kg	Prep Date: 3/21/2012	Run ID: GC-O_120321A
Client ID: ZZZZZ	Batch ID: 31067	TestNo: NWHCID		Analysis Date: 3/21/2012	SeqNo: 823779

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	2.28	20.0									J
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	2.6	50.0									J
Lube Oil	1.87	100									J
Surr: BFB	100.7	0	100	0	101	50	150	0	0		
Surr: o-Terphenyl	105.8	0	100	0	106	50	150	0	0		

Sample ID: 1203181-10BDUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/21/2012	Run ID: GC-O_120321A
Client ID: GP2-S-0.5	Batch ID: 31067	TestNo: NWHCID		Analysis Date: 3/21/2012	SeqNo: 823782

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	2.863	28.5	0	0	0	0	0	3.034	0	20	J
Mineral Spirits	ND	28.5	0	0	0	0	0	0	0	20	
Kerosene	ND	71.2	0	0	0	0	0	0	0	20	
Diesel	2.194	71.2	0	0	0	0	0	0	0	20	J
Lube Oil	ND	142	0	0	0	0	0	0	0	20	

Sample ID: 1203181-17BDUP	SampType: DUP	TestCode: HCID_NW	Units: mg/Kg-dry	Prep Date: 3/21/2012	Run ID: GC-O_120321A
Client ID: GP6-S-0.5	Batch ID: 31067	TestNo: NWHCID		Analysis Date: 3/21/2012	SeqNo: 823789

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	4.032	29.5	0	0	0	0	0	4.151	0	20	J
Mineral Spirits	ND	29.5	0	0	0	0	0	0	0	20	
Kerosene	ND	73.9	0	0	0	0	0	0	0	20	
Diesel	10.71	73.9	0	0	0	0	0	5.554	0	20	J
Lube Oil	27.73	148	0	0	0	0	0	7.947	0	20	J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: MBLK-31088	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120322A
Client ID: ZZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824013
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	ND	0.0167									
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Sample ID: MB-31165	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/29/2012	Run ID: CVAA_120329B
Client ID: ZZZZZ	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825923
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	ND	0.0167									
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Sample ID: LCS-31088	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/22/2012	Run ID: CVAA_120322A
Client ID: ZZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824014
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	0.2665	0.0167	0.25	0	107	88.2	113	0	0		
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Sample ID: LCS-31165	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 3/29/2012	Run ID: CVAA_120329B
Client ID: ZZZZZ	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825922
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	0.2728	0.0167	0.25	0	109	88.2	113	0	0		
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Sample ID: 1203181-10CMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: CVAA_120322A
Client ID: GP2-S-0.5	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824017
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	0.3963	0.0223	0.3339	0.05908	101	78.1	125	0	0		
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Sample ID: 1203181-02CMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/29/2012	Run ID: CVAA_120329B
Client ID: HA1-S-1.5	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825925
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury											
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: 1203181-02CMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/29/2012	Run ID: CVAA_120329B						
Client ID: HA1-S-1.5	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825925						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.35	0.0217	0.3251	0.05454	90.9	78.1	125	0	0	
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Sample ID: 1203181-10CMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: CVAA_120322A						
Client ID: GP2-S-0.5	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824018						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.3846	0.0223	0.3339	0.05908	97.5	78.1	125	0.3963	2.99	20
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Sample ID: 1203181-02CMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/29/2012	Run ID: CVAA_120329B						
Client ID: HA1-S-1.5	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825926						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.3791	0.0217	0.3251	0.05454	99.9	78.1	125	0.35	8.00	20
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Sample ID: 1203181-10CDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/22/2012	Run ID: CVAA_120322A						
Client ID: GP2-S-0.5	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.05464	0.0238	0	0	0	0	0	0.05908	7.81	20
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Sample ID: 1203181-02CDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg-dry	Prep Date: 3/29/2012	Run ID: CVAA_120329B						
Client ID: HA1-S-1.5	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825924						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.05693	0.0211	0	0	0	0	0	0.05454	4.28	20
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120322A						
Client ID: ZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120322A						
Client ID: ZZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2661	0.0167	0.25	0	106	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120322A						
Client ID: ZZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824037						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2719	0.0167	0.25	0	109	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120322A						
Client ID: ZZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.259	0.0167	0.25	0	104	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120322A						
Client ID: ZZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.269	0.0167	0.25	0	108	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120322A						
Client ID: ZZZZZ	Batch ID: 31088	TestNo: SW7471		Analysis Date: 3/22/2012	SeqNo: 824042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.2539	0.0167	0.25	0	102	90	110	0	0	
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Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120329B						
Client ID: ZZZZZ	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	Run ID: CVAA_120329B						
Client ID: ZZZZZ	Batch ID: 31165	TestNo: SW7471		Analysis Date: 3/29/2012	SeqNo: 825927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2594	0.0167	0.25	0	104	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: MB-31109	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: GC-M_120326D						
Client ID: ZZZZZ	Batch ID: 31109	TestNo: NWTPH-Dx		Analysis Date: 3/26/2012	SeqNo: 825430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	35.64	0	33.33	0	107	50	150	0	0		

Sample ID: MB-31152	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/27/2012	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Hydraulic Oil	2.593	50.0									J
Lube Oil	22.42	50.0									J
Surr: o-Terphenyl	36.1	0	33.33	0	108	50	150	0	0		

Sample ID: MB-31193	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 4/3/2012	Run ID: GC-M_120403A						
Client ID: ZZZZZ	Batch ID: 31193	TestNo: NWTPH-Dx		Analysis Date: 4/3/2012	SeqNo: 827891						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	30.09	0	33.33	0	90.3	50	150	0	0		

Sample ID: LCS-31109	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/23/2012	Run ID: GC-M_120326D						
Client ID: ZZZZZ	Batch ID: 31109	TestNo: NWTPH-Dx		Analysis Date: 3/26/2012	SeqNo: 825431						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	185	15.0	166.6	0	111	76.3	125	0	0		
Lube Oil	165.3	50.0	166.6	0	99.2	69.9	127	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: LCS-31152	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 3/27/2012	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	168	15.0	166.6	0	101	76.3	125	0	0		
Lube Oil	152	50.0	166.6	0	91.2	69.9	127	0	0		

Sample ID: LCS-31193	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 4/3/2012	Run ID: GC-M_120403A						
Client ID: ZZZZZ	Batch ID: 31193	TestNo: NWTPH-Dx		Analysis Date: 4/3/2012	SeqNo: 827892						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	158.2	15.0	166.6	0	94.9	76.3	125	0	0		
Lube Oil	169.7	50.0	166.6	0	102	69.9	127	0	0		

Sample ID: 1203204-09ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: GC-M_120326D						
Client ID: ZZZZZ	Batch ID: 31109	TestNo: NWTPH-Dx		Analysis Date: 3/26/2012	SeqNo: 825434						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	19.5	0	0	0	0	0	0	0	20	
Lube Oil	ND	65.0	0	0	0	0	0	0	0	20	

Sample ID: 1203181-08BDUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 3/23/2012	Run ID: GC-M_120326D						
Client ID: GP1-S-6.5	Batch ID: 31109	TestNo: NWTPH-Dx		Analysis Date: 3/26/2012	SeqNo: 825440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	17.5	20.4	0	0	0	0	0	45.73	0	20	J
Lube Oil	66.54	68.0	0	0	0	0	0	155.4	0	20	J

Sample ID: 1203241-11ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 3/27/2012	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	20.1	0	0	0	0	0	0	0	20	
Lube Oil	25.74	66.8	0	0	0	0	0	30.73	0	20	J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: 1203181-05BDUP		SampType: DUP		TestCode: NWTPHDX_S		Units: mg/Kg-dry		Prep Date: 4/2/2012		Run ID: GC-M_120403A	
Client ID: HA3-S-0.5		Batch ID: 31193		TestNo: NWTPH-Dx				Analysis Date: 4/3/2012		SeqNo: 827895	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	165	18.5	0	0	0	0	0	244.4	38.8	20	R,A1,K,MI
Lube Oil	748.8	61.7	0	0	0	0	0	1099	37.9	20	R,A2,MI

Sample ID: CCB-31109		SampType: CCB		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_120326D	
Client ID: ZZZZZ		Batch ID: R72504		TestNo: NWTPH-Dx				Analysis Date: 3/26/2012		SeqNo: 825447	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0	0	0	0	0	0	0	0	0	
Lube Oil	ND	50.0	0	0	0	0	0	0	0	0	
Surr: o-Terphenyl	110.4	0	100	0	110	50	150	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_120326D	
Client ID: ZZZZZ		Batch ID: 31109		TestNo: NWTPH-Dx				Analysis Date: 3/26/2012		SeqNo: 825429	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1106	15.0	1023	0	108	85	115	0	0		
Lube Oil	558.4	50.0	524.9	0	106	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_120326D	
Client ID: ZZZZZ		Batch ID: 31109		TestNo: NWTPH-Dx				Analysis Date: 3/26/2012		SeqNo: 825446	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0	0	0	0	85	115	0	0		
Lube Oil	ND	50.0	0	0	0	85	115	0	0		

Sample ID: CCV		SampType: CCV		TestCode: NWTPHDX_S		Units: mg/Kg		Prep Date:		Run ID: GC-M_120326D	
Client ID: ZZZZZ		Batch ID: R72504		TestNo: NWTPH-Dx				Analysis Date: 3/26/2012		SeqNo: 825449	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	4139	15.0	4092	0	101	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120326D						
Client ID: ZZZZZ	Batch ID: R72504	TestNo: NWTPH-Dx		Analysis Date: 3/26/2012	SeqNo: 825449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lube Oil	1973	50.0	2100	0	94	85	115	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1394	15.0	1364	0	102	85	115	0	0		
Lube Oil	701.1	50.0	699.9	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120329C						
Client ID: ZZZZZ	Batch ID: 31152	TestNo: NWTPH-Dx		Analysis Date: 3/29/2012	SeqNo: 826221						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1039	15.0	1023	0	102	85	115	0	0		
Hydraulic Oil	542.5	50.0	506.2	0	107	85	115	0	0		
Lube Oil	526.2	50.0	524.9	0	100	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120403A						
Client ID: ZZZZZ	Batch ID: 31193	TestNo: NWTPH-Dx		Analysis Date: 4/3/2012	SeqNo: 827890						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	970.1	15.0	1023	0	94.8	85	115	0	0		
Lube Oil	482.9	50.0	524.9	0	92	85	115	0	0		

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	Run ID: GC-M_120403A						
Client ID: ZZZZZ	Batch ID: 31193	TestNo: NWTPH-Dx		Analysis Date: 4/3/2012	SeqNo: 827897						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1259	15.0	1364	0	92.3	85	115	0	0		
Lube Oil	642.5	50.0	699.9	0	91.8	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Maul, Foster & Alongi
Work Order: 1203181
Project: Kelso IPG / 0443.02.02

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_SA

Sample ID: MB-31123	SampType: MBLK	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: GC-I_120326B						
Client ID: ZZZZZ	Batch ID: 31123	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	2.294	2.50									J
Surr: 4-Bromofluorobenzene	4.518	0	5	0	90.4	50	150	0	0		

Sample ID: LCS-31123	SampType: LCS	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: GC-I_120326B						
Client ID: ZZZZZ	Batch ID: 31123	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	42.11	2.50	50	0	84.2	53.5	121	0	0		
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Sample ID: A1203204-21ADUP	SampType: DUP	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 3/26/2012	Run ID: GC-I_120326B						
Client ID: ZZZZZ	Batch ID: 31123	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	7225	125	0	0	0	0	0	6442	11.4	20	
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	Run ID: GC-I_120326B						
Client ID: ZZZZZ	Batch ID: 31123	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	113.3	2.50	125	0	90.6	80	120	0	0		
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	Run ID: GC-I_120326B						
Client ID: ZZZZZ	Batch ID: 31123	TestNo: NWTPH-Gx		Analysis Date: 3/26/2012	SeqNo: 825121						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	130.9	2.50	150	0	87.2	80	120	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

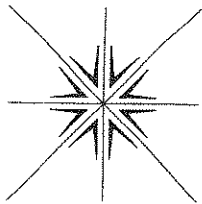
B - Analyte detected in the associated Method Blank

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Mike Stringer
Company MFA
Address 400 E Mill Plain Blvd, #400
Vancouver WA
Phone _____ Fax _____
Project No. 0443.0202 Project Name Keiso IPG
Project Site Location OR _____ WA Other _____
Invoice To _____ P.O. No. _____

Collected By:
Signature *Meaghan Gallagher*
Printed Meaghan Gallagher
Signature _____
Printed _____

Turn Around Time
 Normal 5-7 Business Days
 Rush _____
Specify _____

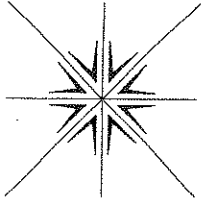
Rush Analyses Must Be Scheduled With The Lab In Advance

No. of Containers	Analyses										For Laboratory Use						
	NWTPH HC1D	AS 6020	Hg 7471	Al, Pb, Cd, Cu, Ni, Zn 6010	Total Chromium 6010	VOCs low level 8270	DX NWTPH	6x NWTPH	SVOCs 8270	PCBs 8082			Lab Job No.	Shipped Via	Air Bill No.	Temperature On Receipt _____ °C	Specialty Analytical Containers? Y/N
												<u>1203181</u>	<u>Specialty</u>		<u>5</u>		

Date	Time	Sample I.D.	Matrix	No. of Containers	NWTPH HC1D	AS 6020	Hg 7471	Al, Pb, Cd, Cu, Ni, Zn 6010	Total Chromium 6010	VOCs low level 8270	DX NWTPH	6x NWTPH	SVOCs 8270	PCBs 8082	Comments	Lab I.D.
3/20/11	11:35	HA1-S-0.5	S	7	X	X	X	X	X	X	X	X	X	X		
	11:55	HA1-S-1.5	S	7	HOLD						X	X	X	X	* Added 4/2/12 NB	
	12:15	HA2-S-0.5	S	7	X	X	X	X	X	X	X	X	X	X		
	12:30	HA2-S-1.5	S	7	HOLD						X	X	X	X		
	12:45	HA3-S-0.5	S	7	X	X	X	X	X	X	X	X	X	X		
	13:00	HA3-S-1.5	S	7	HOLD						X	X	X	X		
	15:11	GPI-S-0.5	S	7	X	X	X	X	X	X	X	X	X	X		
	15:20	GPI-S- 0.5 6.5 (10)	S	7	X	X	X	X	X	X	X	X	X	X	metals added 9/23	-01 -08
	15:25	GPI-S-9	S	7	HOLD						X	X	X	X		
	15:45	GP2-S-0.5	S	7	X	X	X	X	X	X	X	X	X	X		
	16:00	GP2-S-3	S	2	X	X	X	X	X	X	X	X	X	X		
↓	16:15	GP3-S-0.5	S	7	X	X	X	X	X	X	X	X	X	X		

Relinquished By: <u>Meaghan Gallagher</u>	Date: <u>3/20</u>	Time: <u>2000</u>	Received By: <u>Nikki Phipps</u>	Relinquished By: <u>→</u>	Date: _____	Time: _____
Company: <u>MFA</u>			Company: <u>Specialty</u>			
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)				Received For Lab By: <u>Nikki Phipps</u>	Date: <u>3/21/12</u>	Time: <u>0840</u>

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Mike Stringer
Company MAMI Foster & Alongi
Address 400 E Mill Plain Blvd #400
Vancouver WA
Phone _____ Fax _____
Project No. 0443.02.02 Project Name Kelso IPG
Project Site Location OR _____ WA X Other _____
Invoice To _____ P.O. No. _____

Collected By:
Signature [Signature]
Printed Meaghan Gallagher
Signature _____
Printed _____

Turn Around Time
 Normal 5-7 Business Days
 Rush _____
Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

COPS. See Comments

				Analyses										For Laboratory Use			
Date	Time	Sample I.D.	Matrix	No. of Containers	NWTRM HCID	As 6020	Hg 7471	Pb, Cu Cd, Ni, Zn 6010	Total Chromium 6010	low level VOCs 8260	NWTRM Dx	NWTRM Gx	SUOC 8270	PCB 8082	Lab Job No.	Comments	Lab I.D.
3/20/12	11025	GP3-S-3	S		X	X	X	X	X	X					1203181	2 containers	
	11030	GP4-S-2.S	S		X	X	X	X	X	X					Specialty	7 containers	
	11053	GP5-S-0.5	S		X	X	X	X	X	X	X	X	X	X		7 containers	-15
	1700	GP5-S-3	S		X	X	X	X	X	X	X	X	X	X		2 containers	-16
	1710	GP6-S-0.5	S		X	X	X	X	X	X						7 containers	
	1720	GP6-S-3	S		X	X	X	X	X	X						7 containers	
	1735	GP7-S-0.5	S		X	X	X	X	X	X	X	X	X	X		7 containers	-19
	1750	GP7-S-3	S		X	X	X	X	X	X	X	X	X	X		7 containers	-20
	1805	GP8-S-0.5	S		X	X	X	X	X	X						7 containers	
	1820	GP8-S-3	S		X	X	X	X	X	X						7 containers	

Relinquished By: <u>Meaghan Gallagher</u> Company: <u>MFA</u>	Date: <u>3/20</u> Time: <u>20:00</u>	Received By: <u>Nikki Pappas</u> Company: <u>Specialty</u>	Relinquished By: _____ Company: _____	Date: _____ Time: _____
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)			Received For Lab By: <u>Nikki Pappas</u>	Date: <u>3/2/12</u> Time: <u>0840</u>



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

June 08, 2012

Heather Hirsch
Maul Foster & Alongi
400 E. Mill Plain Blvd.
Suite 400
Vancouver, Washington 98660
TEL: (360) 927-1309
FAX (360) 906-1958
RE: Kelso IPG / 0443.02.02

Dear Heather Hirsch:

Order No.: 1205244

Specialty Analytical received 2 sample(s) on 5/31/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Marty French". The signature is fluid and cursive, with the first name being more prominent.

Marty French
Lab Director

Specialty Analytical

Date Reported: 08-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

Lab Order: 1205244

Lab ID: 1205244-001 **Collection Date:** 5/30/2012 8:45:00 AM

Client Sample ID: HA15-S-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	1.25	0.105		mg/Kg-dry	1	6/4/2012 5:47:25 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	7280	1050		µg/Kg-dry	10	6/4/2012 8:43:00 PM

Lab ID: 1205244-002 **Collection Date:** 5/30/2012 9:00:00 AM

Client Sample ID: HA15-S-1.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/7/2012 3:09:12 PM

QC SUMMARY REPORT

WO#: 1205244

08-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4585						
Client ID: ICV	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61344						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.95	0.100	5.000	0	99.0	90	110				
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Sample ID: MBLK-2714	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: PBS	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	ND	0.100									
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Sample ID: LCS-2714	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: LCSS	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	5.10	0.100	5.000	0	102	87.2	109				
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Sample ID: 1205244-001ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: HA15-S-0.5	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.20	0.105						1.255	4.29	20	
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Sample ID: 1205244-001AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: HA15-S-0.5	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	6.69	0.105	5.273	1.255	103	86.4	113				
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Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205244

08-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_S

Sample ID: 1205244-001AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: HA15-S-0.5	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	6.72	0.105	5.273	1.255	104	86.4	113	6.686	0.472	20	

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4585						
Client ID: CCV	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	4.98	0.100	5.000	0	99.6	90	110				

QC SUMMARY REPORT

WO#: 1205244
08-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4590						
Client ID: ICV	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61406						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4960	100	5000	0	99.3	90	110				

Sample ID: MBLK-2715	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: PBS	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61408						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	100									

Sample ID: LCS-2715	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: LCSS	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4220	100	5000	0	84.3	75	115				

Sample ID: 1205244-001ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: HA15-S-0.5	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61411						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6690	1050						7283	8.45	20	

Sample ID: 1205244-001AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: HA15-S-0.5	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14100	1050	5273	7283	130	70	130				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 3 of 4
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205244
08-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6020_S

Sample ID: 1205244-001AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: HA15-S-0.5	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13700	1050	5273	7283	121	70	130	14120	3.26	20	

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4590						
Client ID: CCV	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4820	100	5000	0	96.4	90	110				

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

June 20, 2012

Heather Hirsch
Maul Foster & Alongi
400 E. Mill Plain Blvd.
Suite 400
Vancouver, Washington 98660

TEL: (360) 927-1309

FAX (360) 906-1958

RE: Kelso IPG / 0443.02.02

Dear Heather Hirsch:

Order No.: 1206114

Specialty Analytical received 4 sample(s) on 6/15/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Marty French". The signature is fluid and cursive, with the first name being more prominent.

Marty French
Lab Director

Specialty Analytical

Date Reported: 20-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206114-001
Client Sample ID: MW-DUP

Collection Date: 6/13/2012 10:00:00 AM

Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		SW6020A				Analyst: CT
Arsenic	0.467	0.100		µg/L	1	6/18/2012 5:45:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrp
1-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
2-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Acenaphthene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Acenaphthylene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Anthracene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Benzo(a)pyrene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Benzo(b)fluoranthene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Benzo(g,h,i)perylene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Benzo(k)fluoranthene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Benzo[a]anthracene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Chrysene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Dibenz(a,h)anthracene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Fluoranthene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Fluorene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Naphthalene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Phenanthrene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Pyrene	ND	0.048		µg/L	1	6/19/2012 9:19:00 AM
Surr: 2-Fluorobiphenyl	58.1	18.6-106		%REC	1	6/19/2012 9:19:00 AM
Surr: Nitrobenzene-d5	44.3	17-130		%REC	1	6/19/2012 9:19:00 AM
Surr: Terphenyl-d14	92.0	39.6-131		%REC	1	6/19/2012 9:19:00 AM

Specialty Analytical

Date Reported: 20-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206114-002
Client Sample ID: MW-01

Collection Date: 6/13/2012 3:40:00 PM

Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		SW6020A				Analyst: CT
Arsenic	0.553	0.100		µg/L	1	6/18/2012 6:11:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrp
1-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
2-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Acenaphthene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Acenaphthylene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Anthracene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Benzo(a)pyrene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Benzo(b)fluoranthene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Benzo(g,h,i)perylene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Benzo(k)fluoranthene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Benzo[a]anthracene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Chrysene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Dibenz(a,h)anthracene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Fluoranthene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Fluorene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Naphthalene	0.076	0.048		µg/L	1	6/19/2012 9:45:00 AM
Phenanthrene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Pyrene	ND	0.048		µg/L	1	6/19/2012 9:45:00 AM
Surr: 2-Fluorobiphenyl	61.4	18.6-106		%REC	1	6/19/2012 9:45:00 AM
Surr: Nitrobenzene-d5	44.4	17-130		%REC	1	6/19/2012 9:45:00 AM
Surr: Terphenyl-d14	82.7	39.6-131		%REC	1	6/19/2012 9:45:00 AM

Specialty Analytical

Date Reported: 20-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206114-003
Client Sample ID: MW-02

Collection Date: 6/13/2012 10:00:00 AM

Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		SW6020A				Analyst: CT
Arsenic	0.192	0.100		µg/L	1	6/18/2012 6:18:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrj
1-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
2-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Acenaphthene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Acenaphthylene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Anthracene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Benzo(a)pyrene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Benzo(b)fluoranthene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Benzo(g,h,i)perylene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Benzo(k)fluoranthene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Benzo[a]anthracene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Chrysene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Dibenz(a,h)anthracene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Fluoranthene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Fluorene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Naphthalene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Phenanthrene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Pyrene	ND	0.048		µg/L	1	6/19/2012 10:12:00 AM
Surr: 2-Fluorobiphenyl	54.8	18.6-106		%REC	1	6/19/2012 10:12:00 AM
Surr: Nitrobenzene-d5	35.9	17-130		%REC	1	6/19/2012 10:12:00 AM
Surr: Terphenyl-d14	77.4	39.6-131		%REC	1	6/19/2012 10:12:00 AM

Specialty Analytical

Date Reported: 20-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206114-004
Client Sample ID: MW-03

Collection Date: 6/13/2012 11:15:00 AM

Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		SW6020A				Analyst: CT
Arsenic	0.453	0.100		µg/L	1	6/18/2012 6:25:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrj
1-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
2-Methylnaphthalene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Acenaphthene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Acenaphthylene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Anthracene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Benzo(a)pyrene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Benzo(b)fluoranthene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Benzo(g,h,i)perylene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Benzo(k)fluoranthene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Benzo[a]anthracene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Chrysene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Dibenz(a,h)anthracene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Fluoranthene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Fluorene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Naphthalene	0.115	0.048		µg/L	1	6/19/2012 10:39:00 AM
Phenanthrene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Pyrene	ND	0.048		µg/L	1	6/19/2012 10:39:00 AM
Surr: 2-Fluorobiphenyl	64.5	18.6-106		%REC	1	6/19/2012 10:39:00 AM
Surr: Nitrobenzene-d5	43.6	17-130		%REC	1	6/19/2012 10:39:00 AM
Surr: Terphenyl-d14	100	39.6-131		%REC	1	6/19/2012 10:39:00 AM

QC SUMMARY REPORT

WO#: 1206114
20-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6020_WDISS

Sample ID: ICV	SampType: ICV	TestCode: 6020_WDISS	Units: µg/L	Prep Date:	RunNo: 4847						
Client ID: ICV	Batch ID: 2850	TestNo: SW6020A	SW3010A	Analysis Date: 6/18/2012	SeqNo: 64732						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 49.6 0.100 50.00 0 99.3 90 110

Sample ID: MBLK-2850	SampType: ICB	TestCode: 6020_WDISS	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4847						
Client ID: ICB	Batch ID: 2850	TestNo: SW6020A	SW3010A	Analysis Date: 6/18/2012	SeqNo: 64735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.100

Sample ID: 1206114-001BMS	SampType: MS	TestCode: 6020_WDISS	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4847						
Client ID: MW-DUP	Batch ID: 2850	TestNo: SW6020A	SW3010A	Analysis Date: 6/18/2012	SeqNo: 64738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 43.9 0.100 50.00 0.4671 86.8 70 130

Sample ID: 1206114-001BMSD	SampType: MSD	TestCode: 6020_WDISS	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4847						
Client ID: MW-DUP	Batch ID: 2850	TestNo: SW6020A	SW3010A	Analysis Date: 6/18/2012	SeqNo: 64739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 44.4 0.100 50.00 0.4671 87.9 70 130 43.88 1.20 20

Sample ID: ICV	SampType: ICV	TestCode: 6020_WDISS	Units: µg/L	Prep Date:	RunNo: 4847						
Client ID: ICV	Batch ID: 2850	TestNo: SW6020A	SW3010A	Analysis Date: 6/19/2012	SeqNo: 64856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 51.8 0.100 50.00 0 104 90 110

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206114
20-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6020_WDISS

Sample ID: 1206114-001BDUP	SampType: DUP	TestCode: 6020_WDISS	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4847						
Client ID: MW-DUP	Batch ID: 2850	TestNo: SW6020A	SW3010A	Analysis Date: 6/19/2012	SeqNo: 64857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.546	0.100						0.4671	15.7	20	

Sample ID: CCV	SampType: CCV	TestCode: 6020_WDISS	Units: µg/L	Prep Date:	RunNo: 4847						
Client ID: CCV	Batch ID: 2850	TestNo: SW6020A	SW3010A	Analysis Date: 6/19/2012	SeqNo: 64858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	51.6	0.100	50.00	0	103	90	110				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206114
20-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: PAHLL_W

Sample ID: CCV	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	RunNo: 4859						
Client ID: CCV	Batch ID: 2851	TestNo: SW8270D	SW 3510C	Analysis Date: 6/19/2012	SeqNo: 64914						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	2.35	0.050	2.000	0	118	80	120				
2-Methylnaphthalene	1.90	0.050	2.000	0	95.0	80	120				
Acenaphthene	1.91	0.050	2.000	0	95.5	80	120				
Acenaphthylene	1.71	0.050	2.000	0	85.5	80	120				
Anthracene	1.89	0.050	2.000	0	94.5	80	120				
Benzo(a)pyrene	1.83	0.050	2.000	0	91.5	80	120				
Benzo(b)fluoranthene	1.65	0.050	2.000	0	82.5	80	120				
Benzo(g,h,i)perylene	1.95	0.050	2.000	0	97.5	80	120				
Benzo(k)fluoranthene	1.99	0.050	2.000	0	99.5	80	120				
Benzo[a]anthracene	1.64	0.050	2.000	0	82.0	80	120				
Chrysene	1.88	0.050	2.000	0	94.0	80	120				
Dibenz(a,h)anthracene	1.88	0.050	2.000	0	94.0	80	120				
Fluoranthene	1.91	0.050	2.000	0	95.5	80	120				
Fluorene	1.86	0.050	2.000	0	93.0	80	120				
Indeno(1,2,3-cd)pyrene	1.86	0.050	2.000	0	93.0	80	120				
Naphthalene	1.88	0.050	2.000	0	94.0	80	120				
Phenanthrene	1.82	0.050	2.000	0	91.0	80	120				
Pyrene	1.69	0.050	2.000	0	84.5	80	120				

Sample ID: MB-2851	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4859						
Client ID: PBW	Batch ID: 2851	TestNo: SW8270D	SW 3510C	Analysis Date: 6/19/2012	SeqNo: 64915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.050									
2-Methylnaphthalene	ND	0.050									

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 3 of 5
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206114
20-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: PAHLL_W

Sample ID: MB-2851	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4859						
Client ID: PBW	Batch ID: 2851	TestNo: SW8270D	SW 3510C	Analysis Date: 6/19/2012	SeqNo: 64915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.050									
Acenaphthylene	ND	0.050									
Anthracene	ND	0.050									
Benzo(a)pyrene	ND	0.050									
Benzo(b)fluoranthene	ND	0.050									
Benzo(g,h,i)perylene	ND	0.050									
Benzo(k)fluoranthene	ND	0.050									
Benzo[a]anthracene	ND	0.050									
Chrysene	ND	0.050									
Dibenz(a,h)anthracene	ND	0.050									
Fluoranthene	ND	0.050									
Fluorene	ND	0.050									
Indeno(1,2,3-cd)pyrene	ND	0.050									
Naphthalene	ND	0.050									
Phenanthrene	ND	0.050									
Pyrene	ND	0.050									
Surr: 2-Fluorobiphenyl	116		100.0		116	18.6	106				S
Surr: Nitrobenzene-d5	85.0		100.0		85.0	17	130				
Surr: Terphenyl-d14	137		100.0		137	39.6	131				S

Sample ID: LCS-2851	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4859						
Client ID: LCSW	Batch ID: 2851	TestNo: SW8270D	SW 3510C	Analysis Date: 6/19/2012	SeqNo: 64922						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.26	0.050	5.000	0	65.2	35.1	100				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 4 of 5
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206114

20-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: PAHLL_W

Sample ID: LCS-2851	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4859						
Client ID: LCSW	Batch ID: 2851	TestNo: SW8270D	SW 3510C	Analysis Date: 6/19/2012	SeqNo: 64922						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	4.21	0.050	5.000	0	84.2	20.8	120				
Chrysene	3.79	0.050	5.000	0	75.8	39.1	119				
Naphthalene	2.84	0.050	5.000	0	56.8	25.6	106				
Phenanthrene	3.30	0.050	5.000	0	66.0	38.1	106				
Pyrene	3.36	0.050	5.000	0	67.2	41.3	118				

Sample ID: LCSD-2851	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 6/18/2012	RunNo: 4859						
Client ID: LCSS02	Batch ID: 2851	TestNo: SW8270D	SW 3510C	Analysis Date: 6/19/2012	SeqNo: 64923						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.95	0.050	5.000	0	59.0	35.1	100	3.260	9.98	20	
Benzo(g,h,i)perylene	3.53	0.050	5.000	0	70.6	20.8	120	4.210	17.6	20	
Chrysene	3.76	0.050	5.000	0	75.2	39.1	119	3.790	0.795	20	
Naphthalene	2.38	0.050	5.000	0	47.6	25.6	106	2.840	17.6	20	
Phenanthrene	3.20	0.050	5.000	0	64.0	38.1	106	3.300	3.08	20	
Pyrene	3.87	0.050	5.000	0	77.4	41.3	118	3.360	14.1	20	

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

June 21, 2012

Heather Hirsch
Maul Foster & Alongi
400 E. Mill Plain Blvd.
Suite 400
Vancouver, Washington 98660
TEL: (360) 927-1309
FAX: (360) 906-1958
RE: Kelso IPG/ 0443.02.02-01

Dear Heather Hirsch:

Order No.: 1205229

Specialty Analytical received 14 sample(s) on 5/30/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Marty French". The signature is stylized and cursive.

Marty French
Lab Director

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

Lab Order: 1205229

Lab ID: 1205229-001 Collection Date: 5/29/2012 9:00:00 AM
Client Sample ID: HA08-S-0.5 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: eh
Percent Moisture	6.88	0		wt%	1	6/4/2012 3:16:49 PM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	ND	0.099		mg/Kg-dry	1	5/31/2012 4:55:14 PM
Lead	ND	1.99		mg/Kg-dry	1	5/31/2012 4:55:14 PM

Lab ID: 1205229-002 Collection Date: 5/29/2012 10:15:00 AM
Client Sample ID: HA08-S-1.5 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/20/2012 2:13:24 PM

Lab ID: 1205229-003 Collection Date: 5/29/2012 11:00:00 AM
Client Sample ID: HA09-S-0.5 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: eh
Percent Moisture	14.6	0		wt%	1	6/4/2012 3:16:49 PM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Lead	89.8	2.09		mg/Kg-dry	1	5/31/2012 5:31:35 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	14900	1050		µg/Kg-dry	10	5/31/2012 6:03:00 PM

Lab ID: 1205229-004 Collection Date: 5/29/2012 12:00:00 PM
Client Sample ID: HA09-S-1.5 Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/20/2012 2:13:24 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

Lab Order: 1205229

Lab ID: 1205229-005
Client Sample ID: HA10-S-0.5

Collection Date: 5/29/2012 12:10:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: kbh
Percent Moisture	25.8	0		wt%	1	5/31/2012 3:00:00 PM
NWTPH-DX		NWTPH-DX				Analyst: kbh
Diesel	103	20.2		mg/Kg-dry	1	5/31/2012 11:00:00 AM
Lube Oil	522	67.4		mg/Kg-dry	1	5/31/2012 11:00:00 AM
Surr: o-Terphenyl	89.3	50-150		%REC	1	5/31/2012 11:00:00 AM
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	ND	0.046		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Ethylbenzene	ND	0.18		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Toluene	ND	0.18		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Xylenes, Total	ND	0.55		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	77.4	42.6-126		%REC	1	5/31/2012 8:00:00 AM
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	ND	4.61		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	72.2	50-150		%REC	1	5/31/2012 8:00:00 AM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	3.97	0.135		mg/Kg-dry	1	5/31/2012 5:36:05 PM
Lead	639	2.69		mg/Kg-dry	1	5/31/2012 5:36:05 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	7160	1350		µg/Kg-dry	10	5/31/2012 6:09:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: bda
1-Methylnaphthalene	24.0	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
2-Methylnaphthalene	70.0	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Acenaphthene	ND	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Acenaphthylene	ND	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Anthracene	7.33	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Benz(a)anthracene	10.7	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Benzo(a)pyrene	14.0	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Benzo(b)fluoranthene	47.3	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Benzo(g,h,i)perylene	44.0	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Benzo(k)fluoranthene	10.7	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Chrysene	20.7	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Dibenz(a,h)anthracene	19.3	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM
Fluoranthene	26.0	6.67		µg/Kg-dry	1	6/2/2012 12:03:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

Lab Order: 1205229

PAH'S BY GC/MS - LOW LEVEL

SW8270D

Analyst: **bda**

Fluorene	ND	6.67	µg/Kg-dry	1	6/2/2012 12:03:00 PM
Indeno(1,2,3-cd)pyrene	28.0	6.67	µg/Kg-dry	1	6/2/2012 12:03:00 PM
Naphthalene	48.0	6.67	µg/Kg-dry	1	6/2/2012 12:03:00 PM
Phenanthrene	26.7	6.67	µg/Kg-dry	1	6/2/2012 12:03:00 PM
Pyrene	27.3	6.67	µg/Kg-dry	1	6/2/2012 12:03:00 PM
Surr: 2-Fluorobiphenyl	79.6	42.6-128	%REC	1	6/2/2012 12:03:00 PM
Surr: Nitrobenzene-d5	67.8	21.7-155	%REC	1	6/2/2012 12:03:00 PM
Surr: p-Terphenyl-d14	86.5	44.9-155	%REC	1	6/2/2012 12:03:00 PM

PCB'S IN SOIL

SW 8082A

Analyst: **jrp**

Aroclor 1016	ND	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1221	ND	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1232	ND	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1242	ND	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1248	97.0	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1254	154	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1260	119	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1262	ND	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Aroclor 1268	ND	0.449	µg/Kg-dry	1	6/4/2012 8:00:00 AM
Surr: Decachlorobiphenyl	122	56.5-130	%REC	1	6/4/2012 8:00:00 AM

Lab ID: 1205229-006

Collection Date: 5/29/2012 12:15:00 PM

Client Sample ID: HA10-S-1.5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PERCENT MOISTURE

D2216

Analyst: **mz**

Percent Moisture	28.6	0		wt%	1	6/6/2012 9:45:00 AM
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ICP METALS- TOTAL RECOVERABLE

SW6010C

Analyst: **CT**

Cadmium	2.40	0.130		mg/Kg-dry	1	6/6/2012 1:14:19 PM
Lead	203	2.59		mg/Kg-dry	1	6/6/2012 1:14:19 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

Lab Order: 1205229

Lab ID: 1205229-007 **Collection Date:** 5/29/2012 12:40:00 PM
Client Sample ID: HA11-S-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: jrp
Percent Moisture	37.8	0		wt%	1	6/1/2012 7:05:00 AM
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	ND	0.070		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Ethylbenzene	0.38	0.28		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Toluene	ND	0.28		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Xylenes, Total	ND	0.84		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	88.8	42.6-126		%REC	1	5/31/2012 8:00:00 AM

Lab ID: 1205229-008 **Collection Date:** 5/29/2012 12:45:00 PM
Client Sample ID: HA11-S-1.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: eh
Percent Moisture	17.9	0		wt%	1	6/12/2012
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	0.65	0.046		mg/Kg-dry	1	6/12/2012 2:00:00 PM
Surr: 4-Bromofluorobenzene	64.2	42.6-126		%REC	1	6/12/2012 2:00:00 PM

Lab ID: 1205229-009 **Collection Date:** 5/29/2012 1:00:00 PM
Client Sample ID: HA12-S-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: jrp
Percent Moisture	26.2	0		wt%	1	6/1/2012 7:05:00 AM
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	ND	0.060		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Ethylbenzene	ND	0.24		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Toluene	ND	0.24		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Xylenes, Total	ND	0.72		mg/Kg-dry	1	5/31/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	72.2	42.6-126		%REC	1	5/31/2012 8:00:00 AM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

Lab Order: 1205229

Lab ID: 1205229-010 **Collection Date:** 5/29/2012 1:10:00 PM

Client Sample ID: HA12-S-1.1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/20/2012 2:13:24 PM

Lab ID: 1205229-011 **Collection Date:** 5/29/2012 4:50:00 PM

Client Sample ID: HA13-S-0.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PERCENT MOISTURE		D2216				Analyst: mz
Percent Moisture	23.5	0		wt%	1	6/4/2012 4:00:00 PM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	2.03	0.131		mg/Kg-dry	1	5/31/2012 5:40:35 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	4220	1310		µg/Kg-dry	10	5/31/2012 6:16:00 PM

Lab ID: 1205229-012 **Collection Date:** 5/29/2012 5:00:00 PM

Client Sample ID: HA13-S-1.5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PERCENT MOISTURE		D2216				Analyst: mz
Percent Moisture	22.8	0		wt%	1	6/6/2012 9:45:00 AM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	0.292	0.127		mg/Kg-dry	1	6/6/2012 1:18:48 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

Lab Order: 1205229

Lab ID: 1205229-013

Collection Date: 5/29/2012 5:20:00 PM

Client Sample ID: HA14-S-0.5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: mz
Percent Moisture	24.5	0		wt%	1	6/4/2012 4:00:00 PM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	7.16	0.127		mg/Kg-dry	1	5/31/2012 5:45:05 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	6490	1270		µg/Kg-dry	10	5/31/2012 6:22:00 PM

Lab ID: 1205229-014

Collection Date: 5/29/2012 5:40:00 PM

Client Sample ID: HA14-S-1.5

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		D2216				Analyst: mz
Percent Moisture	23.2	0		wt%	1	6/6/2012 9:45:00 AM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	1.55	0.125		mg/Kg-dry	1	6/6/2012 1:23:17 PM

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4526						
Client ID: ICV	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	4.91	0.100	5.000	0	98.2	90	110				
Lead	95.9	2.00	100.0	0	95.9	90	110				

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4526						
Client ID: CCV	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	5.08	0.100	5.000	0	102	90	110				
Lead	99.9	2.00	100.0	0	99.9	90	110				

Sample ID: MBLK-2686	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4526						
Client ID: PBS	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60561						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	0.100									
Lead	ND	2.00									

Sample ID: LCS-2686	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4526						
Client ID: LCSS	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60562						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	5.01	0.100	5.000	0	100	87.2	109				
Lead	100	2.00	100.0	0	100	84.9	109				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 1 of 20
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 6010_S

Sample ID: 1205229-001ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4526						
Client ID: HA08-S-0.5	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	ND	0.099						0	0	20
Lead	ND	1.99						0	0	20

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4526						
Client ID: CCV	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60565						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.97	0.100	5.000	0	99.4	90	110
Lead	100	2.00	100.0	0	100	90	110

Sample ID: 1205229-001AMS	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4526						
Client ID: HA08-S-0.5	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.94	0.103	5.163	0	95.6	86.4	113
Lead	97.4	2.07	103.3	0	94.3	84.9	109

Sample ID: 1205229-001AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4526						
Client ID: HA08-S-0.5	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60567						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	5.11	0.103	5.163	0	99.0	86.4	113	4.936	3.49	20
Lead	102	2.07	103.3	0	98.4	84.9	109	97.38	4.28	20

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 2 of 20
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4526						
Client ID: CCV	Batch ID: 2686	TestNo: SW6010C	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60574						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.96	0.100	5.000	0	99.2	90	110				
Lead	99.8	2.00	100.0	0	99.8	90	110				

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4633						
Client ID: ICV	Batch ID: 2754	TestNo: SW6010C	SW3050B	Analysis Date: 6/6/2012	SeqNo: 61869						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.96	0.100	5.000	0	99.2	90	110				
Lead	100	2.00	100.0	0	100	90	110				

Sample ID: MBLK-2754	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4633						
Client ID: PBS	Batch ID: 2754	TestNo: SW6010C	SW3050B	Analysis Date: 6/6/2012	SeqNo: 61871						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	ND	0.100									
Lead	ND	2.00									

Sample ID: LCS-2754	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4633						
Client ID: LCSS	Batch ID: 2754	TestNo: SW6010C	SW3050B	Analysis Date: 6/6/2012	SeqNo: 61872						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.75	0.100	5.000	0	95.0	87.2	109				
Lead	96.7	2.00	100.0	0	96.7	84.9	109				

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 6010_S

Sample ID: 1206022-001BDUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4633						
Client ID: ZZZZZZ	Batch ID: 2754	TestNo: SW6010C	SW3050B	Analysis Date: 6/6/2012	SeqNo: 61874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	ND	0.096						0	0	20
Lead	ND	1.92						0	0	20

Sample ID: 1206022-001BMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4633						
Client ID: ZZZZZZ	Batch ID: 2754	TestNo: SW6010C	SW3050B	Analysis Date: 6/6/2012	SeqNo: 61875						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.52	0.098	4.902	0	92.2	86.4	113			
Lead	93.7	1.96	98.04	1.087	94.5	84.9	109			

Sample ID: 1206022-001BMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4633						
Client ID: ZZZZZZ	Batch ID: 2754	TestNo: SW6010C	SW3050B	Analysis Date: 6/6/2012	SeqNo: 61876						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.64	0.098	4.902	0	94.6	86.4	113	4.520	2.57	20
Lead	95.9	1.96	98.04	1.087	96.7	84.9	109	93.73	2.30	20

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4633						
Client ID: CCV	Batch ID: 2754	TestNo: SW6010C	SW3050B	Analysis Date: 6/6/2012	SeqNo: 61880						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.79	0.100	5.000	0	95.8	90	110			
Lead	96.6	2.00	100.0	0	96.6	90	110			

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4524						
Client ID: ICV	Batch ID: 2687	TestNo: SW6020A	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5250	100	5000	0	105	90	110				

Sample ID: MBLK-2687	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4524						
Client ID: PBS	Batch ID: 2687	TestNo: SW6020A	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	100									

Sample ID: LCS-2687	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4524						
Client ID: LCSS	Batch ID: 2687	TestNo: SW6020A	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60520						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4290	100	5000	0	85.9	75	115				

Sample ID: 1205229-001ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4524						
Client ID: HA08-S-0.5	Batch ID: 2687	TestNo: SW6020A	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60522						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1630	994						1617	0.979	20	

Sample ID: 1205229-001AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4524						
Client ID: HA08-S-0.5	Batch ID: 2687	TestNo: SW6020A	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60523						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6380	1030	5163	1617	92.2	70	130				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 5 of 20
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 6020_S

Sample ID: 1205229-001AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4524						
Client ID: HA08-S-0.5	Batch ID: 2687	TestNo: SW6020A	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60524						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6340	1030	5163	1617	91.4	70	130	6377	0.633	20	

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4524						
Client ID: CCV	Batch ID: 2687	TestNo: SW6020A	SW3050B	Analysis Date: 5/31/2012	SeqNo: 60530						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5090	100	5000	0	102	90	110				

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 4568						
Client ID: CCV	Batch ID: 2701	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/4/2012	SeqNo: 61107						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	64.7	0.333	66.67	0	97.0	85	115				
Aroclor 1248	66.7	0.333	66.67	0	100	85	115				
Aroclor 1254	66.7	0.333	66.67	0	100	85	115				
Aroclor 1260	66.7	0.333	66.67	0	100	85	115				

Sample ID: MB-2701	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4568						
Client ID: PBS	Batch ID: 2701	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/4/2012	SeqNo: 61108						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.333									
Aroclor 1221	ND	0.333									
Aroclor 1232	ND	0.333									
Aroclor 1242	ND	0.333									
Aroclor 1248	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									
Aroclor 1262	ND	0.333									
Aroclor 1268	ND	0.333									
Surr: Decachlorobiphenyl	4940		6667		74.1	56.5	130				

Sample ID: LCS-2701	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4568						
Client ID: LCSS	Batch ID: 2701	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/4/2012	SeqNo: 61109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016/1260	57.3	0.333	66.67	0	86.0	44.3	137				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 7 of 20
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: 8082LL_S

Sample ID: 1205229-005CMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4568						
Client ID: HA10-S-0.5	Batch ID: 2701	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/4/2012	SeqNo: 61110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260 56.6 0.449 89.81 0 63.0 56.6 123

Sample ID: 1205229-005CMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4568						
Client ID: HA10-S-0.5	Batch ID: 2701	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/4/2012	SeqNo: 61111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260 57.5 0.449 89.81 0 64.0 56.6 123 56.58 1.57 20

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 4568						
Client ID: CCV	Batch ID: 2701	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/4/2012	SeqNo: 61113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1248 72.0 0.333 66.67 0 108 85 115
 Aroclor 1254 66.7 0.333 66.67 0 100 85 115
 Aroclor 1260 68.0 0.333 66.67 0 102 85 115

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: BTEXRBC_SA

Sample ID: CCV	SampType: CCV	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date:	RunNo: 4537						
Client ID: CCV	Batch ID: 2704	TestNo: SW8021B	5035	Analysis Date: 5/31/2012	SeqNo: 60711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.5	0.025	2.500	0	99.0	85	115				
Ethylbenzene	2.6	0.10	2.500	0	105	85	115				
Toluene	2.6	0.10	2.500	0	103	85	115				
Xylenes, Total	7.9	0.30	7.500	0	105	85	115				

Sample ID: MB-2704	SampType: MBLK	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4537						
Client ID: PBS	Batch ID: 2704	TestNo: SW8021B	5035	Analysis Date: 5/31/2012	SeqNo: 60712						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.025									
Ethylbenzene	ND	0.10									
Toluene	ND	0.10									
Xylenes, Total	ND	0.30									
Surr: 4-Bromofluorobenzene	4.5		5.000		89.6	42.6	126				

Sample ID: LCS-2704	SampType: LCS	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4537						
Client ID: LCSS	Batch ID: 2704	TestNo: SW8021B	5035	Analysis Date: 5/31/2012	SeqNo: 60713						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.250	0	76.0	68.7	117				
Ethylbenzene	1.1	0.10	1.250	0	84.8	76.3	115				
Toluene	1.0	0.10	1.250	0	81.1	71.4	115				
Xylenes, Total	3.2	0.30	3.750	0	84.6	70.1	116				

Qualifiers:	B Analyte detected in the associated Method Blank R RPD outside accepted recovery limits	H Holding times for preparation or analysis exceeded S Spike Recovery outside accepted recovery limits	ND Not Detected at the Reporting Limit	Page 9 of 20
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QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: BTEXRBC_SA

Sample ID: 1205229-009BMS	SampType: MS	TestCode: BTEXRBC_S	Units: mg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4537						
Client ID: HA12-S-0.5	Batch ID: 2704	TestNo: SW8021B	5035	Analysis Date: 5/31/2012	SeqNo: 60717						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.7	0.060	3.016	0	90.1	32.2	108				
Ethylbenzene	2.9	0.24	3.016	0	96.1	53.3	107				
Toluene	2.9	0.24	3.016	0.04464	93.6	56.7	101				
Xylenes, Total	8.7	0.72	9.049	0.08928	95.6	47.5	119				

Sample ID: 1205229-009BMSD	SampType: MSD	TestCode: BTEXRBC_S	Units: mg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4537						
Client ID: HA12-S-0.5	Batch ID: 2704	TestNo: SW8021B	5035	Analysis Date: 5/31/2012	SeqNo: 60718						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.7	0.060	3.016	0	89.7	32.2	108	2.717	0.445	20	
Ethylbenzene	2.9	0.24	3.016	0	96.7	53.3	107	2.898	0.623	20	
Toluene	2.9	0.24	3.016	0.04464	94.2	56.7	101	2.867	0.629	20	
Xylenes, Total	8.7	0.72	9.049	0.08928	95.1	47.5	119	8.744	0.595	20	

Sample ID: CCV	SampType: CCV	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date:	RunNo: 4753						
Client ID: CCV	Batch ID: 2810	TestNo: SW8021B	5035	Analysis Date: 6/12/2012	SeqNo: 63231						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.5	0.025	2.500	0	99.9	85	115				

Sample ID: MB-2810	SampType: MBLK	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date: 6/12/2012	RunNo: 4753						
Client ID: PBS	Batch ID: 2810	TestNo: SW8021B	5035	Analysis Date: 6/12/2012	SeqNo: 63232						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.025									

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 10 of 20
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: BTEXRBC_SA

Sample ID: MB-2810	SampType: MBLK	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date: 6/12/2012	RunNo: 4753						
Client ID: PBS	Batch ID: 2810	TestNo: SW8021B	5035	Analysis Date: 6/12/2012	SeqNo: 63232						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene 2.8 5.000 55.7 42.6 126

Sample ID: 1205229-008BMS	SampType: MS	TestCode: BTEXRBC_S	Units: mg/Kg-dry	Prep Date: 6/12/2012	RunNo: 4753						
Client ID: HA11-S-1.5	Batch ID: 2810	TestNo: SW8021B	5035	Analysis Date: 6/12/2012	SeqNo: 63234						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 3.0 0.046 2.315 0.6491 101 32.2 108

Sample ID: 1205229-008BMSD	SampType: MSD	TestCode: BTEXRBC_S	Units: mg/Kg-dry	Prep Date: 6/12/2012	RunNo: 4753						
Client ID: HA11-S-1.5	Batch ID: 2810	TestNo: SW8021B	5035	Analysis Date: 6/12/2012	SeqNo: 63235						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 2.9 0.046 2.315 0.6491 95.1 32.2 108 2.977 4.35 20

Sample ID: LCS-2810	SampType: LCS	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date: 6/12/2012	RunNo: 4753						
Client ID: LCSS	Batch ID: 2810	TestNo: SW8021B	5035	Analysis Date: 6/12/2012	SeqNo: 63236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 1.1 0.025 1.250 0 87.5 68.7 117

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 4514						
Client ID: CCV	Batch ID: 2692	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 5/31/2012	SeqNo: 60399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1050	15.0	1022	0	103	85	115				
Lube Oil	483	50.0	524.5	0	92.2	85	115				

Sample ID: MB-2692	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4514						
Client ID: PBS	Batch ID: 2692	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 5/31/2012	SeqNo: 60400						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	31.4		33.30		94.2	50	150				

Sample ID: LCS-2692	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4514						
Client ID: LCSS	Batch ID: 2692	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 5/31/2012	SeqNo: 60401						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	166	15.0	166.5	0	99.6	76.3	125				
Lube Oil	155	50.0	166.5	0	93.0	69.9	127				

Sample ID: 1205234-001ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 5/31/2012	RunNo: 4514						
Client ID: ZZZZZZ	Batch ID: 2692	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 5/31/2012	SeqNo: 60403						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	23.6	19.8						22.15	6.33	20	
Lube Oil	110	66.1						110.8	1.07	20	

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 4514						
Client ID: CCV	Batch ID: 2692	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 5/31/2012	SeqNo: 60406						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1440	15.0	1363	0	105	85	115				
Lube Oil	711	50.0	699.3	0	102	85	115				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 13 of 20
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: NWTPHGX_SA

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	RunNo: 4517						
Client ID: CCV	Batch ID: 2703	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 5/31/2012	SeqNo: 60421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	133	2.50	125.0	0	107	80	120				
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Sample ID: MB-2703	SampType: MBLK	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4517						
Client ID: PBS	Batch ID: 2703	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 5/31/2012	SeqNo: 60422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.50									
Surr: 4-Bromofluorobenzene	4.19		5.000		83.8	50	150				

Sample ID: LCS-2703	SampType: LCS	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4517						
Client ID: LCSS	Batch ID: 2703	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 5/31/2012	SeqNo: 60423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	39.5	2.50	50.00	0	78.9	53.5	121				
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Sample ID: A1205234-002ADUP	SampType: DUP	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 5/31/2012	RunNo: 4517						
Client ID: ZZZZZZ	Batch ID: 2703	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 5/31/2012	SeqNo: 60425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.50						0	0	20	
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	RunNo: 4517						
Client ID: CCV	Batch ID: 2703	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 5/31/2012	SeqNo: 60427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 14 of 20
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: NWTPHGX_SA

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	RunNo: 4517						
Client ID: CCV	Batch ID: 2703	TestNo: NWTPH-Gx SW5035A		Analysis Date: 5/31/2012	SeqNo: 60427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	143	2.50	150.0	0	95.2	80	120				

Qualifiers: B Analyte detected in the associated Method Blank
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: PAHLL_S

Sample ID: MB-2693	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4550						
Client ID: PBS	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/2/2012	SeqNo: 60893						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(g,h,i)perylene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Fluoranthene	ND	6.67									
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Naphthalene	ND	6.67									
Phenanthrene	ND	6.67									
Pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	4570		6667		68.5	42.6	128				
Surr: Nitrobenzene-d5	4780		6667		71.6	21.7	155				
Surr: p-Terphenyl-d14	6330		6667		94.9	44.9	155				

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: PAHLL_S

Sample ID: LCS-2693	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4550						
Client ID: LCSS	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/2/2012	SeqNo: 60897						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	246	6.67	333.4	0	73.8	39.6	107				
Benzo(g,h,i)perylene	304	6.67	333.4	0	91.2	49.7	135				
Chrysene	273	6.67	333.4	0	81.8	57.1	130				
Naphthalene	219	6.67	333.4	0	65.8	29.1	109				
Phenanthrene	288	6.67	333.4	0	86.4	48.4	115				
Pyrene	281	6.67	333.4	0	84.2	47.2	134				

Sample ID: CCV-2693	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 4550						
Client ID: CCV	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/4/2012	SeqNo: 61033						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	64.0	6.67	66.67	0	96.0	80	120				
2-Methylnaphthalene	69.3	6.67	66.67	0	104	80	120				
Acenaphthene	65.3	6.67	66.67	0	98.0	80	120				
Acenaphthylene	70.0	6.67	66.67	0	105	80	120				
Anthracene	66.7	6.67	66.67	0	100	80	120				
Benz(a)anthracene	70.7	6.67	66.67	0	106	80	120				
Benzo(a)pyrene	72.0	6.67	66.67	0	108	80	120				
Benzo(b)fluoranthene	71.3	6.67	66.67	0	107	80	120				
Benzo(g,h,i)perylene	76.7	6.67	66.67	0	115	80	120				
Benzo(k)fluoranthene	70.7	6.67	66.67	0	106	80	120				
Chrysene	68.0	6.67	66.67	0	102	80	120				
Dibenz(a,h)anthracene	78.0	6.67	66.67	0	117	80	120				
Fluoranthene	72.0	6.67	66.67	0	108	80	120				
Fluorene	97.3	6.67	66.67	0	146	80	120				S

Qualifiers: B Analyte detected in the associated Method Blank
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: PAHLL_S

Sample ID: CCV-2693	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 4550						
Client ID: CCV	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/4/2012	SeqNo: 61033						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	78.7	6.67	66.67	0	118	80	120				
Naphthalene	71.3	6.67	66.67	0	107	80	120				
Phenanthrene	74.7	6.67	66.67	0	112	80	120				
Pyrene	69.3	6.67	66.67	0	104	80	120				
Surr: 2-Fluorobiphenyl	763										
Surr: Nitrobenzene-d5	717										
Surr: p-Terphenyl-d14	684										

Sample ID: CCB-2693	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 4550						
Client ID: CCB	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/4/2012	SeqNo: 61034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(g,h,i)perylene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Fluoranthene	ND	6.67									

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits	Page 18 of 20

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: PAHLL_S

Sample ID: CCB-2693	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 4550						
Client ID: CCB	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/4/2012	SeqNo: 61034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Naphthalene	ND	6.67									
Phenanthrene	ND	6.67									
Pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	4690		6667		70.4	42.6	128				
Surr: Nitrobenzene-d5	4510		6667		67.6	21.7	155				
Surr: p-Terphenyl-d14	6060		6667		90.9	44.9	155				

Sample ID: 1205234-002BMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4550						
Client ID: ZZZZZ	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/4/2012	SeqNo: 61035						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	198	6.67	333.4	0.6667	59.2	33.7	111				
Benzo(g,h,i)perylene	271	6.67	333.4	0.6667	81.0	15	128				
Chrysene	234	6.67	333.4	0.6667	70.0	37.5	125				
Naphthalene	181	6.67	333.4	0.6667	54.2	27.7	108				
Phenanthrene	235	6.67	333.4	0	70.6	20.2	139				
Pyrene	238	6.67	333.4	0	71.4	26.8	142				

Sample ID: 1205234-002BMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4550						
Client ID: ZZZZZ	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/4/2012	SeqNo: 61036						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	185	6.67	333.4	0.6667	55.4	33.7	111	198.0	6.61	20	

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1205229

13-Jul-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG/ 0443.02.02-01

TestCode: PAHLL_S

Sample ID: 1205234-002BMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 5/31/2012	RunNo: 4550						
Client ID: ZZZZZZ	Batch ID: 2693	TestNo: SW8270D	SW 3545A	Analysis Date: 6/4/2012	SeqNo: 61036						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	244	6.67	333.4	0.6667	73.0	15	128	270.7	10.4	20	
Chrysene	215	6.67	333.4	0.6667	64.4	37.5	125	234.0	8.31	20	
Naphthalene	165	6.67	333.4	0.6667	49.2	27.7	108	181.3	9.63	20	
Phenanthrene	217	6.67	333.4	0	65.0	20.2	139	235.3	8.26	20	
Pyrene	227	6.67	333.4	0	68.0	26.8	142	238.0	4.88	20	

Qualifiers: B Analyte detected in the associated Method Blank
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 S Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

June 21, 2012

Heather Hirsch
Maul Foster & Alongi
400 E. Mill Plain Blvd.
Suite 400
Vancouver, Washington 98660

TEL: (360) 927-1309

FAX (360) 906-1958

RE: Kelso IPG / 0443.02.02

Dear Heather Hirsch:

Order No.: 1206008

Specialty Analytical received 14 sample(s) on 6/1/2012 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Marty French". The signature is stylized and cursive.

Marty French
Lab Director

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-001
Client Sample ID: MW3-S-1.0

Collection Date: 5/31/2012 1:05:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	0.056	0.040		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Ethylbenzene	0.22	0.16		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Toluene	ND	0.16		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Xylenes, Total	0.74	0.48		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	95.4	42.6-126		%REC	1	6/4/2012 8:00:00 AM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-002
Client Sample ID: MW3-S-1.5

Collection Date: 5/31/2012 1:15:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	ND	0.069		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Ethylbenzene	ND	0.28		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Toluene	ND	0.28		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Xylenes, Total	ND	0.83		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	30.8	42.6-126	SMI	%REC	1	6/4/2012 8:00:00 AM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-003
Client Sample ID: GP12-S-1.4

Collection Date: 5/31/2012 3:20:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	1.57	0.123		mg/Kg-dry	1	6/4/2012 6:05:20 PM
Lead	138	2.47		mg/Kg-dry	1	6/4/2012 6:05:20 PM
TCLP METALS		SW6010C				Analyst: CT
Aluminum, TCLP	ND	1.25	Q	mg/L	5	6/6/2012 12:15:15 PM
Arsenic, TCLP	ND	0.100		mg/L	1	6/5/2012 3:15:39 PM
Cadmium, TCLP	ND	0.005		mg/L	1	6/5/2012 3:15:39 PM
Chromium, TCLP	0.098	0.025		mg/L	1	6/5/2012 3:15:39 PM
Copper, TCLP	0.057	0.050		mg/L	1	6/5/2012 3:15:39 PM
Lead, TCLP	ND	0.100		mg/L	1	6/5/2012 3:15:39 PM
Nickel, TCLP	0.056	0.025		mg/L	1	6/5/2012 3:15:39 PM
Zinc, TCLP	1.83	0.050		mg/L	1	6/5/2012 3:15:39 PM
TCLP METALS		E7470A				Analyst: CT
Mercury, TCLP	ND	0.00010		mg/L	1	6/6/2012 1:16:31 PM
TOTAL MERCURY		SW 7471B				Analyst: CT
Mercury	0.174	0.0182		mg/Kg-dry	1	6/6/2012 1:18:55 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrp
1-Methylnaphthalene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
2-Methylnaphthalene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Acenaphthene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Acenaphthylene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Anthracene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Benz(a)anthracene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Benzo(a)pyrene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Benzo(b)fluoranthene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Benzo(g,h,i)perylene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Benzo(k)fluoranthene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Chrysene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Dibenz(a,h)anthracene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Fluoranthene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Fluorene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Naphthalene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Phenanthrene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Pyrene	ND	8.22		µg/Kg-dry	1	6/5/2012 4:38:00 PM
Surr: 2-Fluorobiphenyl	43.2	42.6-128		%REC	1	6/5/2012 4:38:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-003
Client Sample ID: GP12-S-1.4

Collection Date: 5/31/2012 3:20:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrp
Surr: Nitrobenzene-d5	29.0	21.7-155		%REC	1	6/5/2012 4:38:00 PM
Surr: p-Terphenyl-d14	74.9	44.9-155		%REC	1	6/5/2012 4:38:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi

Collection Date: 5/31/2012 3:22:00 PM

Project: Kelso IPG / 0443.02.02

Lab ID: 1206008-004

Client Sample ID: GP12-S-6.0

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/20/2012 2:13:24 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-005
Client Sample ID: GP12-S-7.5

Collection Date: 5/31/2012 3:25:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/20/2012 2:13:24 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-006
Client Sample ID: GP13-S-1.0

Collection Date: 5/31/2012 3:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDROCARBONS		EPHMOD.				Analyst: jrp
>nC8-nC10 Aliphatic	10.4	5.54		mg/Kg-dry	1	6/8/2012
>nC10-nC12 Aliphatic	26.0	5.54		mg/Kg-dry	1	6/8/2012
>nC10-nC12 Aromatic	12.4	5.54		mg/Kg-dry	1	6/8/2012
>nC12-nC16 Aliphatic	105	5.54		mg/Kg-dry	1	6/8/2012
>nC12-nC16 Aromatic	11.8	5.54		mg/Kg-dry	1	6/8/2012
>nC16-nC21 Aliphatic	1230	5.54		mg/Kg-dry	1	6/8/2012
>nC16-nC21 Aromatic	182	5.54		mg/Kg-dry	1	6/8/2012
>nC21-nC34 Aliphatic	9640	27.7		mg/Kg-dry	5	6/8/2012
>nC21-nC34 Aromatic	1140	5.54		mg/Kg-dry	1	6/8/2012
Surr: Chlorooctadecane (Aliphatic)	295	50-150	SMI	%REC	1	6/8/2012
Surr: o-Terphenyl (Aromatic)	114	50-150		%REC	1	6/8/2012
NWTPH-DX		NWTPH-DX				Analyst: kbh
Diesel	2190	83.2	K	mg/Kg-dry	5	6/6/2012 1:20:00 AM
Lube Oil	8720	277		mg/Kg-dry	5	6/6/2012 1:20:00 AM
Surr: o-Terphenyl	205	50-150	SMI	%REC	5	6/6/2012 1:20:00 AM
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	0.44	0.034		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Ethylbenzene	0.28	0.14		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Toluene	0.42	0.14		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Xylenes, Total	0.79	0.41		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	79.1	42.6-126		%REC	1	6/4/2012 8:00:00 AM
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	50.7	3.38		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	92.5	50-150		%REC	1	6/4/2012 8:00:00 AM
VOLATILE PETROLEUM HYDROCARBONS		VPH				Analyst: jrp
Benzene	0.617	0.055		mg/Kg-dry	1	6/13/2012 9:00:00 AM
Toluene	1.06	0.055		mg/Kg-dry	1	6/13/2012 9:00:00 AM
Ethylbenzene	0.793	0.055		mg/Kg-dry	1	6/13/2012 9:00:00 AM
Xylenes, Total	3.45	0.055		mg/Kg-dry	1	6/13/2012 9:00:00 AM
n-Hexane	1.14	0.277		mg/Kg-dry	1	6/13/2012 9:00:00 AM
C5-C6 Aliphatic	2.02	1.39		mg/Kg-dry	1	6/13/2012 9:00:00 AM
>C6-C8 Aliphatic	5.34	1.39		mg/Kg-dry	1	6/13/2012 9:00:00 AM
>C8-C10 Aliphatic	ND	1.39		mg/Kg-dry	1	6/13/2012 9:00:00 AM
>C8-C10 Aromatic	16.6	1.39		mg/Kg-dry	1	6/13/2012 9:00:00 AM
>C10-C12 Aliphatic	ND	1.39		mg/Kg-dry	1	6/13/2012 9:00:00 AM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-006
Client Sample ID: GP13-S-1.0

Collection Date: 5/31/2012 3:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE PETROLEUM HYDROCARBONS		VPH				Analyst: jrj
>C10-C12 Aromatic	24.4	1.39		mg/Kg-dry	1	6/13/2012 9:00:00 AM
>C12-C13 Aromatic	11.9	1.39		mg/Kg-dry	1	6/13/2012 9:00:00 AM
Surr: aaa-Trifluorotoluene	103	50-150		%REC	1	6/13/2012 9:00:00 AM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	19.2	0.092		mg/Kg-dry	1	6/4/2012 6:09:53 PM
Lead	1480	1.85		mg/Kg-dry	1	6/4/2012 6:09:53 PM
TCLP METALS		SW6010C				Analyst: CT
Aluminum,TCLP	ND	1.25	Q	mg/L	5	6/6/2012 12:10:43 PM
Arsenic,TCLP	ND	0.100		mg/L	1	6/5/2012 3:11:07 PM
Cadmium,TCLP	0.237	0.005		mg/L	1	6/5/2012 3:11:07 PM
Chromium,TCLP	0.108	0.025		mg/L	1	6/5/2012 3:11:07 PM
Copper,TCLP	ND	0.050		mg/L	1	6/5/2012 3:11:07 PM
Lead,TCLP	8.89	0.100		mg/L	1	6/5/2012 3:11:07 PM
Nickel,TCLP	1.19	0.025		mg/L	1	6/5/2012 3:11:07 PM
Zinc,TCLP	352	0.250		mg/L	5	6/6/2012 12:10:43 PM
TCLP METALS		E7470A				Analyst: CT
Mercury, TCLP	ND	0.00010		mg/L	1	6/6/2012 1:16:31 PM
PCB'S IN SOIL		SW 8082A				Analyst: jrj
Aroclor 1016	ND	0.369		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1221	ND	0.369		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1232	ND	0.369		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1242	769	1.85		µg/Kg-dry	5	6/5/2012 4:00:00 PM
Aroclor 1248	ND	0.369		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1254	1360	1.85		µg/Kg-dry	5	6/5/2012 4:00:00 PM
Aroclor 1260	643	1.85		µg/Kg-dry	5	6/5/2012 4:00:00 PM
Aroclor 1262	ND	0.369		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1268	ND	0.369		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Surr: Decachlorobiphenyl	269	56.5-130	SMI	%REC	1	6/5/2012 4:00:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-007
Client Sample ID: GP13-S-2.8

Collection Date: 5/31/2012 3:35:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: kbh
Diesel	19.4	18.6		mg/Kg-dry	1	6/6/2012 1:20:00 AM
Lube Oil	130	61.9		mg/Kg-dry	1	6/6/2012 1:20:00 AM
Surr: o-Terphenyl	113	50-150		%REC	1	6/6/2012 1:20:00 AM
BTEX BY 8021/5035		SW8021B				Analyst: jrp
Benzene	ND	0.033		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Ethylbenzene	ND	0.13		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Toluene	ND	0.13		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Xylenes, Total	ND	0.40		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	91.4	42.6-126		%REC	1	6/4/2012 8:00:00 AM
NWTPH-GX		NWTPH-GX				Analyst: jrp
Gasoline	4.05	3.34		mg/Kg-dry	1	6/4/2012 8:00:00 AM
Surr: 4-Bromofluorobenzene	87.7	50-150		%REC	1	6/4/2012 8:00:00 AM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	0.139	0.107		mg/Kg-dry	1	6/4/2012 6:37:37 PM
Lead	786	2.13		mg/Kg-dry	1	6/4/2012 6:37:37 PM
PCB'S IN SOIL		SW 8082A				Analyst: jrp
Aroclor 1016	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1221	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1232	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1242	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1248	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1254	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1260	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1262	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1268	ND	0.412		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Surr: Decachlorobiphenyl	46.1	56.5-130	SMI	%REC	1	6/5/2012 4:00:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-008
Client Sample ID: GP14-S-1.6

Collection Date: 5/31/2012 4:00:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EXTRACTABLE PETROLEUM HYDROCARBONS		EPHMOD.				Analyst: jrj
>nC8-nC10 Aliphatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC10-nC12 Aliphatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC10-nC12 Aromatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC12-nC16 Aliphatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC12-nC16 Aromatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC16-nC21 Aliphatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC16-nC21 Aromatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC21-nC34 Aliphatic	ND	7.55		mg/Kg-dry	1	6/8/2012
>nC21-nC34 Aromatic	ND	7.55		mg/Kg-dry	1	6/8/2012
Surr: Chlorooctadecane (Aliphatic)	82.5	50-150		%REC	1	6/8/2012
Surr: o-Terphenyl (Aromatic)	83.0	50-150		%REC	1	6/8/2012
NWTPH-DX		NWTPH-DX				Analyst: kbh
Diesel	ND	22.6		mg/Kg-dry	1	6/6/2012 1:20:00 AM
Lube Oil	ND	75.5		mg/Kg-dry	1	6/6/2012 1:20:00 AM
Surr: o-Terphenyl	113	50-150		%REC	1	6/6/2012 1:20:00 AM
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	ND	0.130		mg/Kg-dry	1	6/4/2012 6:42:08 PM
Lead	ND	2.60		mg/Kg-dry	1	6/4/2012 6:42:08 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	5260	1300		µg/Kg-dry	10	6/4/2012 9:43:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrj
1-Methylnaphthalene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
2-Methylnaphthalene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Acenaphthene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Acenaphthylene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Anthracene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Benz(a)anthracene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Benzo(a)pyrene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Benzo(b)fluoranthene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Benzo(g,h,i)perylene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Benzo(k)fluoranthene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Chrysene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Dibenz(a,h)anthracene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Fluoranthene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Fluorene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-008
Client Sample ID: GP14-S-1.6

Collection Date: 5/31/2012 4:00:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL		SW8270D		Analyst: jrp		
Indeno(1,2,3-cd)pyrene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Naphthalene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Phenanthrene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Pyrene	ND	10.1		µg/Kg-dry	1	6/5/2012 5:05:00 PM
Surr: 2-Fluorobiphenyl	44.5	42.6-128		%REC	1	6/5/2012 5:05:00 PM
Surr: Nitrobenzene-d5	35.0	21.7-155		%REC	1	6/5/2012 5:05:00 PM
Surr: p-Terphenyl-d14	68.4	44.9-155		%REC	1	6/5/2012 5:05:00 PM
PCB'S IN SOIL		SW 8082A		Analyst: jrp		
Aroclor 1016	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1221	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1232	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1242	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1248	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1254	20.1	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1260	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1262	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Aroclor 1268	ND	0.503		µg/Kg-dry	1	6/5/2012 4:00:00 PM
Surr: Decachlorobiphenyl	90.1	56.5-130		%REC	1	6/5/2012 4:00:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-009
Client Sample ID: GP14-S-6.0

Collection Date: 5/31/2012 4:05:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/20/2012 2:13:24 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-010
Client Sample ID: GP14-S-7.7

Collection Date: 5/31/2012 4:10:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		PER CLIENT				Analyst: knb
Hold	Hold	0			1	6/20/2012 2:13:24 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-011
Client Sample ID: GP15-S-1.4

Collection Date: 5/31/2012 4:15:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	ND	0.133		mg/Kg-dry	1	6/4/2012 6:46:42 PM
Lead	ND	2.65		mg/Kg-dry	1	6/4/2012 6:46:42 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrj
1-Methylnaphthalene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
2-Methylnaphthalene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Acenaphthene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Acenaphthylene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Anthracene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Benz(a)anthracene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Benzo(a)pyrene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Benzo(b)fluoranthene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Benzo(g,h,i)perylene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Benzo(k)fluoranthene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Chrysene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Dibenz(a,h)anthracene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Fluoranthene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Fluorene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Indeno(1,2,3-cd)pyrene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Naphthalene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Phenanthrene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Pyrene	ND	9.20		µg/Kg-dry	1	6/5/2012 5:32:00 PM
Surr: 2-Fluorobiphenyl	42.5	42.6-128	S	%REC	1	6/5/2012 5:32:00 PM
Surr: Nitrobenzene-d5	35.0	21.7-155		%REC	1	6/5/2012 5:32:00 PM
Surr: p-Terphenyl-d14	68.7	44.9-155		%REC	1	6/5/2012 5:32:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-012
Client Sample ID: GP15-S-3.1

Collection Date: 5/31/2012 4:20:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Cadmium	ND	0.148		mg/Kg-dry	1	6/4/2012 6:51:14 PM
Lead	ND	2.96		mg/Kg-dry	1	6/4/2012 6:51:14 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: jrj
1-Methylnaphthalene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
2-Methylnaphthalene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Acenaphthene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Acenaphthylene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Anthracene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Benz(a)anthracene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Benzo(a)pyrene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Benzo(b)fluoranthene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Benzo(g,h,i)perylene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Benzo(k)fluoranthene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Chrysene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Dibenz(a,h)anthracene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Fluoranthene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Fluorene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Indeno(1,2,3-cd)pyrene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Naphthalene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Phenanthrene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Pyrene	ND	9.87		µg/Kg-dry	1	6/5/2012 5:58:00 PM
Surr: 2-Fluorobiphenyl	47.5	42.6-128		%REC	1	6/5/2012 5:58:00 PM
Surr: Nitrobenzene-d5	37.3	21.7-155		%REC	1	6/5/2012 5:58:00 PM
Surr: p-Terphenyl-d14	75.0	44.9-155		%REC	1	6/5/2012 5:58:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-013
Client Sample ID: GP16-S-1.2

Collection Date: 5/31/2012 4:25:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Lead	19.3	2.06		mg/Kg-dry	1	6/4/2012 6:55:47 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	6900	1030		µg/Kg-dry	10	6/4/2012 9:50:00 PM

Specialty Analytical

Date Reported: 21-Jun-12

CLIENT: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02
Lab ID: 1206008-014
Client Sample ID: GP16-S-2.8

Collection Date: 5/31/2012 4:30:00 PM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS- TOTAL RECOVERABLE		SW6010C				Analyst: CT
Lead	7.72	2.27		mg/Kg-dry	1	6/4/2012 7:00:19 PM
ICP/MS METALS-TOTAL RECOVERABLE		SW6020A				Analyst: CT
Arsenic	1250	1140		µg/Kg-dry	10	6/4/2012 9:57:00 PM

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_S

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4585						
Client ID: ICV	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61344						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.95	0.100	5.000	0	99.0	90	110				
Lead	102	2.00	100.0	0	102	90	110				

Sample ID: MBLK-2714	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: PBS	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	ND	0.100									
Lead	ND	2.00									

Sample ID: LCS-2714	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: LCSS	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	5.10	0.100	5.000	0	102	87.2	109				
Lead	105	2.00	100.0	0	105	84.9	109				

Sample ID: 1205244-001ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: ZZZZZZ	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	1.20	0.105						1.255	4.29	20	
Lead	339	2.11						332.7	1.73	20	

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_S

Sample ID: 1205244-001AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: ZZZZZZ	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	6.69	0.105	5.273	1.255	103	86.4	113				
Lead	464	2.11	105.5	332.7	124	84.9	109				S

Sample ID: 1205244-001AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4585						
Client ID: ZZZZZZ	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	6.72	0.105	5.273	1.255	104	86.4	113	6.686	0.472	20	
Lead	467	2.11	105.5	332.7	127	84.9	109	463.6	0.635	20	S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	RunNo: 4585						
Client ID: CCV	Batch ID: 2714	TestNo: SW6010C	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.98	0.100	5.000	0	99.6	90	110				
Lead	103	2.00	100.0	0	103	90	110				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_W

Sample ID: ICV	SampType: ICV	TestCode: 6010_W	Units: mg/L	Prep Date:	RunNo: 4620						
Client ID: ICV	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61752						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum,TCLP	2.60	0.050	2.500	0	104	90	110				
Arsenic,TCLP	1.01	0.020	1.000	0	101	90	110				
Cadmium,TCLP	0.050	0.001	0.05000	0	99.8	90	110				
Chromium,TCLP	0.255	0.005	0.2500	0	102	90	110				
Copper,TCLP	0.518	0.010	0.5000	0	104	90	110				
Lead,TCLP	1.02	0.020	1.000	0	102	90	110				
Nickel,TCLP	0.262	0.005	0.2500	0	105	90	110				
Zinc,TCLP	0.519	0.010	0.5000	0	104	90	110				

Sample ID: MBLK-2732	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 6/5/2012	RunNo: 4620						
Client ID: PBW	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum,TCLP	ND	0.050									
Arsenic,TCLP	ND	0.020									
Cadmium,TCLP	ND	0.001									
Chromium,TCLP	ND	0.005									
Copper,TCLP	ND	0.010									
Lead,TCLP	ND	0.020									
Nickel,TCLP	ND	0.005									
Zinc,TCLP	ND	0.010									

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_W

Sample ID: LCS-2732	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/5/2012	RunNo: 4620						
Client ID: LCSW	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum,TCLP	2.56	0.050	2.500	0	102	80	120				
Arsenic,TCLP	0.986	0.020	1.000	0	98.6	93.8	107				
Cadmium,TCLP	0.049	0.001	0.05000	0	97.2	91.8	110				
Chromium,TCLP	0.264	0.005	0.2500	0	105	93.9	113				
Copper,TCLP	0.497	0.010	0.5000	0	99.4	89.7	117				
Lead,TCLP	0.997	0.020	1.000	0	99.7	93.1	112				
Nickel,TCLP	0.257	0.005	0.2500	0	103	93.4	111				
Zinc,TCLP	0.508	0.010	0.5000	0	102	92.3	111				

Sample ID: A1206013-001DDUP	SampType: DUP	TestCode: 6010_W	Units: mg/L	Prep Date: 6/5/2012	RunNo: 4620						
Client ID: ZZZZZ	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61757						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic,TCLP	ND	0.020						0	0	20	
Cadmium,TCLP	ND	0.001						0	0	20	
Chromium,TCLP	0.010	0.005						0.01570	40.6	20	RF
Copper,TCLP	ND	0.010						0	0	20	
Lead,TCLP	ND	0.020						0	0	20	
Nickel,TCLP	0.005	0.005						0.009200	53.8	20	RF
Zinc,TCLP	0.012	0.010						0.01400	16.2	20	

Sample ID: A1206013-001DMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/5/2012	RunNo: 4620						
Client ID: ZZZZZ	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61758						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 4 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_W

Sample ID: A1206013-001DMS		SampType: MS		TestCode: 6010_W		Units: mg/L		Prep Date: 6/5/2012		RunNo: 4620	
Client ID: ZZZZZZ		Batch ID: 2732		TestNo: SW6010C		SW3010A		Analysis Date: 6/5/2012		SeqNo: 61758	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic,TCLP	0.924	0.020	1.000	0	92.4	90.1	110				
Cadmium,TCLP	0.046	0.001	0.05000	0.0004000	91.6	93.4	110				SRP
Chromium,TCLP	0.244	0.005	0.2500	0.01570	91.3	93.4	112				SRP
Copper,TCLP	0.439	0.010	0.5000	0	87.8	92.7	114				SRP
Lead,TCLP	0.895	0.020	1.000	0.01130	88.4	91.9	112				SRP
Nickel,TCLP	0.229	0.005	0.2500	0.009200	88.0	88.5	112				SRP
Zinc,TCLP	0.486	0.010	0.5000	0.01400	94.5	93	110				

Sample ID: A1206013-001DMSD		SampType: MSD		TestCode: 6010_W		Units: mg/L		Prep Date: 6/5/2012		RunNo: 4620	
Client ID: ZZZZZZ		Batch ID: 2732		TestNo: SW6010C		SW3010A		Analysis Date: 6/5/2012		SeqNo: 61759	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic,TCLP	0.916	0.020	1.000	0	91.6	90.1	110	0.9242	0.913	20	
Cadmium,TCLP	0.045	0.001	0.05000	0.0004000	88.4	93.4	110	0.04620	3.52	20	SRP
Chromium,TCLP	0.258	0.005	0.2500	0.01570	96.8	93.4	112	0.2439	5.54	20	
Copper,TCLP	0.424	0.010	0.5000	0	84.8	92.7	114	0.4389	3.43	20	SRP
Lead,TCLP	0.871	0.020	1.000	0.01130	86.0	91.9	112	0.8951	2.68	20	SRP
Nickel,TCLP	0.233	0.005	0.2500	0.009200	89.5	88.5	112	0.2293	1.60	20	
Zinc,TCLP	0.470	0.010	0.5000	0.01400	91.3	93	110	0.4865	3.34	20	SRP

Sample ID: CCV		SampType: CCV		TestCode: 6010_W		Units: mg/L		Prep Date:		RunNo: 4620	
Client ID: CCV		Batch ID: 2732		TestNo: SW6010C		SW3010A		Analysis Date: 6/5/2012		SeqNo: 61767	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum,TCLP	2.40	0.050	2.500	0	95.9	90	110				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 5 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_W

Sample ID: CCV	SampType: CCV	TestCode: 6010_W	Units: mg/L	Prep Date:	RunNo: 4620						
Client ID: CCV	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic,TCLP	0.913	0.020	1.000	0	91.3	90	110				
Cadmium,TCLP	0.046	0.001	0.05000	0	93.0	90	110				
Chromium,TCLP	0.238	0.005	0.2500	0	95.1	90	110				
Copper,TCLP	0.466	0.010	0.5000	0	93.1	90	110				
Lead,TCLP	0.946	0.020	1.000	0	94.6	90	110				
Nickel,TCLP	0.241	0.005	0.2500	0	96.4	90	110				
Zinc,TCLP	0.478	0.010	0.5000	0	95.7	90	110				

Sample ID: A1206013-001DDUP	SampType: DUP	TestCode: 6010_W	Units: mg/L	Prep Date: 6/5/2012	RunNo: 4620						
Client ID: ZZZZZZ	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61769						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum,TCLP	1.25	0.250						1.272	1.39	20	

Sample ID: A1206013-001DMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/5/2012	RunNo: 4620						
Client ID: ZZZZZZ	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61770						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum,TCLP	3.66	0.250	2.500	1.272	95.6	83.8	125				

Sample ID: A1206013-001DMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 6/5/2012	RunNo: 4620						
Client ID: ZZZZZZ	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/5/2012	SeqNo: 61771						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum,TCLP	3.61	0.250	2.500	1.272	93.7	83.8	125	3.662	1.35	20	

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 6 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6010_W

Sample ID: ICV	SampType: ICV	TestCode: 6010_W	Units: mg/L	Prep Date:	RunNo: 4620						
Client ID: ICV	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/6/2012	SeqNo: 61884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum,TCLP	2.51	0.050	2.500	0	100	90	110				
Zinc,TCLP	0.512	0.010	0.5000	0	102	90	110				

Sample ID: CCV	SampType: CCV	TestCode: 6010_W	Units: mg/L	Prep Date:	RunNo: 4620						
Client ID: CCV	Batch ID: 2732	TestNo: SW6010C	SW3010A	Analysis Date: 6/6/2012	SeqNo: 61887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum,TCLP	2.37	0.050	2.500	0	94.9	90	110				
Zinc,TCLP	0.491	0.010	0.5000	0	98.1	90	110				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6020_S

Sample ID: ICV	SampType: ICV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4590						
Client ID: ICV	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61406						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 4960 100 5000 0 99.3 90 110

Sample ID: MBLK-2715	SampType: MBLK	TestCode: 6020_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: PBS	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61408						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 100

Sample ID: LCS-2715	SampType: LCS	TestCode: 6020_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: LCSS	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 4220 100 5000 0 84.3 75 115

Sample ID: 1205244-001ADUP	SampType: DUP	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: ZZZZZZ	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61411						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 6690 1050 7283 8.45 20

Sample ID: 1205244-001AMS	SampType: MS	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: ZZZZZZ	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 14100 1050 5273 7283 130 70 130

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 6020_S

Sample ID: 1205244-001AMSD	SampType: MSD	TestCode: 6020_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4590						
Client ID: ZZZZZZ	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13700	1050	5273	7283	121	70	130	14120	3.26	20	

Sample ID: CCV	SampType: CCV	TestCode: 6020_S	Units: µg/Kg	Prep Date:	RunNo: 4590						
Client ID: CCV	Batch ID: 2715	TestNo: SW6020A	SW3050B	Analysis Date: 6/4/2012	SeqNo: 61420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4960	100	5000	0	99.3	90	110				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 8082LL_S

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 4638						
Client ID: CCV	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	69.3	0.333	66.67	0	104	85	115
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Sample ID: MB-2723	SampType: MBLK	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4638						
Client ID: PBS	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.333					
Aroclor 1221	ND	0.333					
Aroclor 1232	ND	0.333					
Aroclor 1242	ND	0.333					
Aroclor 1248	ND	0.333					
Aroclor 1254	ND	0.333					
Aroclor 1260	ND	0.333					
Aroclor 1262	ND	0.333					
Aroclor 1268	ND	0.333					
Surr: Decachlorobiphenyl	5980		6667		89.7	56.5	130

Sample ID: LCS-2723	SampType: LCS	TestCode: 8082LL_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4638						
Client ID: LCSS	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	53.3	0.333	66.67	0	80.0	44.3	137
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QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 8082LL_S

Sample ID: 1206008-008AMS	SampType: MS	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4638						
Client ID: GP14-S-1.6	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	69.4	0.503	100.6	0	69.0	56.6	123
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Sample ID: 1206008-008AMSD	SampType: MSD	TestCode: 8082LL_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4638						
Client ID: GP14-S-1.6	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	65.4	0.503	100.6	0	65.0	56.6	123	69.42	5.97	20
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Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 4638						
Client ID: CCV	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016/1260	58.0	0.333	66.67	0	87.0	85	115
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Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 4638						
Client ID: CCV	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1242	66.7	0.333	66.67	0	100	85	115
Aroclor 1254	66.7	0.333	66.67	0	100	85	115
Aroclor 1260	66.7	0.333	66.67	0	100	85	115

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: 8082LL_S

Sample ID: CCB	SampType: CCB	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 4638						
Client ID: CCB	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1242	ND	0.333									
Aroclor 1254	ND	0.333									
Aroclor 1260	ND	0.333									

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_S	Units: µg/Kg	Prep Date:	RunNo: 4638						
Client ID: CCV	Batch ID: 2723	TestNo: SW 8082A	3545_8082LL	Analysis Date: 6/5/2012	SeqNo: 61950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1242	76.0	0.333	66.67	0	114	85	115				
Aroclor 1254	71.3	0.333	66.67	0	107	85	115				
Aroclor 1260	70.7	0.333	66.67	0	106	85	115				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: BTEXRBC_SA

Sample ID: CCV	SampType: CCV	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date:	RunNo: 4592						
Client ID: CCV	Batch ID: 2718	TestNo: SW8021B	5035	Analysis Date: 6/4/2012	SeqNo: 61452						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.3	0.025	2.500	0	90.4	85	115				
Ethylbenzene	2.4	0.10	2.500	0	97.4	85	115				
Toluene	2.4	0.10	2.500	0	94.7	85	115				
Xylenes, Total	7.2	0.30	7.500	0	96.6	85	115				

Sample ID: LCS-2718	SampType: LCS	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4592						
Client ID: LCSS	Batch ID: 2718	TestNo: SW8021B	5035	Analysis Date: 6/4/2012	SeqNo: 61453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.250	0	71.0	68.7	117				
Ethylbenzene	1.1	0.10	1.250	0	88.7	76.3	115				
Toluene	1.0	0.10	1.250	0	82.6	71.4	115				
Xylenes, Total	3.3	0.30	3.750	0	89.0	70.1	116				

Sample ID: MB-2718	SampType: MBLK	TestCode: BTEXRBC_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4592						
Client ID: PBS	Batch ID: 2718	TestNo: SW8021B	5035	Analysis Date: 6/4/2012	SeqNo: 61454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.025									
Ethylbenzene	ND	0.10									
Toluene	ND	0.10									
Xylenes, Total	ND	0.30									
Surr: 4-Bromofluorobenzene	4.4		5.000		88.7	42.6	126				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: BTEXRBC_SA

Sample ID: 1206008-007BMS		SampType: MS		TestCode: BTEXRBC_S		Units: mg/Kg-dry		Prep Date: 6/4/2012		RunNo: 4592	
Client ID: GP13-S-2.8		Batch ID: 2718		TestNo: SW8021B		5035		Analysis Date: 6/4/2012		SeqNo: 61459	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.5	0.033	1.671	0	89.8	32.2	108				
Ethylbenzene	1.6	0.13	1.671	0	97.4	53.3	107				
Toluene	1.6	0.13	1.671	0.01136	93.6	56.7	101				
Xylenes, Total	4.9	0.40	5.013	0.05548	96.3	47.5	119				

Sample ID: 1206008-007BMSD		SampType: MSD		TestCode: BTEXRBC_S		Units: mg/Kg-dry		Prep Date: 6/4/2012		RunNo: 4592	
Client ID: GP13-S-2.8		Batch ID: 2718		TestNo: SW8021B		5035		Analysis Date: 6/4/2012		SeqNo: 61460	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.5	0.033	1.671	0	91.6	32.2	108	1.500	1.99	20	
Ethylbenzene	1.7	0.13	1.671	0	99.2	53.3	107	1.627	1.87	20	
Toluene	1.6	0.13	1.671	0.01136	94.2	56.7	101	1.575	0.634	20	
Xylenes, Total	5.0	0.40	5.013	0.05548	99.1	47.5	119	4.884	2.77	20	

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: EPH_S

Sample ID: CCV	SampType: CCV	TestCode: EPH_S	Units: mg/Kg	Prep Date:	RunNo: 4695						
Client ID: CCV	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62633						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC8-nC10 Aliphatic	34.4	5.00	33.30	0	103	80	120				
>nC10-nC12 Aliphatic	34.6	5.00	33.30	0	104	80	120				
>nC10-nC12 Aromatic	31.2	5.00	33.30	0	93.6	80	120				
>nC12-nC16 Aliphatic	34.6	5.00	33.30	0	104	80	120				
>nC12-nC16 Aromatic	31.0	5.00	33.30	0	93.0	80	120				
>nC16-nC21 Aliphatic	34.5	5.00	33.30	0	104	80	120				
>nC16-nC21 Aromatic	31.5	5.00	33.30	0	94.5	80	120				
>nC21-nC34 Aliphatic	32.1	5.00	33.30	0	96.3	80	120				
>nC21-nC34 Aromatic	32.1	5.00	33.30	0	96.3	80	120				

Sample ID: LCS-2724	SampType: LCS	TestCode: EPH_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4695						
Client ID: LCSS	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62634						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC8-nC10 Aliphatic	24.3	5.00	33.30	0	73.1	70	130				
>nC10-nC12 Aliphatic	24.8	5.00	33.30	0	74.6	70	130				
>nC10-nC12 Aromatic	25.4	5.00	33.30	0	76.3	70	130				
>nC12-nC16 Aliphatic	26.4	5.00	33.30	0	79.2	70	130				
>nC12-nC16 Aromatic	26.3	5.00	33.30	0	79.1	70	130				
>nC16-nC21 Aliphatic	31.7	5.00	33.30	0	95.2	70	130				
>nC16-nC21 Aromatic	27.8	5.00	33.30	0	83.5	70	130				
>nC21-nC34 Aliphatic	30.9	5.00	33.30	0	92.7	70	130				
>nC21-nC34 Aromatic	25.3	5.00	33.30	0	76.0	70	130				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: EPH_S

Sample ID: LCSD-2724	SampType: LCSD	TestCode: EPH_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4695						
Client ID: LCSS02	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC8-nC10 Aliphatic	24.2	5.00	33.30	0	72.8	70	130	24.34	0.412	20	
>nC10-nC12 Aliphatic	26.6	5.00	33.30	0	79.9	70	130	24.84	6.83	20	
>nC10-nC12 Aromatic	24.8	5.00	33.30	0	74.5	70	130	25.41	2.35	20	
>nC12-nC16 Aliphatic	28.6	5.00	33.30	0	86.0	70	130	26.37	8.25	20	
>nC12-nC16 Aromatic	28.4	5.00	33.30	0	85.3	70	130	26.35	7.52	20	
>nC16-nC21 Aliphatic	27.5	5.00	33.30	0	82.6	70	130	31.72	14.2	20	
>nC16-nC21 Aromatic	27.5	5.00	33.30	0	82.7	70	130	27.81	1.01	20	
>nC21-nC34 Aliphatic	26.8	5.00	33.30	0	80.4	70	130	30.86	14.2	20	
>nC21-nC34 Aromatic	25.1	5.00	33.30	0	75.3	70	130	25.30	0.873	20	

Sample ID: MB-2724	SampType: MBLK	TestCode: EPH_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4695						
Client ID: PBS	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC8-nC10 Aliphatic	ND	5.00									
>nC10-nC12 Aliphatic	ND	5.00									
>nC10-nC12 Aromatic	ND	5.00									
>nC12-nC16 Aliphatic	ND	5.00									
>nC12-nC16 Aromatic	ND	5.00									
>nC16-nC21 Aliphatic	ND	5.00									
>nC16-nC21 Aromatic	ND	5.00									
>nC21-nC34 Aliphatic	ND	5.00									
>nC21-nC34 Aromatic	ND	5.00									
Surr: Chlorooctadecane (Aliphatic)	23.2		33.30		69.8	50	150				
Surr: o-Terphenyl (Aromatic)	33.3		33.30		100	50	150				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 16 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008
21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: EPH_S

Sample ID: 1206008-006ADUP	SampType: DUP	TestCode: EPH_S	Units: mg/Kg-dry	Prep Date:	RunNo: 4695						
Client ID: GP13-S-1.0	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62639						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC21-nC34 Aliphatic	7790	27.7						9644	21.2	25	

Sample ID: 1206008-006ADUP	SampType: DUP	TestCode: EPH_S	Units: mg/Kg-dry	Prep Date:	RunNo: 4695						
Client ID: GP13-S-1.0	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC8-nC10 Aliphatic	11.4	5.54						10.39	9.07	25	
>nC10-nC12 Aliphatic	25.1	5.54						26.01	3.75	25	
>nC10-nC12 Aromatic	11.6	5.54						12.42	7.25	25	
>nC12-nC16 Aliphatic	81.8	5.54						104.8	24.8	25	
>nC12-nC16 Aromatic	15.6	5.54						11.80	27.7	25	R
>nC16-nC21 Aliphatic	960	5.54						1233	24.9	25	
>nC16-nC21 Aromatic	196	5.54						181.6	7.74	25	
>nC21-nC34 Aromatic	1160	5.54						1141	1.50	25	

Sample ID: CCV	SampType: CCV	TestCode: EPH_S	Units: mg/Kg	Prep Date:	RunNo: 4695						
Client ID: CCV	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC8-nC10 Aliphatic	33.3	5.00	33.30	0	100	80	120				
>nC10-nC12 Aliphatic	34.8	5.00	33.30	0	104	80	120				
>nC10-nC12 Aromatic	30.9	5.00	33.30	0	92.8	80	120				
>nC12-nC16 Aliphatic	34.3	5.00	33.30	0	103	80	120				
>nC12-nC16 Aromatic	31.1	5.00	33.30	0	93.3	80	120				
>nC16-nC21 Aliphatic	34.3	5.00	33.30	0	103	80	120				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 17 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: EPH_S

Sample ID: CCV	SampType: CCV	TestCode: EPH_S	Units: mg/Kg	Prep Date:	RunNo: 4695						
Client ID: CCV	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 62642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

>nC16-nC21 Aromatic	31.5	5.00	33.30	0	94.6	80	120
>nC21-nC34 Aliphatic	33.9	5.00	33.30	0	102	80	120
>nC21-nC34 Aromatic	33.3	5.00	33.30	0	100	80	120

Sample ID: CCV	SampType: CCV	TestCode: EPH_S	Units: mg/Kg	Prep Date:	RunNo: 4695						
Client ID: CCV	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 63481						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

>nC8-nC10 Aliphatic	31.0	5.00	33.30	0	93.0	80	120
>nC10-nC12 Aliphatic	30.7	5.00	33.30	0	92.3	80	120
>nC10-nC12 Aromatic	28.0	5.00	33.30	0	84.1	80	120
>nC12-nC16 Aliphatic	30.7	5.00	33.30	0	92.2	80	120
>nC12-nC16 Aromatic	28.1	5.00	33.30	0	84.3	80	120
>nC16-nC21 Aliphatic	30.0	5.00	33.30	0	90.2	80	120
>nC16-nC21 Aromatic	28.3	5.00	33.30	0	84.9	80	120
>nC21-nC34 Aliphatic	29.0	5.00	33.30	0	87.2	80	120
>nC21-nC34 Aromatic	28.0	5.00	33.30	0	84.2	80	120

Sample ID: CCV	SampType: CCV	TestCode: EPH_S	Units: mg/Kg	Prep Date:	RunNo: 4695						
Client ID: CCV	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 63483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

>nC8-nC10 Aliphatic	32.1	5.00	33.30	0	96.3	80	120
>nC10-nC12 Aliphatic	32.0	5.00	33.30	0	96.0	80	120
>nC10-nC12 Aromatic	29.3	5.00	33.30	0	88.1	80	120

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 18 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: EPH_S

Sample ID: CCV	SampType: CCV	TestCode: EPH_S	Units: mg/Kg	Prep Date:	RunNo: 4695						
Client ID: CCV	Batch ID: 2724	TestNo: EPHMod.	SW3545A	Analysis Date: 6/8/2012	SeqNo: 63483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>nC12-nC16 Aliphatic	31.8	5.00	33.30	0	95.4	80	120				
>nC12-nC16 Aromatic	29.5	5.00	33.30	0	88.5	80	120				
>nC16-nC21 Aliphatic	31.7	5.00	33.30	0	95.2	80	120				
>nC16-nC21 Aromatic	30.1	5.00	33.30	0	90.3	80	120				
>nC21-nC34 Aliphatic	31.2	5.00	33.30	0	93.8	80	120				
>nC21-nC34 Aromatic	29.6	5.00	33.30	0	89.0	80	120				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: HG_CT

Sample ID: MB-2752	SampType: MBLK	TestCode: HG_CT	Units: mg/L	Prep Date: 6/6/2012	RunNo: 4628
Client ID: PBW	Batch ID: 2752	TestNo: E7470A	E245.1	Analysis Date: 6/6/2012	SeqNo: 61825
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP ND 0.00010

Sample ID: LCS-2752	SampType: LCS	TestCode: HG_CT	Units: mg/L	Prep Date: 6/6/2012	RunNo: 4628
Client ID: LCSW	Batch ID: 2752	TestNo: E7470A	E245.1	Analysis Date: 6/6/2012	SeqNo: 61826
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP 0.00396 0.00010 0.004000 0 98.9 85.4 116

Sample ID: 1206008-006CDUP	SampType: DUP	TestCode: HG_CT	Units: mg/L	Prep Date: 6/6/2012	RunNo: 4628
Client ID: GP13-S-1.0	Batch ID: 2752	TestNo: E7470A	E245.1	Analysis Date: 6/6/2012	SeqNo: 61830
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP ND 0.00010 0 0 20

Sample ID: 1206008-006CMS	SampType: MS	TestCode: HG_CT	Units: mg/L	Prep Date: 6/6/2012	RunNo: 4628
Client ID: GP13-S-1.0	Batch ID: 2752	TestNo: E7470A	E245.1	Analysis Date: 6/6/2012	SeqNo: 61831
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP 0.00276 0.00010 0.004000 0.00005250 67.7 69.5 125 S

Sample ID: 1206008-006CMSD	SampType: MSD	TestCode: HG_CT	Units: mg/L	Prep Date: 6/6/2012	RunNo: 4628
Client ID: GP13-S-1.0	Batch ID: 2752	TestNo: E7470A	E245.1	Analysis Date: 6/6/2012	SeqNo: 61832
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury, TCLP 0.00276 0.00010 0.004000 0.00005250 67.8 69.5 125 0.002762 0.0362 20 S

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 20 of 35
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: HG_CT

Sample ID: CCV	SampType: CCV	TestCode: HG_CT	Units: mg/L	Prep Date:	RunNo: 4628						
Client ID: CCV	Batch ID: 2752	TestNo: E7470A	E245.1	Analysis Date: 6/6/2012	SeqNo: 61833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.00396	0.00010	0.004000	0	99.0	90	110				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 21 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: HG_CTS

Sample ID: MB-2753	SampType: MBLK	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4629
Client ID: PBS	Batch ID: 2753	TestNo: SW 7471B	SW 7471B	Analysis Date: 6/6/2012	SeqNo: 61834
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	ND	0.0167									
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Sample ID: LCS-2753	SampType: LCS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4629
Client ID: LCSS	Batch ID: 2753	TestNo: SW 7471B	SW 7471B	Analysis Date: 6/6/2012	SeqNo: 61835
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	0.261	0.0167	0.2500	0	104	88.2	113				
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Sample ID: 1206022-001BDUP	SampType: DUP	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4629
Client ID: ZZZZZZ	Batch ID: 2753	TestNo: SW 7471B	SW 7471B	Analysis Date: 6/6/2012	SeqNo: 61839
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	ND	0.0157						0	0	20	
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Sample ID: 1206022-001BMS	SampType: MS	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4629
Client ID: ZZZZZZ	Batch ID: 2753	TestNo: SW 7471B	SW 7471B	Analysis Date: 6/6/2012	SeqNo: 61840
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	0.250	0.0157	0.2344	0.006469	104	78.1	125				
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Sample ID: 1206022-001BMSD	SampType: MSD	TestCode: HG_CTS	Units: mg/Kg	Prep Date: 6/6/2012	RunNo: 4629
Client ID: ZZZZZZ	Batch ID: 2753	TestNo: SW 7471B	SW 7471B	Analysis Date: 6/6/2012	SeqNo: 61841
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Mercury	0.249	0.0157	0.2344	0.006469	104	78.1	125	0.2499	0.219	20	
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Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 22 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: HG_CTS

Sample ID: CCV	SampType: CCV	TestCode: HG_CTS	Units: mg/Kg	Prep Date:	RunNo: 4629						
Client ID: CCV	Batch ID: 2753	TestNo: SW 7471B	SW 7471B	Analysis Date: 6/6/2012	SeqNo: 61842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.254	0.0167	0.2500	0	102	90	110				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 23 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 4645						
Client ID: CCV	Batch ID: 2720	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 6/6/2012	SeqNo: 62013						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1080	15.0	1009	0	107	85	115				
Lube Oil	533	50.0	531.1	0	100	85	115				

Sample ID: MB-2720	SampType: MBLK	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4645						
Client ID: PBS	Batch ID: 2720	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 6/6/2012	SeqNo: 62014						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	41.8		33.30		126	50	150				

Sample ID: LCS-2720	SampType: LCS	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4645						
Client ID: LCSS	Batch ID: 2720	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 6/6/2012	SeqNo: 62015						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	194	15.0	166.5	0	117	76.3	125				
Lube Oil	160	50.0	166.5	0	96.3	69.9	127				

Sample ID: 1205226-004ADUP	SampType: DUP	TestCode: NWTPHDX_S	Units: mg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4645						
Client ID: ZZZZZZ	Batch ID: 2720	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 6/6/2012	SeqNo: 62018						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	ND	167						0	0	20	A3
Lube Oil	4660	558						3954	16.5	20	

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 24 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: NWTPHDX_S

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 4645						
Client ID: CCV	Batch ID: 2720	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 6/6/2012	SeqNo: 62023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1270	15.0	1346	0	94.7	85	115				
Lube Oil	698	50.0	690.3	0	101	85	115				

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 4645						
Client ID: CCV	Batch ID: 2720	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 6/6/2012	SeqNo: 62330						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1270	15.0	1346	0	94.7	85	115				
Lube Oil	698	50.0	690.2	0	101	85	115				

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S	Units: mg/Kg	Prep Date:	RunNo: 4645						
Client ID: CCV	Batch ID: 2720	TestNo: NWTPH-Dx	SW3545A	Analysis Date: 6/6/2012	SeqNo: 62337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1030	15.0	1009	0	102	85	115				
Lube Oil	515	50.0	531.3	0	97.0	85	115				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: NWTPHGX_SA

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	RunNo: 4589						
Client ID: CCV	Batch ID: 2717	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 6/4/2012	SeqNo: 61421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	133	2.50	125.0	0	107	80	120				
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Sample ID: LCS-2717	SampType: LCS	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4589						
Client ID: LCSS	Batch ID: 2717	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 6/4/2012	SeqNo: 61422						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	48.1	2.50	50.00	0	96.3	53.5	121				
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Sample ID: MB-2717	SampType: MBLK	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4589						
Client ID: PBS	Batch ID: 2717	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 6/4/2012	SeqNo: 61423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.50									
Surr: 4-Bromofluorobenzene	4.39		5.000		87.8	50	150				

Sample ID: A1205226-005ADUP	SampType: DUP	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date: 6/4/2012	RunNo: 4589						
Client ID: ZZZZZZ	Batch ID: 2717	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 6/4/2012	SeqNo: 61427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.50						0	0	20	
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Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	RunNo: 4589						
Client ID: CCV	Batch ID: 2717	TestNo: NWTPH-Gx	SW5035A	Analysis Date: 6/4/2012	SeqNo: 61428						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B Analyte detected in the associated Method Blank	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit	Page 26 of 35
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: NWTPHGX_SA

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_S	Units: mg/Kg	Prep Date:	RunNo: 4589						
Client ID: CCV	Batch ID: 2717	TestNo: NWTPH-Gx SW5035A		Analysis Date: 6/4/2012	SeqNo: 61428						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	152	2.50	150.0	0	101	80	120				

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 27 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: PAHLL_S

Sample ID: MB-2721	SampType: MBLK	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4621						
Client ID: PBS	Batch ID: 2721	TestNo: SW8270D	SW 3545A	Analysis Date: 6/5/2012	SeqNo: 61738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(g,h,i)perylene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Fluoranthene	ND	6.67									
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Naphthalene	ND	6.67									
Phenanthrene	ND	6.67									
Pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	3220		6667		48.3	42.6	128				
Surr: Nitrobenzene-d5	2230		6667		33.4	21.7	155				
Surr: p-Terphenyl-d14	4810		6667		72.1	44.9	155				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: PAHLL_S

Sample ID: LCS-2721	SampType: LCS	TestCode: PAHLL_S	Units: µg/Kg	Prep Date: 6/4/2012	RunNo: 4621						
Client ID: LCSS	Batch ID: 2721	TestNo: SW8270D	SW 3545A	Analysis Date: 6/5/2012	SeqNo: 61745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	178	6.67	333.4	0	53.4	39.6	107				
Benzo(g,h,i)perylene	229	6.67	333.4	0	68.8	49.7	135				
Chrysene	223	6.67	333.4	0	67.0	57.1	130				
Naphthalene	161	6.67	333.4	0	48.2	29.1	109				
Phenanthrene	189	6.67	333.4	0	56.6	48.4	115				
Pyrene	208	6.67	333.4	0	62.4	47.2	134				

Sample ID: 1206008-003AMS	SampType: MS	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4621						
Client ID: GP12-S-1.4	Batch ID: 2721	TestNo: SW8270D	SW 3545A	Analysis Date: 6/5/2012	SeqNo: 61746						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	190	8.22	410.9	0	46.2	33.7	111				
Benzo(g,h,i)perylene	265	8.22	410.9	1.643	64.0	15	128				
Chrysene	255	8.22	410.9	0.8217	61.8	37.5	125				
Naphthalene	155	8.22	410.9	2.465	37.2	27.7	108				
Phenanthrene	212	8.22	410.9	1.643	51.2	20.2	139				
Pyrene	231	8.22	410.9	0.8217	56.0	26.8	142				

Sample ID: 1206008-003AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4621						
Client ID: GP12-S-1.4	Batch ID: 2721	TestNo: SW8270D	SW 3545A	Analysis Date: 6/5/2012	SeqNo: 61747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	206	8.22	410.9	0	50.2	33.7	111	189.8	8.30	20	
Benzo(g,h,i)perylene	311	8.22	410.9	1.643	75.2	15	128	264.6	16.0	20	
Chrysene	296	8.22	410.9	0.8217	71.8	37.5	125	254.7	14.9	20	

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 29 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: PAHLL_S

Sample ID: 1206008-003AMSD	SampType: MSD	TestCode: PAHLL_S	Units: µg/Kg-dry	Prep Date: 6/4/2012	RunNo: 4621						
Client ID: GP12-S-1.4	Batch ID: 2721	TestNo: SW8270D	SW 3545A	Analysis Date: 6/5/2012	SeqNo: 61747						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	169	8.22	410.9	2.465	40.6	27.7	108	155.3	8.61	20
Phenanthrene	242	8.22	410.9	1.643	58.4	20.2	139	212.0	13.0	20
Pyrene	271	8.22	410.9	0.8217	65.8	26.8	142	230.9	16.0	20

Sample ID: CCV-2721	SampType: CCV	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 4621						
Client ID: CCV	Batch ID: 2721	TestNo: SW8270D	SW 3545A	Analysis Date: 6/6/2012	SeqNo: 61898						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	60.7	6.67	66.67	0	91.0	80	120			
Acenaphthylene	58.7	6.67	66.67	0	88.0	80	120			
Anthracene	59.3	6.67	66.67	0	89.0	80	120			
Benz(a)anthracene	59.3	6.67	66.67	0	89.0	80	120			
Benzo(a)pyrene	62.7	6.67	66.67	0	94.0	80	120			
Benzo(b)fluoranthene	56.0	6.67	66.67	0	84.0	80	120			
Benzo(g,h,i)perylene	64.7	6.67	66.67	0	97.0	80	120			
Benzo(k)fluoranthene	61.3	6.67	66.67	0	92.0	80	120			
Chrysene	60.0	6.67	66.67	0	90.0	80	120			
Dibenz(a,h)anthracene	68.0	6.67	66.67	0	102	80	120			
Fluoranthene	64.0	6.67	66.67	0	96.0	80	120			
Fluorene	62.7	6.67	66.67	0	94.0	80	120			
Indeno(1,2,3-cd)pyrene	65.3	6.67	66.67	0	98.0	80	120			
Naphthalene	63.3	6.67	66.67	0	95.0	80	120			
Phenanthrene	57.3	6.67	66.67	0	86.0	80	120			
Pyrene	64.0	6.67	66.67	0	96.0	80	120			

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: PAHLL_S

Sample ID: CCB-2721	SampType: CCB	TestCode: PAHLL_S	Units: µg/Kg	Prep Date:	RunNo: 4621						
Client ID: CCB	Batch ID: 2721	TestNo: SW8270D	SW 3545A	Analysis Date: 6/6/2012	SeqNo: 61899						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	6.67									
Acenaphthylene	ND	6.67									
Anthracene	ND	6.67									
Benzo(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(g,h,i)perylene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Fluoranthene	ND	6.67									
Fluorene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Naphthalene	ND	6.67									
Phenanthrene	ND	6.67									
Pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	2830		6667		42.4	42.6	128				S
Surr: Nitrobenzene-d5	2010		6667		30.1	21.7	155				
Surr: p-Terphenyl-d14	4410		6667		66.2	44.9	155				

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: VPH_S

Sample ID: CCV	SampType: CCV	TestCode: VPH_S	Units: mg/Kg	Prep Date:	RunNo: 4802						
Client ID: CCV	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63861						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	3.85	0.050	3.750	0	103	85	115				
Toluene	3.82	0.050	3.750	0	102	85	115				
Ethylbenzene	3.85	0.050	3.750	0	103	85	115				
Xylenes, Total	11.3	0.050	11.25	0	100	85	115				
n-Hexane	3.68	0.250	3.750	0	98.0	85	115				
C5-C6 Aliphatic	3.84	1.25	3.750	0	102	80	120				
>C6-C8 Aliphatic	3.84	1.25	3.750	0	102	80	120				
>C8-C10 Aliphatic	3.73	1.25	3.750	0	99.4	80	120				
>C8-C10 Aromatic	19.0	1.25	18.75	0	101	80	120				
>C10-C12 Aliphatic	3.63	1.25	3.750	0	96.7	80	120				
>C10-C12 Aromatic	3.81	1.25	3.750	0	102	80	120				
>C12-C13 Aromatic	3.40	1.25	3.750	0	90.8	80	120				

Sample ID: MB-2832	SampType: MBLK	TestCode: VPH_S	Units: mg/Kg	Prep Date: 6/8/2012	RunNo: 4802						
Client ID: PBS	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.050									
n-Hexane	ND	0.250									
C5-C6 Aliphatic	ND	1.25									
>C6-C8 Aliphatic	ND	1.25									
>C8-C10 Aliphatic	ND	1.25									

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: VPH_S

Sample ID: MB-2832	SampType: MBLK	TestCode: VPH_S	Units: mg/Kg	Prep Date: 6/8/2012	RunNo: 4802						
Client ID: PBS	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>C8-C10 Aromatic	ND	1.25									
>C10-C12 Aliphatic	ND	1.25									
>C10-C12 Aromatic	ND	1.25									
>C12-C13 Aromatic	ND	1.25									
Surr: aaa-Trifluorotoluene	4.71		5.000		94.2	50	150				

Sample ID: 1206008-006ADUP	SampType: DUP	TestCode: VPH_S	Units: mg/Kg-dry	Prep Date: 6/8/2012	RunNo: 4802						
Client ID: GP13-S-1.0	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.586	0.055						0.6171	5.16	25	
Toluene	0.990	0.055						1.063	7.08	25	
Ethylbenzene	0.725	0.055						0.7934	8.98	25	
Xylenes, Total	3.16	0.055						3.445	8.73	25	
n-Hexane	0.950	0.277						1.145	18.6	25	
C5-C6 Aliphatic	1.87	1.39						2.015	7.65	25	
>C6-C8 Aliphatic	5.03	1.39						5.339	6.06	25	
>C8-C10 Aliphatic	ND	1.39						0	0	25	
>C8-C10 Aromatic	15.4	1.39						16.62	7.76	25	
>C10-C12 Aliphatic	ND	1.39						0	0	25	
>C10-C12 Aromatic	23.0	1.39						24.38	5.98	25	
>C12-C13 Aromatic	12.4	1.39						11.92	4.21	25	

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 33 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: VPH_S

Sample ID: LCS-2832	SampType: LCS	TestCode: VPH_S	Units: mg/Kg	Prep Date: 6/8/2012	RunNo: 4802						
Client ID: LCSS	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.07	0.050	1.250	0	85.7	70	130				
Toluene	1.11	0.050	1.250	0	88.8	70	130				
Ethylbenzene	1.15	0.050	1.250	0	91.7	70	130				
Xylenes, Total	3.36	0.050	3.750	0	89.7	70	130				
n-Hexane	0.859	0.250	1.250	0	68.7	70	130				S
C5-C6 Aliphatic	ND	1.25	1.250	0	84.8	70	130				
>C6-C8 Aliphatic	ND	1.25	1.250	0	90.0	70	130				
>C8-C10 Aliphatic	ND	1.25	1.250	0	90.0	70	130				
>C8-C10 Aromatic	5.72	1.25	6.250	0	91.6	70	130				
>C10-C12 Aliphatic	1.26	1.25	1.250	0	101	70	130				
>C10-C12 Aromatic	ND	1.25	1.250	0	68.4	70	130				S
>C12-C13 Aromatic	ND	1.25	1.250	0	83.0	70	130				

Sample ID: LCSD-2832	SampType: LCSD	TestCode: VPH_S	Units: mg/Kg	Prep Date: 6/8/2012	RunNo: 4802						
Client ID: LCSS02	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63866						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.08	0.050	1.250	0	86.7	70	130	1.071	1.21	25	
Toluene	1.13	0.050	1.250	0	90.3	70	130	1.110	1.70	25	
Ethylbenzene	1.16	0.050	1.250	0	92.7	70	130	1.146	1.08	25	
Xylenes, Total	3.41	0.050	3.750	0	90.8	70	130	3.364	1.23	25	
n-Hexane	0.865	0.250	1.250	0	69.2	70	130	0.8590	0.696	25	S
C5-C6 Aliphatic	ND	1.25	1.250	0	86.5	70	130	0	0	25	
>C6-C8 Aliphatic	ND	1.25	1.250	0	90.2	70	130	0	0	25	
>C8-C10 Aliphatic	ND	1.25	1.250	0	92.2	70	130	0	0	25	

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Page 34 of 35
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: 1206008

21-Jun-12

Specialty Analytical

Client: Maul Foster & Alongi
Project: Kelso IPG / 0443.02.02

TestCode: VPH_S

Sample ID: LCSD-2832	SampType: LCSD	TestCode: VPH_S	Units: mg/Kg	Prep Date: 6/8/2012	RunNo: 4802						
Client ID: LCSS02	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63866						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
>C8-C10 Aromatic	5.59	1.25	6.250	0	89.5	70	130	5.725	2.31	25	
>C10-C12 Aliphatic	1.30	1.25	1.250	0	104	70	130	1.261	3.35	25	
>C10-C12 Aromatic	ND	1.25	1.250	0	60.8	70	130	0	0	25	S
>C12-C13 Aromatic	ND	1.25	1.250	0	35.8	70	130	0	0	25	SR

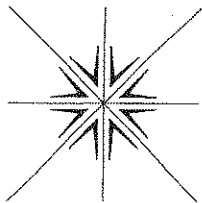
Sample ID: CCV	SampType: CCV	TestCode: VPH_S	Units: mg/Kg	Prep Date:	RunNo: 4802						
Client ID: CCV	Batch ID: 2832	TestNo: VPH	5030	Analysis Date: 6/13/2012	SeqNo: 63867						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	3.57	0.050	3.750	0	95.1	85	115				
Toluene	3.57	0.050	3.750	0	95.2	85	115				
Ethylbenzene	3.64	0.050	3.750	0	97.2	85	115				
Xylenes, Total	10.6	0.050	11.25	0	94.4	85	115				
n-Hexane	3.75	0.250	3.750	0	99.9	85	115				
C5-C6 Aliphatic	3.53	1.25	3.750	0	94.1	80	120				
>C6-C8 Aliphatic	3.70	1.25	3.750	0	98.7	80	120				
>C8-C10 Aliphatic	3.49	1.25	3.750	0	93.1	80	120				
>C8-C10 Aromatic	17.1	1.25	18.75	0	91.0	80	120				
>C10-C12 Aliphatic	3.40	1.25	3.750	0	90.7	80	120				
>C10-C12 Aromatic	3.21	1.25	3.750	0	85.7	80	120				
>C12-C13 Aromatic	3.04	1.25	3.750	0	81.0	80	120				

KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Heather Hirsch
Company Maul Foster & Almagi
Address 1329 N. State St., Ste. 301
Bellingham, WA 98225
Phone 360-927-1307 Fax _____
Project No. 0443.0202 Project Name Kelso IPG
Project Site Location OR _____ WA X Other _____
Invoice To MFA P.O. No. 0443.02.02-01

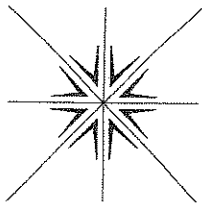
Collected By: _____
Signature [Signature]
Printed Heather Hirsch
Signature _____
Printed _____

Turn Around Time
 Normal 5-7 Business Days
 Rush _____
Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses								For Laboratory Use			
					BETX (80218)	TCLP Metals	PATHs (82705m)	Cadmium (6010)	Lead (6010)	Mercury (7471)	NWTPH-VRH	NWTPH-GX	NWTPH-DX	NWTPH-EPH	Lab Job No.	Comments
5/31/12	1305	MW3-S-1.0	SOIL	4	X										1206008	
	1315	MW3-S-1.5		4	X										Specialty	
	1520	GP12-S-1.4		3		X	X	X	X	X						
	1522	GP12-S-6.0		3				Hold								
	1525	GP12-S-7.5		2				Hold								
	1530	GP13-S-11.0		8	X	X		X	X	X	X	X	X			
	1535	GP13-S-2.8		7	X			X	X		X	X				
	1600	GP14-S-1.6		3			X	X	X			X	X			
	1605	GP14-S-6.0		3				Hold								
	1610	GP14-S-7.7		3				Hold								
	1615	GP15-S-1.4		2			X	X	X							
✓	1620	GP15-S-3.1	✓	2			X	X	X							
Relinquished By: <u>[Signature]</u> Company: <u>MFA</u>				Date: <u>5-31-12</u>	Time: <u>18:45</u>	Received By: <u>[Signature]</u> Company: <u>S&S</u>				Relinquished By: <u>[Signature]</u> Company: <u>GA</u>				Date: <u>6/1/12</u>	Time: <u>15:10</u>	
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)										Received For Lab By: <u>[Signature]</u>				Date: <u>6/1/12</u>	Time: <u>15:10</u>	

CHAIN OF CUSTODY RECORD



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager Heather Hirsch
 Company Maul Foster & Alongi
 Address 1329 N. State St., Ste. 301
Bellingham, WA 98225
 Phone 360-927-1309 Fax _____
 Project No. 0443.02.02 Project Name Kelso I/P6
 Project Site Location OR _____ WA X Other _____
 Invoice To MFA P.O. No. 0443.02.02-0

Collected By: _____
 Signature [Signature]
 Printed Heather Hirsch
 Signature _____
 Printed _____

Turn Around Time
 Normal 5-7 Business Days
 Rush _____
 Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses										For Laboratory Use					
					PCBs (3082A)	Arsenic (6020)	Lead (6010)										Lab Job No.	Shipped Via	Air Bill No.	
5/31/12	1530	GP13-S-1.0	SOIL	1	X													1206008		
5/31/12	1535	GP13-S-2.8	↓	1	X															
	1600	GP14-S-1.6	↓	1	X	X														
	1625	GP16-S-1.2	↓	1		X	X													
	1630	GP16-S-2.8	↓	1		X	X													

Relinquished By: <u>[Signature]</u>	Date: <u>5/31/12</u>	Time: <u>1545</u>	Received By: <u>Rachel Moon</u>	Relinquished By: <u>Rachel Moon</u>	Date: <u>6/1/12</u>	Time: <u>1510</u>
Company: <u>MFA</u>			Company: <u>SFA</u>	Company: <u>SFA</u>		
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)				Received For Lab By: <u>[Signature]</u>	Date: <u>6/1/12</u>	Time: <u>1510</u>

APPENDIX D

DATA VALIDATION MEMORANDA



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0443.02.02 | APRIL 11, 2012 | CITY OF KELSO

This report reviews the analytical results for soil and groundwater samples collected by the Maul Foster & Alongi, Inc. project team on the former Terry's Auto Salvage property. The samples were collected in March 2012.

Specialty Analytical (SA) performed the analyses. SA report numbers 1203181, 1203193, and 1203227 were reviewed. The analyses performed are listed below.

Analysis	Reference
Total and dissolved metals	USEPA 6010A/6020
Volatile organic compounds	USEPA 8260B
Polycyclic aromatic hydrocarbons	USEPA 8270SIM
Polychlorinated biphenyls	USEPA 8082
Semivolatile organic compounds	USEPA 8270B
NWTPH-Dx	NWTPH-Dx
NWTPH-Gx	NWTPH-Gx
Total and dissolved mercury	USEPA 7471
HCID	NWTPH-HCID

Dx = diesel-range petroleum hydrocarbons.
 HCID = hydrocarbon identification.
 Gx = gasoline-range petroleum hydrocarbons.
 NWTPH = Northwest Total Petroleum Hydrocarbons.
 USEPA = U.S. Environmental Protection Agency.

DATA QUALIFICATION

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2010, 2008), and appropriate laboratory and method-specific guidelines (SA, 2012; USEPA, 1986).

The laboratory has identified NWTPH-Dx samples for diesel as biased high because of the amount of oil contained in the sample. The data reviewer has qualified the affected samples with “J” as estimates below.

Sample	Component	Original Result	Qualified Result
HA02-S-0.5	Diesel	63.6 A1,K	63.6 J
HA03-S-0.5	Diesel	244 A1, K	244 J

Sample	Component	Original Result	Qualified Result
GP01-S-0.5	Diesel	3290 A1, K	3290 J
1203181-05DUP	Diesel	165 A1, K	165 J
NOTES: A1 = contains DRO not identified as specific hydrocarbon product. J = estimated. K = diesel result is biased high due to amount of Oil contained in the sample.			

For methods NWTPH-GX and NWTPH-Dx as documented in lab reports 1203227 and 1203181, several samples were qualified, noting that the sample was within range for gasoline/diesel-range hydrocarbons, but were not identified as a specific hydrocarbon product. The results were quantified against gasoline, diesel and/or lube oil calibration standards. Appropriate lab qualifiers were provided.

Additionally, several NWTPH-Dx samples (reports 1203227 and 1203193) were lab qualified as non-detect, based on hydrocarbon pattern recognition. The product was a carry-over from another hydrocarbon type.

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

All extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the same analytical batch. The reviewer took no action based on minor method blank detections, as the associated samples were either non-detects or had results greater than 10 times that of the method blank hit.

Trip Blanks

The trip blank was non-detect for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were sampled for this sampling event. There were hits in samples analyzed by USEPA Methods 8270SIM and 8260B. The associated samples for USEPA 8260B were non-detect. The associated samples for USEPA 8270SIM have been qualified below:

Sample	Component	Original Result	Qualified Result
GP1-W-10	Fluoranthene	0.0622	0.0622 J
GP1-W-10	Naphthalene	0.155	0.194 U
GP1-W-10	Phenanthrene	0.187	0.187 J
GP1-W-10	Pyrene	0.0622	0.0714 U
GP9-W-7	Fluoranthene	0.0823	0.0823 J
GP9-W-7	Naphthalene	0.0926	0.194 U
GP9-W-7	Phenanthrene	0.185	0.185 J
GP9-W-7	Pyrene	0.0617	0.0714 U
GP9-W-38	Naphthalene	0.0616	0.194 U
GP10-W-38	Naphthalene	0.123	0.194 U
NOTES: J = estimated. U = not detected at or above the method reporting limit.			

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples.

The laboratory was contacted regarding failing 8270 surrogates. The professional judgment of the laboratory is that the data with failing surrogates are not biased because they pass continuing calibration verification for target analytes. Therefore, the data reviewer has not qualified the results. The laboratory has appropriately documented and qualified failing surrogates.

The reviewer took no action based on minor surrogate outliers or surrogate percent recoveries that were outside of acceptance limits, as the laboratory appropriately documented and qualified surrogate outliers. Associated batch quality assurance and quality control (QC) metrics for samples with surrogate outliers were within acceptance limits. All remaining surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. Various recovery results were outside acceptance limits because of one or more of the following:

- The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

- Matrix interferences prevented accurate quantitation of the spike recovery.

The reviewer took no action based on minor MS/MSD outliers, as batch laboratory control sample (LCS) percent recoveries were within acceptance limits and remaining MS/MSD results were within acceptance limits for percent recovery and relative percent difference (RPD). In cases of MS/MSD exceedances, the laboratory appropriately documented and qualified the outliers. All other MS/MSD recoveries and RPDs were within acceptance limits.

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency.

Various other recovery results were outside acceptance limits because matrix interferences prevented accurate quantitation. The reviewer took no action, as other batch QC metrics were within acceptance limits. In cases of exceedances, the laboratory appropriately documented and qualified the outliers.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

An LCS/laboratory control sample duplicate (LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency.

FIELD DUPLICATE RESULTS

No field duplicates were submitted.

REPORTING LIMITS

SA used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

REFERENCES

- SA. 2012. Quality assurance manual. Specialty Analytical, Clackamas, Oregon.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 6, February 2007).
- USEPA. 2008. USEPA contract laboratory program, national functional guidelines for organics data review. EPA 540/R-08/01. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. June.
- USEPA. 2010. USEPA contract laboratory program, national functional guidelines for inorganics data review. EPA 540/R-94/013. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. January.

DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0443.02.02 | JUNE 28, 2012 | CITY OF KELSO

This report reviews the analytical results for soil and groundwater samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the former Terry's Auto Salvage property. The samples were collected in May and June 2012.

Specialty Analytical (SA) performed the analyses. SA report numbers 1205229, 1205244, 1206008, and 1206114 were reviewed. The analyses performed are listed below.

Analysis	Reference
Total and dissolved metals	USEPA 6010C/6020A
BTEX	USEPA 8021B
Polycyclic aromatic hydrocarbons	USEPA 8270D
Polychlorinated biphenyls	USEPA 8082
NWTPH-Dx	NWTPH-Dx
NWTPH-Gx	NWTPH-Gx
Total and dissolved mercury	USEPA 7471
TCLP metals and mercury	USEPA 6010C/7470A
EPHs	EPHMOD
VPHs	VPH

BTEX = benzene, toluene, ethylbenzene, and xylenes.

Dx = diesel-range petroleum hydrocarbons.

EPH = extractable petroleum hydrocarbon.

Gx = gasoline-range petroleum hydrocarbons.

NWTPH = Northwest Total Petroleum Hydrocarbons.

TCLP = Toxicity Characteristic Leaching Procedure.

USEPA = U.S. Environmental Protection Agency.

VPH = volatile petroleum hydrocarbon.

DATA QUALIFICATION

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2010, 2008) and appropriate laboratory and method-specific guidelines (SA, 2012; USEPA, 1986).

The laboratory has identified NWTPH-Dx samples for diesel as biased high because of the amount of oil contained in the sample. The data reviewer has qualified the affected samples with "J" as estimates below.

Sample	Component	Original Result	Qualified Result
GP13-S-1.0	Diesel	2190 K	2190 J
NOTES: J = estimated. K = Diesel result is biased high due to amount of Oil contained in the sample.			

The USEPA Method 8270D continuing calibration verification sample in report 1205229 had an exceedance for fluorene. No actions were taken, as all associated samples were nondetect.

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the same analytical batch. No target analytes were detected at or above SA reporting limits in the method blank samples.

Trip Blanks

Trip blanks were not required for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples.

The reviewer took no action based on minor surrogate outliers or surrogate percent recoveries that were outside of acceptance limits because of matrix interference or dilutions necessary to quantify high concentrations of target analytes present in the sample. Associated batch quality assurance and quality control (QC) for samples with other surrogate outliers were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. No actions were taken for the TCLP MS/MSD exceedances in report number 1206008 because the post-digestion spike was within limits. There were minor MS/MSD percent recovery exceedances for TCLP mercury and for total lead in report number 1206008; all other batch QC metrics were within acceptance limits, so no actions were taken. All other recoveries were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. No actions were taken for the TCLP duplicate in report 1206008 that had RPD exceedances because it was at or near the method reporting limit (MRL). The EPH duplicate in report number 1206008 had a slight RPD exceedance, but no actions were taken, as all other QC metrics were within acceptance limits. All other RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency. Various analytes in the VPH LCS/LCSD in report number 1206008 had slightly low recoveries and a minor RPD exceedance. No actions were taken, as the outliers were minor and all other batch and sample QC metrics were within acceptance limits. All other LCS/LCSD analytes were within acceptance limits for percent recovery.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. One field duplicate was submitted for analysis (MW-01-20120613-W-DUP). MFA uses acceptance criteria of 100 percent RPD for results that are less than five times the MRL, or 50 percent RPD for results that are greater than five times the MRL. Non-detect data are not used in the evaluation of field duplicate results. All analytes were within the acceptance criteria.

REPORTING LIMITS

SA used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

REFERENCES

- SA. 2012. Quality assurance manual. Specialty Analytical, Clackamas, Oregon.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 6, February 2007).
- USEPA. 2008. USEPA contract laboratory program, national functional guidelines for organics data review. EPA 540/R-08/01. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. June.
- USEPA. 2010. USEPA contract laboratory program national functional guidelines for inorganic superfund data review. EPA 540/R-10/011. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. January.

APPENDIX E

TERRESTRIAL ECOLOGICAL EVALUATION



TERRESTRIAL ECOLOGICAL EVALUATION

PROJECT NO. 0443.02.02 | AUGUST 16, 2012 | CITY OF KELSO

The simplified terrestrial ecological evaluation (TEE) procedure is structured with the intent to protect terrestrial wildlife at industrial or commercial sites, and terrestrial plants, soil biota, and terrestrial wildlife at other sites, as provided under Washington Administrative Code (WAC) 173-340-7490(3)(b). The Model Toxics Control Act (MTCA) of WAC 173-340 specifies that the simplified TEE process is intended to identify only those sites that do not have substantial potential for posing a threat of significant adverse effects to terrestrial ecological receptors and that therefore may be removed from further ecological consideration during the remedial investigation and cleanup process (WAC 173-340-7492).

WAC 173-340-7492(2) provides the steps necessary for conducting the simplified TEE. MTCA Table 749-1 may be used to determine whether land use at a site and surrounding area is unlikely to result in substantial wildlife exposure. If this is demonstrated, MTCA specifies that no further evaluation is necessary to conclude that a site does not pose a substantial threat to potential ecological receptors.

A habitat evaluation was conducted by an MFA ecologist (Phil Wiescher) in June 2012 to assess the 0.72-acre former Terry's Auto Salvage property (the Property) and surrounding areas. A photo log of the Property is provided as Attachment 1. The completed MTCA Table 749-1 included as Attachment 2 shows that the site is unlikely to pose a threat to ecological receptors and that no further evaluation is necessary. The attached table shows the rationale for the scoring on Table 749-1.

Attachments: Table
Figure
1 Site Photographs
2 MTCA Table 749-1

TABLE

*



Appendix E Table
Simplified TEE Scoresheet
Former Terry's Auto Salvage Property, City of Kelso
Kelso, WA

Line Number	Scoring Parameters	Score	Rationale																				
1	<p>Estimate the area of contiguous (connected) undeveloped land on the site or within 500 feet of any area of the site to the nearest 1/2 acre (1/4 acre if the area is less than 0.5 acre). From the table below, find the number of points corresponding to the area and enter this number in the field to the right.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Area (acres)</td> <td>Points</td> </tr> <tr> <td>0.25 or less</td> <td>4</td> </tr> <tr> <td>0.5</td> <td>5</td> </tr> <tr> <td>1.0</td> <td>6</td> </tr> <tr> <td>1.5</td> <td>7</td> </tr> <tr> <td>2.0</td> <td>8</td> </tr> <tr> <td>2.5</td> <td>9</td> </tr> <tr> <td>3.0</td> <td>10</td> </tr> <tr> <td>3.5</td> <td>11</td> </tr> <tr> <td>4.0 or more</td> <td>12</td> </tr> </table>	Area (acres)	Points	0.25 or less	4	0.5	5	1.0	6	1.5	7	2.0	8	2.5	9	3.0	10	3.5	11	4.0 or more	12	6	<p>The on-site area is undeveloped and 0.72 acres; the off-site undeveloped parcel immediately west of the site (adjacent to the western edge on N. Pacific Ave.) is 0.36 acres. This results in a total contiguous area of 1.08 acres. The area north of the off-site parcel (adjacent to N. Pacific Ave.) is not contiguous with the site, as it is separated from the off-site parcel by a building and approximately 100 feet of gravel and from the on-site area by > 100 feet of paved or gravel roads. Surrounding residential properties are developed and likely unattractive to wildlife. The riparian corridor along the Cowlitz River is not contiguous with the site, as it is separated from the on-site area by two roads (Wood Ave. and the high-traffic N. Pacific Ave. throughway), an active BNSF rail line, and fencing along the BNSF embankment (see figure).</p>
Area (acres)	Points																						
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4.0 or more	12																						
2	Is this an industrial or commercial property? If yes, enter a score of 3. If no, enter a score of 1.	1																					
3	Enter a score in the box to the right for the habitat quality of the site, using the following rating system. High=1, Intermediate=2, Low=3.	3	The site is highly disturbed because of surface soil regrading that took place during debris removal and is dominated by bare ground and ruderal species. Site vegetation consists of some nonnative shrubs and a single tree present along the fence line. No significant wildlife (e.g., threatened or endangered species) was observed.																				
4	Is the undeveloped land likely to attract wildlife? If yes, enter a score of 1 in the box to the right. If no, enter a score of 2.	2	Higher quality habitat exists to the east of the site on the shores of the Cowlitz River. The area surrounding the site is primarily developed residential lots with yards that are likely unattractive to wildlife. The site is largely absent of native vegetation and trees that may be attractive to birds; there is no evidence of mammal presence; and the site is not a habitat island.																				
5	Are any of the following soil contaminants present: chlorinated dioxins/furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, pentachlorobenzene? If yes, enter a score of 1 in the box to the right. If no, enter a score of 4.	1	PCB mixtures are present in soil at the site.																				
Add the numbers in the boxes on lines 2-5 and enter this number in the box to the right. If this number is larger than the number in the box on line 1, the simplified evaluation may be ended.		7	Simplified evaluation ended. Total score exceeds 6.																				
<p>NOTES: Table adapted from Model Toxics Control Act Table 749-1. TEE = terrestrial ecological evaluation.</p>																							

FIGURE









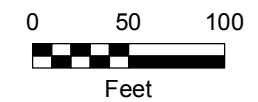
Figure Contiguous Undeveloped Land

Terry's Auto Salvage
Kelso, Washington

Legend

-  Fence (Approximate)
-  Site Parcels
-  Off-Site Parcel
-  Parcels (Cowlitz County)

Note: Total acreage of on- and off-property parcels = 1.08 acres.



Source: Aerial photograph obtained from ESRI, Inc. ArcGIS Online/Bing Maps



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

ATTACHMENT 1

SITE PHOTOGRAPHS





PHOTOGRAPHS

Project Name: Former Terry's Auto Salvage
Property, City of Kelso
Project Number: 0443.02.02

1

Photo No.

1

Date

June 12, 2012

Description

Center northwest
parcel facing south



Photo No.

2

Date

June 12, 2012

Description

Center northwest
parcel facing northeast





PHOTOGRAPHS

Project Name: Former Terry's Auto Salvage
Property, City of Kelso
Project Number: 0443.02.02

Photo No.

3

Date

June 12, 2012

Description

Center northwest
parcel facing north



Photo No.

4

Date

June 12, 2012

Description

Southeast parcel,
facing southeast



ATTACHMENT 2

MTCA TABLE 749-1



Table 749-1

Simplified Terrestrial Ecological Evaluation-Exposure Analysis Procedure

Estimate the area of contiguous (connected) <u>undeveloped land</u> on the site or within 500 feet of any area of the site to the nearest 1/2 acre (1/4 acre if the area is less than 0.5 acre).																						
1) From the table below, find the number of points corresponding to the area and enter this number in the field to the right.																						
	<table border="1"> <thead> <tr> <th>Area (acres)</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>0.25 or less</td> <td>4</td> </tr> <tr> <td>0.5</td> <td>5</td> </tr> <tr> <td><u>1.0</u> / 1.08</td> <td>6</td> </tr> <tr> <td>1.5</td> <td>7</td> </tr> <tr> <td>2.0</td> <td>8</td> </tr> <tr> <td>2.5</td> <td>9</td> </tr> <tr> <td>3.0</td> <td>10</td> </tr> <tr> <td>3.5</td> <td>11</td> </tr> <tr> <td>4.0 or more</td> <td>12</td> </tr> </tbody> </table>	Area (acres)	Points	0.25 or less	4	0.5	5	<u>1.0</u> / 1.08	6	1.5	7	2.0	8	2.5	9	3.0	10	3.5	11	4.0 or more	12	6
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2) Is this an <u>industrial</u> or <u>commercial</u> property? If yes, enter a score of 3. If no, enter a score of 1		1																				
3) ^a Enter a score in the box to the right for the habitat quality of the site, using the following rating system ^b . High=1, Intermediate=2, Low=3		3																				
4) Is the undeveloped land likely to attract wildlife? If yes, enter a score of 1 in the box to the right. If no, enter a score of 2. ^c		2																				
5) Are there any of the following soil contaminants present: Chlorinated dioxins/furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, pentachlorobenzene? If yes, enter a score of 1 in the box to the right. If no, enter a score of 4.		1																				
6) Add the numbers in the boxes on lines 2-5 and enter this number in the box to the right. If this number is larger than the number in the box on line 1, the simplified evaluation may be ended.		7																				

Notes for Table 749-1

^a It is expected that this habitat evaluation will be undertaken by an experienced field biologist. If this is not the case, enter a conservative score of (1) for questions 3 and 4.

^b **Habitat rating system.** Rate the quality of the habitat as high, intermediate or low based on your professional judgment as a field biologist. The following are suggested factors to consider in making this evaluation:

Low: Early successional vegetative stands; vegetation predominantly noxious, nonnative, exotic plant species or weeds. Areas severely disturbed by human activity, including intensively cultivated croplands. Areas isolated from other habitat used by wildlife.