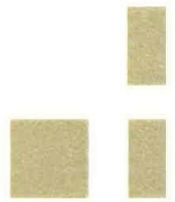


# SUPPLEMENTAL REMEDIAL INVESTIGATION



**PRECISION ENGINEERING, INC. SITE**  
**1231 S. DIRECTOR STREET**  
**SEATTLE, WASHINGTON**  
**TCP ID NUMBER NW1511**

**STOEL RI**



Project No. 8006.08.04  
Appendices A-G on CD



February 22, 2006



**SUPPLEMENTAL REMEDIAL INVESTIGATION**

**PRECISION ENGINEERING, INC. SITE  
1231 S. DIRECTOR STREET  
SEATTLE, WASHINGTON**

**TCP ID NUMBER NW1511**

Prepared for

Stoel Rives, LLP

February 22, 2006

Prepared by

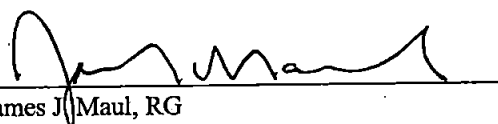
Maul Foster & Alongi, Inc.  
7223 NE Hazel Dell Avenue, Suite B  
Vancouver, Washington 98665

Project No. 8006.08.04

**Supplemental Remedial Investigation  
Precision Engineering, Inc. Site**

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

Maul Foster & Alongi, Inc.



James J. Maul, RG  
President/Principal Hydrogeologist



Alistaire W. Clary, PE  
Senior Engineer



Alan R. Hughes

Alan R. Hughes, RG  
Project Geologist

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## ACRONYMS AND ABBREVIATIONS

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AWQC	ambient water quality criterion/criteria
bgs	below ground surface
CLARC	Cleanup Levels and Risk Calculations
CUL	cleanup level
CWA	Clean Water Act
DRO	diesel-range organic
Ecology	Department of Ecology (Washington)
Eh	oxidation/reduction potential
EPH	extractable petroleum hydrocarbons
GRO	gasoline-range organic
IHS	indicator hazardous substance
MFA	Maul Foster & Alongi, Inc.
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS/MSD	matrix spike/matrix spike duplicate
MTCA	Model Toxics Control Act
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
NAPL	nonaqueous-phase liquid
NTR	National Toxics Rule
NGVD	National Geodetic Vertical Datum of 1929
ORO	oil-range organic
PAHs	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
Precision	Precision Engineering, Inc.
QA/QC	quality assurance and quality control
RI	remedial investigation
the site	Precision site at 1231 S. Director Street, Seattle, Washington
TCE	trichloroethene
TPH	total petroleum hydrocarbons
UST	underground storage tank
USEPA	U.S. Environmental Protection Agency
VCP	Voluntary Cleanup Program
VOC	volatile organic compound

## ACRONYMS AND ABBREVIATIONS (Continued)

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WAC	Washington Administrative Code
WBZ	water-bearing zone



# 1 INTRODUCTION

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Maul Foster & Alongi, Inc. (MFA) has prepared this Supplemental Remedial Investigation (RI) Report summarizing additional site characterization activities conducted in December 2005 at the former Precision Engineering, Inc. (Precision) site at 1231 S. Director Street, in Seattle, Washington (the site) (see Figure 1). The former Precision facility manufactured and repaired large hydraulic cylinders. Repair work included chrome-plating operations.

The RI is being conducted under the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP). The site's TCP identification number is NW1511. Precision entered the VCP in October 2005 after completing a preliminary soil and groundwater assessment in June 2005. This report also includes a discussion of the analytical data from the June 2005 investigation (Preliminary Assessment Report; MFA, 2005a). The RI characterized potential releases associated with the following features of interest (see Figure 2):

- Containment vault holding former Plating Tanks 1 and 2
- Former Plating Tanks 3, 4, 5, and 6
- Large containment vault holding former Plating Tank 7 and caustic tanks
- Former floor trenches and drains
- Hydraulic cylinder test vault
- Temporary plating-tank area
- Scrubber room and chromic-acid evaporator
- Parts washers, degreasers, and other solvent usage
- Former steam-cleaning area
- Former boiler underground storage tank (UST)

The features of interest, except the former boiler UST, are described in the Preliminary Assessment Report (MFA, 2005a). Characteristics of the former boiler UST are described in Section 2.4.

The June and December 2005 investigations involved collecting and analyzing soil, reconnaissance groundwater and groundwater samples from 32 Geoprobe™ borings; surface soil samples from five off-site locations in the ditch just south of the site; and groundwater samples from the four existing monitoring wells and four new monitoring wells (new wells sampled in December only; see Figure 3). The site characterization

procedures generally were conducted consistent with the scopes of work prepared by MFA (MFA, 2005a and 2005b). Procedures outside the scopes of work were conducted during the December 2005 investigation and were modified per a discussion with Mark Adams, the Ecology project manager, on December 5, 2005, as follows:

- Some borings and monitoring wells were relocated;
- The volatile organic compound (VOC) analytes were limited in the on-site soil and groundwater samples to methyl ethyl ketone (or 2-butanone), trichloroethene (TCE), cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride; and
- A staff gauge was installed off site near the 24-inch outlet pipe located in the ditch south of the site.

## 1.1 Summary

On-site soil samples were collected from each of the 32 Geoprobe™ borings and analyzed for 13 priority pollutant metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc), hexavalent chromium, total petroleum hydrocarbons (TPH), VOCs, polycyclic aromatic hydrocarbons (PAHs), and/or extractable petroleum hydrocarbons (EPH). Off-site surface soil samples were collected and analyzed from each of the hand-auger borings and analyzed for the same parameters as the on-site soil samples. Table 1 summarizes which soil samples were analyzed and what analyses were performed. Reconnaissance groundwater samples were collected from borings GP-2, GP-4, GP-5, GP-6, GP-7, GP-8, GP-13, and GP-15, and groundwater samples were collected from monitoring wells MW-1 through MW-8. Analyses performed on groundwater samples were the same as for the soil samples, with the exception that analyses were not conducted for EPH in groundwater samples and a reconnaissance groundwater sample was analyzed for polychlorinated biphenyls (PCBs). Table 2 summarizes the analyses performed on groundwater samples.

For the purposes of assessing the nature and extent of contamination at the site and to identify indicator hazardous substances (IHSs) consistent with Washington Administrative Code (WAC) 173-340-703, soil analytical results were compared to Model Toxics Control Act (MTCA) Method C soil cleanup levels (CULs) for direct contact (ingestion) and protection of groundwater, except for arsenic, lead, diesel-range organics (DROs), and oil-range organics (OROs), which were compared to the MTCA Method A soil CULs. DRO and ORO results were also evaluated by entering the analytical results for EPH and other petroleum constituents into MTCA worksheets to determine if the concentrations of TPH present at the site are above acceptable levels of risk.

Similarly, analytical results for reconnaissance groundwater samples and groundwater samples collected from monitoring wells were compared to MTCA Method C groundwater CULs, except for arsenic, DROs, and OROs, which were compared to the MTCA Method A groundwater CULs. For informational purposes, groundwater samples from the five most downgradient monitoring wells that are most representative of groundwater flowing off site (MW-2, MW-3, MW-6, MW-7, and MW-8; see Figure 3) were also compared to ambient water quality criteria (AWQC) to address Ecology's request to consider surface-water criteria (see Section 3.2.2).

Final site-specific CULs will be developed as part of a separate document that will also include a conceptual site model. The final CULs will take into account that the highest beneficial use of groundwater at the site is believed to discharge to surface water (the Duwamish River), as documented in the Duwamish Industrial Area Hydrogeologic Pathways project (The Floyd & Snider Team, 1999).

IHSs identified in on-site soil include:

- Hexavalent chromium
- TCE

IHSs identified in off-site soil samples from the ditch include:

- arsenic
- cadmium
- chrysene
- copper
- hexavalent chromium
- lead

IHSs identified in reconnaissance groundwater or monitoring-well groundwater samples include:

- Arsenic
- Copper
- DROs
- Hexavalent chromium
- OROs
- Selenium
- Trivalent chromium
- TCE
- Vinyl chloride

The estimated extent of IHSs is described below:

- The IHSs in on-site soil that exceeded a preliminary comparison to CULs occurred beneath the building footprint in the eastern part of the building (see Figure 4). Soil exceedances of hexavalent chromium soil CULs for the protection of groundwater were directly beneath the chrome shop, and soil exceedances of TCE soil CULs for the protection of groundwater occurred below the chrome shop and grinding shop.
- The IHSs in reconnaissance groundwater that exceeded preliminary CULs were in locations similar to those of the on-site soil exceedances. Reconnaissance groundwater exceedances were beneath the building and occurred near or just downgradient of the former chrome shop and grinding shop (see Figure 5).
  - Hexavalent chromium, trivalent chromium, and TCE exceedances were below or downgradient of the chrome shop.
  - Vinyl chloride (a breakdown product of TCE) exceeded the CUL downgradient of the elevated soil concentration of TCE in GP-11 (in the grinding shop).
  - DROs exceeded the CUL crossgradient (north) of the former boiler UST (see Figure 5).
- The IHSs in groundwater samples that exceed preliminary CULs are described below:
  - Arsenic concentrations exceeded the MTCA Method A groundwater CUL in all the groundwater samples, except in the groundwater sample from MW-5 (in the former chrome shop). The groundwater samples from the five most downgradient wells also exceeded AWQC for arsenic. The highest arsenic concentrations occurred in MW-1, which is assumed to be upgradient of the former facility operations and is completed in the deeper water-bearing zone (WBZ) (which is confined). Based on the widespread occurrence of arsenic in site groundwater, and the absence of a potential source of arsenic, it does not appear that Precision's activities have caused the elevated levels of arsenic in groundwater at the site. Arsenic levels are believed to be representative of background concentrations of arsenic in soils.
  - Hexavalent chromium exceeded the MTCA Method C groundwater CUL in the groundwater sample from MW-5 (in the former chrome shop) and in the June 2005 groundwater sample from MW-1 (assumed upgradient location from site operations). However, in the December 2005 groundwater sample from MW-1, hexavalent chromium was not detected. Hexavalent chromium was detected in only one groundwater sample collected from one of the five

downgradient monitoring wells (MW-7), but the concentration was below the MTCA Method C groundwater CUL and available AWQC.

- DROs and OROs generally exceeded the MTCA Method A groundwater CULs in groundwater samples from monitoring wells in the shallow WBZ in the southeast quadrant of the site. DRO detections exceeded the Method A CUL in monitoring wells MW-2 (December 2005 only), MW-5, MW-6, and MW-8. ORO detections exceeded the Method A CUL in monitoring wells MW-2, MW-6, and MW-8. The highest DRO and ORO detections occurred in the groundwater sample from MW-6.
- Chrysene was detected only in the groundwater sample from MW-1 at a concentration greater than the MTCA Method C groundwater CUL. Again, it is assumed that MW-1 is upgradient of the former operations and is in the confined deeper WBZ.
- TCE was detected only in one groundwater sample in MW-5 at a concentration that exceeded the MTCA Method C groundwater CUL. MW-5 is located just downgradient of soil and reconnaissance groundwater exceedances for TCE (see Figures 4 and 5). TCE was not detected at concentrations exceeding CULs in the downgradient monitoring wells in the shallow or deep WBZ.
- Vinyl chloride was detected only in groundwater samples from MW-8 (sample and duplicate sample) at concentrations that exceeded the MTCA Method C groundwater CUL and the AWQC. The detection of vinyl chloride indicated that natural degradation of TCE is occurring.
- Most of the preliminary CUL exceedances in off-site soil occurred in the sample from HA-4 (at 0.5 feet below ground surface [bgs]), which is at the lowest part of the ditch. The ditch near HA-4 empties into a 24-inch-diameter storm drain and receives stormwater runoff from the site, from areas west and east of the site, and from 14th Avenue. The extent of IHSs in off-site soil that exceeded preliminary CULs is described below:
  - One off-site soil sample exceeded the CUL for hexavalent chromium, HA-2 at 0.5 feet bgs (see Figure 4). HA-2 is located next to the 10-inch stormwater line that discharges stormwater from the western part of the site to the ditch (see Figure 2). Hexavalent chromium was not detected downgradient of HA-2 at HA-4.
  - Arsenic exceedances of the background concentration occurred in samples from 0.5 feet bgs at HA-3, HA-4, and HA-5. HA-3 is in an area that receives

runoff from the eastern part of the site and possibly from the property to the east of the site; HA-4 is at the low point of the ditch; and HA-5 is in an area that receives stormwater runoff from 14th Avenue.

- Cadmium, copper, and lead concentrations exceeded CULs in HA-4 at 0.5 feet bgs, and lead concentrations at 0.5 feet bgs in HA-3 and HA-5 also exceeded the CUL. The highest lead detection occurred in HA-4.
- The chrysene concentration from HA-5 at 0.5 feet bgs exceeded the CUL.

## 1.2 Conclusions

- On-site soil exceedances of preliminary CULs are limited to soil beneath the eastern portion of Precision's building.
- Groundwater exceedances of preliminary CULs observed in reconnaissance groundwater samples and the groundwater sample from MW-5 are limited to the eastern portion of Precision's building. The groundwater exceedances within the building footprint are similar in extent to the location of the on-site soil exceedances of CULs.
- Concentrations of TCE in the five downgradient wells do not exceed the preliminary CULs. TCE exceedances of CULs in soil and groundwater are limited to within the building footprint, either below or downgradient of the chrome shop and grinding shop. Concentrations detected in groundwater are far below the solubility limit of TCE and do not indicate the presence of TCE free product. In addition, Precision is not aware of any TCE spills at the site. Based on this information, it is likely that the source of the TCE at the site is incidental leaks and drips, and no significant free product is expected to be present.
- Groundwater exceedances of preliminary CULs outside the building footprint are limited and exhibit the following trends:
  - Arsenic concentrations in wells throughout the site exceeded the preliminary CUL and are believed to be representative of background concentrations of arsenic.
  - The groundwater exceedances of chrysene and hexavalent chromium in MW-1 (confined and assumed to be upgradient of site operations) may be related to sources other than activities on the Precision site.
  - Concentrations of hexavalent chromium in the five downgradient wells did not exceed the preliminary CUL.

- Concentrations of DROs and OROs in groundwater may be related to the former boiler UST.
- Vinyl chloride detections in the groundwater samples from MW-8 exceeded the preliminary CUL.
- Vinyl chloride, DROs, and OROs were detected in one or more of the downgradient wells above preliminary CULs, indicating possible migration of these chemicals off site.
- Off-site soil exceedances of the preliminary CUL in the ditch are influenced by runoff from areas other than the site. The source of arsenic, lead, copper, cadmium, and chrysene in the ditch is undetermined. It is likely that the source of hexavalent chromium detected at HA-2 is runoff from the site.

### **1.3 Recommendations**

- Continue to monitor groundwater quarterly and acquire one year of groundwater-monitoring data to assess contaminant stability and trends
- Place a restrictive covenant to ensure that the site remains industrial and to restrict groundwater use from the site (allowing MTCA Method C CULs to be used)
- Perform additional sampling near HA-2 to determine the nature and extent of hexavalent chromium exceedances of CULs in the area near Precision's outfall to the ditch
- Complete a groundwater beneficial use survey, a conceptual site model, and the development of final CULs.

## 2 SITE DESCRIPTION

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### 2.1 Property Location and Description

The former Precision facility is located at 1231 S. Director Street in Seattle, Washington (see Figure 1). The approximately 3.5-acre site is in King County, Washington, section 32, township 24 north, range 4 east, Willamette Meridian. The site is approximately 1,800 feet (less than 0.5 mile) west of the Duwamish River. The area surrounding the site is characterized by mixed industrial and residential use. The site is zoned I (Industrial). A single 62,000-square-foot building is located at the site. The east side of the building was constructed in 1968, and the west part was added in 1979. The building is surrounded by an asphalt parking lot (see Figure 2).

Precision operated continuously at the property between 1968 and 2005, ceasing operations on March 1, 2005. Precision specialized in the manufacture and repair of large hydraulic cylinders, large rolls used in the manufacture of paper and metal sheet products, and other equipment. Services included precision grinding and polishing, honing, hard-chrome plating, milling, welding, and a large number of flame- and arc-applied metal coatings. Much of Precision's work involved the use of chromic acid. Approximately 10,000 square feet of the west side of the building was leased to Baszile Metals Service, an aluminum distributorship, between approximately 1985 and 2003.

### 2.2 Environmental Setting

The Precision facility is located at the base of a hill along S. Director Street. The site is generally flat except for the northern and western edges of the property, which consist of an excavated slope. The property is located in the lowland area of the Duwamish River Estuary. The Duwamish River is approximately 1,800 feet (less than 0.5 mile) east of the site and flows north to Elliot Bay.

#### 2.2.1 Surface Water and Stormwater System

Surface water flows south from the property and into a drainage ditch on the south side of the property. Primary runoff routes are from the southeast corner of the site and from a catch basin in the southern parking lot (see Figure 2). The catch basin drains south to a



manhole that in turn discharges to the drainage ditch. The drainage ditch empties into a 24-inch storm drain and then through a network of pipes until it discharges to the Duwamish River (Sweet-Edwards/EMCON, 1990). In addition to receiving runoff from the site, the ditch receives, at a minimum, surface-water runoff from properties to the west and east of the site, surface water from the on-ramp to W. Marginal Way, and water from a ditch that parallels 14th Avenue.

## **2.2.2 Geology**

The site is underlain by localized fill up to 10 feet thick (observed only in the eastern portion of the site); alluvium comprised of silt and sand (from the surface to a depth of approximately 20 feet, observed only on the eastern portion of the site); dense, gravelly, sandy silt glacial till (observed from surface to approximately 2 feet bgs in the western part of the site and observed from 20 feet to 30 feet bgs in the eastern part of the site); and alluvium comprised of sand and gravel (advanced outwash, observed from 30 feet bgs and below). The geology observed during the site investigations is generally consistent with a cross section prepared by Sweet-Edwards/EMCON, Inc. (Precision, 1993). Sweet-Edwards/EMCON's cross section is included as Appendix A. The only change from this cross section is that the advanced outwash was observed in MW-7 (adjacent to MW-2) at approximately 29 feet bgs (at a shallower depth than is depicted in the cross section). The boring and well logs from the December 2005 characterization are included in Appendix B and the boring logs from the June 2005 characterization are included in the Preliminary Assessment Report (MFA, 2005a).

## **2.2.3 Hydrogeology**

Two WBZs are present beneath the site: (1) an unconfined alluvial WBZ beneath the eastern side of the site that flows easterly toward the Duwamish River (shallow WBZ), and (2) a confined sand and gravel WBZ confined beneath the low-permeability glacial till (deep WBZ, which is also referred to as the advanced outwash WBZ) (Precision, 1993). East of the facility, the glacial till appears to hydraulically separate the two WBZs (Precision, 1993).

Four monitoring wells (MW-1 through MW-4) and two piezometers (P-1 and P-2) were installed at the site in June 1988. In past investigations, groundwater levels at the site ranged from 0 feet to 15.4 feet bgs, with the flow direction in the shallow aquifer to the east with a slight northern component (Precision, 1993). The past investigations also indicated that MW-2 and MW-3 are in the shallow WBZ, which occurs only in the western half of the site, and that MW-1 and MW-4 are in the deep WBZ. However, based on MFA's review of the well-construction logs, MW-4 is interpreted to be completed in the glacial till and to be in the shallow WBZ (unconfined alluvial WBZ). MW-4 is not

completed in the confined sand and gravel WBZ (deep WBZ) and shows water levels consistent with the shallow WBZ.

During the December 2005 site investigation, four additional monitoring wells (MW-5 through MW-8) were installed (see Figure 3). MW-5, MW-6, and MW-7 were installed in the shallow WBZ, and MW-8 was installed in the deep WBZ. Well logs and well development forms for the newly installed monitoring wells are shown in Appendix B and Appendix C, respectively. Depth-to-water measurements were collected at monitoring wells MW-1 through MW-8 just prior to commencing the December 2005 groundwater sampling (see Table 3). The piezometers could not be located during the June 2005 or December 2005 sampling events. Table 3 summarizes static groundwater level elevations, which ranged from 12.07 feet National Geodetic Vertical Datum of 1929 (NGVD) in MW-7 to 21.13 feet NGVD in MW-1. Figure 6 shows the potentiometric surface for the shallow WBZ. Estimated potentiometric contours show that the shallow WBZ flows generally to the east.

A deep potentiometric surface was not created because of insufficient data (only two data points). In the deep WBZ (confined sand and gravel WBZ), MW-1 exhibited flowing artesian conditions and MW-7 showed a water level below that of MW-1 and the shallow WBZ (see Figure 6).

A staff gauge was installed at the lowest part of the off-site ditch (south of the site) and adjacent to the 24-inch-diameter storm-drain line where the surface water in the ditch drains. The elevation of the ditch at the staff gauge was 11.61 feet NGVD, which, if the water potentiometric contours for the shallow WBZ were continued south, would be below the potentiometric surface of approximately 13.75 feet NGVD (see Figure 6). However, when the water levels were collected there was not a measurable amount of water in the ditch. Shallow groundwater does not appear to discharge to the ditch. The presence of water in the ditch is believed to be governed by surface-water hydrology.

## 2.3 Features of Interest

The features of interest characterized during the June and December 2005 investigations included:

- Containment vaults holding former Plating Tanks 1 and 2
- Former Plating Tanks 3, 4, 5, and 6
- Large containment vault holding former Plating Tank 7 and caustic tanks
- Former floor trenches and drains
- Hydraulic cylinder test vault
- Temporary plating-tank area
- Scrubber room and chromic-acid evaporator

- Parts washers, degreasers, and other solvent usage
- Former steam-cleaning area
- Former boiler UST

The features of interest, except the former boiler UST, are described in detail in the Preliminary Assessment Report (MFA, 2005a). The former boiler UST was used to fuel a boiler and was located beneath the floor of the boiler room in the south part of the building (see Figure 2). The tank was abandoned in place and filled with “slurry” in 1992 (Environmental Associates, Inc., 1992). No testing of soil or groundwater was completed during the UST decommissioning.

### 3 ANALYTICAL RESULTS

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Selected soil samples were analyzed for total metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc), hexavalent chromium, TPH, or VOCs by the methods referenced in the Preliminary Assessment Report and the Supplemental RI Work Plan (MFA, 2005a and 2005b). PAHs and EPH were analyzed in select soil samples with DRO and/or ORO detections. Oxidation/reduction potential (Eh) and pH were also analyzed in select soil samples to assess the nature of the soil. Trivalent chromium was calculated for the soil samples by subtracting the hexavalent chromium results from the total chromium results. Table 1 specifies what analyses were performed on soil samples.

Groundwater samples from monitoring wells and reconnaissance groundwater samples were analyzed for dissolved total chromium, hexavalent chromium, TPH, VOCs, PAHs, or PCBs by the methods referenced in the Preliminary Assessment Report and the Supplemental RI Work Plan (MFA, 2005a and 2005b). Reconnaissance groundwater samples were collected from borings GP-2, GP-4, GP-5, GP-6, GP-7, GP-8, GP-13, and GP-15 (see Figure 3). Table 2 specifies what analyses were performed on groundwater samples.

#### 3.1 Data Quality

Appendix D contains the laboratory analytical reports for the December 2005 investigation, and the data quality assurance/quality control (QA/QC) reviews are in Appendix E. The laboratory analytical reports and QA/QC reviews for the June 2005 investigation are in the Preliminary Assessment Report (MFA, 2005a). The December 2005 data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

Matrix spike/matrix spike duplicate (MS/MSD) percent recoveries for hexavalent chromium in soil samples were significantly below acceptance limits. In accordance with U.S. Environmental Protection Agency (USEPA) Method 7196a, extracts that yielded MS/MSD percent recoveries of less than 85 percent were reanalyzed to determine if the low spike recoveries were due to the presence of residual reducing agent. During the re-analysis, the pH in aliquots of the extracts was adjusted to be alkaline (pH 8.0 to 8.5). The aliquots were then re-spiked and analyzed. MS/MSD percent recoveries for the re-analyses were acceptable, indicating a reducing condition in the original samples. Several

representative samples were then analyzed for pH and Eh. The pH and Eh results were compared to an Eh/pH phase diagram provided in the 3060A sample preparation method. The samples were generally in the reducing phase, confirming the reducing condition in on-site and off-site soils. The Eh and pH data are shown in the laboratory analytical reports in Appendix D. Due to extremely low percent recoveries for hexavalent chromium in the MS/MSD analyses caused by the reducing condition, hexavalent chromium soil results from the December 2005 sampling event were qualified as estimated (J or UJ).

## 3.2 Cleanup Levels

For the purposes of assessing the nature and extent of contamination at the site and to identify IHSs consistent with WAC 173-340-703, concentrations of chemicals in soil and groundwater were preliminarily compared to MTCA Method C CULs, unless noted otherwise. Method C was selected based on current and reasonably likely future land uses at the site (Ecology, 2001). The Precision site meets WAC (173-340-745) requirements for an industrial property for the following reasons:

- The site is zoned industrial.
- People do not live on the property.
- Public access to the property is limited.
- Food is not grown/raised on the property.
- Operations on the property were characterized by use and storage of chemicals.
- The surface of the property is covered by a building or asphalt.
- There are no other facilities on the property.

Final site-specific CULs will be developed as part of a separate document that will also include a conceptual site model. The final CULs will take into account that the highest beneficial use of groundwater at the site is believed to discharge to surface water (the Duwamish River), as documented in the Duwamish Industrial Area Hydrogeologic Pathways project (The Floyd & Snider Team, 1999).

### 3.2.1 Soil

Soil sample results were compared to standard MTCA Method C soil CULs for direct contact (i.e., ingestion). The ingestion CULs were available on Ecology's Cleanup Levels and Risk Calculations (CLARC) Web site (Ecology, 2006). The preliminary groundwater-protection CULs were calculated using chemical properties also obtained from the CLARC Web site. Chemical property values and default soil property values were entered into a spreadsheet created by MFA (see Appendix F, Table F-1). The accuracy of the MFA spreadsheet was verified by comparing several CUL estimates with

values calculated using Ecology's Worksheet for Calculating Soil Cleanup Levels for Unrestricted & Industrial Use (see Appendix F).

TPH and lead concentrations were preliminarily compared to MTCA Method A soil CULs for industrial properties because default MTCA Method B and C soil CULs are not available for these substances.

For TPH, the MTCA Method A soil CULs are based on an assumption of a recent release, which likely is not true at the site. This is important because the composition and potential toxicity of petroleum mixtures change over time due to natural degradation processes. MTCA worksheets can be used to calculate site-specific CULs for TPH products, based on the composition of a petroleum mixture. Select soil samples with elevated TPH concentrations were analyzed for EPH to characterize the composition of petroleum in soil at the site. The analytical results for EPH and other petroleum constituents were input into MTCA worksheets to determine if the concentrations of TPH present at the site are above acceptable levels of risk (see Appendix G).

Arsenic is a naturally-occurring metal in soil. Therefore, arsenic concentrations were compared to MTCA Method A soil CUL based on direct contact and protection of groundwater for drinking water use, which was adjusted for natural background concentrations in soil.

### **3.2.2 Groundwater**

Reconnaissance groundwater samples and groundwater samples from monitoring wells were preliminarily compared to standard MTCA Method C groundwater CULs for industrial properties. The groundwater CULs were available on Ecology's CLARC Web site. MTCA Method A groundwater CULs were used to evaluate arsenic, lead, and TPH results. The Method A CUL for arsenic is based on background concentrations for the state of Washington. Default MTCA Method B and C groundwater CULs for TPH and lead are not available.

Concentrations of chemicals in water samples from monitoring wells MW-2, MW-3, MW-6, MW-7, and MW-8 (assumed to be in the most downgradient locations) were also compared to AWQC, based on the proximity of the site to the Duwamish River. The comparison is for informational purposes only. The comparison of groundwater data at the property boundary is a conservative evaluation because chemical concentrations in on-site groundwater will attenuate substantially before reaching the Duwamish River. It is anticipated that the final CULs for the site will be developed based on meeting the AWQC at the groundwater/surface water interface. The AWQC were obtained from Ecology's CLARC Web site and include:

- Ecology's MTCA Method C surface-water CULs

- AWQC for human health from the USEPA Clean Water Act (CWA) (301) and USEPA National Toxics Rule (NTR; 40 CFR 131)
- AWQC for freshwater aquatic life (chronic) from WAC (Chapter 173-201A), USEPA CWA (301), and USEPA NTR (40 CFR 131)

The most stringent AWQC were used in the analytical tables and compared to the groundwater results from the five monitoring wells closest to the property boundary.

### **3.3 On-Site Soil and Reconnaissance Groundwater Analytical Results**

Tables 4 through 9 summarize soil analytical results for metals, VOCs, PAHs, and TPH analyses. Tables 10 through 15 summarize reconnaissance groundwater analytical results for metals, VOCs, PAHs, petroleum hydrocarbons, and PCB analyses. Sample locations are shown on Figure 3. Reconnaissance groundwater samples were collected from GP-2, GP-4 through GP-8, GP-13, and GP-15 (see Table 2).

The work completed identified hexavalent chromium and TCE as IHSs in soil because concentrations exceeded the preliminary MTCA Method C soil CULs. In reconnaissance groundwater, hexavalent chromium, trivalent chromium, TCE, vinyl chloride, DROs, and OROs were identified as IHSs because concentrations exceeded the preliminary MTCA Method C groundwater CULs (Method A CULs for DROs or OROs).

#### **3.3.1 Total Chromium and Trivalent Chromium**

Total chromium was detected in the on-site soil samples at concentrations ranging from 17.3 milligrams per kilogram (mg/kg) (GP-11 at 6.5 feet bgs) to 6,750 mg/kg (GP-32 at 1.0 feet bgs). MTCA soil CULs are not available for total chromium. Trivalent chromium was calculated by subtracting the hexavalent chromium results from the total chromium results. If hexavalent chromium was not detected, then the total chromium value was assumed to be trivalent chromium. The calculated concentrations of trivalent chromium did not exceed the MTCA Method C soil CULs for ingestion or groundwater protection of 5,300,000 mg/kg and 1,060,000 mg/kg, respectively (see Table 4).

The only reconnaissance groundwater samples in which chromium was detected were located in the former chrome shop, except for GP-8, which is downgradient of that area. The maximum detection of chromium was 355 milligrams per liter (mg/L) in GP-8. MTCA groundwater CULs are not available for chromium. Trivalent chromium was calculated by subtracting the hexavalent chromium results from the total chromium results. If hexavalent chromium was not detected, then the total chromium value was assumed to be trivalent chromium. The concentrations of trivalent chromium did not

exceed the MTCA Method C CULs of 52.5 mg/L except in the groundwater sample from GP-8 (61 mg/L; see Table 10). GP-8 is located directly downgradient of the former chrome shop and the containment vault, which held former Plating Tanks 1 and 2 (see Figure 5).

### 3.3.2 Hexavalent Chromium

Hexavalent chromium generally was not detected in on-site soil samples, except for in and near the former chrome shop and near the large containment vault holding former Plating Tank 7. Hexavalent chromium detections ranged from 0.181 mg/kg (GP-6 at 14.5 feet bgs) to 3,200 mg/kg (GP-32 at 1.0 feet bgs) and did not exceed the MTCA Method C CUL for ingestion of 11,000 mg/kg. The MTCA Method C soil CUL for groundwater protection of 42.2 mg/kg was exceeded by soil samples from eight borings: GP-1, GP-2, GP-3, GP-4, GP-6, GP-17, GP-18, and GP-32 (see Table 4). Hexavalent chromium exceedances in soil samples were found in the former chrome shop (see Figure 4). The hexavalent chromium exceedances occurred in shallow soil samples, 1.0 feet to 1.5 feet bgs, except for the samples from GP-3 and GP-17 at 6.0 feet bgs (see Table 4).

Generally, hexavalent chromium was detected in reconnaissance groundwater samples; however, the MTCA Method C groundwater CUL of 0.105 mg/L was exceeded only in samples located in the former chrome shop and just downgradient at GP-8 (see Table 10 and Figure 5). The reconnaissance groundwater samples are in locations similar to those of soil exceedances.

### 3.3.3 Priority Pollutant Metals

Twelve priority pollutant metals (antimony, arsenic, beryllium, cadmium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc) were analyzed in 11 select soil samples (see Table 1). Of the 12 priority pollutant metals analyzed, antimony, beryllium, selenium, silver, and thallium were not detected. Cadmium, copper, lead, mercury, nickel, and zinc were detected in some soil samples; however, the concentrations did not exceed their respective MTCA Method C soil CULs (see Table 5). Arsenic was detected in the soil samples at concentrations below the MTCA Method A soil CUL (see Table 5).

The only metal other than chromium analyzed in reconnaissance groundwater was lead from GP-2, which was not detected.

### 3.3.4 Volatile Organic Compounds

In most cases VOCs were not detected in soil samples. Where VOCs were detected, the concentrations did not exceed the MTCA Method C soil CULs, except for TCE. TCE was



detected in seven of the 64 on-site soil samples analyzed for VOCs at concentrations ranging from 3.43 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ) (GP-18 at 1.0 feet bgs) to 1,160  $\mu\text{g}/\text{kg}$  (GP-6 at 14.5 feet bgs). TCE concentrations did not exceed the MTCA Method C soil CUL for ingestion, 330,000  $\mu\text{g}/\text{kg}$ ; however, four of the TCE detections exceeded the MTCA Method C soil CUL for groundwater protection of 7.27  $\mu\text{g}/\text{kg}$  (see Table 6). The Method C soil CUL exceedances occurred in the former chrome shop (see Figure 4). Concentrations of TCE in soil at GP6 and GP11 increased with depth. GP6 was completed approximately 10 to 20 feet away from the former TCE tank (see Figure 2). The exact location of the tank is unknown. Samples collected at a depth of 1 foot bgs from two borings completed near the area of the former TCE tank (GP18 and GP32) did not contain TCE at concentrations above the CULs.

VOCs generally were not detected in reconnaissance groundwater samples. Where detected, VOCs were below the MTCA Method C groundwater CULs, except for TCE and vinyl chloride. TCE was detected in three reconnaissance groundwater samples (see Table 11): GP-6 (1,130 micrograms per liter [ $\mu\text{g}/\text{L}$ ]), GP-8 (16.8  $\mu\text{g}/\text{L}$ ), and GP-13 (0.220  $\mu\text{g}/\text{L}$ ). Two of the TCE detections, GP-6 and GP-8, exceeded the MTCA Method C groundwater CUL of 1.1  $\mu\text{g}/\text{L}$ , in samples from below and downgradient of the former chrome shop (see Figure 5). The maximum detected TCE concentration in reconnaissance groundwater (1,130  $\mu\text{g}/\text{L}$  at GP6) is approximately 0.1 percent of the solubility limit of 1,100,000  $\mu\text{g}/\text{L}$  and does not indicate the presence of TCE free product. Vinyl chloride was detected in only one reconnaissance groundwater sample, from GP-13 at 16.5  $\mu\text{g}/\text{L}$ , which exceeded the MTCA Method C groundwater CUL of 0.29  $\mu\text{g}/\text{L}$ . The vinyl chloride exceedance occurred near the former grinding shop and cylinder shop. Vinyl chloride is a breakdown product of TCE, and the detection of vinyl chloride in GP-13 is downgradient of TCE detections in soil at GP-11.

### 3.3.5 Petroleum Hydrocarbons

Gasoline-range organics (GROs), DROs, and OROs were not detected in soil samples collected in June 2005 and analyzed using Method NWTPH-HCID (see Table 7). The soil samples collected in December 2005 were analyzed for DROs and OROs. Generally, DROs and OROs were not detected in soil samples except for the samples near the former boiler UST (see Table 8 and Figure 3). The concentrations of DROs and OROs were below the MTCA Method A soil CULs for industrial properties of 2,000  $\text{mg}/\text{kg}$ , except for the sample from GP-21 at 6.5 feet bgs (5,270  $\text{mg}/\text{kg}$  and 19,900  $\text{mg}/\text{kg}$ , for DROs and OROs, respectively).

The soil sample from GP-21 at 6.5 feet was analyzed for EPH in order to calculate site-specific CULs for TPH. The EPH and other constituent concentrations were input into Ecology's soil CUL worksheet. The result from the worksheet showed that the on-site soil sample from GP-21 at 6.5 feet bgs passed the calculated exposure pathways for

industrial land use and Method B potable groundwater protection (see Appendix G). Since the sample from GP-21 at 6.5 feet bgs had the highest TPH concentrations and was the only sample to exceed MTCA Method A soil CULs, it is assumed that the concentrations of TPH in on site soil do not pose a threat to human health or the environment. To assure that nonaqueous-phase liquid (NAPL) will not accumulate on groundwater, residual saturation in soil was assessed by empirical methods based on MTCA 173-340-747(10)(c)(i). The site has operated since 1968 and sufficient time has elapsed that if NAPL were in the subsurface it would be observed in monitoring wells. NAPL was not observed in on-site soil and reconnaissance groundwater investigation or in the monitoring wells.

The reconnaissance groundwater samples from GP-2 and GP-4 through GP-8 were analyzed for TPH using NWTPH-HCID. The only detections in the samples were GROs in GP-2 and GP-8, DROs in GP-4 and GP-8, and OROs in GP-8 (see Table 12). The detections of TPH in the reconnaissance groundwater samples were quantified using NWTPH-Gx and NWTPH-Dx. The quantified detections did not exceed the MTCA Method A groundwater CULs, except for DROs in GP-8—a concentration of 0.814 mg/kg (see Table 13).

### **3.3.6 Polycyclic Aromatic Hydrocarbons**

In almost every case, PAHs were not detected in soil samples. When PAHs were detected, the concentrations did not exceed the MTCA Method C CULs for ingestion and groundwater protection (see Table 9).

PAHs were analyzed in reconnaissance groundwater samples from MW-2 and MW-8. Carcinogenic PAHs were not detected. Some noncarcinogenic PAHs were detected, but these were below their respective MTCA Method C groundwater CULs (see Table 14).

### **3.3.7 Polychlorinated Biphenyls**

In June 2005, PCBs were analyzed in the reconnaissance groundwater sample with the highest TPH and PAH results. PCBs were not detected (see Table 15). PCBs were not analyzed in soil samples.

## **3.4 Groundwater Analytical Results (Monitoring Wells)**

Monitoring wells MW-1 through MW-8 were sampled in December 2005. In June 2005, monitoring wells MW-1 through MW-4 were sampled before the new wells were installed. The groundwater analytical results for dissolved metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium,

and zinc), hexavalent chromium, TPH, VOCs, and PAHs from June and December 2005 sampling events are summarized in Tables 16 through 21. Groundwater analytical results were compared to Ecology's MTCA Method C groundwater CULs, except for TPH, arsenic, and lead results, which were compared to MTCA Method A groundwater CULs. The downgradient monitoring wells (MW-2, MW-3, MW-6, MW-7, and MW-8) were also compared to AWCQ for informational purposes.

### 3.4.1 Chromium

Dissolved-chromium detections ranged from 0.00215 mg/L (MW-3 in December) to 0.497 mg/L (MW-5 in December). There are no MTCA groundwater CULs available for chromium. Trivalent chromium was calculated by subtracting the hexavalent chromium results from the total chromium results. If hexavalent chromium was not detected, then the total chromium value was assumed to be trivalent chromium. The calculated dissolved trivalent chromium concentrations did not exceed the CULs (see Table 16). Hexavalent chromium generally was not detected in groundwater samples, except from MW-1 (in June), MW-5 (in December), and MW-7 (in December). Detections of hexavalent chromium ranged from 0.00738 mg/L (MW-7) to 0.450 mg/L (MW-5). The MCTA Method C groundwater CUL of 0.105 mg/L was exceeded by the concentrations in MW-1 (0.269 mg/L in June) and MW-5 (0.450 mg/L in December). Hexavalent chromium was not detected in the groundwater sample from MW-1 in December. MW-5 is in the former chrome shop, and MW-1 is assumed to be upgradient of the site features of interest.

The most stringent AWQC for hexavalent chromium is 0.01 mg/L (aquatic life). The AWQC were not exceeded in the five downgradient monitoring wells by hexavalent chromium (see Table 16).

### 3.4.2 Priority Pollutant Metals

Analyses for priority pollutant metals were performed in groundwater samples during the December 2005 sampling event. Dissolved antimony, beryllium, cadmium, lead, mercury, silver, and thallium were not detected. Copper, nickel, selenium, and zinc were detected in some groundwater samples but at concentrations less than their respective MTCA Method C groundwater CULs (see Table 17). Arsenic was detected in the groundwater samples at concentrations ranging from 4.59 µg/L (MW-5) to 32.3 µg/L (MW-1). Eight of the nine samples exceeded the MTCA Method A groundwater CUL of 5 µg/L.

At the five downgradient monitoring wells, detections of nickel and zinc did not exceed the most stringent AWQC, 49 µg/L and 32 µg/L, respectively. The most stringent AWQC for arsenic, 0.018 µg/L (human health), was exceeded by the concentrations in the five downgradient wells. The only copper detection in the groundwater samples from the five

downgradient wells to exceed the AWQC for human health of 3.5 µg/L was from MW-6. The most stringent AWQC for selenium, 5 µg/L, was exceeded by detections in groundwater samples from MW-2 and MW-6 (see Table 17 and Figure 3). There is no indication that the Precision site is a source of arsenic or selenium contamination.

### 3.4.3 Volatile Organic Compounds

VOC analytes generally were not detected. Where they were detected, the concentrations were below the MTCA Method C groundwater CULs, except for TCE and vinyl chloride (see Table 18). TCE was detected only in MW-5 at 22.1 µg/L, which is above the Method C groundwater CUL of 1.09 µg/L. The TCE concentration in MW-5 is 22.1 µg/L, which is approximately 0.002 percent of the solubility limit for TCE. There is no indication that TCE is present as product. TCE was not detected at concentrations exceeding CULs in the downgradient monitoring wells in the shallow or deep WBZ. Vinyl chloride was detected only in the sample and duplicate sample from MW-8 at 0.56 µg/L and 0.40 µg/L, respectively. The detections of vinyl chloride are just above the MTCA Method C groundwater CUL of 0.29 µg/L (see Figure 5). The presence of vinyl chloride indicates that biodegradation of TCE is occurring and that nearly all TCE is degraded by the time groundwater reaches the downgradient property line.

At the five downgradient monitoring wells, detections of VOC analytes were below their most stringent AWQC, except for vinyl chloride in the groundwater sample from MW-8 (see Table 18). The most stringent AWQC for vinyl chloride is 0.025 µg/L and the detection in the groundwater sample from MW-8 was 0.56 µg/L.

### 3.4.4 Petroleum Hydrocarbons

The groundwater sample from MW-2 in June 2005 was analyzed using NWTPH-HCID, and DROs and OROs were detected (see Table 19). The TPH detections were quantified using NWTPH-Gx and NWTPH-Dx. GROs were not detected in the MW-2 groundwater sample from June. All of the groundwater samples from the December 2005 sampling event were analyzed for DROs and OROs using NWTPH-Dx. GROs were not analyzed in the December 2005 groundwater samples.

DROs and OROs were not detected in groundwater samples collected in December 2005 from MW-1, MW-4, or MW-7. OROs were not detected in the sample from MW-3 (see Table 20). DROs were detected at concentrations below the MTCA Method A groundwater CUL of 0.5 mg/L in MW-2 (in June) and MW-3 (in December) at concentrations of 0.438 mg/L and 0.312 mg/L, respectively. DROs and OROs were detected in samples from MW-2 (in June only OROs), MW-5 (DROs only), MW-6, and MW-8 at concentrations greater than the MTCA Method A groundwater CULs of 0.5 mg/L. The DRO detections ranged from 0.831 mg/L (MW-5 in December) to

2.64 mg/L (MW-6 in December) and ORO detections ranged from 0.512 mg/L (in June) to 1.32 mg/L (MW-6 in December). Generally, DRO and ORO groundwater exceedances of the MTCA Method A CULs occur in the southeast quadrant of the site (see Figure 5).

AWQC are not available for TPH.

### 3.4.5 Polycyclic Aromatic Hydrocarbons

The groundwater sample from MW-2 in June 2005 and all of the groundwater samples from December 2005 were analyzed for PAHs (see Table 21). In most cases, PAHs were not detected in groundwater samples. Where detected, PAHs were below MTCA Method C groundwater CULs, except for the groundwater sample from MW-1. The December 2005 groundwater sample from MW-1 had detections of many PAH analytes (benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene) at concentrations slightly above the method reporting limits (see Table 21). Of the analytes detected in the groundwater sample from MW-1, only chrysene exceeded the Method C groundwater CUL of 0.12 µg/L, with a detection of 0.132 µg/L.

PAH detections in groundwater samples in the five downgradient monitoring wells did not exceed their most stringent AWQC (see Table 21).

## 3.5 Off-Site Soil Analytical Results

Off-site soil samples were collected in the ditch (south of the site) at the surface (0.5 feet bgs) and at approximately 1.5 feet bgs. The samples were collected at HA-1 and HA-5 (upgradient of the site to the west and east, respectively), HA-2 (near the 10-inch storm drain, which generally drains the western portion of the site), HA-3 (near an area of overland surface water flow from the eastern portion of the site and near a discharge pipe from the property to the east of the site), and HA-4 (near the inlet to the 24-inch stormwater drain and at the lowest portion of the ditch). Table 1 summarizes the analyses performed on the off-site soil samples. Tables 4 through 9 summarize soil analytical results for metals, VOCs, PAHs, and TPH. Sample locations are shown on Figure 3. Off-site soil samples were compared to MTCA Method C soil CULs, except arsenic, lead, and TPH, which were compared to MTCA Method A soil CULs.

The work completed has identified arsenic, cadmium, copper, hexavalent chromium, chrysene, and lead in soil at concentrations that exceed the MTCA Method C CULs (Method A CULs for arsenic and lead), and are therefore IHSs for the off-site soil.

### 3.5.1 Total Chromium and Trivalent Chromium

Total chromium was detected in the off-site soil samples at concentrations ranging from 32.7 mg/kg (HA-5 at 1.5 feet bgs) to 8,480 mg/kg (HA-4 at 0.5 feet bgs). MTCA soil CULs are not available for total chromium. Trivalent chromium was calculated by subtracting the hexavalent chromium results from the total chromium results. If hexavalent chromium was not detected, then the total chromium value was assumed to be trivalent chromium. The calculated concentrations of trivalent chromium did not exceed the MTCA Method C soil CULs for ingestion or groundwater protection of 5,300,000 mg/kg and 1,060,000 mg/kg, respectively (see Table 4).

### 3.5.2 Hexavalent Chromium

Hexavalent chromium was detected in three of the 11 off-site soil samples at concentrations ranging from 3.2 mg/kg (HA-2 at 1.5 feet bgs) to 89 mg/kg (HA-2 at 0.5 feet bgs). The MTCA Method C CUL for ingestion, 11,000 mg/kg, was not exceeded by the detections. The MTCA Method C soil CUL for groundwater protection, 42.2 mg/kg, was exceeded by the soil samples from HA-2 at 0.5 feet bgs (see Table 4 and Figure 4).

### 3.5.3 Priority Pollutant Metals

Twelve priority pollutant metals (antimony, arsenic, beryllium, cadmium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc) were analyzed in the off-site soil samples (see Table 5). Of the 12 priority pollutant metals analyzed, beryllium, selenium, silver, and thallium were not detected. Antimony, beryllium, mercury, nickel, and zinc were detected in some soil samples; however, the concentrations did not exceed their respective MTCA Method C soil CULs.

Arsenic was detected in the soil samples at concentrations ranging from 2.71 mg/kg (HA-2 at 1.5 feet bgs) to 53.9 mg/kg (HA-3 at 0.5 feet bgs). The MTCA Method A soil CUL for direct contact and groundwater protection of 20 mg/kg was exceeded by the arsenic concentrations in off-site soil samples at 0.5 feet bgs from HA-3, HA-4, and HA-5 (see Table 5 and Figure 4).

Cadmium was detected in five of the 11 soil samples. No cadmium concentrations exceeded the MTCA Method C soil CUL for ingestion, 3,500 mg/kg. However, cadmium in one of the samples from HA-4 at 0.5 feet bgs was detected at 28.7 mg/kg, which exceeds the MTCA Method C soil CUL for groundwater protection of 4.83 mg/kg.

Copper was detected in the soil samples and did not exceed the MTCA Method C soil CUL for ingestion, 130,000 mg/kg. However, one of the samples from HA-4 at 0.5 feet

bgs detected copper at 978 mg/kg, which exceeds the MTCA Method C soil CUL for groundwater protection of 577 mg/kg.

Lead was detected in the soil samples, and two samples from 0.5 feet bgs exceeded the MTCA Method A soil CUL for industrial properties, 1,000 mg/kg (HA-4 at 1,710 mg/kg and HA-5 at 1,440 mg/kg). Three of the soil samples from 0.5 feet bgs exceeded the MCTA Method C soil CUL for groundwater protection of 300 mg/kg (HA-3 at 545 mg/kg, HA-4 at 1,710 mg/kg, and HA-5 at 1,440 mg/kg).

### **3.5.4 Volatile Organic Compounds**

Generally, VOC analytes were not detected. Where VOCs were detected, the concentrations did not exceed the MTCA Method C soil CULs for ingestion or protection of groundwater (see Table 6).

### **3.5.5 Petroleum Hydrocarbons**

The off-site soil samples were analyzed for GROs, DROs, and OROs. GROs were detected in one soil sample, HA-1 at 0.5 feet bgs, at a concentration below the MTCA Method A CUL of 100 mg/kg. Generally, DROs were detected in the off-site soil samples, but at concentrations less than the MTCA Method A soil CUL of 2,000 mg/kg for industrial properties, except in the soil sample from HA-4 at 0.5 feet bgs (35,900 mg/kg). OROs were detected in the off-site soil samples, and five of the detections were above the MTCA Method A soil CUL for industrial properties of 2,000 at HA-2 through HA-5 at 0.5 feet bgs and at HA-4 at 1.5 feet bgs (see Table 8). Concentrations of OROs exceeding the MTCA Method A soil CUL ranged from 2,470 mg/kg (HA-3 at 0.5 feet bgs) to 106,000 mg/kg (HA-4 at 0.5 feet bgs).

The off-site soil samples closest to the site with ORO exceedances (HA-2 and HA-3 at 0.5 feet bgs) and the sample with the highest DRO and ORO concentrations (HA-4 at 0.5 feet bgs) were analyzed for EPH. The EPH and other constituent concentrations were input into Ecology's soil CUL worksheet for each sample. The results from the worksheets show that the off-site soil samples passed the calculated exposure pathways for industrial land use and Method B potable groundwater protection (see Appendix G). Since the sample from HA-4 at 0.5 feet bgs had the highest TPH and constituent concentrations, the worksheet results indicates that the lower concentrations of TPH off site do not pose a threat to human health. To ensure that NAPL will not accumulate on groundwater, residual saturation in soil was assessed by empirical methods based on MTCA 173-340-747(10)(c)(i). No evidence of a large volume of mobile product was found during the off-site soil sampling event. Localized soil staining was observed in some off-site samples. Also, TPH concentrations decrease with depth from the surface samples (0.5 feet bgs) to 1.5 feet bgs.

### 3.5.6 Polycyclic Aromatic Hydrocarbons

Some PAH analytes were detected, but at concentrations below their relative MTCA Method C soil CULs, except for chrysene in the soil sample from HA-5 at 0.5 feet bgs. Chrysene was detected in this soil sample at 1.54 mg/kg and did not exceed the MTCA Method C soil CUL for ingestion, 18 mg/kg. However, the chrysene detections at HA-5 did exceed the MTCA Method C soil CUL for groundwater protection of 0.96 mg/kg (see Table 9 and Figure 4). The HA-5 location receives runoff from the drainage ditch adjacent to 14th Avenue.



## LIMITATIONS

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The services described in 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. MFA are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. MFA does not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

The purpose of a geology/hydrogeology study is to reasonably characterize existing site conditions based on the geology/hydrogeology of the area. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all geologic/hydrogeologic conditions of interest at a given site. If conditions have not been identified during the study, such a finding should not, therefore, be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

MFA is unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether they occur naturally or are caused by external forces. MFA assumes no responsibility for conditions it was not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Geologic/hydrogeologic conditions that cannot be identified solely by visual observation may exist at the site. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations. These data may not represent actual conditions at unsampled locations.

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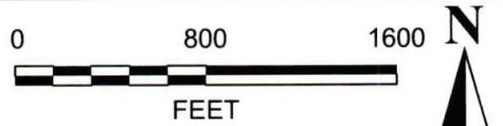
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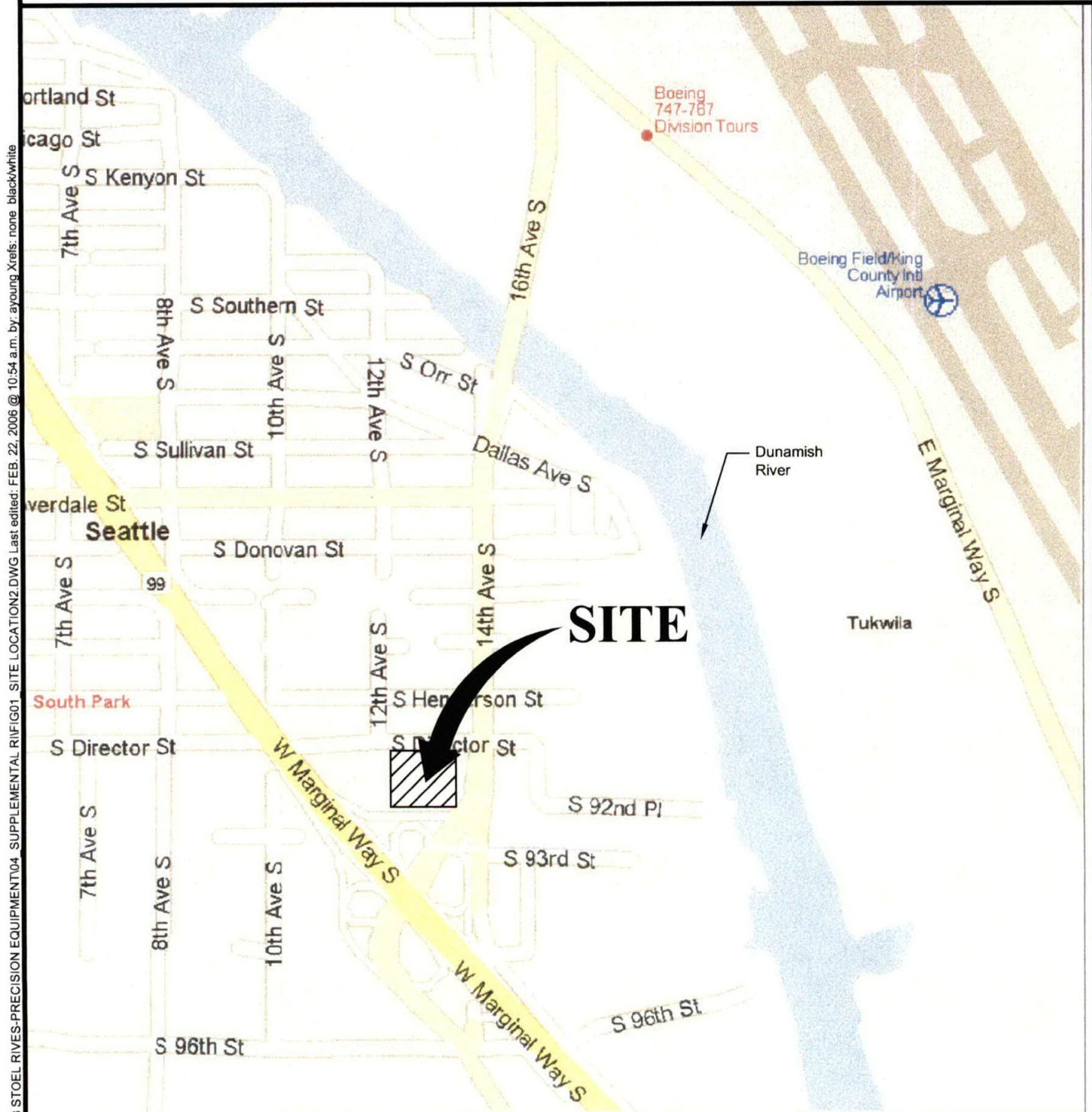
**FIGURES**



**Figure 1  
Site Location**

**Precision Engineering, Inc.  
Seattle, Washington**

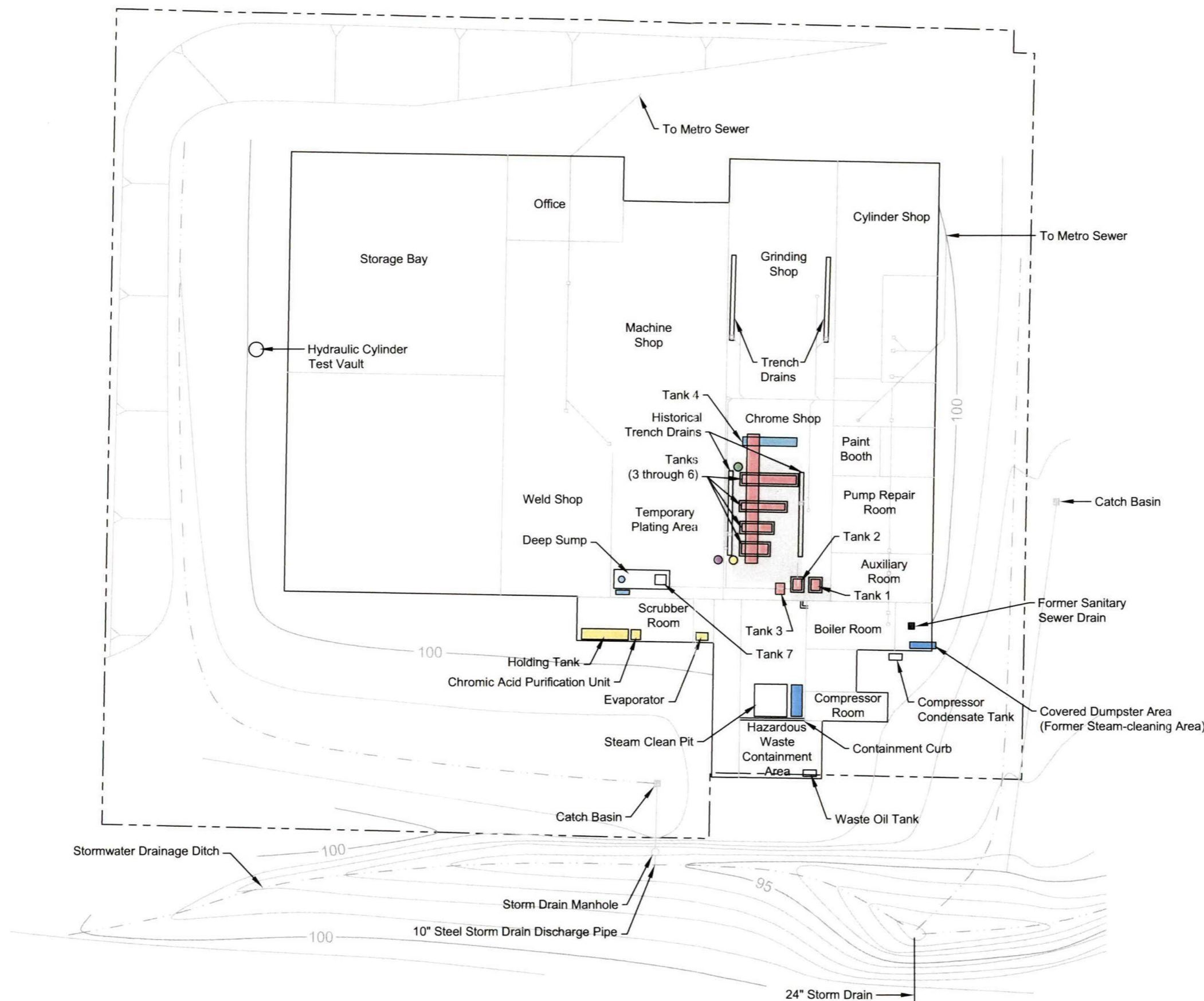
Source: Base map prepared from Microsoft Street & Trips 2000  
 Site Address: 1231 S. Director Street, Seattle, Washington  
 Section: 32 Township: 24N Range: 4E Of Willamette Meridian



File: G:\8006.08 STOEL RIVES-PRECISION EQUIPMENT\04 SUPPLEMENTAL\RI\FIG01 SITE LOCATION2.DWG Last edited: FEB. 22, 2008 @ 10:54 a.m. by: ayoung Xrefs: none black/white

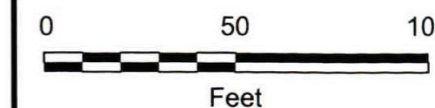
**Figure 2**  
**Former Site Features**

Precision Engineering, Inc.  
Seattle, Washington



**Legend:**

- Property Boundary
- - - Drainage Ditch
- Topographic Contour Interval
- Former Sanitary Sewer Piping
- 1990 and 1992 Excavation Areas (locations are approximate)
- Former Tanks:**
- Chromic Acid Plating Tank
- Other Tanks Containing Chromic Acid
- Sodium Hydroxide Tank
- Sodium Carbonate Tank
- Hydrochloric Acid Tank
- TCE Tank



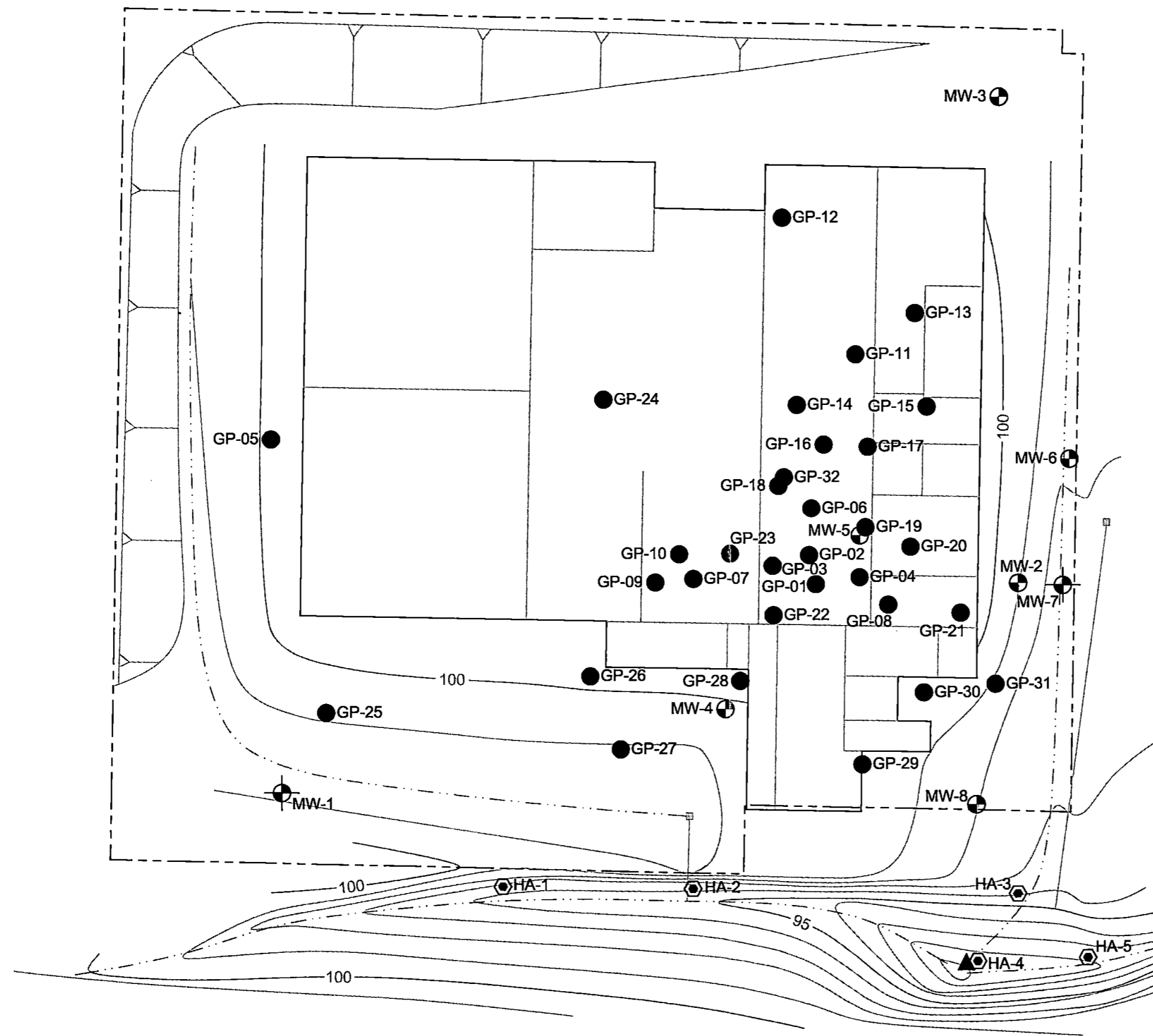
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File: G:\8006.08\STOEL RIVES-PRECISION EQUIPMENT\04- SUPPLEMENTAL\RI\FIG02- SITE FEATURES.DWG Last modified: FEB-22-2006 @ 10:53 a.m. by: ayounig\yrefs\_2006 Site Base 50% Color

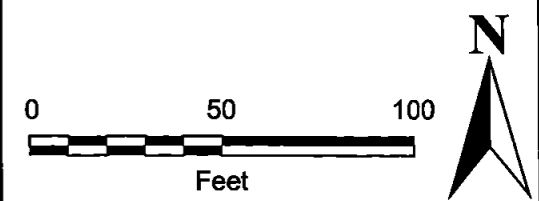
File: G:\8006.08 STOEEL RIVES-PRECISION EQUIPMENT\04 SUPPLEMENTAL RIFIG03 SAMPLE LOCATIONS.DWG Last edited: FEB. 22, 2006 @ 10:53 a.m. by: ayoung Xrefs: 2006 Sample Base, 2006 Site Base, black/white

### Figure 3 Sample Locations

Precision Engineering, Inc.  
Seattle, Washington



- Legend:**
- Property Boundary
  - - - Drainage Ditch
  - Topographic Contour Interval
  - ⊕ Shallow Monitoring Well Location
  - ⊙ Deep Monitoring Well Location
  - ▲ Staff Gauge
  - Geoprobe Boring Location
  - ⬡ Hand Auger Boring Location

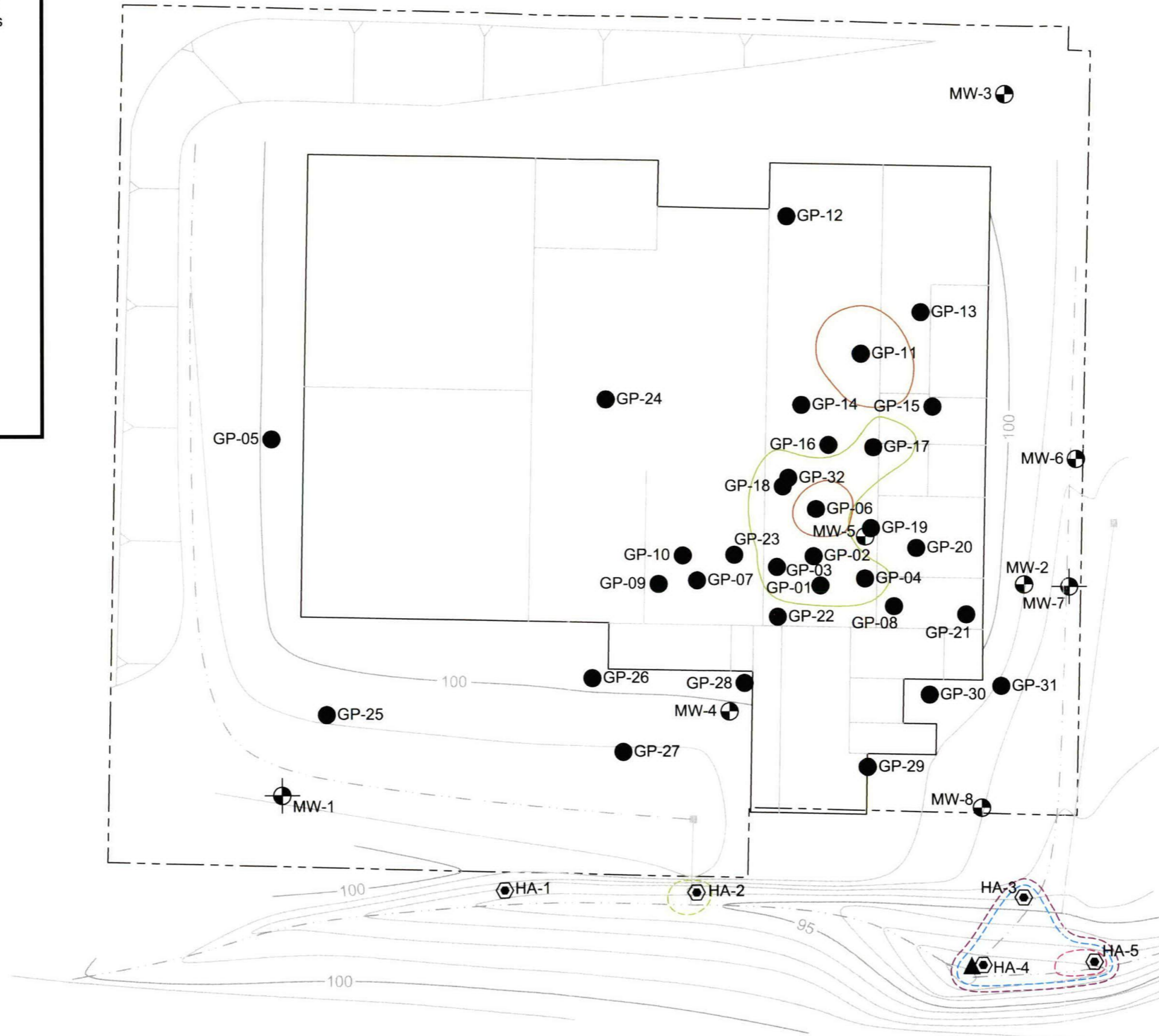


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File: G:\8006\08 STOEEL RVES-PRECISION EQUIPMENT\04. SUPPLEMENTAL RIF\FIG04. SOIL\_CLEANUP\_LEVELS.DWG, Last edited: FEB. 22. 2006 @ 10:53 a.m. by: ayoung Xrefs: 2006 Site Base, 2006 Sample Base, 100% Color

Note:  
Cleanup Level (CUL)  
exceedances shown are of  
MTCA method C soil CULs for  
protection of groundwater or as  
otherwise specified below:

- Hexavalent Chromium Exceedance (CUL = 42.2 mg/kg)
- Trichloroethene Exceedance (CUL = 7.27 ug/kg)
- Arsenic Exceedance (MTCA Method A CUL = 20 mg/kg)
- Cadmium, Copper, or Lead Exceedance (CULs = 4.83, 577, and 300 mg/kg, respectively)
- Chrysene Exceedance (CUL = 0.96 mg/kg)



### Figure 4 Soil Cleanup Level Exceedances

Precision Engineering, Inc.  
Seattle, Washington

- Legend:
- Property Boundary
  - Drainage Ditch
  - Topographic Contour Interval
  - + Shallow Monitoring Well Location
  - + Deep Monitoring Well Location
  - ▲ Staff Gauge
  - Geoprobe Boring Location
  - ⬢ Hand Auger Boring Location

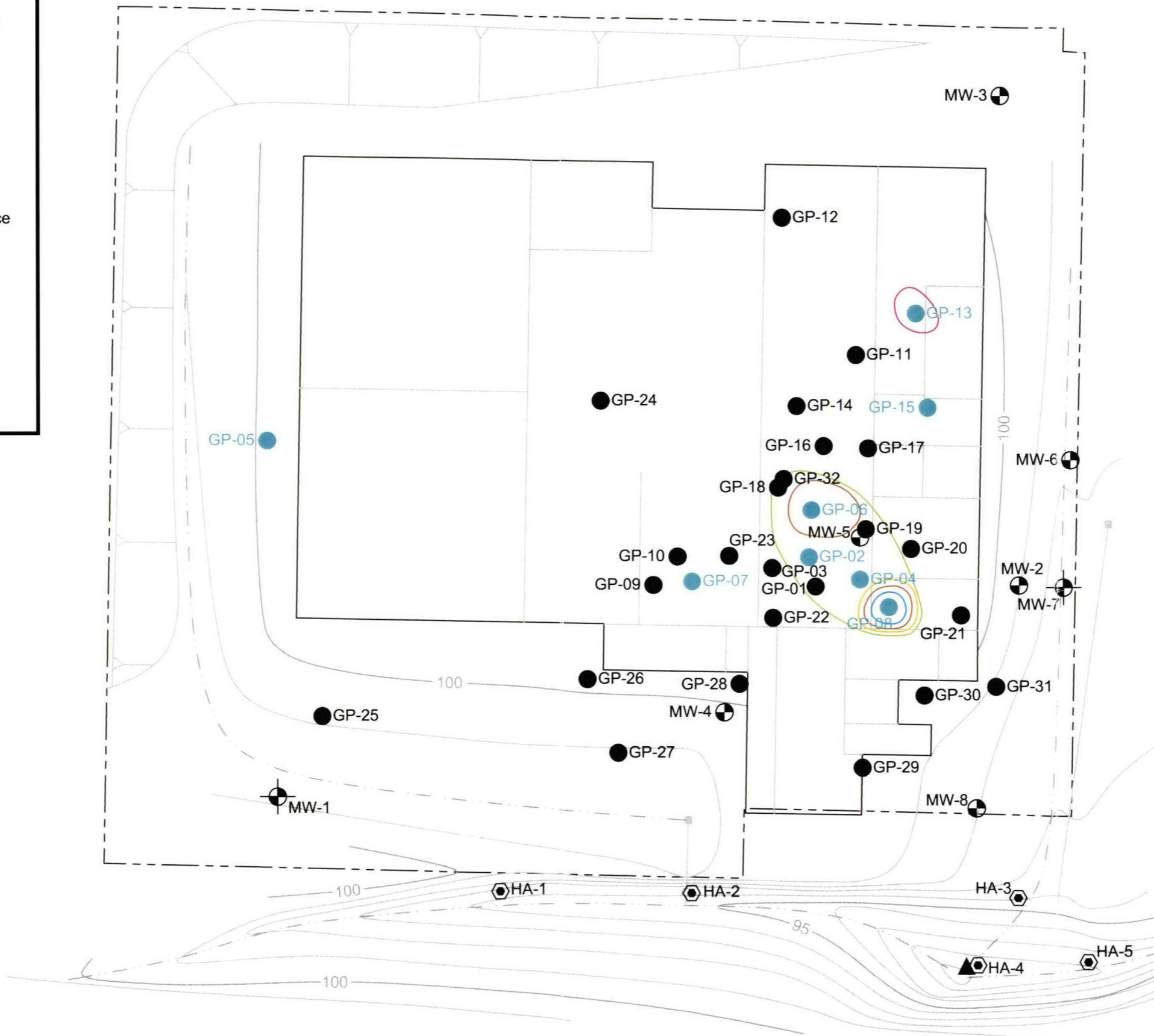
0 50 100  
Feet

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File: G:\8006\08 STOEEL RIVES-PRECISION EQUIPMENT\04 SUPPLEMENTAL RIF\FIG05 RECONNAISSANCE GROUNDWATER.DWG Last edited: FEB 22, 2006 @ 10:52 a.m. by: ayounj Xrefs: 2006 Site Base, 2006 Sample Base, 100% Color

**Note:**  
 Cleanup Level (CUL)  
 exceedances shown are of  
 MTCA method C groundwater  
 CULs or as otherwise specified  
 below:

- Hexavalent Chromium Exceedance (CUL = 0.105 mg/L)
- Trichloroethene Exceedance (CUL = 1.1 ug/L)
- Trivalent Chromium Exceedance (CUL = 52.5 mg/L)
- Diesel-Range Organics Exceedance (MTCA Method A CULs groundwater protection, CUL = 0.5 mg/L)
- Vinyl Chloride Exceedance (CUL = 0.29 ug/L)

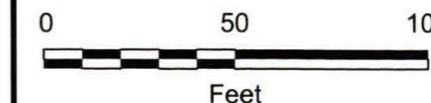


**Figure 5**  
**Reconnaissance Groundwater**  
**Cleanup Level Exceedances**

Precision Engineering, Inc.  
 Seattle, Washington

**Legend:**

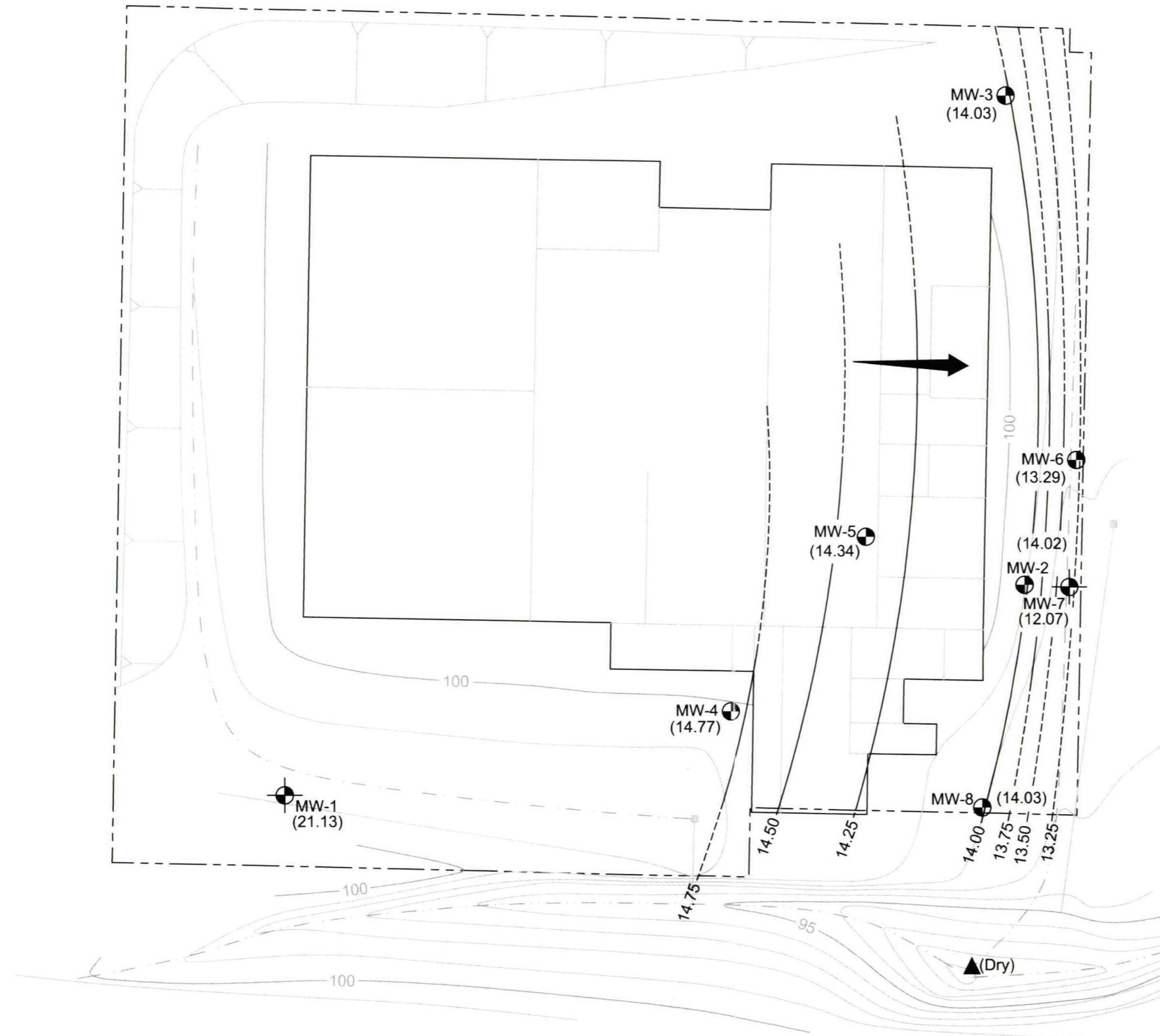
- Property Boundary
- Drainage Ditch
- Topographic Contour Interval
- + Shallow Monitoring Well Location
- + Deep Monitoring Well Location
- ▲ Staff Gauge
- Geoprobe Boring Location
- Reconnaissance Groundwater Sample Location
- ⊕ Hand Auger Boring Location



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File: G:\8006.08 STOEEL RIVES-PRECISION EQUIPMENT\04 SUPPLEMENTAL RIFIG06\_POTENTIOMETRIC SURFACE.DWG Last edited: FEB. 22, 2006 @ 10:53 a.m. by: ayoung Xrefs: 2006 Sample Base, 2006 Site Base, black/white



**Figure 6**  
**Potentiometric Surface**  
**for the Shallow Water-**  
**Bearing Zone**  
 Precision Engineering, Inc.  
 Seattle, Washington

- Legend:**
- Property Boundary
  - ... Drainage Ditch
  - Topographic Contour Interval
  - ⊕ Shallow Monitoring Well Location
  - ⊙ Deep Monitoring Well Location
  - ▲ Staff Gauge
  - Groundwater Contour (0.25-Foot Interval)
  - - - Inferred Groundwater Contour
  - ➔ Flow Direction
  - (13.29) Water Level Elevation (in Feet NGVD 1929)
  - (Dry) No Measurable Water

**Notes:**  
 MW-1 & MW-7 monitoring well water level elevations are shown but are not used to create the potentiometric surface. They are screened in the deeper advanced outwash aquifer (confined sand and gravel water-bearing zone).

0 50 100  
 Feet

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**TABLES**

**Table 1**  
**Soil Sampling and Analyses**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Boring	Sample Name	Sample Depth (feet bgs)	Analytical Methods									
			Cr & Cr <sup>6</sup>	PP Metals	VOCs	VOC (limited)	HCID	NWTPH-Dx	NWTPH-Gx	PAHs	Eh/pH	EPH
<b>June 2005 Sampling (on-site samples)</b>												
GP1	GP1-S-1.5	1.5	X		X		X					
	GP1-S-6.0	6	X		X		X					
	GP1-S-10.0	10	X		X		X					
GP2	GP2-S-1.0	1	X		X		X					
	GP2-S-10.0	10	X		X		X					
GP3	GP3-S-2.0	2	X		X		X					
	GP3-S-6.0	6	X		X		X					
	GP3-S-14	14	X		X		X					
GP4	GP4-S-1.5	1.5	X		X		X					
GP5	GP5-S-1.5	1.5	X		X		X					
	GP5-S-8.0	8			X							
	GP5-S-14.0	14	X		X		X					
GP6	GP6-S-1.0	1	X		X		X					
	GP6-S-8.0	8										
	GP6-S-14.5	14.5	X		X		X					
GP7	GP7-S-2.0	2	X		X		X					
	GP7-S-8.0	8	X		X		X					
GP8	GP8-S-1.5	1.5	X		X		X					
GP9	GP9-S-2.0	2	X		X		X					
GP10	GP10-S-1.5	1.5	X		X		X					
	GP10-S-7.0	7										
	GP10-S-13.5	13.5	X		X		X					
GP11	GP11-S-2.0	2	X		X		X					
	GP11-S-6.5	6.5	X		X		X					
<b>December 2005 Sampling (on-site samples)</b>												
GP-12	GP12-S-3.0	3	X	X		X		X				
	GP12-S-5.0	5	X			X						
GP-13	GP13-S-10	1	X	X		X					X	
	GP13-S-6.0	6	X			X		X				
GP-14	GP14-S-3.0	3	X	X		X						
	GP14-6-6.0	6	X			X		X				
GP-15	GP15-S-3.0	3	X	X		X		X				
	GP15-S-6.0	6	X			X						
GP-16	GP16-S-1.0	1	X			X					X	
	GP16-S-5.0	5	X			X		X				

**Table 1**  
**Soil Sampling and Analyses**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Boring	Sample Name	Sample Depth (feet bgs)	Analytical Methods									
			Cr & Cr <sup>6</sup>	PP Metals	VOCs	VOC (limited)	HCID	NWTPH-Dx	NWTPH-Gx	PAHs	Eh/pH	EPH
<b>December 2005 Sampling (on-site samples)</b>												
GP-17	GP17-S-1.0	1	X			X		X				
	GP17-S-6.0	6	X			X					X	
GP-18	GP18-S-1.0	1	X	X		X		X			X	X
	GP19-S-1.0	1	X			X		X			X	
GP-19	GPDUP-S-1.0	1	X			X		X				
	GP19-S-7.0	7	X			X		X				
GP-20	GP20-S-1.0	1	X	X		X		X			X	
	GP20-S-6.0	6	X			X		X			X	
GP-21	GP21-S-1.0	1	X			X		X				
	GP21-S-6.5	6.5	X			X		X			X	X
GP-22	GP22-S-1.0	1	X			X						
	GP22-S-5.0	5										
	GP22-S-10.0	10	X			X		X				
GP-23	GP23-S-1.0	1										
	GP23-S-7.0	7	X			X		X				
	GP23-S-10.5	10.5	X			X						
GP-24	GP24-S-3.0	3	X	X		X		X			X	
	GPDUP-S-3.0	3	X	X		X					X	
	GP24-S-6.5	6.5	X			X					X	
	GP24-S-9.0	9										
GP-25	GP25-S-1.0	1	X			X						
	GP25-S-7.0	7	X			X						
GP-26	GP26-S-1.0	1	X			X		X			X	
	GP26-S-7.0	7										
	GP26-S-9.5	9.5	X			X		X				
GP-27	GP27-S-1.0	1	X			X						
	GP27-S-6.5	6.5										
	GP27-S-13.0	13	X			X		X				
GP-28	GP28-S-1.0	1	X	X		X		X				
	GP28-S-7.0	7	X			X		X				
GP-29	GP29-S-1.0	1	X	X		X		X			X	
	GP29-S-6.0	6	X			X		X				

**Table 1  
Soil Sampling and Analyses  
Precision Engineering, Inc.  
Seattle, Washington**

Boring	Sample Name	Sample Depth (feet bgs)	Analytical Methods									
			Cr & Cr <sup>6</sup>	PP Metals	VOCs	VOC (limited)	HCID	NWTPH-Dx	NWTPH-Gx	PAHs	Eh/pH	EPH
<b>December 2005 Sampling (on-site samples)</b>												
GP-30	GP30-S-1.0	1	X			X			X			
	GP30-S-6.0	6	X			X			X		X	
GP-31	GP31-S-1.0	1	X	X		X			X		X	
	GP31-S-6.0	6	X			X			X		X	
GP-32	GP32-S-1.0	1	X			X			X			
<b>December 2005 Sampling (off-site samples)</b>												
HA-1	HA1-0.5	0.5	X	X	X				X	X	X	
	HA-DUP	0.5	X	X	X				X	X	X	
	HA1-1.5	1.5	X	X	X				X	X	X	
HA-2	HA2-0.5	0.5	X	X	X				X	X	X	X
	HA2-1.5	1.5	X	X	X				X	X	X	
HA-3	HA3-0.5	0.5	X	X	X				X	X	X	X
	HA3-1.5	1.5	X	X	X				X	X	X	
HA-4	HA4-0.5	0.5	X	X	X				X	X	X	X
	HA4-1.5	1.5	X	X	X				X	X	X	
HA-5	HA5-0.5	0.5	X	X	X				X	X	X	
	HA5-1.5	1.5	X	X	X				X	X	X	
<p>NOTES:</p> <p>bgs = below ground surface.</p> <p>Cr = chromium.</p> <p>Cr<sup>6</sup> = hexavalent chromium.</p> <p>PP metals = Priority Pollutant metals (including antimony, arsenic, beryllium, cadmium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc).</p> <p>VOCs = volatile organic compounds.</p> <p>(limited) = Limited VOC analyses include cis-1,2-dichloroethene, methyl ethyl ketone (2-butanon), trans-1,2-dichloroethene, trichloroethene, and vinyl chloride.</p> <p>HCID = hydrocarbon identification scan.</p> <p>NWTPH-Dx = Northwest total petroleum hydrocarbon analyses for diesel-range and oil-range organics.</p> <p>NWTPH-Gx = Northwest total petroleum hydrocarbon analyses for gasoline-range organics.</p> <p>PAHs = polycyclic aromatic hydrocarbons.</p> <p>Eh/pH = oxidation/reduction potential and pH.</p> <p>EPH = Extractable petroleum hydrocarbons.</p>												

**Table 2**  
**Groundwater Sampling and Analyses**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Boring	Sample Name	Sample Date	Analytical Methods								
			Cr & Cr <sup>6</sup>	PP Metals	VOCs	VOC (limited)	HCID	NWTPH-Dx	NWTPH-Gx	PAHs	PCBs
<b>Reconnaissance Groundwater Sampling</b>											
GP2	GP2-W-17-RECON	6/9/2005	X	X (Pb only)	X			X		X	
GP4	GP4-W-8.0	6/16/2005	X		X			X	X		X
GP5	GP5-W-18.0	6/16/2005	X		X			X			
GP6	GP6-W-18.0	6/16/2005	X		X			X			
GP7	GP7-W-14.0	6/16/2005	X		X			X			
GP8	GP8-W-10.0	6/16/2005	X		X			X	X	X	X
GP-13	GP13-W-8.0	12/14/2005					X				
GP-15	GP13-W-8.0	12/14/2005					X				
<b>Monitoring-Well Sampling</b>											
MW-1	MW1-W-35.0	6/16/2005	X		X						
	MW1-1227/05	12/27/2005	X	X			X		X		X
MW-2	MW2-W-0605	6/17/2005	X		X			X	X		X
	MW2-122805	12/28/2005	X	X			X		X		X
MW-3	MW3-0605	6/7/2005	X		X						
	MW3-122905	12/29/2005	X	X			X		X		X
MW-4	MW4-0605	6/9/2005	X		X						
	MW4-0605-DUP	6/9/2005	X		X						
	MW4-122705	12/27/2005	X	X			X		X		X
MW-5	MW5-122805	12/28/2005		X			X		X		X
MW-6	MW6-122905	12/29/2005		X			X		X		X
MW-7	MW7-122805	12/28/2005		X			X		X		X
MW-8	MW8-122805	12/28/2005		X			X		X		X
	MWDUP-122805	12/28/2005		X			X		X		X
<p>NOTES:</p> <p>bgs = below ground surface.</p> <p>Cr = chromium.</p> <p>Cr<sup>6</sup> = hexavalent chromium.</p> <p>PP metals = Priority Pollutant metals (including antimony, arsenic, beryllium, cadmium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc).</p> <p>Pb only = Only lead was analyzed.</p> <p>VOCs = volatile organic compounds.</p> <p>(limited) = Limited VOC analyses include cis-1,2-dichloroethene, methyl ethyl ketone (2-butanon), trans-1,2-dichloroethene, trichloroethene, and vinyl chloride.</p> <p>HCID = hydrocarbon identification scan.</p> <p>NWTPH-Dx = Northwest total petroleum hydrocarbon analyses for diesel-range and oil-range organics.</p> <p>NWTPH-Gx = Northwest total petroleum hydrocarbon analyses for gasoline-range organics.</p> <p>PAHs = polycyclic aromatic hydrocarbons.</p> <p>PCBs = polychlorinated biphenyls.</p>											

**Table 3**  
**Water Level Elevations**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Date	Measuring Point Elevation (ft NGVD)	Depth to Water (ft bgs)	Water Level Elevation (ft NGVD)
MW-1	12/27/2005	23.16	2.03	21.13
MW-2	12/27/2005	18.86	4.82	14.04
MW-3	12/27/2005	19.51	5.48	14.03
MW-4	12/27/2005	20.54	5.77	14.77
MW-5	12/27/2005	19.86	5.52	14.34
MW-6	12/27/2005	17.99	4.70	13.29
MW-7	12/27/2005	17.84	5.77	12.07
MW-8	12/27/2005	17.35	3.32	14.03
Staff Gauge	12/27/2005	19.61 ft NGVD @ 8.00	Dry	Dry
NOTES: bgs = below ground surface. ft = feet. NGVD = National Geodetic Vertical Datum 1929.				

**Table Notes for Soil and Groundwater Analytical Data**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

When available, MTCA Method C soil and groundwater CULs and applicable AWQC were taken from the Cleanup Levels and Risk Calculations (CLARC) Web page.

The MTCA Method C soil CULs for protection of groundwater were calculated using chemical-specific parameters (see Appendix E of this report). Chemical parameters were obtained from the CLARC Web page when available.

The most stringent human health AWQC from the U.S. Environmental Protection Agency (USEPA) Clean Water Act (CWA; 301) and USEPA National Toxics Rule (NTR; 40 CFR 131) are shown on the tables.

The most stringent chronic, aquatic life, surface water quality criteria from the Washington Administrative Code (WAC) (Chapter 173-201A), USEPA CWA (301), and USEPA NTR (40 CFR 131) are shown on the tables.

AWQC = ambient water quality criteria.

**Bolding** indicates concentrations that exceed one or more of the relevant CULs.

-- = not analyzed.

CUL = cleanup level.

DET = detected using Northwest Total Petroleum Hydrocarbon identification scan.

ft. bgs = feet below ground surface.

J = estimated concentration.

mg/kg = milligrams per kilogram.

mg/L = milligrams per liter.

MTCA = Washington Department of Ecology's Model Toxics Control Act.

µg/kg = micrograms per kilogram.

µg/L = micrograms per liter.

NA = not available.

NC = not calculated.

ND = not detected using Northwest Total Petroleum Hydrocarbon identification scan.

NR = MTCA reported the CUL as not researched.

U = not detected at or above the method reporting limit.

<sup>a</sup>Trivalent chromium concentrations were calculated by subtracting the hexavalent chromium value from the total chromium value. If hexavalent chromium was not detected, then the entire total chromium value was assumed to consist of trivalent chromium.

<sup>b</sup>Cleanup level calculated using MTCA spreadsheets is higher than maximum possible concentration (1,000,000 mg/kg).

<sup>c</sup>Lead cleanup level is MTCA Method A soil CUL based on direct contact and arsenic is MTCA Method A CUL based on direct contact and groundwater protection.

<sup>d</sup>Cleanup level is for total 1,3-dichloropropene.

<sup>e</sup>Cleanup level used for total xylene is lowest groundwater protection CUL of either m-xylene or o-xylene.

<sup>f</sup>Cleanup level is based on applicable state and federal laws.

<sup>g</sup>Cleanup level is for total polychlorinated biphenyls.

<sup>h</sup>Cleanup level is MTCA Method A CUL based on background concentrations for state of Washington.



**Table 4**  
**Chromium in Soil (mg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Chromium	Chromium (Hexavalent)	Chromium (Trivalent) <sup>a</sup>
MTCA Method C CULs for Ingestion Only				NR	11,000	5,300,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				NR	42.2	1,060,000 <sup>b</sup>
<b>On-Site Geoprobe Sampling</b>						
GP1	GP1-S-1.5	6/7/2005	1.5	205	152	53
	GP1-S-6.0	6/7/2005	6	147	31.8	115.2
	GP1-S-10.0	6/9/2005	10	73.5	14.4	59.1
GP2	GP2-S-1.0	6/7/2005	1	2680	523	2157
	GP2-S-10.0	6/9/2005	10	24.9	0.109 U	24.9
GP3	GP3-S-2.0	6/9/2005	2	915	27.7	887.3
	GP3-S-6.0	6/9/2005	6	1100	49.8	1050.2
	GP3-S-14	6/9/2005	14	941	34.4	906.6
GP4	GP4-S-1.5	6/16/2005	1.5	1230	53.4	1176.6
GP5	GP5-S-1.5	6/16/2005	1.5	18.9	0.111 U	18.9
	GP5-S-14.0	6/16/2005	14	20.1	0.115 U	20.1
GP6	GP6-S-1.0	6/16/2005	1	584	627	NC
	GP6-S-14.5	6/16/2005	14.5	259	0.181	258.819
GP7	GP7-S-2.0	6/16/2005	2	23.6	0.119	23.481
	GP7-S-8.0	6/16/2005	8	21	0.113 U	21
GP8	GP8-S-1.5	6/16/2005	1.5	22.2	0.661	21.539
GP9	GP9-S-2.0	6/17/2005	2	43.3	2.97	40.33
GP10	GP10-S-1.5	6/17/2005	1.5	21.8	0.142	21.658
	GP10-S-13.5	6/17/2005	13.5	24.1	0.106 U	24.1
GP11	GP11-S-2.0	6/17/2005	2	21.7	0.573	21.127
	GP11-S-6.5	6/17/2005	6.5	17.3	0.37	16.93
GP12	GP12-S-3.0	12/13/2005	3	24.3	1.1 UJ	24.3
	GP12-S-5.0	12/13/2005	5	25.2	1.0 UJ	25.2
GP13	GP13-S-1.0	12/14/2005	1	26.6	1.4 UJ	26.6
	GP13-S-6.0	12/14/2005	6	46.6	1.3 UJ	46.6
GP14	GP14-S-3.0	12/13/2005	3	24.8	2.0 UJ	24.8
	GP14-S-6.0	12/13/2005	6	31.4	1.2 J	30.2
GP15	GP15-S-3.0	12/13/2005	3	24.7	1.2 UJ	24.7
	GP15-S-6.0	12/13/2005	6	20.2	1.2 UJ	20.2
GP16	GP16-S-1.0	12/13/2005	1	30.0	2.1 UJ	30.0
	GP16-S-5.0	12/13/2005	5	26.2	2.1 UJ	26.2
<b>On-Site Geoprobe Sampling</b>						
GP17	GP17-S-1.0	12/13/2005	1	254	1.7 UJ	254
	GP17-S-6.0	12/13/2005	6	1660	60 J	1600
GP18	GP18-S-1.0	12/13/2005	1	4430	2300 J	2130
GP19	GP19-S-1.0	12/13/2005	1	22.0	2.5 UJ	22.0
	GP19-S-1.0-Dup	12/13/2005	1	24.8	2.0 UJ	24.8
	GP19-S-7.0	12/13/2005	7	27.1	2.7 UJ	27.1
GP20	GP20-S-1.0	12/14/2005	1	17.6	1.1 UJ	17.6
	GP20-S-6.0	12/14/2005	6	24.5	1.5 UJ	24.5
GP21	GP21-S-1.0	12/14/2005	1	25.6	1.0 UJ	25.6
	GP21-S-6.5	12/14/2005	6.5	23.0	1.3 UJ	23.0
GP22	GP22-S-1.0	12/13/2005	1	46.8	2.9 J	43.9
	GP22-S-10.0	12/13/2005	10	32.1	1.3 UJ	32.1
GP23	GP23-S-7.0	12/14/2005	7	23.3	1.1 UJ	23.3
	GP23-S-10.5	12/14/2005	10.5	979	1.2 UJ	979
GP24	GP24-S-3.0	12/14/2005	3	30.2	1.0 UJ	30.2
	GP24-S-3.0-Dup	12/14/2005	3	26.2	1.1 UJ	26.2
	GP24-S-6.5	12/14/2005	6.5	29.3	2.4 UJ	29.3
GP25	GP25-S-1.0	12/12/2005	1	19.3	1.8 UJ	19.3

**Table 4**  
**Chromium in Soil (mg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Chromium	Chromium (Hexavalent)	Chromium (Trivalent) <sup>a</sup>
MTCA Method C CULs for Ingestion Only				NR	11,000	5,300,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				NR	42.2	1,060,000 <sup>b</sup>
	GP25-S-7.0	12/12/2005	7	19.8	1.7 UJ	19.8
GP26	GP26-S-1.0	12/12/2005	1	23.7	2.2 UJ	23.7
	GP26-S-9.5	12/12/2005	9.5	24.0	2.1 UJ	24.0
GP27	GP27-S-1.0	12/12/2005	1	22.0	2.2 UJ	22.0
	GP27-S-13.0	12/12/2005	13	18.6	2.1 UJ	18.6
GP28	GP28-S-1.0	12/12/2005	1	20.5	2.2 UJ	20.5
	GP28-S-7.0	12/12/2005	7	22.4	1.8 UJ	22.4
GP29	GP29-S-1.0	12/12/2005	1	29.6	2.4 UJ	29.6
	GP29-S-6.0	12/12/2005	6	31.9	2.6 UJ	31.9
GP30	GP30-S-1.0	12/12/2005	1	27.2	2.1 UJ	27.2
	GP30-S-6.0	12/12/2005	6	32.7	2.4 UJ	32.7
GP31	GP31-S-1.0	12/12/2005	1	19.2	2.1 UJ	19.2
	GP31-S-6.0	12/12/2005	6	23.6	3.0 UJ	23.6
GP32	GP32-S-1.0	12/14/2005	1	6750	3500 J	3250
<b>Off-Site Hand Auger Sampling</b>						
HA1	HA1-0.5	12/15/2005	0.5	34.3	2.9 UJ	34.3
	HA1-1.5	12/15/2005	1.5	110	6.5 J	103.5
	HA1-1.5-Dup	12/15/2005	1.5	84.5	2.8 UJ	84.5
HA2	HA2-0.5	12/15/2005	0.5	206	89 J	117
	HA2-1.5	12/15/2005	1.5	215	3.2 J	211.8
HA3	HA3-0.5	12/15/2005	0.5	1590	2.6 UJ	1590
	HA3-1.5	12/15/2005	1.5	55.2	2.4 UJ	55.2
HA4	HA4-0.5	12/15/2005	0.5	8480	7.2 UJ	8480
	HA4-1.5	12/15/2005	1.5	280	3.0 UJ	280
HA5	HA5-0.5	12/15/2005	0.5	155	5.8 UJ	155
	HA5-1.5	12/15/2005	1.5	32.7	2.9 UJ	32.7

**Table 5  
Metals in Soil (mg/kg)  
Precision Engineering, Inc.  
Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Antimony	Arsenic	Beryllium	Cadmium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
MTCA Method C CULs for Ingestion Only				1,400	20 <sup>c</sup>	7,000	3,500	130,000	1000 <sup>c</sup>	1,100	70,000	18,000	18,000	250	1,100,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				12.7	20 <sup>c</sup>	1,110	4.83	577	300	11.5	913	18.7	30.6	3.56	13,700
<b>On-Site Geoprobe Sampling</b>															
GP12	GP12-S-3.0	12/13/2005	3	1.77 U	2.79	0.591 U	0.591 U	17.6	2.45	0.131 U	25.6	0.591 U	0.591 U	0.591 U	32.9
GP13	GP13-S-1.0	12/14/2005	1	1.78 U	9.45	0.593 U	1.29	29.0	21.1	0.168 U	21.8	0.593 U	0.593 U	0.593 U	84.9
GP14	GP14-S-3.0	12/13/2005	3	1.83 U	3.00	0.609 U	0.609 U	14.4	2.20	0.120 U	32.9	0.609 U	0.609 U	0.609 U	38.4
GP15	GP15-S-3.0	12/13/2005	3	1.59 U	7.76	0.529 U	0.714	30.4	18.7	0.154 U	16.4	0.529 U	0.529 U	0.529 U	71.6
GP18	GP18-S-1.0	12/13/2005	1	1.84 U	3.55	0.615 U	0.615 U	113	26.3	1.10	23.1	0.615 U	0.615 U	0.615 U	40.9
GP20	GP20-S-1.0	12/14/2005	1	1.78 U	5.47	0.592 U	0.592 U	29.4	10.1	0.152 U	13.0	0.592 U	0.592 U	0.592 U	49.3
GP24	GP24-S-3.0	12/14/2005	3	1.63 U	3.06	0.542 U	0.542 U	16.5	3.09	0.115 U	28.5	0.542 U	0.542 U	0.542 U	44.3
	GP24-S-3.0-Dup	12/14/2005	3	1.60 U	3.64	0.532 U	0.532 U	14.3	3.33	0.107 U	25.3	0.532 U	0.532 U	0.532 U	50.4
GP28	GP28-S-1.0	12/12/2005	1	1.63 U	1.89	0.542 U	0.542 U	12.6	1.54	0.144 U	22.5	0.542 U	0.542 U	0.542 U	24.9
GP29	GP29-S-1.0	12/12/2005	1	1.73 U	5.91	0.577 U	0.577 U	15.6	18.0	0.876	27.0	0.577 U	0.577 U	0.577 U	36.9
GP31	GP31-S-1.0	12/12/2005	1	1.65 U	5.72	0.549 U	0.549 U	40.2	14.2	0.131 U	14.4	0.549 U	0.549 U	0.549 U	46.1
<b>Off-Site Hand Auger Sampling</b>															
HA1	HA1-0.5	12/15/2005	0.5	1.73 U	3.81	0.576 U	0.576 U	32.8	34.6	0.132 U	21.3	0.576 U	0.576 U	0.576 U	140
	HA1-1.5	12/15/2005	1.5	1.65 U	2.88 J	0.550 U	0.550 U	16.2 J	15.3 J	0.328	24.7 J	0.550 U	0.550 U	0.550 U	70.8 J
	HA1-1.5-Dup	12/15/2005	1.5	2.12 U	8.35 J	0.707 U	0.707 U	68.4 J	95.3 J	0.364 U	108 J	0.707 U	0.707 U	0.707 U	293 J
HA2	HA2-0.5	12/15/2005	0.5	2.17 U	3.94	0.723 U	0.984	70.9	81.4	0.142 U	36.0	0.723 U	0.723 U	0.723 U	341
	HA2-1.5	12/15/2005	1.5	1.84 U	2.71	0.613 U	0.613 U	28.2	36.5	0.232	31.0	0.613 U	0.613 U	0.613 U	134
HA3	HA3-0.5	12/15/2005	0.5	1.94 U	53.9	0.648 U	2.53	528	545	2.65	98.4	0.648 U	0.648 U	0.648 U	433
	HA3-1.5	12/15/2005	1.5	1.76 U	6.96	0.585 U	0.585 U	16.4	8.41	0.109 U	30.8	0.585 U	0.585 U	0.585 U	46.2
HA4	HA4-0.5	12/15/2005	0.5	6.68	44.3	1.63 U	28.7	978	1710	2.28	99.7	1.63 U	1.63 U	1.63 U	2620
	HA4-1.5	12/15/2005	1.5	2.46 U	5.25	0.819 U	0.819 U	48.8	50.8	0.580 U	21.9	0.819 U	0.819 U	0.819 U	86.3
HA5	HA5-0.5	12/15/2005	0.5	3.56 U	35.9	1.19 U	3.13	129	1440	0.918	41.6	1.19 U	1.19 U	1.19 U	358
	HA5-1.5	12/15/2005	1.5	2.11 U	12.5	0.703 U	1.09	39.6	209	0.488 U	22.2	0.703 U	0.703 U	0.703 U	110

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,1,1,2-Tetra-chloroethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetra-chloroethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,1-Dichloro-propene
MTCA Method C CULs for Ingestion Only				5,000,000	3,200,000,000 <sup>b</sup>	660,000	2,300,000	350,000,000	180,000,000	NA
MTCA Method C CULs for Groundwater Protection				100	128,000	12.3	42.8	9830	6,340	NC
<b>On-Site Geoprobe Sampling</b>										
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U
	GP1-S-6.0	6/7/2005	6	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
	GP1-S-10.0	6/9/2005	10	38.2 U	7.65 U	7.65 U	38.2 U	38.2 U	7.65 U	38.2 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
	GP2-S-10.0	6/9/2005	10	44 U	8.81 U	8.81 U	44 U	44 U	8.81 U	44 U
GP3	GP3-S-2.0	6/9/2005	2	79.5 U	15.9 U	15.9 U	79.5 U	79.5 U	15.9 U	79.5 U
	GP3-S-6.0	6/9/2005	6	44.8 U	8.96 U	8.96 U	44.8 U	44.8 U	8.96 U	44.8 U
	GP3-S-14	6/9/2005	14	38.5 U	7.71 U	7.71 U	38.5 U	38.5 U	7.71 U	38.5 U
GP4	GP4-S-1.5	6/16/2005	1.5	51.7 U	10.3 U	10.3 U	51.7 U	51.7 U	10.3 U	51.7 U
GP5	GP5-S-1.5	6/16/2005	1.5	35.6 U	7.12 U	7.12 U	35.6 U	35.6 U	7.12 U	35.6 U
	GP5-S-8.0	6/16/2005	8	35.1 U	7.03 U	7.03 U	35.1 U	35.1 U	7.03 U	35.1 U
	GP5-S-14.0	6/16/2005	14	40.5 U	8.1 U	8.1 U	40.5 U	40.5 U	8.1 U	40.5 U
GP6	GP6-S-1.0	6/16/2005	1	42.5 U	8.5 U	8.5 U	42.5 U	42.5 U	8.5 U	42.5 U
	GP6-S-14.5	6/16/2005	14.5	41.4 U	8.28 U	8.28 U	41.4 U	41.4 U	8.28 U	41.4 U
GP7	GP7-S-2.0	6/16/2005	2	39 U	7.81 U	7.81 U	39 U	39 U	7.81 U	39 U
	GP7-S-8.0	6/16/2005	8	44.2 U	8.84 U	8.84 U	44.2 U	44.2 U	8.84 U	44.2 U
GP8	GP8-S-1.5	6/16/2005	1.5	49.3 U	9.86 U	9.86 U	49.3 U	49.3 U	9.86 U	49.3 U
GP9	GP9-S-2.0	6/17/2005	2	37.1 U	7.42 U	7.42 U	37.1 U	37.1 U	7.42 U	37.1 U
GP10	GP10-S-1.5	6/17/2005	1.5	55.8 U	11.2 U	11.2 U	55.8 U	55.8 U	23.7	55.8 U
	GP10-S-13.5	6/17/2005	13.5	39.8 U	7.96 U	7.96 U	39.8 U	39.8 U	7.96 U	39.8 U
GP11	GP11-S-2.0	6/17/2005	2	41.9 U	8.37 U	8.37 U	41.9 U	41.9 U	8.37 U	41.9 U
	GP11-S-6.5	6/17/2005	6.5	43 U	8.61 U	8.61 U	43 U	43 U	8.61 U	43 U
GP12	GP12-S-3.0	12/13/2005	3	--	--	--	--	--	--	--
	GP12-S-5.0	12/13/2005	5	--	--	--	--	--	--	--
GP13	GP13-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
	GP13-S-6.0	12/14/2005	6	--	--	--	--	--	--	--
GP14	GP14-S-3.0	12/13/2005	3	--	--	--	--	--	--	--
	GP14-S-6.0	12/13/2005	6	--	--	--	--	--	--	--
GP15	GP15-S-3.0	12/13/2005	3	--	--	--	--	--	--	--
	GP15-S-6.0	12/13/2005	6	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,1,1,2-Tetra-chloroethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetra-chloroethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,1-Dichloro-propene
MTC A Method C CULs for Ingestion Only				5,000,000	3,200,000,000 <sup>b</sup>	660,000	2,300,000	350,000,000	180,000,000	NA
MTC A Method C CULs for Groundwater Protection				100	128,000	12.3	42.8	9830	6,340	NC
<b>On-Site Geoprobe Sampling</b>										
GP16	GP16-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP16-S-5.0	12/13/2005	5	--	--	--	--	--	--	--
GP17	GP17-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP17-S-6.0	12/13/2005	6	--	--	--	--	--	--	--
GP18	GP18-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
GP19	GP19-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP19-S-1.0-Dup	12/13/2005	1	--	--	--	--	--	--	--
	GP19-S-7.0	12/13/2005	7	--	--	--	--	--	--	--
GP20	GP20-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
	GP20-S-6.0	12/14/2005	6	--	--	--	--	--	--	--
GP21	GP21-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
	GP21-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--
GP22	GP22-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP22-S-10.0	12/13/2005	10	--	--	--	--	--	--	--
GP23	GP23-S-7.0	12/14/2005	7	--	--	--	--	--	--	--
	GP23-S-10.5	12/14/2005	10.5	--	--	--	--	--	--	--
GP24	GP24-S-3.0	12/14/2005	3	--	--	--	--	--	--	--
	GP24-S-3.0-Dup	12/14/2005	3	--	--	--	--	--	--	--
	GP24-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--
GP25	GP25-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP25-S-7.0	12/12/2005	7	--	--	--	--	--	--	--
GP26	GP26-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP26-S-9.5	12/12/2005	9.5	--	--	--	--	--	--	--
GP27	GP27-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP27-S-13.0	12/12/2005	13	--	--	--	--	--	--	--
GP28	GP28-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP28-S-7.0	12/12/2005	7	--	--	--	--	--	--	--
GP29	GP29-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP29-S-6.0	12/12/2005	6	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,1,1,2-Tetra-chloroethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetra-chloroethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,1-Dichloro-propene
MTCA Method C CULs for Ingestion Only				5,000,000	3,200,000,000 <sup>b</sup>	660,000	2,300,000	350,000,000	180,000,000	NA
MTCA Method C CULs for Groundwater Protection				100	128,000	12.3	42.8	9830	6,340	NC
<b>On-Site Geoprobe Sampling</b>										
GP30	GP30-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP30-S-6.0	12/12/2005	6	--	--	--	--	--	--	--
GP31	GP31-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP31-S-6.0	12/12/2005	6	--	--	--	--	--	--	--
GP32	GP32-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
<b>Off-Site Hand Auger Sampling</b>										
HA1	HA1-0.5	12/15/2005	0.5	5.73 U	2.87 U	5.73 U	1.43 U	2.29 U	3.44 U	5.73 U
	HA1-1.5	12/15/2005	1.5	6.91 U	3.46 U	6.91 U	1.73 U	2.77 U	4.15 U	6.91 U
	HA1-1.5-Dup	12/15/2005	1.5	26.4 U	13.2 U	26.4 U	6.60 U	10.6 U	15.8 U	26.4 U
HA2	HA2-0.5	12/15/2005	0.5	7.30 U	3.65 U	7.30 U	1.83 U	2.92 U	4.38 U	7.30 U
	HA2-1.5	12/15/2005	1.5	4.61 U	2.30 U	4.61 U	1.15 U	1.84 U	2.77 U	4.61 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U
	HA3-1.5	12/15/2005	1.5	5.02 U	2.51 U	5.02 U	1.26 U	2.01 U	3.01 U	5.02 U
HA4	HA4-0.5	12/15/2005	0.5	73.9 U	37.0 U	73.9 U	18.5 U	29.6 U	44.4 U	73.9 U
	HA4-1.5	12/15/2005	1.5	6.12 U	3.06 U	6.12 U	1.53 U	2.45 U	3.67 U	6.12 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	169 U	169 U	169 U	169 U	169 U	169 U
	HA5-1.5	12/15/2005	1.5	7.49 U	3.74 U	7.49 U	1.87 U	2.99 U	4.49 U	7.49 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Tri-chlorobenzene	1,2,4-Tri-methylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromo-ethane	1,2-Dichloro-benzene
MTCA Method C CULs for Ingestion Only				NA	19,000	35,000,000	NR	94,000	1,500	320,000,000
MTCA Method C CULs for Groundwater Protection				NC	0.318	6,860	NC	2.05	0.0272	18,800
<b>On-Site Geoprobe Sampling</b>										
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U
	GP1-S-6.0	6/7/2005	6	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
	GP1-S-10.0	6/9/2005	10	38.2 U	7.65 U	38.2 U	38.2 U	38.2 U	1.4 U	38.2 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
	GP2-S-10.0	6/9/2005	10	44 U	8.81 U	44 U	44 U	44 U	1.61 U	44 U
GP3	GP3-S-2.0	6/9/2005	2	79.5 U	15.9 U	79.5 U	79.5 U	79.5 U	2.91 U	79.5 U
	GP3-S-6.0	6/9/2005	6	44.8 U	8.96 U	44.8 U	44.8 U	44.8 U	1.64 U	44.8 U
	GP3-S-14	6/9/2005	14	38.5 U	7.71 U	38.5 U	38.5 U	38.5 U	1.41 U	38.5 U
GP4	GP4-S-1.5	6/16/2005	1.5	51.7 U	10.3 U	51.7 U	51.7 U	51.7 U	1.89 U	51.7 U
GP5	GP5-S-1.5	6/16/2005	1.5	35.6 U	7.12 U	35.6 U	35.6 U	35.6 U	1.3 U	35.6 U
	GP5-S-8.0	6/16/2005	8	35.1 U	7.03 U	35.1 U	35.1 U	35.1 U	1.29 U	35.1 U
	GP5-S-14.0	6/16/2005	14	40.5 U	8.1 U	40.5 U	40.5 U	40.5 U	1.48 U	40.5 U
GP6	GP6-S-1.0	6/16/2005	1	42.5 U	8.5 U	42.5 U	42.5 U	42.5 U	1.56 U	42.5 U
	GP6-S-14.5	6/16/2005	14.5	41.4 U	8.28 U	41.4 U	41.4 U	41.4 U	1.51 U	41.4 U
GP7	GP7-S-2.0	6/16/2005	2	39 U	7.81 U	39 U	39 U	39 U	1.43 U	39 U
	GP7-S-8.0	6/16/2005	8	44.2 U	8.84 U	44.2 U	44.2 U	44.2 U	1.62 U	44.2 U
GP8	GP8-S-1.5	6/16/2005	1.5	49.3 U	9.86 U	49.3 U	49.3 U	49.3 U	1.8 U	49.3 U
GP9	GP9-S-2.0	6/17/2005	2	37.1 U	7.42 U	37.1 U	37.1 U	37.1 U	1.36 U	37.1 U
GP10	GP10-S-1.5	6/17/2005	1.5	55.8 U	11.2 U	55.8 U	55.8 U	55.8 U	2.04 U	55.8 U
	GP10-S-13.5	6/17/2005	13.5	39.8 U	7.96 U	39.8 U	39.8 U	39.8 U	1.46 U	39.8 U
GP11	GP11-S-2.0	6/17/2005	2	41.9 U	8.37 U	41.9 U	41.9 U	41.9 U	1.53 U	41.9 U
	GP11-S-6.5	6/17/2005	6.5	43 U	8.61 U	43 U	43 U	43 U	1.58 U	43 U
GP12	GP12-S-3.0	12/13/2005	3	--	--	--	--	--	--	--
	GP12-S-5.0	12/13/2005	5	--	--	--	--	--	--	--
GP13	GP13-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
	GP13-S-6.0	12/14/2005	6	--	--	--	--	--	--	--
GP14	GP14-S-3.0	12/13/2005	3	--	--	--	--	--	--	--
	GP14-S-6.0	12/13/2005	6	--	--	--	--	--	--	--
GP15	GP15-S-3.0	12/13/2005	3	--	--	--	--	--	--	--
	GP15-S-6.0	12/13/2005	6	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Tri-methylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromo-ethane	1,2-Dichlorobenzene
MTCA Method C CULs for Ingestion Only				NA	19,000	35,000,000	NR	94,000	1,500	320,000,000
MTCA Method C CULs for Groundwater Protection				NC	0.318	6,860	NC	2.05	0.0272	18,800
<b>On-Site Geoprobe Sampling</b>										
GP16	GP16-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP16-S-5.0	12/13/2005	5	--	--	--	--	--	--	--
GP17	GP17-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP17-S-6.0	12/13/2005	6	--	--	--	--	--	--	--
GP18	GP18-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
GP19	GP19-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP19-S-1.0-Dup	12/13/2005	1	--	--	--	--	--	--	--
	GP19-S-7.0	12/13/2005	7	--	--	--	--	--	--	--
GP20	GP20-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
	GP20-S-6.0	12/14/2005	6	--	--	--	--	--	--	--
GP21	GP21-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
	GP21-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--
GP22	GP22-S-1.0	12/13/2005	1	--	--	--	--	--	--	--
	GP22-S-10.0	12/13/2005	10	--	--	--	--	--	--	--
GP23	GP23-S-7.0	12/14/2005	7	--	--	--	--	--	--	--
	GP23-S-10.5	12/14/2005	10.5	--	--	--	--	--	--	--
GP24	GP24-S-3.0	12/14/2005	3	--	--	--	--	--	--	--
	GP24-S-3.0-Dup	12/14/2005	3	--	--	--	--	--	--	--
	GP24-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--
GP25	GP25-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP25-S-7.0	12/12/2005	7	--	--	--	--	--	--	--
GP26	GP26-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP26-S-9.5	12/12/2005	9.5	--	--	--	--	--	--	--
GP27	GP27-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP27-S-13.0	12/12/2005	13	--	--	--	--	--	--	--
GP28	GP28-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP28-S-7.0	12/12/2005	7	--	--	--	--	--	--	--
GP29	GP29-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP29-S-6.0	12/12/2005	6	--	--	--	--	--	--	--



**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene
MTCA Method C CULs for Ingestion Only				NA	19,000	35,000,000	NR	94,000	1,500	320,000,000
MTCA Method C CULs for Groundwater Protection				NC	0.318	6,860	NC	2.05	0.0272	18,800
<b>On-Site Geoprobe Sampling</b>										
GP30	GP30-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP30-S-6.0	12/12/2005	6	--	--	--	--	--	--	--
GP31	GP31-S-1.0	12/12/2005	1	--	--	--	--	--	--	--
	GP31-S-6.0	12/12/2005	6	--	--	--	--	--	--	--
GP32	GP32-S-1.0	12/14/2005	1	--	--	--	--	--	--	--
<b>Off-Site Hand Auger Sampling</b>										
HA1	HA1-0.5	12/15/2005	0.5	5.73 U	5.73 U	5.73 U	5.73 U	11.5 U	5.73 U	5.73 U
	HA1-1.5	12/15/2005	1.5	6.91 U	6.91 U	6.91 U	6.91 U	13.8 U	6.91 U	6.91 U
	HA1-1.5-Dup	12/15/2005	1.5	26.4 U	26.4 U	26.4 U	26.4 U	52.8 U	26.4 U	26.4 U
HA2	HA2-0.5	12/15/2005	0.5	7.30 U	7.30 U	7.30 U	7.30 U	14.6 U	7.30 U	7.30 U
	HA2-1.5	12/15/2005	1.5	4.61 U	4.61 U	4.61 U	4.61 U	9.22 U	4.61 U	4.61 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	93.8 U	93.8 U	93.8 U	469 U	93.8 U	93.8 U
	HA3-1.5	12/15/2005	1.5	5.02 U	5.02 U	5.02 U	5.02 U	10.0 U	5.02 U	5.02 U
HA4	HA4-0.5	12/15/2005	0.5	73.9 U	73.9 U	73.9 U	73.9 U	148 U	73.9 U	73.9 U
	HA4-1.5	12/15/2005	1.5	6.12 U	6.12 U	6.12 U	6.12 U	12.2 U	6.12 U	6.12 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	169 U	169 U	169 U	844 U	169 U	169 U
	HA5-1.5	12/15/2005	1.5	7.49 U	7.49 U	7.49 U	7.49 U	15.0 U	7.49 U	7.49 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone
MTCA Method C CULs for Ingestion Only				1,400,000	1,900,000	NR	NR	NA	5,500,000	NA	2,100,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				23.2	32.9	NC	NC	NC	298	NC	45,000
<b>On-Site Geoprobe Sampling</b>											
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	4.2 U
	GP1-S-6.0	6/7/2005	6	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	5.6 U
	GP1-S-10.0	6/9/2005	10	7.65 U	7.65 U	7.65 U	38.2 U	7.65 U	38.2 U	38.2 U	191 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U
	GP2-S-10.0	6/9/2005	10	8.81 U	8.81 U	8.81 U	44 U	8.81 U	44 U	44 U	220 U
GP3	GP3-S-2.0	6/9/2005	2	15.9 U	15.9 U	15.9 U	79.5 U	15.9 U	79.5 U	79.5 U	397 U
	GP3-S-6.0	6/9/2005	6	8.96 U	8.96 U	8.96 U	44.8 U	8.96 U	44.8 U	44.8 U	224 U
	GP3-S-14	6/9/2005	14	7.71 U	7.71 U	7.71 U	38.5 U	7.71 U	38.5 U	38.5 U	193 U
GP4	GP4-S-1.5	6/16/2005	1.5	10.3 U	10.3 U	10.3 U	51.7 U	10.3 U	51.7 U	51.7 U	259 U
GP5	GP5-S-1.5	6/16/2005	1.5	7.12 U	7.12 U	7.12 U	35.6 U	7.12 U	35.6 U	35.6 U	178 U
	GP5-S-8.0	6/16/2005	8	7.03 U	7.03 U	7.03 U	35.1 U	7.03 U	35.1 U	35.1 U	176 U
	GP5-S-14.0	6/16/2005	14	8.1 U	8.1 U	8.1 U	40.5 U	8.1 U	40.5 U	40.5 U	202 U
GP6	GP6-S-1.0	6/16/2005	1	8.5 U	8.5 U	8.5 U	42.5 U	8.5 U	42.5 U	42.5 U	213 U
	GP6-S-14.5	6/16/2005	14.5	8.28 U	8.28 U	8.28 U	41.4 U	8.28 U	41.4 U	41.4 U	207 U
GP7	GP7-S-2.0	6/16/2005	2	7.81 U	7.81 U	7.81 U	39 U	7.81 U	39 U	39 U	195 U
	GP7-S-8.0	6/16/2005	8	8.84 U	8.84 U	8.84 U	44.2 U	8.84 U	44.2 U	44.2 U	221 U
GP8	GP8-S-1.5	6/16/2005	1.5	9.86 U	9.86 U	9.86 U	49.3 U	9.86 U	49.3 U	49.3 U	246 U
GP9	GP9-S-2.0	6/17/2005	2	7.42 U	7.42 U	7.42 U	37.1 U	7.42 U	37.1 U	37.1 U	185 U
GP10	GP10-S-1.5	6/17/2005	1.5	11.2 U	11.2 U	11.2 U	55.8 U	11.2 U	55.8 U	55.8 U	279 U
	GP10-S-13.5	6/17/2005	13.5	7.96 U	7.96 U	7.96 U	39.8 U	7.96 U	39.8 U	39.8 U	199 U
GP11	GP11-S-2.0	6/17/2005	2	8.37 U	8.37 U	8.37 U	41.9 U	8.37 U	41.9 U	41.9 U	209 U
	GP11-S-6.5	6/17/2005	6.5	8.61 U	8.61 U	8.61 U	43 U	8.61 U	43 U	43 U	215 U
GP12	GP12-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	14.3 U
	GP12-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	13.6 U
GP13	GP13-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	215
	GP13-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	47.6
GP14	GP14-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	14.7 U
	GP14-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	15.7 U
GP15	GP15-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	123
	GP15-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	63.0 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone
MTCA Method C CULs for Ingestion Only				1,400,000	1,900,000	NR	NR	NA	5,500,000	NA	2,100,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				23.2	32.9	NC	NC	NC	298	NC	45,000
<b>On-Site Geoprobe Sampling</b>											
GP16	GP16-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	11.1 U
	GP16-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	12.7 U
GP17	GP17-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	29.5
	GP17-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	22.3
GP18	GP18-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	14.2 U
GP19	GP19-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	60.1
	GP19-S-1.0-Dup	12/13/2005	1	--	--	--	--	--	--	--	37.5
	GP19-S-7.0	12/13/2005	7	--	--	--	--	--	--	--	16.3 U
GP20	GP20-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	21.7
	GP20-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	66.3
GP21	GP21-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	13.1 U
	GP21-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	66.7
GP22	GP22-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	13.6 U
	GP22-S-10.0	12/13/2005	10	--	--	--	--	--	--	--	12.8
GP23	GP23-S-7.0	12/14/2005	7	--	--	--	--	--	--	--	10.8 U
	GP23-S-10.5	12/14/2005	10.5	--	--	--	--	--	--	--	13.6 U
GP24	GP24-S-3.0	12/14/2005	3	--	--	--	--	--	--	--	15.5 U
	GP24-S-3.0-Dup	12/14/2005	3	--	--	--	--	--	--	--	15.0 U
	GP24-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	17.0 U
GP25	GP25-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	12.8 U
	GP25-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	14.8 U
GP26	GP26-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	12.1 U
	GP26-S-9.5	12/12/2005	9.5	--	--	--	--	--	--	--	15.9 U
GP27	GP27-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	13.2 U
	GP27-S-13.0	12/12/2005	13	--	--	--	--	--	--	--	12.3 U
GP28	GP28-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	11.2 U
	GP28-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	13.0 U
GP29	GP29-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	14.8 U
	GP29-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	14.6 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone
MTCA Method C CULs for Ingestion Only				1,400,000	1,900,000	NR	NR	NA	5,500,000	NA	2,100,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				23.2	32.9	NC	NC	NC	298	NC	45,000
<b>On-Site Geoprobe Sampling</b>											
GP30	GP30-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	16.9
	GP30-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	52.6
GP31	GP31-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	12.1 U
	GP31-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	56.8
GP32	GP32-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	14.2 U
<b>Off-Site Hand Auger Sampling</b>											
HA1	HA1-0.5	12/15/2005	0.5	1.43 U	5.73 U	5.73 U	5.73 U	5.73 U	5.73 U	11.5 U	17.2 U
	HA1-1.5	12/15/2005	1.5	1.73 U	6.91 U	6.91 U	6.91 U	6.91 U	6.91 U	13.8 U	20.7 U
	HA1-1.5-Dup	12/15/2005	1.5	6.60 U	26.4 U	26.4 U	26.4 U	26.4 U	26.4 U	52.8 U	79.2 U
HA2	HA2-0.5	12/15/2005	0.5	1.83 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	14.6 U	21.9 U
	HA2-1.5	12/15/2005	1.5	1.15 U	4.61 U	4.61 U	4.61 U	4.61 U	4.61 U	9.22 U	13.8 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	938 U
	HA3-1.5	12/15/2005	1.5	1.26 U	5.02 U	5.02 U	5.02 U	5.02 U	5.02 U	10.0 U	15.1 U
HA4	HA4-0.5	12/15/2005	0.5	18.5 U	73.9 U	73.9 U	73.9 U	73.9 U	73.9 U	148 U	222 U
	HA4-1.5	12/15/2005	1.5	1.53 U	6.12 U	6.12 U	6.12 U	6.12 U	6.12 U	12.2 U	18.4 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	169 U	169 U	169 U	169 U	169 U	169 U	1690 U
	HA5-1.5	12/15/2005	1.5	1.87 U	7.49 U	7.49 U	7.49 U	7.49 U	7.49 U	15.0 U	27.2

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	2-Chloro-toluene	4-Chloro-toluene	4-Isopropyl-toluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-benzene	Bromodichloro-methane
MTCA Method C CULs for Ingestion Only				70,000,000	NA	350,000,000	280,000,000	350,000,000	2,400,000	NA	2,100,000
MTCA Method C CULs for Groundwater Protection				2,600	NC	NC	9,250	7,230	45.1	NC	37.0
<b>On-Site Geoprobe Sampling</b>											
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	0.839 U	0.839 U	4.2 U	17.6	0.839 U	0.839 U	0.839 U
	GP1-S-6.0	6/7/2005	6	1.12 U	1.12 U	1.12 U	5.6 U	29.1	2.55	1.12 U	1.12 U
	GP1-S-10.0	6/9/2005	10	38.2 U	38.2 U	38.2 U	191 U	191 U	7.65 U	38.2 U	38.2 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	0.96 U	0.96 U	4.8 U	13.4	0.96 U	0.96 U	0.96 U
	GP2-S-10.0	6/9/2005	10	44 U	44 U	44 U	220 U	220 U	8.81 U	44 U	44 U
GP3	GP3-S-2.0	6/9/2005	2	79.5 U	79.5 U	79.5 U	397 U	397 U	15.9 U	79.5 U	79.5 U
	GP3-S-6.0	6/9/2005	6	44.8 U	44.8 U	44.8 U	224 U	224 U	8.96 U	44.8 U	44.8 U
	GP3-S-14	6/9/2005	14	38.5 U	38.5 U	38.5 U	193 U	193 U	7.71 U	38.5 U	38.5 U
GP4	GP4-S-1.5	6/16/2005	1.5	51.7 U	51.7 U	51.7 U	259 U	259 U	10.3 U	51.7 U	51.7 U
GP5	GP5-S-1.5	6/16/2005	1.5	35.6 U	35.6 U	35.6 U	178 U	178 U	7.12 U	35.6 U	35.6 U
	GP5-S-8.0	6/16/2005	8	35.1 U	35.1 U	35.1 U	176 U	176 U	7.03 U	35.1 U	35.1 U
	GP5-S-14.0	6/16/2005	14	40.5 U	40.5 U	40.5 U	202 U	202 U	8.1 U	40.5 U	40.5 U
GP6	GP6-S-1.0	6/16/2005	1	42.5 U	42.5 U	42.5 U	213 U	213 U	8.5 U	42.5 U	42.5 U
	GP6-S-14.5	6/16/2005	14.5	41.4 U	41.4 U	41.4 U	207 U	207 U	8.28 U	41.4 U	41.4 U
GP7	GP7-S-2.0	6/16/2005	2	39 U	39 U	39 U	195 U	195 U	7.81 U	39 U	39 U
	GP7-S-8.0	6/16/2005	8	44.2 U	44.2 U	44.2 U	221 U	221 U	8.84 U	44.2 U	44.2 U
GP8	GP8-S-1.5	6/16/2005	1.5	49.3 U	49.3 U	49.3 U	246 U	246 U	9.86 U	49.3 U	49.3 U
GP9	GP9-S-2.0	6/17/2005	2	37.1 U	37.1 U	37.1 U	185 U	185 U	7.42 U	37.1 U	37.1 U
GP10	GP10-S-1.5	6/17/2005	1.5	55.8 U	55.8 U	55.8 U	279 U	279 U	11.2 U	55.8 U	55.8 U
	GP10-S-13.5	6/17/2005	13.5	39.8 U	39.8 U	39.8 U	199 U	199 U	7.96 U	39.8 U	39.8 U
GP11	GP11-S-2.0	6/17/2005	2	41.9 U	41.9 U	41.9 U	209 U	209 U	8.37 U	41.9 U	41.9 U
	GP11-S-6.5	6/17/2005	6.5	43 U	43 U	43 U	215 U	215 U	8.61 U	43 U	43 U
GP12	GP12-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP12-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	--
GP13	GP13-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP13-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	--
GP14	GP14-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP14-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--
GP15	GP15-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP15-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	2-Chloro-toluene	4-Chloro-toluene	4-Isopropyl-toluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-benzene	Bromodichloro-methane
MTCA Method C CULs for Ingestion Only				70,000,000	NA	350,000,000	280,000,000	350,000,000	2,400,000	NA	2,100,000
MTCA Method C CULs for Groundwater Protection				2,600	NC	NC	9,250	7,230	45.1	NC	37.0
<b>On-Site Geoprobe Sampling</b>											
GP16	GP16-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP16-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	--
GP17	GP17-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP17-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--
GP18	GP18-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
GP19	GP19-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP19-S-1.0-Dup	12/13/2005	1	--	--	--	--	--	--	--	--
	GP19-S-7.0	12/13/2005	7	--	--	--	--	--	--	--	--
GP20	GP20-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP20-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	--
GP21	GP21-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP21-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	--
GP22	GP22-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP22-S-10.0	12/13/2005	10	--	--	--	--	--	--	--	--
GP23	GP23-S-7.0	12/14/2005	7	--	--	--	--	--	--	--	--
	GP23-S-10.5	12/14/2005	10.5	--	--	--	--	--	--	--	--
GP24	GP24-S-3.0	12/14/2005	3	--	--	--	--	--	--	--	--
	GP24-S-3.0-Dup	12/14/2005	3	--	--	--	--	--	--	--	--
	GP24-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	--
GP25	GP25-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP25-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	--
GP26	GP26-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP26-S-9.5	12/12/2005	9.5	--	--	--	--	--	--	--	--
GP27	GP27-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP27-S-13.0	12/12/2005	13	--	--	--	--	--	--	--	--
GP28	GP28-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP28-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	--
GP29	GP29-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP29-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	2-Chloro-toluene	4-Chloro-toluene	4-Isopropyl-toluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-benzene	Bromodichloro-methane
MTCA Method C CULs for Ingestion Only				70,000,000	NA	350,000,000	280,000,000	350,000,000	2,400,000	NA	2,100,000
MTCA Method C CULs for Groundwater Protection				2,600	NC	NC	9,250	7,230	45.1	NC	37.0
<b>On-Site Geoprobe Sampling</b>											
GP30	GP30-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP30-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--
GP31	GP31-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP31-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--
GP32	GP32-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
<b>Off-Site Hand Auger Sampling</b>											
HA1	HA1-0.5	12/15/2005	0.5	5.73 U	5.73 U	5.73 U	22.9 U	34.4 U	1.72 U	5.73 U	5.73 U
	HA1-1.5	12/15/2005	1.5	6.91 U	6.91 U	6.91 U	27.7 U	41.5 U	2.07 U	6.91 U	6.91 U
	HA1-1.5-Dup	12/15/2005	1.5	26.4 U	26.4 U	26.4 U	106 U	158 U	7.92 U	26.4 U	26.4 U
HA2	HA2-0.5	12/15/2005	0.5	7.30 U	7.30 U	7.30 U	29.2 U	43.8 U	2.19 U	7.30 U	7.30 U
	HA2-1.5	12/15/2005	1.5	4.61 U	4.61 U	4.61 U	18.4 U	27.7 U	1.38 U	4.61 U	4.61 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	93.8 U	93.8 U	938 U	938 U	93.8 U	93.8 U	93.8 U
	HA3-1.5	12/15/2005	1.5	5.02 U	5.02 U	5.02 U	20.1 U	30.1 U	1.51 U	5.02 U	5.02 U
HA4	HA4-0.5	12/15/2005	0.5	73.9 U	73.9 U	73.9 U	296 U	444 U	22.2 U	73.9 U	73.9 U
	HA4-1.5	12/15/2005	1.5	6.12 U	6.12 U	6.12 U	24.5 U	36.7 U	1.84 U	6.12 U	6.12 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	169 U	169 U	1690 U	1690 U	169 U	169 U	169 U
	HA5-1.5	12/15/2005	1.5	7.49 U	7.49 U	7.49 U	29.9 U	80.3	2.25 U	7.49 U	7.49 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Bromoform	Bromo-methane	Carbon Tetrachloride	Chloro-benzene	Chlorobromo-methane	Chloro-ethane	Chloroform	Chloro-methane
MTCA Method C CULs for Ingestion Only				17,000,000	4,900,000	1,000,000	70,000,000	NA	NA	22,000,000	10,000,000
MTCA Method C CULs for Groundwater Protection				365	116	31.5	3,030	NC	NC	383	-198
<b>On-Site Geoprobe Sampling</b>											
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U
	GP1-S-6.0	6/7/2005	6	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
	GP1-S-10.0	6/9/2005	10	38.2 U	38.2 U	7.65 U	38.2 U	38.2 U	76.5 U	38.2 U	38.2 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
	GP2-S-10.0	6/9/2005	10	44 U	44 U	8.81 U	44 U	44 U	88.1 U	44 U	44 U
GP3	GP3-S-2.0	6/9/2005	2	79.5 U	79.5 U	15.9 U	79.5 U	79.5 U	159 U	79.5 U	79.5 U
	GP3-S-6.0	6/9/2005	6	44.8 U	44.8 U	8.96 U	44.8 U	44.8 U	89.6 U	44.8 U	44.8 U
	GP3-S-14	6/9/2005	14	38.5 U	38.5 U	7.71 U	38.5 U	38.5 U	77.1 U	38.5 U	38.5 U
GP4	GP4-S-1.5	6/16/2005	1.5	51.7 U	51.7 U	10.3 U	51.7 U	51.7 U	103 U	51.7 U	51.7 U
GP5	GP5-S-1.5	6/16/2005	1.5	35.6 U	35.6 U	7.12 U	35.6 U	35.6 U	71.2 U	35.6 U	35.6 U
	GP5-S-8.0	6/16/2005	8	35.1 U	35.1 U	7.03 U	35.1 U	35.1 U	70.3 U	35.1 U	35.1 U
	GP5-S-14.0	6/16/2005	14	40.5 U	40.5 U	8.1 U	40.5 U	40.5 U	81 U	40.5 U	40.5 U
GP6	GP6-S-1.0	6/16/2005	1	42.5 U	42.5 U	8.5 U	42.5 U	42.5 U	85 U	42.5 U	42.5 U
	GP6-S-14.5	6/16/2005	14.5	41.4 U	41.4 U	8.28 U	41.4 U	41.4 U	82.8 U	41.4 U	41.4 U
GP7	GP7-S-2.0	6/16/2005	2	39 U	39 U	7.81 U	39 U	39 U	78.1 U	39 U	39 U
	GP7-S-8.0	6/16/2005	8	44.2 U	44.2 U	8.84 U	44.2 U	44.2 U	88.4 U	44.2 U	44.2 U
GP8	GP8-S-1.5	6/16/2005	1.5	49.3 U	49.3 U	9.86 U	49.3 U	49.3 U	98.6 U	49.3 U	49.3 U
GP9	GP9-S-2.0	6/17/2005	2	37.1 U	37.1 U	7.42 U	37.1 U	37.1 U	74.2 U	37.1 U	37.1 U
GP10	GP10-S-1.5	6/17/2005	1.5	55.8 U	55.8 U	11.2 U	55.8 U	55.8 U	112 U	55.8 U	55.8 U
	GP10-S-13.5	6/17/2005	13.5	39.8 U	39.8 U	7.96 U	39.8 U	39.8 U	79.6 U	39.8 U	39.8 U
GP11	GP11-S-2.0	6/17/2005	2	41.9 U	41.9 U	8.37 U	41.9 U	41.9 U	83.7 U	41.9 U	41.9 U
	GP11-S-6.5	6/17/2005	6.5	43 U	43 U	8.61 U	43 U	43 U	86.1 U	43 U	43 U
GP12	GP12-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP12-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	--
GP13	GP13-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP13-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	--
GP14	GP14-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP14-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--
GP15	GP15-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP15-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--



**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Bromoform	Bromo-methane	Carbon Tetrachloride	Chloro-benzene	Chlorobromo-methane	Chloro-ethane	Chloroform	Chloro-methane
MTCA Method C CULs for Ingestion Only				17,000,000	4,900,000	1,000,000	70,000,000	NA	NA	22,000,000	10,000,000
MTCA Method C CULs for Groundwater Protection				365	116	31.5	3,030	NC	NC	383	198
<b>On-Site Geoprobe Sampling</b>											
GP16	GP16-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP16-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	--
GP17	GP17-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP17-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--
GP18	GP18-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
GP19	GP19-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP19-S-1.0-Dup	12/13/2005	1	--	--	--	--	--	--	--	--
	GP19-S-7.0	12/13/2005	7	--	--	--	--	--	--	--	--
GP20	GP20-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP20-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	--
GP21	GP21-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP21-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	--
GP22	GP22-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP22-S-10.0	12/13/2005	10	--	--	--	--	--	--	--	--
GP23	GP23-S-7.0	12/14/2005	7	--	--	--	--	--	--	--	--
	GP23-S-10.5	12/14/2005	10.5	--	--	--	--	--	--	--	--
GP24	GP24-S-3.0	12/14/2005	3	--	--	--	--	--	--	--	--
	GP24-S-3.0-Dup	12/14/2005	3	--	--	--	--	--	--	--	--
	GP24-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	--
GP25	GP25-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP25-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	--
GP26	GP26-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP26-S-9.5	12/12/2005	9.5	--	--	--	--	--	--	--	--
GP27	GP27-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP27-S-13.0	12/12/2005	13	--	--	--	--	--	--	--	--
GP28	GP28-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP28-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	--
GP29	GP29-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP29-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Bromoform	Bromo-methane	Carbon Tetrachloride	Chloro-benzene	Chlorobromo-methane	Chloro-ethane	Chloroform	Chloro-methane
MTCA Method C CULs for Ingestion Only				17,000,000	4,900,000	1,000,000	70,000,000	NA	NA	22,000,000	10,000,000
MTCA Method C CULs for Groundwater Protection				365	116	31.5	3,030	NC	NC	383	198
<b>On-Site Geoprobe Sampling</b>											
GP30	GP30-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP30-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--
GP31	GP31-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP31-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--
GP32	GP32-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
<b>Off-Site Hand Auger Sampling</b>											
HA1	HA1-0.5	12/15/2005	0.5	5.73 U	11.5 U	5.73 U	2.29 U	5.73 U	5.73 U	2.87 U	11.5 U
	HA1-1.5	12/15/2005	1.5	6.91 U	13.8 U	6.91 U	2.77 U	6.91 U	6.91 U	3.46 U	13.8 U
	HA1-1.5-Dup	12/15/2005	1.5	26.4 U	52.8 U	26.4 U	10.6 U	26.4 U	26.4 U	13.2 U	52.8 U
HA2	HA2-0.5	12/15/2005	0.5	7.30 U	14.6 U	7.30 U	2.92 U	7.30 U	7.30 U	3.65 U	14.6 U
	HA2-1.5	12/15/2005	1.5	4.61 U	9.22 U	4.61 U	1.84 U	4.61 U	4.61 U	2.30 U	9.22 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	469 U
	HA3-1.5	12/15/2005	1.5	5.02 U	10.0 U	5.02 U	2.01 U	5.02 U	5.02 U	2.51 U	10.0 U
HA4	HA4-0.5	12/15/2005	0.5	73.9 U	148 U	73.9 U	29.6 U	73.9 U	73.9 U	37.0 U	148 U
	HA4-1.5	12/15/2005	1.5	6.12 U	12.2 U	6.12 U	2.45 U	6.12 U	6.12 U	3.06 U	12.2 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	169 U	169 U	169 U	169 U	169 U	169 U	844 U
	HA5-1.5	12/15/2005	1.5	7.49 U	15.0 U	7.49 U	2.99 U	7.49 U	7.49 U	3.74 U	15.0 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
MTCA Method C CULs for Ingestion Only				35,000,000	730,000 <sup>d</sup>	1,600,000	35,000,000	700,000,000	350,000,000	700,000
MTCA Method C CULs for Groundwater Protection				903	13.9 <sup>d</sup>	70.0	822	429	15,400	6,070
<b>On-Site Geoprobe Sampling</b>										
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U
	GP1-S-6.0	6/7/2005	6	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
	GP1-S-10.0	6/9/2005	10	38.2 U	38.2 U	38.2 U	38.2 U	38.2 U	38.2 U	38.2 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
	GP2-S-10.0	6/9/2005	10	44 U	44 U	44 U	44 U	44 U	44 U	44 U
GP3	GP3-S-2.0	6/9/2005	2	79.5 U	79.5 U	79.5 U	79.5 U	79.5 U	79.5 U	79.5 U
	GP3-S-6.0	6/9/2005	6	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U
	GP3-S-14	6/9/2005	14	38.5 U	38.5 U	38.5 U	38.5 U	38.5 U	38.5 U	38.5 U
GP4	GP4-S-1.5	6/16/2005	1.5	51.7 U	51.7 U	51.7 U	51.7 U	51.7 U	51.7 U	51.7 U
GP5	GP5-S-1.5	6/16/2005	1.5	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U
	GP5-S-8.0	6/16/2005	8	35.1 U	35.1 U	35.1 U	35.1 U	35.1 U	35.1 U	35.1 U
	GP5-S-14.0	6/16/2005	14	40.5 U	40.5 U	40.5 U	40.5 U	40.5 U	40.5 U	40.5 U
GP6	GP6-S-1.0	6/16/2005	1	42.5 U	42.5 U	42.5 U	42.5 U	42.5 U	42.5 U	42.5 U
	GP6-S-14.5	6/16/2005	14.5	149	41.4 U	41.4 U	41.4 U	41.4 U	41.4 U	41.4 U
GP7	GP7-S-2.0	6/16/2005	2	39 U	39 U	39 U	39 U	39 U	39 U	39 U
	GP7-S-8.0	6/16/2005	8	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U
GP8	GP8-S-1.5	6/16/2005	1.5	49.3 U	49.3 U	49.3 U	49.3 U	49.3 U	49.3 U	49.3 U
GP9	GP9-S-2.0	6/17/2005	2	37.1 U	37.1 U	37.1 U	37.1 U	37.1 U	37.1 U	37.1 U
GP10	GP10-S-1.5	6/17/2005	1.5	55.8 U	55.8 U	55.8 U	55.8 U	55.8 U	55.8 U	55.8 U
	GP10-S-13.5	6/17/2005	13.5	39.8 U	39.8 U	39.8 U	39.8 U	39.8 U	39.8 U	39.8 U
GP11	GP11-S-2.0	6/17/2005	2	41.9 U	41.9 U	41.9 U	41.9 U	41.9 U	41.9 U	41.9 U
	GP11-S-6.5	6/17/2005	6.5	78.8	43 U	43 U	43 U	43 U	43 U	43 U
GP12	GP12-S-3.0	12/13/2005	3	2.86 U	--	--	--	--	--	--
	GP12-S-5.0	12/13/2005	5	2.73 U	--	--	--	--	--	--
GP13	GP13-S-1.0	12/14/2005	1	11.9 U	--	--	--	--	--	--
	GP13-S-6.0	12/14/2005	6	3.47 U	--	--	--	--	--	--
GP14	GP14-S-3.0	12/13/2005	3	2.93 U	--	--	--	--	--	--
	GP14-S-6.0	12/13/2005	6	3.15 U	--	--	--	--	--	--
GP15	GP15-S-3.0	12/13/2005	3	3.26 U	--	--	--	--	--	--
	GP15-S-6.0	12/13/2005	6	12.6 U	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
MTCA Method C CULs for Ingestion Only				35,000,000	730,000 <sup>d</sup>	1,600,000	35,000,000	700,000,000	350,000,000	700,000
MTCA Method C CULs for Groundwater Protection				903	13.9 <sup>d</sup>	70.0	822	429	15,400	6,070
<b>On-Site Geoprobe Sampling</b>										
GP16	GP16-S-1.0	12/13/2005	1	2.22 U	--	--	--	--	--	--
	GP16-S-5.0	12/13/2005	5	2.55 U	--	--	--	--	--	--
GP17	GP17-S-1.0	12/13/2005	1	2.51 U	--	--	--	--	--	--
	GP17-S-6.0	12/13/2005	6	2.72 U	--	--	--	--	--	--
GP18	GP18-S-1.0	12/13/2005	1	2.83 U	--	--	--	--	--	--
GP19	GP19-S-1.0	12/13/2005	1	3.20 U	--	--	--	--	--	--
	GP19-S-1.0-Dup	12/13/2005	1	2.88 U	--	--	--	--	--	--
	GP19-S-7.0	12/13/2005	7	3.26 U	--	--	--	--	--	--
GP20	GP20-S-1.0	12/14/2005	1	3.15 U	--	--	--	--	--	--
	GP20-S-6.0	12/14/2005	6	5.42 U	--	--	--	--	--	--
GP21	GP21-S-1.0	12/14/2005	1	2.61 U	--	--	--	--	--	--
	GP21-S-6.5	12/14/2005	6.5	3.35 U	--	--	--	--	--	--
GP22	GP22-S-1.0	12/13/2005	1	2.72 U	--	--	--	--	--	--
	GP22-S-10.0	12/13/2005	10	2.27 U	--	--	--	--	--	--
GP23	GP23-S-7.0	12/14/2005	7	2.16 U	--	--	--	--	--	--
	GP23-S-10.5	12/14/2005	10.5	2.72 U	--	--	--	--	--	--
GP24	GP24-S-3.0	12/14/2005	3	3.09 U	--	--	--	--	--	--
	GP24-S-3.0-Dup	12/14/2005	3	3.00 U	--	--	--	--	--	--
	GP24-S-6.5	12/14/2005	6.5	3.40 U	--	--	--	--	--	--
GP25	GP25-S-1.0	12/12/2005	1	2.56 U	--	--	--	--	--	--
	GP25-S-7.0	12/12/2005	7	2.97 U	--	--	--	--	--	--
GP26	GP26-S-1.0	12/12/2005	1	2.41 U	--	--	--	--	--	--
	GP26-S-9.5	12/12/2005	9.5	3.18 U	--	--	--	--	--	--
GP27	GP27-S-1.0	12/12/2005	1	2.63 U	--	--	--	--	--	--
	GP27-S-13.0	12/12/2005	13	2.45 U	--	--	--	--	--	--
GP28	GP28-S-1.0	12/12/2005	1	2.24 U	--	--	--	--	--	--
	GP28-S-7.0	12/12/2005	7	2.61 U	--	--	--	--	--	--
GP29	GP29-S-1.0	12/12/2005	1	4.94	--	--	--	--	--	--
	GP29-S-6.0	12/12/2005	6	9.96	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
MTCA Method C CULs for Ingestion Only				35,000,000	730,000 <sup>d</sup>	1,600,000	35,000,000	700,000,000	350,000,000	700,000
MTCA Method C CULs for Groundwater Protection				903	13.9 <sup>d</sup>	70.0	822	429	15,400	6,070
<b>On-Site Geoprobe Sampling</b>										
GP30	GP30-S-1.0	12/12/2005	1	2.87 U	--	--	--	--	--	--
	GP30-S-6.0	12/12/2005	6	3.99 U	--	--	--	--	--	--
GP31	GP31-S-1.0	12/12/2005	1	2.42 U	--	--	--	--	--	--
	GP31-S-6.0	12/12/2005	6	4.09 U	--	--	--	--	--	--
GP32	GP32-S-1.0	12/14/2005	1	2.84 U	--	--	--	--	--	--
<b>Off-Site Hand Auger Sampling</b>										
HA1	HA1-0.5	12/15/2005	0.5	3.44 U	5.73 U	5.73 U	5.73 U	5.73 U	4.58 U	5.73 U
	HA1-1.5	12/15/2005	1.5	4.15 U	6.91 U	6.91 U	6.91 U	6.91 U	5.53 U	6.91 U
	HA1-1.5-Dup	12/15/2005	1.5	15.8 U	26.4 U	26.4 U	26.4 U	26.4 U	21.1 U	26.4 U
HA2	HA2-0.5	12/15/2005	0.5	4.38 U	7.30 U	7.30 U	7.30 U	7.30 U	5.84 U	7.30 U
	HA2-1.5	12/15/2005	1.5	2.77 U	4.61 U	4.61 U	4.61 U	4.61 U	3.69 U	4.61 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U
	HA3-1.5	12/15/2005	1.5	3.01 U	5.02 U	5.02 U	5.02 U	5.02 U	4.02 U	5.02 U
HA4	HA4-0.5	12/15/2005	0.5	44.4 U	73.9 U	73.9 U	73.9 U	73.9 U	59.1 U	73.9 U
	HA4-1.5	12/15/2005	1.5	3.67 U	6.12 U	6.12 U	6.12 U	6.12 U	4.89 U	6.12 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	169 U	169 U	169 U	169 U	169 U	169 U
	HA5-1.5	12/15/2005	1.5	4.49 U	7.49 U	7.49 U	7.49 U	7.49 U	5.99 U	7.49 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene
MTCA Method C CULs for Ingestion Only				350,000,000	7,000,000,000 <sup>b</sup>	18,000,000	70,000,000	NR	NR	7,000,000,000 <sup>b</sup>	NR
MTCA Method C CULs for Groundwater Protection				16,600	298,000	253	9,810	NC	NC	321,000	NC
<b>On-Site Geoprobe Sampling</b>											
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	1.68 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U
	GP1-S-6.0	6/7/2005	6	1.12 U	2.24 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
	GP1-S-10.0	6/9/2005	10	38.2 U	76.5 U	7.65 U	38.2 U	38.2 U	38.2 U	38.2 U	38.2 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	1.92 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
	GP2-S-10.0	6/9/2005	10	44 U	88.1 U	8.81 U	44 U	44 U	44 U	44 U	44 U
GP3	GP3-S-2.0	6/9/2005	2	79.5 U	159 U	15.9 U	79.5 U	79.5 U	79.5 U	79.5 U	79.5 U
	GP3-S-6.0	6/9/2005	6	44.8 U	89.6 U	8.96 U	44.8 U	44.8 U	44.8 U	44.8 U	44.8 U
	GP3-S-14	6/9/2005	14	38.5 U	77.1 U	7.71 U	38.5 U	38.5 U	38.5 U	38.5 U	38.5 U
GP4	GP4-S-1.5	6/16/2005	1.5	51.7 U	103 U	10.3 U	51.7 U	51.7 U	51.7 U	51.7 U	51.7 U
GP5	GP5-S-1.5	6/16/2005	1.5	35.6 U	71.2 U	7.12 U	35.6 U	35.6 U	35.6 U	35.6 U	35.6 U
	GP5-S-8.0	6/16/2005	8	35.1 U	70.3 U	7.03 U	35.1 U	35.1 U	35.1 U	35.1 U	35.1 U
	GP5-S-14.0	6/16/2005	14	40.5 U	81 U	8.1 U	40.5 U	40.5 U	40.5 U	40.5 U	40.5 U
GP6	GP6-S-1.0	6/16/2005	1	42.5 U	85 U	8.5 U	42.5 U	42.5 U	42.5 U	42.5 U	42.5 U
	GP6-S-14.5	6/16/2005	14.5	41.4 U	82.8 U	8.28 U	41.4 U	41.4 U	41.4 U	41.4 U	41.4 U
GP7	GP7-S-2.0	6/16/2005	2	39 U	78.1 U	7.81 U	39 U	39 U	39 U	39 U	39 U
	GP7-S-8.0	6/16/2005	8	44.2 U	88.4 U	8.84 U	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U
GP8	GP8-S-1.5	6/16/2005	1.5	49.3 U	98.6 U	9.86 U	49.3 U	49.3 U	49.3 U	49.3 U	49.3 U
GP9	GP9-S-2.0	6/17/2005	2	37.1 U	74.2 U	7.42 U	37.1 U	37.1 U	37.1 U	37.1 U	37.1 U
GP10	GP10-S-1.5	6/17/2005	1.5	55.8 U	112 U	17.9	55.8 U	55.8 U	55.8 U	55.8 U	55.8 U
	GP10-S-13.5	6/17/2005	13.5	39.8 U	79.6 U	7.96 U	39.8 U	39.8 U	39.8 U	39.8 U	39.8 U
GP11	GP11-S-2.0	6/17/2005	2	41.9 U	83.7 U	8.37 U	41.9 U	41.9 U	41.9 U	41.9 U	41.9 U
	GP11-S-6.5	6/17/2005	6.5	43 U	86.1 U	8.61 U	43 U	43 U	43 U	43 U	43 U
GP12	GP12-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP12-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	--
GP13	GP13-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP13-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	--
GP14	GP14-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP14-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--
GP15	GP15-S-3.0	12/13/2005	3	--	--	--	--	--	--	--	--
	GP15-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Isopropyl-benzene	m,p-Xylene	Methylene chloride	Naphthalene	n-Butyl-benzene	n-Propyl-benzene	o-Xylene	sec-Butyl-benzene
MTCA Method C CULs for Ingestion Only				350,000,000	7,000,000,000 <sup>b</sup>	18,000,000	70,000,000	NR	NR	7,000,000,000 <sup>b</sup>	NR
MTCA Method C CULs for Groundwater Protection				16,600	298,000	253	9,810	NC	NC	321,000	NC
<b>On-Site Geoprobe Sampling</b>											
GP16	GP16-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP16-S-5.0	12/13/2005	5	--	--	--	--	--	--	--	--
GP17	GP17-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP17-S-6.0	12/13/2005	6	--	--	--	--	--	--	--	--
GP18	GP18-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
GP19	GP19-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP19-S-1.0-Dup	12/13/2005	1	--	--	--	--	--	--	--	--
	GP19-S-7.0	12/13/2005	7	--	--	--	--	--	--	--	--
GP20	GP20-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP20-S-6.0	12/14/2005	6	--	--	--	--	--	--	--	--
GP21	GP21-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
	GP21-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	--
GP22	GP22-S-1.0	12/13/2005	1	--	--	--	--	--	--	--	--
	GP22-S-10.0	12/13/2005	10	--	--	--	--	--	--	--	--
GP23	GP23-S-7.0	12/14/2005	7	--	--	--	--	--	--	--	--
	GP23-S-10.5	12/14/2005	10.5	--	--	--	--	--	--	--	--
GP24	GP24-S-3.0	12/14/2005	3	--	--	--	--	--	--	--	--
	GP24-S-3.0-Dup	12/14/2005	3	--	--	--	--	--	--	--	--
	GP24-S-6.5	12/14/2005	6.5	--	--	--	--	--	--	--	--
GP25	GP25-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP25-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	--
GP26	GP26-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP26-S-9.5	12/12/2005	9.5	--	--	--	--	--	--	--	--
GP27	GP27-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP27-S-13.0	12/12/2005	13	--	--	--	--	--	--	--	--
GP28	GP28-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP28-S-7.0	12/12/2005	7	--	--	--	--	--	--	--	--
GP29	GP29-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP29-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Isopropyl-benzene	m,p-Xylene	Methylene chloride	Naphthalene	n-Butyl-benzene	n-Propyl-benzene	o-Xylene	sec-Butyl-benzene
MTC Method C CULs for Ingestion Only				350,000,000	7,000,000,000 <sup>b</sup>	18,000,000	70,000,000	NR	NR	7,000,000,000 <sup>b</sup>	NR
MTC Method C CULs for Groundwater Protection				16,600	298,000	253	9,810	NC	NC	321,000	NC
<b>On-Site Geoprobe Sampling</b>											
GP30	GP30-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP30-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--
GP31	GP31-S-1.0	12/12/2005	1	--	--	--	--	--	--	--	--
	GP31-S-6.0	12/12/2005	6	--	--	--	--	--	--	--	--
GP32	GP32-S-1.0	12/14/2005	1	--	--	--	--	--	--	--	--
<b>Off-Site Hand Auger Sampling</b>											
HA1	HA1-0.5	12/15/2005	0.5	5.73 U	--	4.01 U	5.73 U	5.73 U	5.73 U	--	5.73 U
	HA1-1.5	12/15/2005	1.5	6.91 U	--	4.84 U	6.91 U	6.91 U	6.91 U	--	6.91 U
	HA1-1.5-Dup	12/15/2005	1.5	26.4 U	--	18.5 U	26.4 U	26.4 U	26.4 U	--	26.4 U
HA2	HA2-0.5	12/15/2005	0.5	7.30 U	--	5.11 U	7.30 U	7.30 U	7.30 U	--	7.30 U
	HA2-1.5	12/15/2005	1.5	4.61 U	--	3.23 U	4.61 U	4.61 U	4.61 U	--	4.61 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	--	93.8 U	93.8 U	93.8 U	93.8 U	--	93.8 U
	HA3-1.5	12/15/2005	1.5	5.02 U	--	3.51 U	5.02 U	5.02 U	5.02 U	--	5.02 U
HA4	HA4-0.5	12/15/2005	0.5	73.9 U	--	51.8 U	73.9 U	73.9 U	73.9 U	--	73.9 U
	HA4-1.5	12/15/2005	1.5	6.12 U	--	4.28 U	6.12 U	6.12 U	6.12 U	--	6.12 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	--	1690 U	169 U	169 U	169 U	--	169 U
	HA5-1.5	12/15/2005	1.5	7.49 U	--	5.24 U	7.49 U	7.49 U	7.49 U	--	7.49 U



**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Styrene	tert-Butylbenzene	Tetra-chloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichloro-fluoromethane
MTCA Method C CULs for Ingestion Only				4,400,000	NR	240,000	700,000,000	70,000,000	730,000 <sup>d</sup>	330,000	1,100,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				336	NC	8.67	25,400	1,900	13.9 <sup>d</sup>	7.27	74,900
<b>On-Site Geoprobe Sampling</b>											
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U	0.839 U
	GP1-S-6.0	6/7/2005	6	1.12 U	1.12 U	1.12 U	1.62	1.12 U	1.12 U	1.12 U	1.12 U
	GP1-S-10.0	6/9/2005	10	38.2 U	38.2 U	7.65 U	38.2 U	38.2 U	38.2 U	7.65 U	38.2 U
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
	GP2-S-10.0	6/9/2005	10	44 U	44 U	8.81 U	44 U	44 U	44 U	8.81 U	44 U
GP3	GP3-S-2.0	6/9/2005	2	79.5 U	79.5 U	15.9 U	79.5 U	79.5 U	79.5 U	15.9 U	79.5 U
	GP3-S-6.0	6/9/2005	6	44.8 U	44.8 U	8.96 U	44.8 U	44.8 U	44.8 U	8.96 U	44.8 U
	GP3-S-14	6/9/2005	14	38.5 U	38.5 U	7.71 U	38.5 U	38.5 U	38.5 U	7.71 U	38.5 U
GP4	GP4-S-1.5	6/16/2005	1.5	51.7 U	51.7 U	10.3 U	51.7 U	51.7 U	51.7 U	10.3 U	51.7 U
GP5	GP5-S-1.5	6/16/2005	1.5	35.6 U	35.6 U	7.12 U	35.6 U	35.6 U	35.6 U	7.12 U	35.6 U
	GP5-S-8.0	6/16/2005	8	35.1 U	35.1 U	7.03 U	35.1 U	35.1 U	35.1 U	7.03 U	35.1 U
	GP5-S-14.0	6/16/2005	14	40.5 U	40.5 U	8.1 U	40.5 U	40.5 U	40.5 U	8.1 U	40.5 U
GP6	GP6-S-1.0	6/16/2005	1	42.5 U	42.5 U	8.5 U	42.5 U	42.5 U	42.5 U	40.5	42.5 U
	GP6-S-14.5	6/16/2005	14.5	41.4 U	41.4 U	8.28 U	41.4 U	41.4 U	41.4 U	1160	41.4 U
GP7	GP7-S-2.0	6/16/2005	2	39 U	39 U	7.81 U	39 U	39 U	39 U	7.81 U	39 U
	GP7-S-8.0	6/16/2005	8	44.2 U	44.2 U	8.84 U	44.2 U	44.2 U	44.2 U	8.84 U	44.2 U
GP8	GP8-S-1.5	6/16/2005	1.5	49.3 U	49.3 U	9.86 U	49.3 U	49.3 U	49.3 U	9.86 U	49.3 U
GP9	GP9-S-2.0	6/17/2005	2	37.1 U	37.1 U	7.42 U	37.1 U	37.1 U	37.1 U	7.42 U	37.1 U
GP10	GP10-S-1.5	6/17/2005	1.5	55.8 U	55.8 U	11.2 U	55.8 U	55.8 U	55.8 U	11.2 U	55.8 U
	GP10-S-13.5	6/17/2005	13.5	39.8 U	39.8 U	7.96 U	39.8 U	39.8 U	39.8 U	7.96 U	39.8 U
GP11	GP11-S-2.0	6/17/2005	2	41.9 U	41.9 U	8.37 U	41.9 U	41.9 U	41.9 U	87.2	41.9 U
	GP11-S-6.5	6/17/2005	6.5	43 U	43 U	8.61 U	43 U	43 U	43 U	281	43 U
GP12	GP12-S-3.0	12/13/2005	3	--	--	--	--	2.39 U	--	2.39 U	--
	GP12-S-5.0	12/13/2005	5	--	--	--	--	2.27 U	--	2.27 U	--
GP13	GP13-S-1.0	12/14/2005	1	--	--	--	--	9.89 U	--	9.89 U	--
	GP13-S-6.0	12/14/2005	6	--	--	--	--	2.89 U	--	2.89 U	--
GP14	GP14-S-3.0	12/13/2005	3	--	--	--	--	2.44 U	--	4.49	--
	GP14-S-6.0	12/13/2005	6	--	--	--	--	2.62 U	--	2.62 U	--
GP15	GP15-S-3.0	12/13/2005	3	--	--	--	--	2.72 U	--	2.72 U	--
	GP15-S-6.0	12/13/2005	6	--	--	--	--	10.5 U	--	10.5 U	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Styrene	tert-Butylbenzene	Tetra-chloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
MTCA Method C CULs for Ingestion Only				4,400,000	NR	240,000	700,000,000	70,000,000	730,000 <sup>d</sup>	330,000	1,100,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				336	NC	8.67	25,400	1,900	13.9 <sup>d</sup>	7.27	74,900
<b>On-Site Geoprobe Sampling</b>											
GP16	GP16-S-1.0	12/13/2005	1	--	--	--	--	1.85 U	--	3.63	--
	GP16-S-5.0	12/13/2005	5	--	--	--	--	2.12 U	--	2.12 U	--
GP17	GP17-S-1.0	12/13/2005	1	--	--	--	--	2.09 U	--	2.09 U	--
	GP17-S-6.0	12/13/2005	6	--	--	--	--	2.27 U	--	2.27 U	--
GP18	GP18-S-1.0	12/13/2005	1	--	--	--	--	2.36 U	--	3.43	--
GP19	GP19-S-1.0	12/13/2005	1	--	--	--	--	2.67 U	--	2.67 U	--
	GP19-S-1.0-Dup	12/13/2005	1	--	--	--	--	2.40 U	--	2.40 U	--
	GP19-S-7.0	12/13/2005	7	--	--	--	--	2.72 U	--	2.72 U	--
GP20	GP20-S-1.0	12/14/2005	1	--	--	--	--	2.62 U	--	2.62 U	--
	GP20-S-6.0	12/14/2005	6	--	--	--	--	4.52 U	--	4.52 U	--
GP21	GP21-S-1.0	12/14/2005	1	--	--	--	--	2.18 U	--	2.18 U	--
	GP21-S-6.5	12/14/2005	6.5	--	--	--	--	2.79 U	--	2.79 U	--
GP22	GP22-S-1.0	12/13/2005	1	--	--	--	--	2.26 U	--	2.26 U	--
	GP22-S-10.0	12/13/2005	10	--	--	--	--	1.89 U	--	1.89 U	--
GP23	GP23-S-7.0	12/14/2005	7	--	--	--	--	1.80 U	--	1.80 U	--
	GP23-S-10.5	12/14/2005	10.5	--	--	--	--	2.27 U	--	2.27 U	--
GP24	GP24-S-3.0	12/14/2005	3	--	--	--	--	2.58 U	--	2.58 U	--
	GP24-S-3.0-Dup	12/14/2005	3	--	--	--	--	2.50 U	--	2.50 U	--
	GP24-S-6.5	12/14/2005	6.5	--	--	--	--	2.83 U	--	2.83 U	--
GP25	GP25-S-1.0	12/12/2005	1	--	--	--	--	2.13 U	--	2.13 U	--
	GP25-S-7.0	12/12/2005	7	--	--	--	--	2.47 U	--	2.47 U	--
GP26	GP26-S-1.0	12/12/2005	1	--	--	--	--	2.01 U	--	2.01 U	--
	GP26-S-9.5	12/12/2005	9.5	--	--	--	--	2.65 U	--	2.65 U	--
GP27	GP27-S-1.0	12/12/2005	1	--	--	--	--	2.19 U	--	2.19 U	--
	GP27-S-13.0	12/12/2005	13	--	--	--	--	2.05 U	--	2.05 U	--
GP28	GP28-S-1.0	12/12/2005	1	--	--	--	--	1.87 U	--	1.87 U	--
	GP28-S-7.0	12/12/2005	7	--	--	--	--	2.17 U	--	2.17 U	--
GP29	GP29-S-1.0	12/12/2005	1	--	--	--	--	2.47 U	--	2.47 U	--
	GP29-S-6.0	12/12/2005	6	--	--	--	--	2.43 U	--	2.43 U	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Styrene	tert-Butylbenzene	Tetra-chloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichloro-fluoromethane
MTCA Method C CULs for Ingestion Only				4,400,000	NR	240,000	700,000,000	70,000,000	730,000 <sup>d</sup>	330,000	1,100,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				336	NC	8.67	25,400	1,900	13.9 <sup>d</sup>	7.27	74,900
<b>On-Site Geoprobe Sampling</b>											
GP30	GP30-S-1.0	12/12/2005	1	--	--	--	--	2.39 U	--	2.39 U	--
	GP30-S-6.0	12/12/2005	6	--	--	--	--	3.32 U	--	3.32 U	--
GP31	GP31-S-1.0	12/12/2005	1	--	--	--	--	2.02 U	--	2.02 U	--
	GP31-S-6.0	12/12/2005	6	--	--	--	--	3.41 U	--	3.41 U	--
GP32	GP32-S-1.0	12/14/2005	1	--	--	--	--	2.37 U	--	2.37 U	--
<b>Off-Site Hand Auger Sampling</b>											
HA1	HA1-0.5	12/15/2005	0.5	1.15 U	5.73 U	2.29 U	1.72 U	2.87 U	1.43 U	2.87 U	5.73 U
	HA1-1.5	12/15/2005	1.5	1.38 U	6.91 U	2.77 U	2.07 U	3.46 U	1.73 U	3.46 U	6.91 U
	HA1-1.5-Dup	12/15/2005	1.5	5.28 U	26.4 U	10.6 U	7.92 U	13.2 U	6.60 U	13.2 U	26.4 U
HA2	HA2-0.5	12/15/2005	0.5	1.46 U	7.30 U	2.92 U	2.19 U	3.65 U	1.83 U	3.65 U	7.30 U
	HA2-1.5	12/15/2005	1.5	0.922 U	4.61 U	1.84 U	1.38 U	2.30 U	1.15 U	2.30 U	4.61 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U	93.8 U
	HA3-1.5	12/15/2005	1.5	1.00 U	5.02 U	2.01 U	1.51 U	2.51 U	1.26 U	2.51 U	5.02 U
HA4	HA4-0.5	12/15/2005	0.5	14.8 U	73.9 U	29.6 U	22.2 U	37.0 U	18.5 U	37.0 U	73.9 U
	HA4-1.5	12/15/2005	1.5	1.22 U	6.12 U	2.45 U	1.84 U	3.06 U	1.53 U	3.06 U	6.12 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	169 U	169 U	169 U	169 U	169 U	169 U	169 U
	HA5-1.5	12/15/2005	1.5	1.50 U	7.49 U	2.99 U	2.25 U	3.74 U	1.87 U	3.74 U	7.49 U

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Vinyl chloride	Xylenes, Total
MTCA Method C CULs for Ingestion Only				88,000	7,000,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				1.82	298,000 <sup>e</sup>
<b>On-Site Geoprobe Sampling</b>					
GP1	GP1-S-1.5	6/7/2005	1.5	0.839 U	--
	GP1-S-6.0	6/7/2005	6	1.12 U	--
	GP1-S-10.0	6/9/2005	10	7.65 U	--
GP2	GP2-S-1.0	6/7/2005	1	0.96 U	--
	GP2-S-10.0	6/9/2005	10	8.81 U	--
GP3	GP3-S-2.0	6/9/2005	2	15.9 U	--
	GP3-S-6.0	6/9/2005	6	8.96 U	--
	GP3-S-14	6/9/2005	14	7.71 U	--
GP4	GP4-S-1.5	6/16/2005	1.5	10.3 U	--
GP5	GP5-S-1.5	6/16/2005	1.5	7.12 U	--
	GP5-S-8.0	6/16/2005	8	7.03 U	--
	GP5-S-14.0	6/16/2005	14	8.1 U	--
GP6	GP6-S-1.0	6/16/2005	1	8.5 U	--
	GP6-S-14.5	6/16/2005	14.5	8.28 U	--
GP7	GP7-S-2.0	6/16/2005	2	7.81 U	--
	GP7-S-8.0	6/16/2005	8	8.84 U	--
GP8	GP8-S-1.5	6/16/2005	1.5	9.86 U	--
GP9	GP9-S-2.0	6/17/2005	2	7.42 U	--
GP10	GP10-S-1.5	6/17/2005	1.5	11.2 U	--
	GP10-S-13.5	6/17/2005	13.5	7.96 U	--
GP11	GP11-S-2.0	6/17/2005	2	8.37 U	--
	GP11-S-6.5	6/17/2005	6.5	8.61 U	--
GP12	GP12-S-3.0	12/13/2005	3	2.39 U	--
	GP12-S-5.0	12/13/2005	5	2.27 U	--
GP13	GP13-S-1.0	12/14/2005	1	9.89 U	--
	GP13-S-6.0	12/14/2005	6	2.89 U	--
GP14	GP14-S-3.0	12/13/2005	3	2.44 U	--
	GP14-S-6.0	12/13/2005	6	2.62 U	--
GP15	GP15-S-3.0	12/13/2005	3	2.72 U	--
	GP15-S-6.0	12/13/2005	6	10.5 U	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Vinyl chloride	Xylenes, Total
MTCA Method C CULs for Ingestion Only				88,000	7,000,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				1.82	298,000 <sup>e</sup>
<b>On-Site Geoprobe Sampling</b>					
GP16	GP16-S-1.0	12/13/2005	1	1.85 U	--
	GP16-S-5.0	12/13/2005	5	2.12 U	--
GP17	GP17-S-1.0	12/13/2005	1	2.09 U	--
	GP17-S-6.0	12/13/2005	6	2.27 U	--
GP18	GP18-S-1.0	12/13/2005	1	2.36 U	--
GP19	GP19-S-1.0	12/13/2005	1	2.67 U	--
	GP19-S-1.0-Dup	12/13/2005	1	2.40 U	--
	GP19-S-7.0	12/13/2005	7	2.72 U	--
GP20	GP20-S-1.0	12/14/2005	1	2.62 U	--
	GP20-S-6.0	12/14/2005	6	4.52 U	--
GP21	GP21-S-1.0	12/14/2005	1	2.18 U	--
	GP21-S-6.5	12/14/2005	6.5	2.79 U	--
GP22	GP22-S-1.0	12/13/2005	1	2.26 U	--
	GP22-S-10.0	12/13/2005	10	1.89 U	--
GP23	GP23-S-7.0	12/14/2005	7	1.80 U	--
	GP23-S-10.5	12/14/2005	10.5	2.27 U	--
GP24	GP24-S-3.0	12/14/2005	3	2.58 U	--
	GP24-S-3.0-Dup	12/14/2005	3	2.50 U	--
	GP24-S-6.5	12/14/2005	6.5	2.83 U	--
GP25	GP25-S-1.0	12/12/2005	1	2.13 U	--
	GP25-S-7.0	12/12/2005	7	2.47 U	--
GP26	GP26-S-1.0	12/12/2005	1	2.01 U	--
	GP26-S-9.5	12/12/2005	9.5	2.65 U	--
GP27	GP27-S-1.0	12/12/2005	1	2.19 U	--
	GP27-S-13.0	12/12/2005	13	2.05 U	--
GP28	GP28-S-1.0	12/12/2005	1	1.87 U	--
	GP28-S-7.0	12/12/2005	7	2.17 U	--
GP29	GP29-S-1.0	12/12/2005	1	2.47 U	--
	GP29-S-6.0	12/12/2005	6	2.43 U	--

**Table 6**  
**Volatile Organic Compounds in Soil (µg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Vinyl chloride	Xylenes, Total
MTCA Method C CULs for Ingestion Only				88,000	7,000,000,000 <sup>b</sup>
MTCA Method C CULs for Groundwater Protection				1.82	298,000 <sup>e</sup>
<b>On-Site Geoprobe Sampling</b>					
GP30	GP30-S-1.0	12/12/2005	1	2.39 U	--
	GP30-S-6.0	12/12/2005	6	3.32 U	--
GP31	GP31-S-1.0	12/12/2005	1	2.02 U	--
	GP31-S-6.0	12/12/2005	6	3.41 U	--
GP32	GP32-S-1.0	12/14/2005	1	2.37 U	--
<b>Off-Site Hand Auger Sampling</b>					
HA1	HA1-0.5	12/15/2005	0.5	2.87 U	11.5 U
	HA1-1.5	12/15/2005	1.5	3.46 U	13.8 U
	HA1-1.5-Dup	12/15/2005	1.5	13.2 U	52.8 U
HA2	HA2-0.5	12/15/2005	0.5	3.65 U	14.6 U
	HA2-1.5	12/15/2005	1.5	2.30 U	9.22 U
HA3	HA3-0.5	12/15/2005	0.5	93.8 U	281 U
	HA3-1.5	12/15/2005	1.5	2.51 U	10.0 U
HA4	HA4-0.5	12/15/2005	0.5	37.0 U	148 U
	HA4-1.5	12/15/2005	1.5	3.06 U	12.2 U
HA5	HA5-0.5	12/15/2005	0.5	169 U	506 U
	HA5-1.5	12/15/2005	1.5	3.74 U	15.0 U

**Table 7**  
**Petroleum Hydrocarbon Identification in Soil**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Gasoline-Range Organics	Diesel-Range Organics	Oil-Range Organics
<b>On-Site Geoprobe Sampling</b>						
GP1	GP1-S-1.5	6/7/2005	1.5	ND	ND	ND
	GP1-S-6.0	6/7/2005	6	ND	ND	ND
	GP1-S-10.0	6/9/2005	10	ND	ND	ND
GP2	GP2-S-1.0	6/7/2005	1	ND	ND	ND
	GP2-S-10.0	6/9/2005	10	ND	ND	ND
GP3	GP3-S-2.0	6/9/2005	2	ND	ND	ND
	GP3-S-6.0	6/9/2005	6	ND	ND	ND
	GP3-S-14	6/9/2005	14	ND	ND	ND
GP4	GP4-S-1.5	6/16/2005	1.5	ND	ND	ND
GP5	GP5-S-1.5	6/16/2005	1.5	ND	ND	ND
	GP5-S-14.0	6/16/2005	14	ND	ND	ND
GP6	GP6-S-1.0	6/16/2005	1	ND	ND	ND
	GP6-S-14.5	6/16/2005	14.5	ND	ND	ND
GP7	GP7-S-2.0	6/16/2005	2	ND	ND	ND
	GP7-S-8.0	6/16/2005	8	ND	ND	ND
GP8	GP8-S-1.5	6/16/2005	1.5	ND	ND	ND
GP9	GP9-S-2.0	6/17/2005	2	ND	ND	ND
GP10	GP10-S-1.5	6/17/2005	1.5	ND	ND	ND
	GP10-S-13.5	6/17/2005	13.5	ND	ND	ND
GP11	GP11-S-2.0	6/17/2005	2	ND	ND	ND
	GP11-S-6.5	6/17/2005	6.5	ND	ND	ND

**Table 8**  
**Petroleum Hydrocarbons in Soil (mg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Gasoline-Range Organics	Diesel-Range Organics	Oil-Range Organics
MTCA Method A CULs for Industrial Properties				100	2,000	2,000
<b>On-Site Geoprobe Sampling</b>						
GP12	GP12-S-3.0	12/13/2005	3	--	10.7 U	26.6 U
GP13	GP13-S-6.0	12/14/2005	6	--	12.8 U	56.1
GP14	GP14-S-6.0	12/13/2005	6	--	10.8 U	26.9 U
GP15	GP15-S-3.0	12/13/2005	3	--	17.7	59.1
GP16	GP16-S-5.0	12/13/2005	5	--	11.2 U	28.0 U
GP17	GP17-S-1.0	12/13/2005	1	--	11.6	63.1
GP18	GP18-S-1.0	12/13/2005	1	--	156	742
GP19	GP19-S-1.0	12/13/2005	1	--	52.8	172
GP19	GP19-S-1.0-Dup	12/13/2005	1	--	18.2	43.8
GP19	GP19-S-7.0	12/13/2005	7	--	14.5 U	56.7
GP20	GP20-S-1.0	12/14/2005	1	--	198	301
GP20	GP20-S-6.0	12/14/2005	6	--	75.9	294
GP21	GP21-S-1.0	12/14/2005	1	--	11.2 U	28.0 U
GP21	GP21-S-6.5	12/14/2005	6.5	--	5270	19900
GP22	GP22-S-10.0	12/13/2005	10	--	11.3 U	28.2 U
GP23	GP23-S-7.0	12/14/2005	7	--	10.8 U	26.9 U
GP24	GP24-S-3.0	12/14/2005	3	--	11.1 U	27.8 U
GP25	GP25-S-7.0	12/12/2005	7	--	10.6 U	26.6 U
GP26	GP26-S-1.0	12/12/2005	1	--	36.4	121
GP26	GP26-S-9.5	12/12/2005	9.5	--	10.8 U	27.1 U
GP27	GP27-S-13.0	12/12/2005	13	--	10.9 U	27.2 U
GP28	GP28-S-1.0	12/12/2005	1	--	10.8 U	27.0 U
GP28	GP28-S-7.0	12/12/2005	7	--	10.4 U	26.0 U
GP29	GP29-S-1.0	12/12/2005	1	--	80.4	249
GP29	GP29-S-6.0	12/12/2005	6	--	12.8 U	32.0 U
GP30	GP30-S-1.0	12/12/2005	1	--	14.9	90.5
GP30	GP30-S-6.0	12/12/2005	6	--	39.6	165
GP31	GP31-S-1.0	12/12/2005	1	--	145	1300
GP31	GP31-S-6.0	12/12/2005	6	--	58.9	157
GP32	GP32-S-1.0	12/14/2005	1	--	11.3 U	28.3 U
<b>Off-Site Hand Auger Sampling</b>						
HA1	HA1-0.5	12/15/2005	0.5	11.4	210	1170
HA1	HA1-1.5	12/15/2005	1.5	6.57 U	37.6	182
HA1	HA1-1.5-Dup	12/15/2005	1.5	7.00 U	67.0	328
HA2	HA2-0.5	12/15/2005	0.5	8.20 U	636	3170
HA2	HA2-1.5	12/15/2005	1.5	4.79 U	73.8	409
HA3	HA3-0.5	12/15/2005	0.5	7.58 U	278	2470
HA3	HA3-1.5	12/15/2005	1.5	5.65 U	11.7 U	30.1
HA4	HA4-0.5	12/15/2005	0.5	22.1 U	35900	106000
HA4	HA4-1.5	12/15/2005	1.5	10.2 U	1350	3550
HA5	HA5-0.5	12/15/2005	0.5	21.3 U	1130	7330
HA5	HA5-1.5	12/15/2005	1.5	8.11 U	61.8	347



**Table 9**  
**Polycyclic Aromatic Hydrocarbons in Soil (mg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
MTCMA Method C CULs for Ingestion Only				1,100	14,000	210,000	NA	1,100,000 <sup>b</sup>	18
MTCMA Method C CULs for Groundwater Protection				NC	NC	214	NC	550	0.864
<b>On-Site Geoprobe Sampling</b>									
GP18	GP18-S-1.0	12/13/2005	1	0.0167	0.0202	0.0111 U	0.0111 U	0.0111 U	0.0235
GP19	GP19-S-1.0	12/13/2005	1	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U
GP20	GP20-S-1.0	12/14/2005	1	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U
GP20	GP20-S-6.0	12/14/2005	6	0.0139 U	0.0139 U	0.0139 U	0.0139 U	0.0139 U	0.0139 U
GP21	GP21-S-6.5	12/14/2005	6.5	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U
GP29	GP29-S-1.0	12/12/2005	1	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0137	0.0750
GP30	GP30-S-6.0	12/12/2005	6	0.0146 U	0.0146 U	0.0146 U	0.0146 U	0.0146 U	0.0154
GP31	GP31-S-1.0	12/12/2005	1	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U
GP31	GP31-S-6.0	12/12/2005	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0211
<b>Off-Site Hand Auger Sampling</b>									
HA1	HA1-0.5	12/15/2005	0.5	0.0151 U	0.0151 U	0.0151 U	0.0151 U	0.0151 U	0.0151 U
HA1	HA1-1.5	12/15/2005	1.5	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U
HA1	HA1-1.5-Dup	12/15/2005	1.5	0.0152 U	0.0152 U	0.0152 U	0.0152 U	0.0152 U	0.0288
HA2	HA2-0.5	12/15/2005	0.5	0.0176 U	0.0176 U	0.0176 U	0.0176 U	0.0176 U	0.0176 U
HA2	HA2-1.5	12/15/2005	1.5	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0125 U
HA3	HA3-0.5	12/15/2005	0.5	0.0133 U	0.0133 U	0.0133 U	0.0133 U	0.0133 U	0.0340
HA3	HA3-1.5	12/15/2005	1.5	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U
HA4	HA4-0.5	12/15/2005	0.5	0.340 U	0.340 U	0.340 U	0.340 U	0.340 U	0.554
HA4	HA4-1.5	12/15/2005	1.5	0.0159 U	0.0159 U	0.0159 U	0.0159 U	0.0159 U	0.0159 U
HA5	HA5-0.5	12/15/2005	0.5	0.267 U	0.267 U	0.267 U	0.267 U	0.267 U	0.862
HA5	HA5-1.5	12/15/2005	1.5	0.0153 U	0.0153 U	0.0153 U	0.0153 U	0.0153 U	0.0153 U

**Table 9**  
**Polycyclic Aromatic Hydrocarbons in Soil (mg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene
MTCA Method C CULs for Ingestion Only				18	18	NA	18	18	18
MTCA Method C CULs for Groundwater Protection				2.33	2.88	NC	2.88	0.96	4.32
<b>On-Site Geoprobe Sampling</b>									
GP18	GP18-S-1.0	12/13/2005	1	0.0111 U	0.0746	0.0111 U	0.0560	0.0717	0.0111 U
GP19	GP19-S-1.0	12/13/2005	1	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0127	0.0124 U
GP20	GP20-S-1.0	12/14/2005	1	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U
GP20	GP20-S-6.0	12/14/2005	6	0.0139 U	0.0139 U	0.0139 U	0.0139 U	0.0139 U	0.0139 U
GP21	GP21-S-6.5	12/14/2005	6.5	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U
GP29	GP29-S-1.0	12/12/2005	1	0.0571	0.0611	0.0249	0.0703	0.122	0.0162
GP30	GP30-S-6.0	12/12/2005	6	0.0146 U	0.0146 U	0.0146 U	0.0146 U	0.0334	0.0146 U
GP31	GP31-S-1.0	12/12/2005	1	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0340	0.0117 U
GP31	GP31-S-6.0	12/12/2005	6	0.0176	0.0261	0.0134 U	0.0178	0.0449	0.0134 U
<b>Off-Site Hand Auger Sampling</b>									
HA1	HA1-0.5	12/15/2005	0.5	0.0151 U	0.0151 U	0.0151 U	0.0151 U	0.0151 U	0.0151 U
HA1	HA1-1.5	12/15/2005	1.5	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U
HA1	HA1-1.5-Dup	12/15/2005	1.5	0.0500	0.0769	0.0243	0.0581	0.0612	0.0152 U
HA2	HA2-0.5	12/15/2005	0.5	0.0176 U	0.0222	0.0176 U	0.0205	0.0276	0.0176 U
HA2	HA2-1.5	12/15/2005	1.5	0.0125 U	0.0204	0.0125 U	0.0151	0.0179	0.0125 U
HA3	HA3-0.5	12/15/2005	0.5	0.0525	0.0982	0.0532	0.0706	0.0804	0.0133 U
HA3	HA3-1.5	12/15/2005	1.5	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U
HA4	HA4-0.5	12/15/2005	0.5	0.694	0.771	0.352	0.749	0.899	0.340 U
HA4	HA4-1.5	12/15/2005	1.5	0.0159 U	0.0159 U	0.0159 U	0.0159 U	0.0159	0.0159 U
HA5	HA5-0.5	12/15/2005	0.5	1.45	1.62	1.19	1.82	1.54	0.435
HA5	HA5-1.5	12/15/2005	1.5	0.0153 U	0.0153 U	0.0153 U	0.0153 U	0.0153 U	0.0153 U

**Table 9**  
**Polycyclic Aromatic Hydrocarbons in Soil (mg/kg)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Depth (ft. bgs)	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
MTCA Method C CULs for Ingestion Only				140,000	140,000	18	70,000	NA	110,000
MTCA Method C CULs for Groundwater Protection				138	221	8.4	9.81	NC	1,500
<b>On-Site Geoprobe Sampling</b>									
GP18	GP18-S-1.0	12/13/2005	1	0.195	0.0111 U	0.0111 U	0.0179	0.109	0.0884
GP19	GP19-S-1.0	12/13/2005	1	0.0245	0.0124 U	0.0124 U	0.0124 U	0.0161	0.0203
GP20	GP20-S-1.0	12/14/2005	1	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U
GP20	GP20-S-6.0	12/14/2005	6	0.0139 U	0.0139 U	0.0139 U	0.0139 U	0.0139 U	0.0139 U
GP21	GP21-S-6.5	12/14/2005	6.5	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U
GP29	GP29-S-1.0	12/12/2005	1	0.149	0.0119 U	0.0260	0.0119 U	0.0382	0.156
GP30	GP30-S-6.0	12/12/2005	6	0.0467	0.0146 U	0.0146 U	0.0146 U	0.0258	0.0531
GP31	GP31-S-1.0	12/12/2005	1	0.0253	0.0117 U	0.0117 U	0.0117 U	0.0153	0.0254
GP31	GP31-S-6.0	12/12/2005	6	0.0517	0.0134 U	0.0134 U	0.0134 U	0.0287	0.0500
<b>Off-Site Hand Auger Sampling</b>									
HA1	HA1-0.5	12/15/2005	0.5	0.0196	0.0151 U	0.0151 U	0.0151 U	0.0151 U	0.0151 U
HA1	HA1-1.5	12/15/2005	1.5	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.0129 U
HA1	HA1-1.5-Dup	12/15/2005	1.5	0.0951	0.0152 U	0.0201	0.0152 U	0.0382	0.0657
HA2	HA2-0.5	12/15/2005	0.5	0.0455	0.0176 U	0.0176 U	0.0176 U	0.0180	0.0334
HA2	HA2-1.5	12/15/2005	1.5	0.0329	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0240
HA3	HA3-0.5	12/15/2005	0.5	0.120	0.0133 U	0.0385	0.0133 U	0.0826	0.134
HA3	HA3-1.5	12/15/2005	1.5	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U
HA4	HA4-0.5	12/15/2005	0.5	1.30	0.340 U	0.340 U	0.340 U	0.340 U	1.52
HA4	HA4-1.5	12/15/2005	1.5	0.0191	0.0159 U	0.0159 U	0.0159 U	0.0159 U	0.0218
HA5	HA5-0.5	12/15/2005	0.5	2.38	0.267 U	1.02	0.267 U	0.930	2.15
HA5	HA5-1.5	12/15/2005	1.5	0.0153 U	0.0153 U	0.0153 U	0.0153 U	0.0153 U	0.0153 U

**Table 10**  
**Metals in Reconnaissance Groundwater (mg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Dissolved Chromium	Chromium (Hexavalent)	Dissolved Chromium (Trivalent) <sup>a</sup>	Lead
MTCR Method C Groundwater CULs			NR	0.105	52.5	15 <sup>f</sup>
GP2	GP2-W-17-RECON	6/9/2005	37.1	<b>4.72</b>	32.38	15 U
GP4	GP4-W-8.0	6/16/2005	267	<b>236</b>	31	--
GP5	GP5-W-18.0	6/16/2005	0.02 U	0.0897	NC	--
GP6	GP6-W-18.0	6/16/2005	343	<b>300</b>	43	--
GP7	GP7-W-14.0	6/16/2005	0.02 U	0.101	NC	--
GP8	GP8-W-10.0	6/16/2005	355	<b>294</b>	<b>61</b>	--

**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	1,1,1,2-Tetra- chloroethane	1,1,1-Trichloro- ethane	1,1,2,2-Tetra- chloroethane	1,1,2-Trichloro- ethane	1,1-Dichloro- ethane	1,1-Dichloro- ethene	1,1-Dichloro- propene	1,2,3-Trichloro- benzene
MTC Method C Groundwater CULs			17	16,000	2.2	7.7	1,800	880	NA	NA
GP2	GP2-W-17-RECON	6/9/2005	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	--	--	--	--	--	--
GP-15	GP15-W-8.0	12/14/2005	--	--	--	--	--	--	--	--

**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	1,2,3-Trichloro- propane	1,2,4-Trichloro- benzene	1,2,4-Trimethyl- benzene	1,2-Dibromo-3- chloropropane	1,2-Dibromo- ethane	1,2-Dichloro- benzene	1,2-Dichloro- ethane	1,2-Dichloro- propane
MTC Method C Groundwater CULs			0.063	180	NR	0.31	0.0051	1,600	4.8	6.4
GP2	GP2-W-17-RECON	6/9/2005	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	--	--	--	--	--	--
GP-15	GP15-W-8.0	12/14/2005	--	--	--	--	--	--	--	--

**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	4-Chlorotoluene
MTCA Method C Groundwater CULs			NR	NR	NA	18	NA	11,000	350	NA
GP2	GP2-W-17-RECON	6/9/2005	5 U	5 U	5 U	5 U	5 U	729	5 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	20 U	20 U	20 U	20 U	100 U	20 U	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	10.3	1 U	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	--	--	--	2 U	--	--
GP-15	GP15-W-8.0	12/14/2005	--	--	--	--	--	2.07	--	--

**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	4-Isopropyl- toluene	4-Methyl-2- pentanone	Acetone	Benzene	Bromobenzene	Bromodichloro- methane	Bromoform	Bromomethane	Carbon Tetrachloride
MTCA Method C Groundwater CULs			NA	1,400	1,800	8	NA	7.1	55	25	3.4
GP2	GP2-W-17-RECON	6/9/2005	5 U	25 U	295	5 U	5 U	5 U	5 U	5 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	5 U	40.5	1 U	1 U	1 U	1 U	1 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	5 U	7.2	1 U	1 U	1 U	1 U	1 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	5 U	75.8	1 U	1 U	1 U	1 U	1 U	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	--	--	--	--	--	--	--
GP-15	GP15-W-8.0	12/14/2005	--	--	--	--	--	--	--	--	--



**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
MTCA Method C Groundwater CULs			350	NA	NA	72	34	180	2.4 <sup>d</sup>
GP2	GP2-W-17-RECON	6/9/2005	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	20 U	20 U	20 U	20 U	144	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	2.26	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	--	--	--	6.03	--
GP-15	GP15-W-8.0	12/14/2005	--	--	--	--	--	0.2 U	--

**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Dibromo-chloromethane	Dibromo-methane	Dichloro-difluoromethane	Ethylbenzene	Hexachloro-butadiene	Isopropyl-benzene	m,p-Xylene	Methyl tert-butyl ether
MTCA Method C Groundwater CULs			5.2	180	3,500	1,800	5.6	1,800	35,000	240
GP2	GP2-W-17-RECON	6/9/2005	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	--	--	--	--	--	--
GP-15	GP15-W-8.0	12/14/2005	--	--	--	--	--	--	--	--

**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Methylene chloride	Naphthalene	n-Butyl-benzene	n-Propyl-benzene	o-Xylene	sec-Butyl-benzene	Styrene	tert-Butyl-benzene
MTCA Method C Groundwater CULs			58	350	NR	NR	35,000	NR	15	NR
GP2	GP2-W-17-RECON	6/9/2005	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	87	1 U	1 U	1 U	1 U	1 U	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	--	--	--	--	--	--
GP-15	GP15-W-8.0	12/14/2005	--	--	--	--	--	--	--	--

**Table 11**  
**Volatile Organic Compounds in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Tetra-chloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoromethane	Vinyl chloride
MTC Method C Groundwater CULs			0.81	3,500	350	2.4 <sup>d</sup>	1.1	5,300	0.29
GP2	GP2-W-17-RECON	6/9/2005	5 U	5 U	5 U	5 U	5 U	5 U	5 U
GP4	GP4-W-8.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP5	GP5-W-18.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP6	GP6-W-18.0	6/16/2005	20 U	20 U	20 U	20 U	1130	20 U	20 U
GP7	GP7-W-14.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
GP8	GP8-W-10.0	6/16/2005	1 U	1 U	1 U	1 U	16.8	1 U	1 U
GP-13	GP13-W-8.0	12/14/2005	--	--	1.01	--	0.220	--	16.5
GP-15	GP15-W-8.0	12/14/2005	--	--	0.2 U	--	0.2 U	---	0.2 U

**Table 12**  
**Petroleum Hydrocarbon Identification in Reconnaissance Groundwater**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Gasoline-Range Organics	Diesel-Range Organics	Oil-Range Organics.
GP2	GP2-W-17-RECON	6/9/2005	DET	ND	ND
GP4	GP4-W-8.0	6/16/2005	ND	DET	ND
GP5	GP5-W-18.0	6/16/2005	ND	ND	ND
GP6	GP6-W-18.0	6/16/2005	ND	ND	ND
GP7	GP7-W-14.0	6/16/2005	ND	ND	ND
GP8	GP8-W-10.0	6/16/2005	DET	DET	DET

**Table 13**  
**Petroleum Hydrocarbons in Reconnaissance Groundwater (mg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Gasoline-Range Organics	Diesel-Range Organics	Oil-Range Organics
MTCA Method A Groundwater CULs			0.8	0.5	0.5
GP2	GP2-W-17-RECON	6/9/2005	0.1 U	--	--
GP4	GP4-W-8.0	6/16/2005	--	0.325	0.478 U
GP8	GP8-W-10.0	6/16/2005	0.155	<b>0.814</b>	0.479 U

**Table 14**  
**Polycyclic Aromatic Hydrocarbons in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	2-Chloro-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b+k)fluoranthene
MTCA Method C Groundwater CULs			NA	70	2,100	NA	11,000	0.12	0.12	0.12
GP4	GP4-W-8.0	6/16/2005	0.191 U	0.477 U	0.191 U	0.191 U	0.191 U	0.191 U	0.191 U	0.954 U
GP8	GP8-W-10.0	6/16/2005	0.194 U	8.56	0.328	0.194 U	0.194 U	0.194 U	0.194 U	0.97 U

**Table 14**  
**Polycyclic Aromatic Hydrocarbons in Reconnaissance Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Benzo(ghi) perylene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
MTC Method C Groundwater CULs			NA	0.012	0.12	1,400	1,400	0.12	350	NA	1,100
GP4	GP4-W-8.0	6/16/2005	0.191 U	0.191 U	0.191 U	0.191 U	0.191 U	0.191 U	0.477 U	0.191 U	0.191 U
GP8	GP8-W-10.0	6/16/2005	0.194 U	0.194 U	0.194 U	0.194 U	0.298	0.194 U	26.5	5.54	0.194 U



**Table 15**  
**Polychlorinated Biphenyls in Reconnaissance Groundwater ( $\mu\text{g/L}$ )**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
MTCA Method C Groundwater CULs			0.44 <sup>g</sup>	0.44 <sup>g</sup>	0.44 <sup>g</sup>	0.44 <sup>g</sup>	0.44 <sup>g</sup>	0.44 <sup>g</sup>	0.44 <sup>g</sup>
GP8	GP8-W-10.0	6/16/2005	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U

**Table 16**  
**Dissolved Chromium in Groundwater (mg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Dissolved Chromium	Chromium (Hexavalent)	Dissolved Chromium (Trivalent) <sup>a</sup>
MTCA Method C Groundwater CULs			NR	0.105	52.5
MTCA Method C Surface Water CULs			NR	1.2	610
AWQC—Human Health			NR	NR	NR
AWQC—Aquatic Life—Chronic			NR	0.010	0.18
MW1	MW1-W-35.0	6/16/2005	0.02 U	<b>0.269</b>	NC
	MW1-122705	12/27/2005	0.001 U	0.00625 U	NC
MW2	MW2-W-0605	6/17/2005	0.02 U	0.01 U	NC
	MW2-122805	12/28/2005	<b>0.00879</b>	0.00625 U	0.00879
MW3	MW3-0605	6/7/2005	0.02 U	0.01 U	NC
	MW3-122905	12/29/2005	<b>0.00215</b>	0.00625 U	0.00215
MW4	MW4-0605	6/9/2005	0.02 U	0.01 U	NC
	MW4-0605-Dup	6/9/2005	0.02 U	0.01 U	NC
	MW4-122705	12/27/2005	0.001 U	0.00625 U	NC
MW5	MW5-122805	12/28/2005	<b>497</b>	<b>450</b>	47
MW6	MW6-122905	12/29/2005	<b>0.0187</b>	0.00625 U	0.0187
MW7	MW7-122805	12/28/2005	<b>0.0106</b>	<b>0.00738</b>	0.0106
MW8	MW8-122805	12/28/2005	<b>0.00755</b>	0.00625 U	0.00755
MW8	MWDup-122805	12/28/2005	<b>0.00849</b>	0.00625 U	0.00849

**Table 17**  
**Dissolved Metals in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Antimony	Arsenic	Beryllium	Cadmium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
MTCA Method C Groundwater CULs			14	5 <sup>h</sup>	70	18	1,300	15 <sup>f</sup>	11	700	180	180	2.5	11,000
MTCA Method C Surface Water CULs			2,600	44	680	51	6,700	NR	NR	2,800	6,800	65,000	3.9	41,000
AWQC—Human Health			14	0.018	NR	NR	NR	NR	0.14	610	170	NR	0.24	7,400
AWQC—Aquatic Life—Chronic			NR	150	NR	0.25	3.5	0.54	0.012	49	5	NR	NR	32
MW1	MW1-122705	12/27/2005	3.00 U	32.3	1.00 U	1.00 U	1.01	1.00 U	0.200 U	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
MW2	MW2-122805	12/28/2005	3.00 U	5.63	1.00 U	1.00 U	1.17	1.00 U	0.200 U	2.51	6.28	1.00 U	1.00 U	10.0 U
MW3	MW3-122905	12/29/2005	3.00 U	15.3	1.00 U	1.00 U	1.00 U	1.00 U	0.200 U	1.70	1.00 U	1.00 U	1.00 U	10.0 U
MW4	MW4-122705	12/27/2005	3.00 U	15.1	1.00 U	1.00 U	1.00 U	1.00 U	0.200 U	1.33	1.00 U	1.00 U	1.00 U	10.0 U
MW5	MW5-122805	12/28/2005	3.00 U	4.59	1.00 U	1.00 U	3.67	1.00 U	0.200 U	32.2	1000 U	1.00 U	1.00 U	14.0
MW6	MW6-122905	12/29/2005	3.00 U	11.9	1.00 U	1.00 U	4.02	1.00 U	0.200 U	16.3	12.3	1.00 U	1.00 U	10.0 U
MW7	MW7-122805	12/28/2005	3.00 U	6.62	1.00 U	1.00 U	2.12	1.00 U	0.200 U	11.8	2.77	1.00 U	1.00 U	10.8
MW8	MW8-122805	12/28/2005	3.00 U	6.41	1.00 U	1.00 U	1.00 U	1.00 U	0.200 U	2.91	4.11	1.00 U	1.00 U	10.0 U
	MWDup-122805	12/28/2005	3.00 U	7.85	1.00 U	1.00 U	1.03	1.00 U	0.200 U	3.14	4.27	1.00 U	1.00 U	10.0 U

**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	1,1,1,2-Tetra- chloroethane	1,1,1-Trichloro- ethane	1,1,2,2-Tetra- chloroethane	1,1,2-Trichloro- ethane	1,1-Dichloro- ethane	1,1-Dichloro- ethene	1,1-Dichloro- propene	1,2,3-Trichloro- benzene
MTCA Method C Groundwater CULs			17	16,000	2.2	7.7	1,800	880	NA	NA
MTCA Method C Surface Water CULs			NR	1,000,000	160	630	NR	48	NA	NA
AWQC—Human Health			NR	NR	0.17	0.59	NR	0.057	NA	NA
AWQC—Aquatic Life—Chronic			NR	NR	NR	NR	NR	NR	NA	NA
MW1	MW1-W-35.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW1-122705	12/27/2005	--	--	--	--	--	--	--	--
MW2	MW2-W-0605	6/17/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW2-122805	12/28/2005	--	--	--	--	--	--	--	--
MW3	MW3-0605	6/7/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW3-122905	12/29/2005	--	--	--	--	--	--	--	--
MW4	MW4-0605	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-122705	12/27/2005	--	--	--	--	--	--	--	--
MW5	MW5-122805	12/28/2005	--	--	--	--	--	--	--	
MW6	MW6-122905	12/29/2005	--	--	--	--	--	--	--	
MW7	MW7-122805	12/28/2005	--	--	--	--	--	--	--	
MW8	MW8-122805	12/28/2005	--	--	--	--	--	--	--	--
	MWDUP-122805	12/28/2005	--	--	--	--	--	--	--	--

**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	1,2,3-Trichloro- propane	1,2,4-Trichloro- benzene	1,2,4-Trimethyl- benzene	1,2-Dibromo-3- chloropropane	1,2-Dibromo- ethane	1,2-Dichloro- benzene	1,2-Dichloro- ethane	1,2-Dichloro- propane
MTCA Method C Groundwater CULs			0.063	180	NR	0.31	0.0051	1,600	4.8	6.4
MTCA Method C Surface Water CULs			NR	570	NR	NR	NR	10,000	1500	580
AWQC—Human Health			NR	35	NR	NR	NR	420	0.38	0.5
AWQC—Aquatic Life—Chronic			NR	NR	NR	NR	NR	NR	NR	NR
MW1	MW1-W-35.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW1-122705	12/27/2005	--	--	--	--	--	--	--	--
MW2	MW2-W-0605	6/17/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW2-122805	12/28/2005	--	--	--	--	--	--	--	--
MW3	MW3-0605	6/7/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW3-122905	12/29/2005	--	--	--	--	--	--	--	--
MW4	MW4-0605	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-122705	12/27/2005	--	--	--	--	--	--	--	--
MW5	MW5-122805	12/28/2005	--	--	--	--	--	--	--	
MW6	MW6-122905	12/29/2005	--	--	--	--	--	--	--	
MW7	MW7-122805	12/28/2005	--	--	--	--	--	--	--	
MW8	MW8-122805	12/28/2005	--	--	--	--	--	--	--	--
	MWDUP-122805	12/28/2005	--	--	--	--	--	--	--	--

**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	4-Chlorotoluene
MTCA Method C Groundwater CULs			NR	NR	NA	18	NA	11,000	350	NA
MTCA Method C Surface Water CULs			NR	NR	NA	120	NA	NR	NR	NA
AWQC—Human Health			NR	320	NA	63	NA	NR	NR	NA
AWQC—Aquatic Life—Chronic			NR	NR	NA	NR	NA	NR	NR	NA
MW1	MW1-W-35.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
	MW1-122705	12/27/2005	--	--	--	--	--	2 U	--	--
MW2	MW2-W-0605	6/17/2005	1 U	1 U	1 U	1 U	1 U	5.43	1 U	1 U
	MW2-122805	12/28/2005	--	--	--	--	--	2 U	--	--
MW3	MW3-0605	6/7/2005	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
	MW3-122905	12/29/2005	--	--	--	--	--	2 U	--	--
MW4	MW4-0605	6/9/2005	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
	MW4-122705	12/27/2005	--	--	--	--	--	2 U	--	--
MW5	MW5-122805	12/28/2005	--	--	--	--	--	34	--	--
MW6	MW6-122905	12/29/2005	--	--	--	--	--	10.7	--	--
MW7	MW7-122805	12/28/2005	--	--	--	--	--	2 U	--	--
MW8	MW8-122805	12/28/2005	--	--	--	--	--	17.0	--	--
	MWDUP-122805	12/28/2005	--	--	--	--	--	15.5	--	--

**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	4-Isopropyl- toluene	4-Methyl-2- pentanone	Acetone	Benzene	Bromobenzene	Bromodichloro- methane	Bromoform	Bromomethane
MTCA Method C Groundwater CULs			NA	1,400	1,800	8	NA	7.1	55	25
MTCA Method C Surface Water CULs			NA	NR	NR	570	NA	700	5500	2400
AWQC—Human Health			NA	NR	NR	1.2	NA	0.27	4.3	4.7
AWQC—Aquatic Life—Chronic			NA	NR	NR	NR	NA	NR	NR	NR
MW1	MW1-W-35.0	6/16/2005	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
	MW1-122705	12/27/2005	--	--	--	--	--	--	--	--
MW2	MW2-W-0605	6/17/2005	1 U	5 U	17.1	1 U	1 U	1 U	1 U	1 U
	MW2-122805	12/28/2005	--	--	--	--	--	--	--	--
MW3	MW3-0605	6/7/2005	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
	MW3-122905	12/29/2005	--	--	--	--	--	--	--	--
MW4	MW4-0605	6/9/2005	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
	MW4-122705	12/27/2005	--	--	--	--	--	--	--	--
MW5	MW5-122805	12/28/2005	--	--	--	--	--	--	--	--
MW6	MW6-122905	12/29/2005	--	--	--	--	--	--	--	--
MW7	MW7-122805	12/28/2005	--	--	--	--	--	--	--	--
MW8	MW8-122805	12/28/2005	--	--	--	--	--	--	--	--
	MWDUP-122805	12/28/2005	--	--	--	--	--	--	--	--

**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Carbon Tetrachloride	Chlorobenzene	Chlorobromo-methane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene
MTCA Method C Groundwater CULs			3.4	350	NA	NA	72	34	180	2.4 <sup>d</sup>
MTCA Method C Surface Water CULs			66	13000	NA	NA	7100	3300	NR	470 <sup>d</sup>
AWQC—Human Health			0.23	130	NA	NA	5.7	NR	NR	0.34 <sup>d</sup>
AWQC—Aquatic Life—Chronic			NR	NR	NA	NA	NR	NR	NR	NR
MW1	MW1-W-35.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW1-122705	12/27/2005	--	--	--	--	--	--	0.200 U	--
MW2	MW2-W-0605	6/17/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW2-122805	12/28/2005	--	--	--	--	--	--	0.200 U	--
MW3	MW3-0605	6/7/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW3-122905	12/29/2005	--	--	--	--	--	--	0.200	--
MW4	MW4-0605	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-122705	12/27/2005	--	--	--	--	--	--	0.200 U	--
MW5	MW5-122805	12/28/2005	--	--	--	--	--	--	2.42	--
MW6	MW6-122905	12/29/2005	--	--	--	--	--	--	1.00 U	--
MW7	MW7-122805	12/28/2005	--	--	--	--	--	--	0.200 U	--
MW8	MW8-122805	12/28/2005	--	--	--	--	--	--	1.03	--
	MWDUP-122805	12/28/2005	--	--	--	--	--	--	0.920	--



**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Dibromo-chloromethane	Dibromo-methane	Dichloro-difluoromethane	Ethylbenzene	Hexachloro-butadiene	Isopropyl-benzene	m,p-Xylene	Methyl tert-butyl ether
MTCA Method C Groundwater CULs			5.2	180	3,500	1,800	5.6	1,800	35,000	240
MTCA Method C Surface Water CULs			510	NR	NR	17,000	470	NR	NR	NR
AWQC—Human Health			0.4	48	NR	530	0.44	NR	NR	NR
AWQC—Aquatic Life—Chronic			NR	NR	NR	NR	NR	NR	NR	NR
MW1	MW1-W-35.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
	MW1-122705	12/27/2005	--	--	--	--	--	--	--	--
MW2	MW2-W-0605	6/17/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
	MW2-122805	12/28/2005	--	--	--	--	--	--	--	--
MW3	MW3-0605	6/7/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
	MW3-122905	12/29/2005	--	--	--	--	--	--	--	--
MW4	MW4-0605	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U
	MW4-122705	12/27/2005	--	--	--	--	--	--	--	--
MW5	MW5-122805	12/28/2005	--	--	--	--	--	--	--	--
MW6	MW6-122905	12/29/2005	--	--	--	--	--	--	--	--
MW7	MW7-122805	12/28/2005	--	--	--	--	--	--	--	--
MW8	MW8-122805	12/28/2005	--	--	--	--	--	--	--	--
	MWDUP-122805	12/28/2005	--	--	--	--	--	--	--	--

**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Methylene chloride	Naphthalene	n-Butyl-benzene	n-Propyl-benzene	o-Xylene	sec-Butyl-benzene	Styrene	tert-Butyl-benzene
MTCA Method C Groundwater CULs			58	350	NR	NR	35,000	NR	15	NR
MTCA Method C Surface Water CULs			24000	12000	NR	NR	NR	NR	NR	NR
AWQC—Human Health			4.6	NR	NR	NR	NR	NR	NR	NR
AWQC—Aquatic Life—Chronic			NR	NR	NR	NR	NR	NR	NR	NR
MW1	MW1-W-35.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW1-122705	12/27/2005	--	--	--	--	--	--	--	--
MW2	MW2-W-0605	6/17/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW2-122805	12/28/2005	--	--	--	--	--	--	--	--
MW3	MW3-0605	6/7/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW3-122905	12/29/2005	--	--	--	--	--	--	--	--
MW4	MW4-0605	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-122705	12/27/2005	--	--	--	--	--	--	--	--
MW5	MW5-122805	12/28/2005	--	--	--	--	--	--	--	--
MW6	MW6-122905	12/29/2005	--	--	--	--	--	--	--	--
MW7	MW7-122805	12/28/2005	--	--	--	--	--	--	--	--
MW8	MW8-122805	12/28/2005	--	--	--	--	--	--	--	--
	MWDUP-122805	12/28/2005	--	--	--	--	--	--	--	--

**Table 18**  
**Volatile Organic Compounds in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Tetra-chloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoromethane	Vinyl chloride
MTCA Method C Groundwater CULs			0.81	3,500	350	2.4 <sup>d</sup>	1.1	5,300	0.29
MTCA Method C Surface Water CULs			9.7	120,000	82000	470 <sup>d</sup>	37	NR	92
AWQC—Human Health			0.69	1,300	140,000	0.34 <sup>d</sup>	2.5	NR	0.025
AWQC—Aquatic Life—Chronic			NR	NR	NR	NR	NR	NR	NR
MW1	MW1-W-35.0	6/16/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW1-122705	12/27/2005	--	--	0.200 U	--	0.200 U	--	0.200 U
MW2	MW2-W-0605	6/17/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW2-122805	12/28/2005	--	--	0.200 U	--	0.200 U	--	0.200 U
MW3	MW3-0605	6/7/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW3-122905	12/29/2005	--	--	0.200 U	--	0.200 U	--	0.200 U
MW4	MW4-0605	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-0605-Dup	6/9/2005	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	MW4-122705	12/27/2005	--	--	0.200 U	--	0.200 U	--	0.200 U
MW5	MW5-122805	12/28/2005	--	--	0.260	--	22.1	--	0.200 U
MW6	MW6-122905	12/29/2005	--	--	1.00 U	--	1.00 U	--	1.00 U
MW7	MW7-122805	12/28/2005	--	--	0.200 U	--	0.200 U	--	0.200 U
MW8	MW8-122805	12/28/2005	--	--	0.200 U	--	0.200 U	--	0.560
	MWDUP-122805	12/28/2005	--	--	0.200 U	--	0.200 U	--	0.400

**Table 19**  
**Petroleum Hydrocarbon Identification in Groundwater**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Gasoline-Range Organics	Diesel-Range Organics	Oil-Range Organics
MW2	MW2-W-0605	6/17/2005	ND	DET	DET

**Table 20**  
**Petroleum Hydrocarbons in Groundwater (mg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Gasoline-Range Organics	Diesel-Range Organics	Oil-Range Organics
MTCA Method A Groundwater CULs			0.8	0.5	0.5
MW1	MW1-122705	12/27/2005	--	0.248 U	0.495 U
MW2	MW2-W-0605	6/17/2005	0.1 U	0.438	<b>0.512</b>
	MW2-122805	12/28/2005	--	<b>1.19</b>	<b>1.04</b>
MW3	MW3-122905	12/29/2005	--	0.312	0.505 U
MW4	MW4-122705	12/27/2005	--	0.248 U	0.495 U
MW5	MW5-122805	12/28/2005	--	<b>0.831</b>	0.495 U
MW6	MW6-122905	12/29/2005	--	<b>2.64</b>	<b>1.32</b>
MW7	MW7-122805	12/28/2005	--	0.248 U	0.495 U
MW8	MW8-122805	12/28/2005	--	<b>1.71</b>	<b>1.00</b>
	MWDup-122805	12/28/2005	--	<b>1.79</b>	<b>1.21</b>

**Table 21**  
**Polycyclic Aromatic Hydrocarbons in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	2-Chloro-naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
MTCA Method C Groundwater CULs			NA	5.3	70	2,100	NA	11,000	0.12
MTCA Method C Surface Water CULs			NA	NR	NR	1,600	NA	65,000	0.74
AWQC—Human Health			NA	NR	NR	670	NA	8,300	0.0028
AWQC—Aquatic Life—Chronic			NA	NR	NR	NR	NA	NR	NR
MW1	MW1-122705	12/27/2005	--	0.114 U	0.114 U	0.114 U	0.114 U	0.114 U	0.107
MW2	MW2-W-0605	6/17/2005	0.192 U	--	0.481 U	0.192 U	0.192 U	0.192 U	0.192 U
	MW2-122805	12/28/2005	--	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.00990 U
MW3	MW3-122905	12/29/2005	--	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.0100 U
MW4	MW4-122705	12/27/2005	--	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.0100 U
MW5	MW5-122805	12/28/2005	--	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.00990 U
MW6	MW6-122905	12/29/2005	--	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.00990 U
MW7	MW7-122805	12/28/2005	--	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.00990 U
MW8	MW8-122805	12/28/2005	--	0.106	0.100 U	0.100 U	0.100 U	0.100 U	0.0100 U
	MWDup-122805	12/28/2005	--	0.103	0.0990 U	0.0990 U	0.0990 U	0.0990 U	0.0990 U

**Table 21**  
**Polycyclic Aromatic Hydrocarbons in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

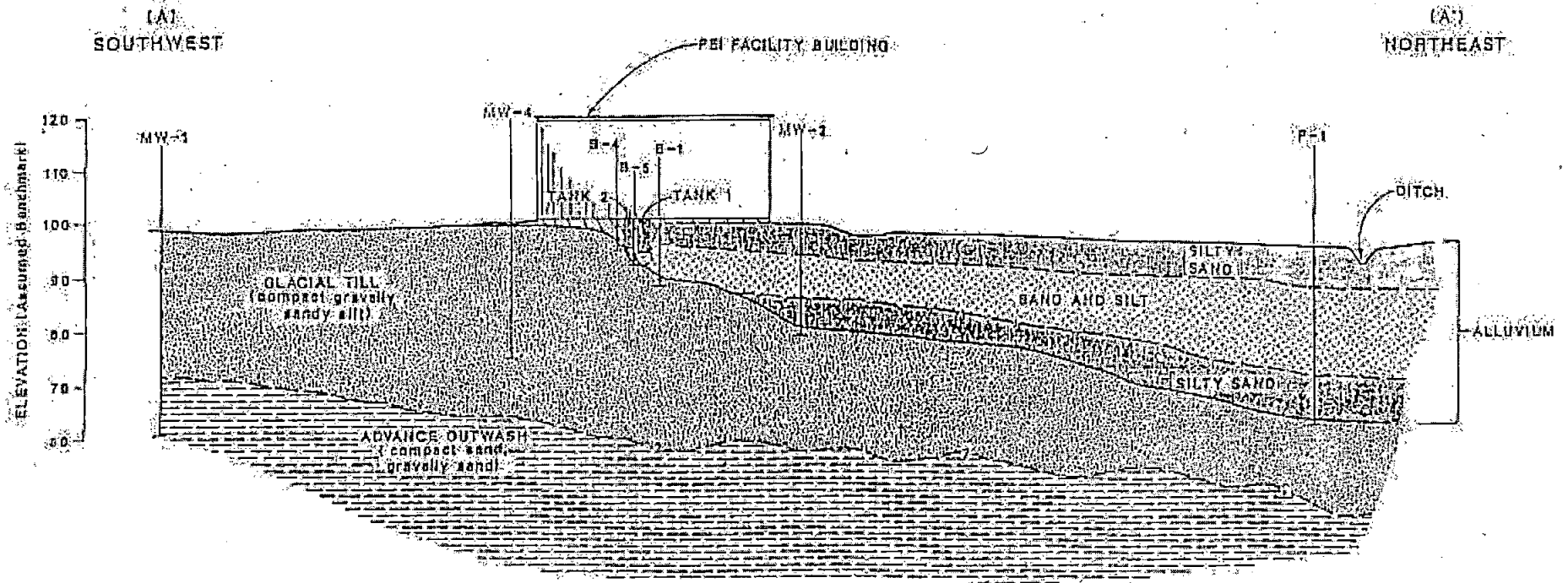
Location	Sample ID	Date	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(b+k) fluoranthene	Benzo(ghi) perylene	Chrysene	Dibenzo(a,h) anthracene
MTCA Method C Groundwater CULs			0.12	0.12	0.12	0.12	NA	0.12	0.12
MTCA Method C Surface Water CULs			0.74	0.74	0.74	0.74	NA	0.74	0.74
AWQC—Human Health			0.0028	0.0028	0.0028	0.0028	NA	0.0028	0.0028
AWQC—Aquatic Life—Chronic			NR	NR	NR	NR	NA	NR	NR
MW1	MW1-122705	12/27/2005	0.0114 U	0.104	0.108	--	0.114 U	0.132	0.0114 U
MW2	MW2-W-0605	6/17/2005	0.192 U	--	--	0.962 U	0.192 U	0.192 U	0.192 U
	MW2-122805	12/28/2005	0.00990 U	0.00990 U	0.00990 U	--	0.0990 U	0.00990 U	0.00990 U
MW3	MW3-122905	12/29/2005	0.0100 U	0.0100 U	0.0100 U	--	0.100 U	0.0100 U	0.0100 U
MW4	MW4-122705	12/27/2005	0.0100 U	0.0100 U	0.0100 U	--	0.100 U	0.0100 U	0.0100 U
MW5	MW5-122805	12/28/2005	0.00990 U	0.00990 U	0.00990 U	--	0.0990 U	0.00990 U	0.00990 U
MW6	MW6-122905	12/29/2005	0.00990 U	0.00990 U	0.00990 U	--	0.0990 U	0.00990 U	0.00990 U
MW7	MW7-122805	12/28/2005	0.00990 U	0.00990 U	0.00990 U	--	0.0990 U	0.00990 U	0.00990 U
MW8	MW8-122805	12/28/2005	0.0100 U	0.0100 U	0.0100 U	--	0.100 U	0.0100 U	0.0100 U
	MWDup-122805	12/28/2005	0.00990 U	0.00990 U	0.00990 U	--	0.0990 U	0.00990 U	0.00990 U

**Table 21**  
**Polycyclic Aromatic Hydrocarbons in Groundwater (µg/L)**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Location	Sample ID	Date	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
MTCA Method C Groundwater CULs			1,400	1,400	0.12	350	NA	1,100
MTCA Method C Surface Water CULs			230	8,600	0.74	12,000	NA	6,500
AWQC—Human Health			130	1,100	0.0028	NR	NA	830
AWQC—Aquatic Life—Chronic			NR	NR	NR	NR	NR	NR
MW1	MW1-122705	12/27/2005	0.384	0.114 U	0.0114 U	0.114 U	0.159	0.310
MW2	MW2-W-0605	6/17/2005	0.192 U	0.192 U	0.192 U	0.854	0.192 U	0.192 U
	MW2-122805	12/28/2005	0.0990 U	0.0990 U	0.00990 U	0.271	0.0990 U	0.0990 U
MW3	MW3-122905	12/29/2005	0.100 U	0.100 U	0.0100 U	0.100 U	0.100 U	0.100 U
MW4	MW4-122705	12/27/2005	0.100 U	0.100 U	0.0100 U	0.100 U	0.100 U	0.100 U
MW5	MW5-122805	12/28/2005	0.0990 U	0.0990 U	0.00990 U	0.457	0.0990 U	0.0990 U
MW6	MW6-122905	12/29/2005	0.0990 U	0.0990 U	0.00990 U	0.0990 U	0.0990 U	0.0990 U
MW7	MW7-122805	12/28/2005	0.0990 U	0.0990 U	0.00990 U	0.0990 U	0.0990 U	0.0990 U
MW8	MW8-122805	12/28/2005	0.100 U	0.100 U	0.0100 U	0.100 U	0.100 U	0.100 U
	MWDup-122805	12/28/2005	0.0990 U	0.0990 U	0.00990 U	0.0990 U	0.0990 U	0.0990 U



**APPENDIX A**  
**CROSS SECTION**



SCALE (H)  
 VERTICAL EXAGGERATION = 2:1  
 VIEWING NORTHWEST

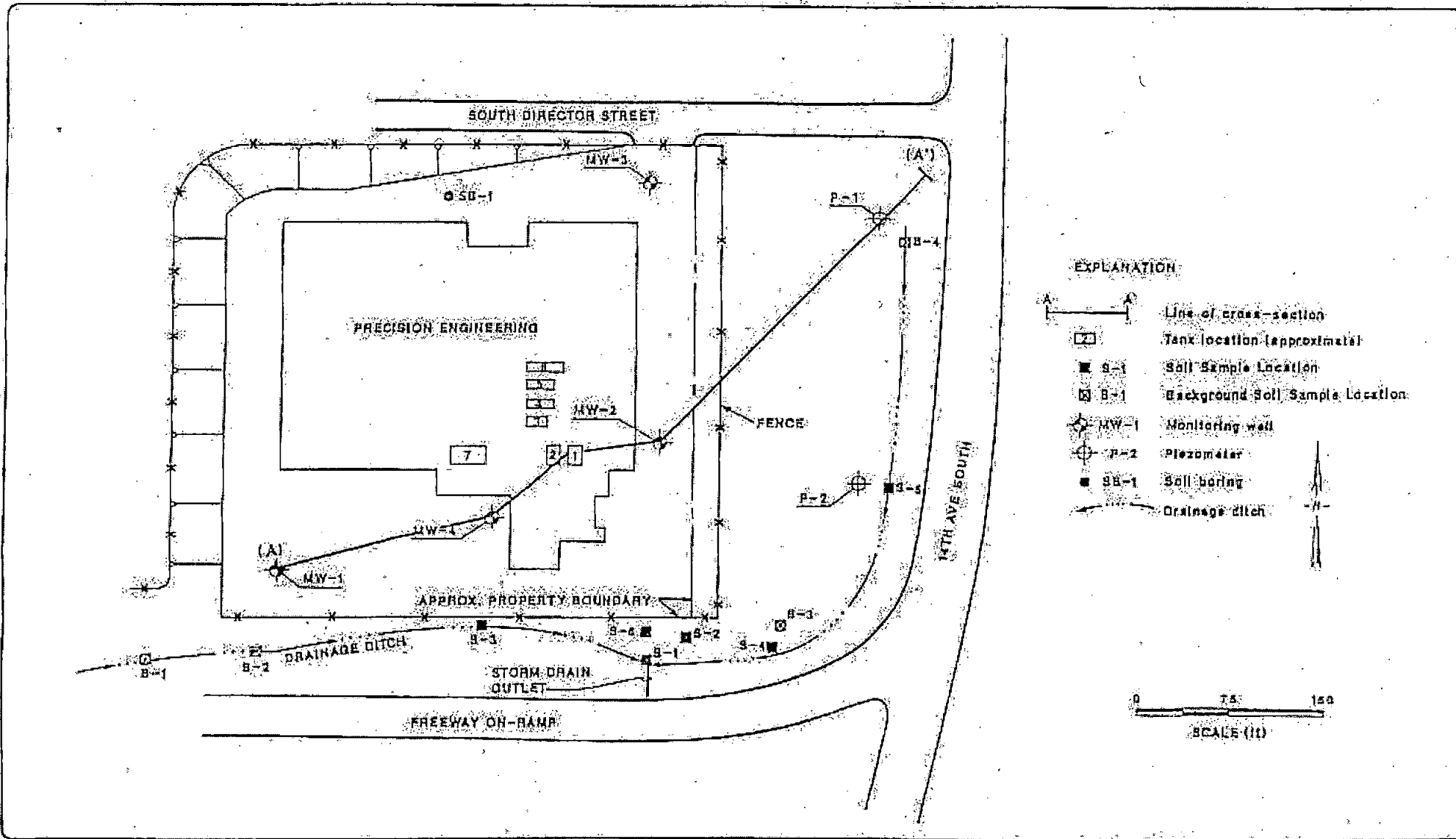


Swool-Edwards  
 EMCON

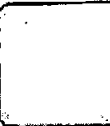
DATE: 5-90  
 DRAWN BY: J.A.  
 APPR. BY: P.T.  
 CHECKED BY: P.T.  
 PROJECT NO.:

PRECISION ENGINEERING, INC.  
 GEOLOGIC CROSS-SECTION

Figure 2.0-1 is a cross-section through the study area that depicts the stratigraphic relationship between the soil units. The cross-section shows the alluvium thinning towards the west until it is absent beneath the PEI facility.



PRECISION ENGINEERING, INC.  
SITE EXPLORATION MAP



**APPENDIX B**  
**BORING AND WELL LOGS**

**Maul Foster & Alongi, Inc.** **Geologic Borehole Log/Well Construction**

Project Number <b>8006.08.04</b>	Well Number <b>GP12</b>	Sheet <b>1 of 1</b>
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Project Name <b>Precision Engineering</b>	TOC Elevation (feet NGVD)
Project Location <b>1231 S. Director Street, Seattle, Washington 98108</b>	Surface Elevation (feet NGVD)
Start/End Date <b>12/13/05 to 12/13/05</b>	Northing
Driller/Equipment <b>Cascade Drilling/Geoprobe</b>	Easting
Geologist/Engineer <b>M. Gibson</b>	Hole Depth <b>8.0-feet</b>
Sample Method <b>Direct Push</b>	Outer Hole Diam <b>3 1/4-inch</b>

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data		Blows/6"	Lithologic Column	Soil Description
				Collection Method	Name (Type)			
			50%	GP				0 to 0.5 feet: CONCRETE.
1								0.5 to 8.0 feet: GRAVELLY SAND with SILT (SW); 15% fines, nonplastic; 60% sand, fine to medium; 25% gravels, fine to medium, angular to subrounded; dry.  @ 4.0 feet: Increase in coarseness; sand, coarse; gravel, fine to medium.  @ 5.0 feet: Wet.
2								
3					GP12-S-3.0			
4			100%	GP				
5					GP12-S-5.0			
6								
7								
8								

Total Depth: 8.0 feet bgs.

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GBLWC.W\

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/14/05 to 12/14/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **10.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
0			75%	GP				0 to 0.5 feet: CONCRETE.	
1						GP13-S-1.0		0.5 to 3.5 feet: SILTY SAND (SM); dark brown; 30% fines, nonplastic; 70% sand, fine, dense; damp.	
2									
3									
4			75%	GP				3.5 to 4.5 feet: SILT with SAND (ML); dark brown; 85% fines, low plasticity; 15% sand, fine; moist.	
5								4.5 to 8.0 feet: GRAVELLY SILT with SAND (ML); dark grayish brown; 70% fines, low to medium plasticity; 10% sand, fine; 20% gravels, fine to medium; moist.	
6				GW		GP13-S-6.0		@ 6.0 feet: Wet.	
7									
8						GP13-W-8.0			
9									
10									

Total Depth: 10.0 feet bgs

NOTES: 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/13/05 to 12/13/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **8.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data		Blows/6"	Lithologic Column	Soil Description
				Collection Method	Name (Type)			
0		100%	GP					0 to 0.5 feet: CONCRETE.
1								0.5 to 1.0 feet: SILTY SAND with GRAVEL (SM); brown; 30% fines, nonplastic; 60% sand, fine; 10% gravels, fine to medium, subangular, dry.
2								1.0 to 7.0 feet: SANDY SILT with GRAVEL (ML); yellowish brown; 70% fines, nonplastic; 20% sand, fine; 10% gravels, fine to medium, subangular, dry.
3					GP14-S-3.0			
4		100%	GP					
5								
6		100%	GP		GP14-S-6.0			
7								
8								7.0 to 8.0 feet: SILTY SAND with GRAVEL (SM); light yellowish brown; 30% fines, nonplastic; 60% sand, fine to course; 10% gravels, fine to medium; wet.
Total Depth: 8.0 feet bgs.								

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 GBLWC W.V.

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

## Geologic Borehole Log/Well Construction

**Maul Foster & Alongi, Inc.**

Project Number  
**8006.08.04**

Well Number  
**GP15**

Sheet  
**1 of 1**

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/13/05 to 12/13/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **10.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Name (Type)			
0		100%	GP				0 to 0.5 feet: CONCRETE.	
1							0.5 to 8.0 feet: SILTY SAND (SM); dark gray; 20% fines, nonplastic; 80% sand, fine; trace gravels, fine; damp.	
2								
3							@ 5.0 feet: Organic debris; black; wet.	
4		100%	GP		GP15-S-3.0			
5								
6			GW		GP15-S-6.0			
7								
8					GP15-W-8.0			
9								
10								

Total Depth: 10.0 feet bgs.

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GBLWC W/C

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.



# Geologic Borehole Log/Well Construction

**Maul Foster & Alongi, Inc.**

Project Number  
8006.08.04

Well Number  
GP16

Sheet  
1 of 1

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/13/05 to 12/13/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **10.5-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Name (Type)			
0		100%	GP				0 to 0.5 feet: CONCRETE.	
1					GP16-S-1.0		0.5 to 8.0 feet: SILTY SAND with GRAVEL (SM); gray with iron staining; 20% fines, nonplastic; 65% sand, fine; 15% gravels, fine to medium, angular to subrounded; damp.  @ 3.0 feet: Color change to yellowish brown; dry.  @ 4.0 feet: Water in the top of the sample.  @ 6.0 feet: Dry.  @ 7.0 feet: Wet.	
2								
3								
4		100%	GP					
5					GP16-S-5.0			
6								
7								
8		100%	GP					
9							8.0 to 10.5 feet: SANDY SILT with GRAVEL (ML); light gray; 70% fines, nonplastic, stiff; 20% sand, fine; 10% gravels, fine to medium, subrounded; dry.	
10							@ 9.5 feet: Color change to yellowish brown.	

Total Depth: 10.5 feet bgs. Hit refusal.

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GBLWC W:\

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

**Maul Foster & Alongi, Inc.**

**Geologic Borehole Log/Well Construction**

Project Number  
8006.08.04

Well Number  
GP17

Sheet  
1 of 1

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/13/05 to 12/13/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **8.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1		100%	GP			GP17-S-1.0		0 to 0.5 feet: CONCRETE.	
2								0.5 to 7.0 feet: SANDY SILT with GRAVEL(ML); dark brown; 70% fines, nonplastic; 20% sand, fine; 10% gravels, fine to medium; angular to subrounded; damp.	
3									
4		100%	GP					@ 6.0 feet: Color change to gray; wet.	
5									
6						GP17-S-6.0		7.0 to 8.0 feet: SANDY SILT (ML); yellowish brown with iron staining; 70% fines, nonplastic; 30% sand, fine to medium; damp.	
7									
8									

Total Depth: 8.0 feet bgs.

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

# Geologic Borehole Log/Well Construction

<b>Maul Foster &amp; Alongi, Inc.</b>	Project Number <b>8006.08.04</b>	Well Number <b>GP18</b>	Sheet <b>1 of 1</b>
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Project Name <b>Precision Engineering</b>	TOC Elevation (feet NGVD)
Project Location <b>1231 S. Director Street, Seattle, Washington 98108</b>	Surface Elevation (feet NGVD)
Start/End Date <b>12/13/05 to 12/13/05</b>	Northing
Driller/Equipment <b>Cascade Drilling/Geoprobe</b>	Easting
Geologist/Engineer <b>M. Gibson</b>	Hole Depth <b>4.0-feet</b>
Sample Method <b>Direct Push</b>	Outer Hole Diam <b>3 1/4-inch</b>

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Number			
1		100%	GP				0 to 0.5 feet: CONCRETE.	
2				GP18-S-1.0			0.5 to 4.0 feet: SILTY SAND with GRAVEL (SM); light gray; 20% fines, nonplastic; 70% sand, fine, dense; 10% gravels, fine to medium; odor; damp.	
3		100%	GP				@ 2.0 feet: Color change to dark brown; dry.	
4							@ 2.5 feet: Color change to yellowish brown.	
Total Depth: 4.0 feet bgs. Hit refusal.								

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GBLWC WAC

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

# Geologic Borehole Log/Well Construction

<b>Maul Foster &amp; Alongi, Inc.</b>	Project Number <b>8006.08.04</b>	Well Number <b>GP19</b>	Sheet <b>1 of 1</b>
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Project Name <b>Precision Engineering</b>	TOC Elevation (feet NGVD)
Project Location <b>1231 S. Director Street, Seattle, Washington 98108</b>	Surface Elevation (feet NGVD)
Start/End Date <b>12/13/05 to 12/13/05</b>	Northing
Driller/Equipment <b>Cascade Drilling/Geoprobe</b>	Easting
Geologist/Engineer <b>M. Gibson</b>	Hole Depth <b>9.5-feet</b>
Sample Method <b>Direct Push</b>	Outer Hole Diam <b>3 1/4-inch</b>

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data		Blows/6"	Lithologic Column	Soil Description	
					Number	Name (Type)				
0			100%	GP					0 to 0.5 feet: CONCRETE.	
1			100%	GP					0.5 to 2.0 feet: SILTY SAND with GRAVEL (SM); gray with brown mottling; 30% fines, nonplastic; 60% sand, fine; 10% gravels, fine to medium, angular to subrounded; damp.	
2									2.0 to 8.0 feet: SANDY SILT (ML); dark brown; 60% fines, low plasticity, stiff; 40% sand, fine; damp to moist.	
3										
4										
5										@ 5.0 feet: Trace gravels, fine to medium.
6										
7										@ 7.0 feet: Wet.
8										
9										8.0 to 9.5 feet: SILTY SAND with GRAVEL (SM); yellowish brown; 30% fines, nonplastic; 60% sand, fine; 10% gravels, fine to medium; dry.

Total Depth: 9.5 feet bgs.

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 GBLWC WAC

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

Project Number  
8006.08.04

Well Number  
GP20

Sheet  
1 of 1

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/14/05 to 12/14/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **8.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data		Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)			
0			80%	GP					0 to 0.5 feet: CONCRETE.
1						GP20-S-1.0			0.5 to 1.5 feet: SILTY SAND with GRAVEL (SM); brownish gray; 20% fines, nonplastic; 70% sand, fine; 10% gravels, fine to medium, subrounded; slight odor; damp to moist.
2									1.5 to 8.0 feet: SILTY SAND (SM); dark blackish brown; 35% fines, nonplastic; 65% sand, fine; trace organics at top of sample; slight odor; moist
3									
4			100%	GP					Grades to sandy silt.
5									
6						GP20-S-6.0			
7									@ 7.0 feet: Wet.
8									

Total Depth: 8.0 feet bgs.

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**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

GBLWC WAC

# Geologic Borehole Log/Well Construction

<b>Maul Foster &amp; Alongi, Inc.</b>	Project Number <b>8006.08.04</b>	Well Number <b>GP21</b>	Sheet <b>1 of 1</b>
Project Name <b>Precision Engineering</b>	Project Location <b>1231 S. Director Street, Seattle, Washington 98108</b>	TOC Elevation (feet NGVD)	
Start/End Date <b>12/14/05 to 12/14/05</b>	Driller/Equipment <b>Cascade Drilling/Geoprobe</b>	Surface Elevation (feet NGVD)	
Geologist/Engineer <b>M. Gibson</b>	Sample Method <b>Direct Push</b>	Northing	
		Easting	
		Hole Depth	<b>8.0-feet</b>
		Outer Hole Diam	<b>3 1/4-inch</b>

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Number			
0			<b>50%</b>	<b>GP</b>			0 to 0.5 feet: CONCRETE.	
1					<b>GP21-S-1.0</b>		0.5 to 4.0 feet: SILTY SAND with GRAVEL (SM); light yellowish brown; 20% fines, nonplastic; 70% sand, fine; 10% gravels, fine, subangular; dry to damp.	
2							@ 2.0 feet: Color change to gray; damp.	
3								
4			<b>100%</b>	<b>GP</b>				4.0 to 8.0 feet: SILTY SAND (SM); dark blackish brown; 35% fines, low to medium plasticity; 65% sand, fine; moist.
5								
6					<b>GP21-S-6.5</b>			
7							@ 7.0 feet: Wet.	
8								

Total Depth: 8.0 feet bgs.

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GBLWC W/C

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

Project Name	Precision Engineering	TOC Elevation (feet NGVD)
Project Location	1231 S. Director Street, Seattle, Washington 98108	Surface Elevation (feet NGVD)
Start/End Date	12/13/05 to 12/13/05	Northing
Driller/Equipment	Cascade Drilling/Geoprobe	Easting
Geologist/Engineer	M. Gibson	Hole Depth
Sample Method	Direct Push	Outer Hole Diam
		<b>12.0-feet</b>
		<b>3 1/4-inch</b>

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Name (Type)			
0		100%	GP				0 to 0.5 feet: CONCRETE.	
1					GP22-S-1.0		0.5 to 12.0 feet: SILTY SAND with GRAVEL (SM); brown; 20% fines, nonplastic; 70% sand, fine; 10% gravels, fine to medium, angular to subrounded; dry.  @ 3.0 feet: Color change to yellowish brown.	
2								
3								
4		100%	GP					
5					GP22-S-5.0		@ 5.0 feet: Color change to gray; increase in density.	
6		100%	GP					
7								
8		100%	GP					
9								
10		100%	GP		GP22-S-10.0		@ 10.0 feet: Color change to brown; wet.	
11							@ 11.0 feet: Color change to yellowish brown; dry.	
12								

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GBLWC WAIG

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

**Maul Foster & Alongi, Inc.**

**Geologic Borehole Log/Well Construction**

Project Number  
8006.08.04

Well Number  
GP23

Sheet  
1 of 1

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/14/05 to 12/14/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **11.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Sample Data			Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method			
1		0 to 1.0	100%	GP			0 to 0.5 feet: CONCRETE.
2							0.5 to 11.0 feet: SILTY SAND with GRAVEL (SM); light yellowish brown; 20% fines, nonplastic; 70% sand, fine, loose; 10% gravels; dry.  @ 2.0 feet: Color change to gray; dense.
3							
4			100%	GP			
5							
6			100%	GP			
7							
8			100%	GP			
9							
10			100%	GP			
11							

Total Depth: 11.0 feet bgs. Hit refusal.

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GBLWC W:G

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.



**Maul Foster & Alongi, Inc.**

**Geologic Borehole Log/Well Construction**

Project Number  
8006.08.04

Well Number  
GP24

Sheet  
1 of 1

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/14/05 to 12/14/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **10.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Lithologic Column	Soil Description
					Number	Name (Type)	Blows/6"		
0			100%	GP				0 to 0.5 feet: CONCRETE.	
1								0.5 to 5.5 feet: SILTY SAND with GRAVEL (SM); gray; 20% fines, nonplastic; 70% sand, fine; 10% gravels, fine to medium, subangular to subrounded; dry.	
2									
3									
4					GP24-S-3.0 GPDUP-S-3.0				
5			100%	GP				5.5 to 6.5 feet: SANDY SILT (ML); gray; 70% fines, nonplastic, very stiff; 30% sand, fine; dry.	
6									
7					GP24-S-6.5			6.5 to 9.5 feet: SILTY SAND with GRAVEL (SM); gray; 20% fines, nonplastic; 70% sand, fine; 10% gravels, fine to medium, subangular to subrounded; dry.	
8			100%	GP					
9									
10					GP24-S-9.0			9.5 to 10.0 feet: SANDY SILT (ML); gray; 70% fines, nonplastic, very stiff; 30% sand, fine; dry.	

Total Depth: 10.0 feet bgs.

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GBLWC WAIG

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/12/05 to 12/12/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **10.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data		Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)			
0									0 to 0.5 feet: ASPHALT.
1			100%	GP		GP25-S-1.0			0.5 to 7.0 feet: SAND with GRAVEL (SW); light gray; trace fines; 85% sand, fine, dense; 15% gravels, fine to medium, angular to subrounded; dry.
2									
3			100%	GP					
4									
5									
6									
7			100%	GP		GP25-S-7.0			7.0 to 10.0 feet: SANDY SILT (ML); brownish gray; 70% fines; 30% sand, fine to medium; wet.
8									
9									
10									

Total Depth: 10.0 feet bgs.

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GBLWC W:\C

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

**Maul Foster & Alongi, Inc.** **Geologic Borehole Log/Well Construction**

Project Number: 8006.08.04 Well Number: GP26 Sheet: 1 of 1

Project Name: Precision Engineering TOC Elevation (feet NGVD)  
 Project Location: 1231 S. Director Street, Seattle, Washington 98108 Surface Elevation (feet NGVD)  
 Start/End Date: 12/12/05 to 12/12/05 Northing  
 Driller/Equipment: Cascade Drilling/Geoprobe Easting  
 Geologist/Engineer: M. Gibson Hole Depth: 9.5-feet  
 Sample Method: Direct Push Outer Hole Diam: 3 1/4-inch

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

			100%	GP				0 to 0.5 feet: ASPHALT.
1								0.5 to 9.5 feet: SAND with GRAVEL (SW); light gray with spots of brownish yellow; 85% sand, fine, dense; 15% gravel, fine to medium; dry.  @ 6.0 feet: Color change to spots of greenish yellow.
2								
3								
4				100%	GP			
5								
6								
7				100%	GP	GP26-S-7.0		
8				100%	GP			
9								

GP26-S-9.5 Total Depth: 9.5 feet bgs. Hit refusal.

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GBLWC WAG

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

Maul Foster & Alongi, Inc.		Geologic Borehole Log/Well Construction						
		Project Number 8006.08.04		Well Number GP27		Sheet 1 of 1		
Project Name		Precision Engineering			TOC Elevation (feet NGVD)			
Project Location		1231 S. Director Street, Seattle, Washington 98108			Surface Elevation (feet NGVD)			
Start/End Date		12/12/05 to 12/12/05			Northing			
Driller/Equipment		Cascade Drilling/Geoprobe			Easting			
Geologist/Engineer		M. Gibson			Hole Depth 13.5-feet			
Sample Method		Direct Push			Outer Hole Diam 3 1/4-inch			
Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Number			
		100%	GP					0 to 0.5 feet: ASPHALT.
1								0.5 to 13.5 feet: SAND with GRAVEL (SW); light gray; trace fines; 85% sand, fine, dense; 15% gravels, fine to medium, angular to subrounded; dry.  @ 6.0 feet: Color change to slight pinkish color with spots of yellow.  @ 8.0 feet: Decrease in coarseness; gravels, fine.
2								
3								
4		100%	GP					
5								
6								
7		100%	GP					
8								
9								
10		100%	GP					
11								
12		100%	GP					
13								
Total Depth: 13.5 feet bgs.								

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GELWC.WAK

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

**Maul Foster & Alongi, Inc.**

**Geologic Borehole Log/Well Construction**

Project Number  
8006.08.04

Well Number  
GP28

Sheet  
1 of 1

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/12/05 to 12/12/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **9.5-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Name (Type)			
1		100%	GP		GP28-S-1.0		0 to 0.5 feet: ASPHALT	
2							0.5 to 4.0 feet: SILTY SAND with GRAVEL (SM); light brownish gray; 30% fines, nonplastic; 60% sand, fine; 10% gravels, fine to medium, angular to subrounded; damp to moist.	
3								
4		100%	GP				4.0 to 9.5 feet: SAND with GRAVEL (SW); light gray with spots of brown; trace fines; 85% sand, fine; 15% gravels, fine to medium, angular to subrounded; dry.	
5								
6								
7		100%	GP		GP28-S-7.0		@ 7.5 feet: Moist to Wet.	
8								
9								

Total Depth: 9.5 feet bgs.

NOTES: 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

TWPROJECTS\8006.08\GP12-GP32.GPJ 2/6/06

GBLWC W.V.

# Geologic Borehole Log/Well Construction

<b>Maul Foster &amp; Alongi, Inc.</b>	Project Number <b>8006.08.04</b>	Well Number <b>GP29</b>	Sheet <b>1 of 1</b>
	Project Name <b>Precision Engineering</b>	Project Location <b>1231 S. Director Street, Seattle, Washington 98108</b>	TOC Elevation (feet NGVD)
Start/End Date <b>12/12/05 to 12/12/05</b>	Driller/Equipment <b>Cascade Drilling/Geoprobe</b>	Surface Elevation (feet NGVD)	Northing
Geologist/Engineer <b>M. Gibson</b>	Sample Method <b>Direct Push</b>	Easting	Hole Depth <b>8.0-feet</b>
		Outer Hole Diam	<b>3 1/4-inch</b>

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Name (Type)			
1		100%	GP		GP29-S-1.0	0 to 0.5 feet: ASPHALT.	0.5 to 2.0 feet: GRAVELLY SAND with SILT (SW); greenish gray; 5% fines, nonplastic; 70% sand, fine; 25% gravels, fine to medium; damp.	
2						2.0 to 6.5 feet: SILTY SAND (SM); dark brown; 30% fines, nonplastic; 70% sand, fine; damp.		
3								
4		100%	GP		GP29-S-6.0			
5								
6								
7						6.5 to 8.0 feet: SANDY SILT with GRAVEL (ML); brown; 60% fines, medium plasticity; 30% sand, fine to medium; 10% gravels, fine; trace organics and woody debris; wet.		
8								

Total Depth: 8.0 feet bgs.

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**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

# Geologic Borehole Log/Well Construction

<b>Maul Foster &amp; Alongi, Inc.</b>	Project Number <b>8006.08.04</b>	Well Number <b>GP30</b>	Sheet <b>1 of 1</b>
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Project Name <b>Precision Engineering</b>	TOC Elevation (feet NGVD)
Project Location <b>1231 S. Director Street, Seattle, Washington 98108</b>	Surface Elevation (feet NGVD)
Start/End Date <b>12/12/05 to 12/12/05</b>	Northing
Driller/Equipment <b>Cascade Drilling/Geoprobe</b>	Easting
Geologist/Engineer <b>M. Gibson</b>	Hole Depth <b>8.0-feet</b>
Sample Method <b>Direct Push</b>	Outer Hole Diam <b>3 1/4-inch</b>

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data		Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)			
0			100%	GP					0 to 0.5 feet: ASPHALT.
1			100%	GP					0.5 to 8.0 feet: SILTY SAND (SM); greenish gray; 30% fines, nonplastic; 70% sand, fine; trace gravels, fine; damp.  @ 3.5 feet: Color change to dark brown; some organics.  @ 6.5 feet: Color change to blackish brown; wet.
2									
3									
4									
5									
6									
7									
8									

Total Depth: 8.0 feet bgs.

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GBLWC WAG

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

# Geologic Borehole Log/Well Construction

**Maul Foster & Alongi, Inc.**      Project Number: **8006.08.04**      Well Number: **GP31**      Sheet: **1 of 1**

Project Name	Precision Engineering	TOC Elevation (feet NGVD)
Project Location	1231 S. Director Street, Seattle, Washington 98108	Surface Elevation (feet NGVD)
Start/End Date	12/12/05 to 12/12/05	Northing
Driller/Equipment	Cascade Drilling/Geoprobe	Easting
Geologist/Engineer	M. Gibson	Hole Depth
Sample Method	Direct Push	Outer Hole Diam

Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Number			
1		50%	GP	GP31-S-1.0			0 to 0.5 feet: ASPHALT.	
2							0.5 to 3.0 feet: SILTY SAND with GRAVEL (SM); greenish gray; 20% fines, nonplastic; 70% sand, fine; 10% gravels, fine; damp.	
3		100%	GP	GP31-S-6.0			3.0 to 8.0 feet: SILTY SAND (SM); dark brown; 20% fines, nonplastic; 80% sand, fine; damp to moist.	
4							@ 6.5 feet: Color change to blackish brown; wet.	
5							7.5 to 8.0 feet: WOODY DEBRIS.	
6								
7								
8								

Total Depth: 8.0 feet bgs.

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 GBLWC WAC

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.



Project Number  
8006.08.04

Well Number  
GP32

Sheet  
1 of 1

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, Washington 98108**  
 Start/End Date **12/14/05 to 12/14/05**  
 Driller/Equipment **Cascade Drilling/Geoprobe**  
 Geologist/Engineer **M. Gibson**  
 Sample Method **Direct Push**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **3.0-feet**  
 Outer Hole Diam **3 1/4-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Blows/6"	Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)			
1		100%				GP32-S-1.0			0 to 0.5 feet: CONCRETE. 0.5 to 3.0 feet: SILTY SAND with GRAVEL (SM); orangish brown; 20% fines, nonplastic; 70% sand, fine, dense; 10% gravels, fine to medium; odor; damp. @ 1.0 feet: Color change to yellowish brown; dry.
2									
3									

Total Depth: 3.0 feet bgs. Hit refusal.

TW\PROJECTS\8006.08\GP12-GP32.GPJ 2/6/06

GBLWC.WX

**NOTES:** 1) Abandon borehole with 3/8-inch bentonite chips hydrated with potable water. 2) GP = geoprobe.

## Geologic Borehole Log/Well Construction

**Maul Foster & Alongi, Inc.**

Project Number  
**8006.08.04**

Well Number  
**MW5**

Sheet  
**1 of 2**

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, WA 98108**  
 Start/End Date **12/15/05 to 12/15/05**  
 Driller/Equipment **Cascade Drilling/Hollow Stem Auger**  
 Geologist/Engineer **Merideth Gibson**  
 Sample Method **Split Spoon**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **20.5-feet**  
 Outer Hole Diam **10.25-inch**



Depth (feet, BGS)	Well Details	Sample Data				Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method	Number Name (Type)			
1							0 to 10.0 feet: See boring log for GP18.	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11		10%	SS		50/2"	10.0 to 20.5 feet: SANDY SILT with GRAVEL; grayish brown; 70% fines, low plasticity; 20% sand, fine to medium; 10% gravel; wet.  @ 15.0 feet: Large Gravel, subrounded.  @ 17.5 feet: Large Gravel approximately 3-inches in diameter; damp.		
12								
13		25%	SS		50/4"			
14								
15		25%	SS		50/4"			
16								
17								
18		28%	SS		50/5"			
19								
20								

TWP000008006.08MWS - MW5.GPJ 2/6/06

GBLWC WA(C

**NOTES:** 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.

<b>Maul Foster &amp; Alongi, Inc.</b>		<b>Geologic Borehole Log/Well Construction</b>						
		Project Number <b>8006.08.04</b>			Well Number <b>MW5</b>		Sheet <b>2 of 2</b>	
Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Sample Data			Lithologic Column	Soil Description
				Collection Method	Number	Name (Type)		

		<b>100%</b>	<b>SS</b>			<b>50/6"</b>		<b>@ 20.0 feet: Dry.</b>
<i>Total Depth: 20.5 feet bgs.</i>								

I:\PROJECTS\8006.08\MW5 - MW5.GPJ 2/18/06  
 GBLWC W/C

**NOTES:** 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.

**Maul Foster & Alongi, Inc.**

**Geologic Borehole Log/Well Construction**

Project Number  
8006.08.04

Well Number  
MW6

Sheet  
1 of 2

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, WA 98108**  
 Start/End Date **12/15/05 to 12/15/05**  
 Driller/Equipment **Cascade Drilling/Hollow Stem Auger**  
 Geologist/Engineer **Merideth Gibson**  
 Sample Method **Split Spoon**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **20.8-feet**  
 Outer Hole Diam **10.25-inch**

Depth (feet, BGS)	Well Details	Sample Data			Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method			
0							0 to 0.5 feet: ASPHALT.
1							
2							
3		56%	SS		19 50/6"		2.5 to 3.0 feet: SANDY GRAVEL (GW); dark brown with lenses of green and black; 40% sand, fine to medium; 60% gravel, fine to medium; damp. 3.0 to 6.0 feet: SILTY SAND (SM); dark gray; 35% fines, non plastic; 65% sand, fine, dense; moist.
4							
5		100%	SS		11 12 13		
6							6.0 to 8.0 feet: WOODY DEBRIS.
7							
8		90%	SS		10 11 10		8.0 to 20.0 feet: SILT with SAND (ML); light grayish brown with spots of black; 90% fines, low plasticity; 10% sand, fine; trace organics; wet.
9							
10		100%	SS		10 11 15		@ 10.0 feet: Color change to pinkish grayish brown.
11							
12							
13		100%	SS		24 20 19		@ 12.5 feet: Increase in stiffness.
14							
15		90%	SS				@ 15.0 feet: Color change to grayish brown with spots of black.
16							
17							@ 16.5 feet: Trace woody debris.
18		100%	SS		20 19 12		
19							
20							

T:\PROJECTS\8006.08\MW6 - MW8.GPJ 2/6/06

GBLWC WJK

**NOTES:** 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.

Maul Foster & Alongi, Inc.

**Geologic Borehole Log/Well Construction**

Project Number  
8006.08.04

Well Number  
MW6

Sheet  
2 of 2

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

			100%	SS				0 0 0 0 0	20.0 to 20.75 feet: SILTY GRAVEL with SAND (GM); grayish brown; 20% fines, medium plasticity; 15% sand, fine to coarse; 65% gravels, fine to medium, approximately 3-inches in diameter; wet. Total Depth: 20.75 feet bgs.
--	--	--	------	----	--	--	--	-----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

T:\PROJECTS\8006.08\MW5 - MW6.GPJ 2/16/06

GBLWC W:\

**NOTES:** 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.

# Maul Foster & Alongi, Inc.

## Geologic Borehole Log/Well Construction

Project Number  
8006.08.04

Well Number  
MW7

Sheet  
1 of 2

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, WA 98108**  
 Start/End Date **12/16/05 to 12/16/05**  
 Driller/Equipment **Cascade Drilling/Hollow Stem Auger**  
 Geologist/Engineer **Merideth Gibson**  
 Sample Method **Split Spoon**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **35.5-feet**  
 Outer Hole Diam **10.25-inch**

Depth (feet, BGS)	Well Details	Sample Data			Blows/6"	Lithologic Column	Soil Description
		Interval	Percent Recovery	Collection Method			
1							0 to 0.5 feet: ASPHALT.
2							
3		67%	SS		4		2.5 to 3.5 feet: GRAVELLY SAND (SW); dark brown; trace fines; 70% sand, fine to coarse; 30% gravels, fine; dry to damp.
4					5		3.5 to 5.0 feet: SILTY SAND (SM); dark grayish brown; 30% fines, low plasticity; 70% sand, fine; damp.
5		100%	SS		3		5.0 to 7.5 feet: SANDY SILT with GRAVEL (ML); light grayish brown; 70% fines, non plastic; 20% sand, fine; 10% gravels, fine to medium; trace organics; damp to moist.
6					6		
7					5		
8		100%	SS		1		7.5 to 13.5 feet: SANDY SILT (ML); light grayish brown; 70% fines, non plastic; 30% sand, fine, dense; trace organics; moist.
9					2		@ 8.5 feet: Wet.
10		100%	SS		4		
11					3		
12					4		@ 11.5 feet: Woody debris.
13		100%	SS		5		@ 12.5 feet: Color change to light pinkish grayish brown; increase in fines, some clay.
14					6		13.5 to 16.0 feet: SAND with SILT (SP-SM); dark brown; 15% fines, non plastic; 85% sand, fine; trace shells; wet.
15		100%	SS		7		
16					3		16.0 to 18.0 feet: SILT with SAND (ML); grayish brown; 85% fines, low to medium plasticity; 15% sand, fine; trace shells; wet.
17					3		
18		67%	SS		3		18.0 to 28.8 feet: GRAVELLY SAND with SILT (SW); greenish gray; 10% fines, non plastic; 50% sand, fine to coarse; 40% gravels, fine to medium, some approximately 3-inches in diameter, subrounded; dry to damp.
19					8		
20					10		
					26		

NOTES: 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.

T:\PROJECTS\8006.08\MW5 - MW8.GPJ 2/6/06  
 GBLWC.WK

# Geologic Borehole Log/Well Construction

**Maul Foster & Alongi, Inc.**      Project Number: **8006.08.04**      Well Number: **MW7**      Sheet: **2 of 2**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
21			50%	SS				50/6"		
22										
23			50%	SS				50/6"		@ 22.5 feet: Increase in sand, decrease in fines; dry to damp.
24										
25			50%	SS				50/5"		@ 25.5 feet: Color change to yellowish brown with iron staining; increase in fines to 15%; dry.
26										
27										
28			50%	SS				50/5"		
29										28.8 to 29.0 feet: SAND with SILT (SP-SM); dark gray; 15% fines; 85% sand, fine; dry.
30			90%	SS				50/6"		29.0 to 32.5 feet: SAND with GRAVEL (SW); dark gray; trace fines; 85% sand, medium; 15% gravels, fine, subangular to subrounded; wet.
31										
32										
33			90%	SS				17 50/6"		32.5 to 33.5 feet: SAND (SP); dark gray; 100% sand, medium; trace gravels; wet.
34										33.5 to 35.5 feet: GRAVELLY SAND with SILT (SW); dark brown; 10% fines; 60% sand, fine; 30% gravels; dry.
35			100%	SS				50/6"		

Total Depth: 35.5 feet bgs.

W:\PROJECTS\8006.08\MW5 - MW8.GPJ 2/6/06

**NOTES:** 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.

GBLWC WAIG

Project Name **Precision Engineering**  
 Project Location **1231 S. Director Street, Seattle, WA 98108**  
 Start/End Date **12/15/05 to 12/15/05**  
 Driller/Equipment **Cascade Drilling/Hollow Stem Auger**  
 Geologist/Engineer **Merideth Gibson**  
 Sample Method **Split Spoon**

TOC Elevation (feet NGVD)  
 Surface Elevation (feet NGVD)  
 Northing  
 Easting  
 Hole Depth **20.2-feet**  
 Outer Hole Diam **10.25-inch**

Depth (feet, BGS)	Well Details	Interval	Percent Recovery	Collection Method	Sample Data			Blows/6"	Lithologic Column	Soil Description
					Number	Name (Type)				
0										0 to 0.5 feet: ASPHALT.
1										
2										
3			75%			SS		14		2.5 to 3.5 feet: SAND with GRAVEL; greenish gray; trace fines; 85% sand, fine; 15% gravels, fine to medium; dry.
4								23		
5			100%			SS		13		3.5 to 5.0 feet: SAND with SILT (SP-SM); gray with spots of black; 30% fines, non plastic; 70% sand, fine; trace hard substance with beads of white material in the center, strong odor; damp to moist.
6								2		
7								6		
8			100%			SS		9		5.0 to 8.0 feet: SANDY SILT (ML); dark blackish brown with lenses of greenish gray; 70% fines, non plastic; 30% sand; moist.  @ 6.0 feet: Color change to dark brown.
9								5		
10								8		
11			100%			SS		8		8.0 to 11.0 feet: SILT with SAND (ML); light grayish brown; 85% fines, medium plasticity; 15% sand, fine; trace organics; wet.
12								8		
13								7		
14								8		
15								14		
16			67%			SS		14		11.0 to 15.0 feet: SILT (ML); grayish brown; 95% fines, low plasticity; 5% sand, fine; wet.
17								17		
18								50/6"		
19			67%			SS		22		15.0 to 17.5 feet: GRAVELLY SAND with SILT NODULES(SW); dark brownish gray; 10% fines; 60% sand, medium; 30% gravels, fine to medium; wet.
20								50/6"		
20.2			34%			SS		50/3"		17.5 to 20.2 feet: GRAVEL with SILT and SAND (GW-GM); dark brownish gray; 10% fines; low plasticity; 10% sand, fine to medium; 80% gravels, medium to course; wet.

APROJECTS\8006.08\MW5 - MW8.GPJ 2/6/06

GBLWC WAGIN

**NOTES:** 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.



Maul Foster & Alongi, Inc.

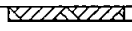
Geologic Borehole Log/Well Construction

Project Number  
8006.08.04

Well Number  
MWB

Sheet  
2 of 2

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



100% SS

50/2"

Total Depth: 20.2 feet bgs.

W:\PROJECTS\8006.08\MWB5 - MWB.GPJ 2/6/06

NOTES: 1.) SS = 2.5-inch x 1.5-foot long steel split spoon sampler. 2.) bgs = below ground surface.

**APPENDIX C**  
**WELL DEVELOPMENT FORMS**

## Well Development Form



Project No. 8006.08.04	Date 12/21/2005
Site Location: Seattle, WA	Well: MW-5
Name: Precision Engineering	Initial DTB: 19.60      Final DTB 19.66
Development Method: P-pump/Bailer	Initial DTW: 6.00      Final DTW 7.51
Total Water Removed 24.75 gallons	Pore Volume: 2.22 gallons
Water Contained Yes	Casing Diameter: 2"
Estimated Specific Capacity	Meter No.

Time	Cum. Vol Removed	Sand/Silt	pH	EC (µhos)	Temp	DO	Eh	Comments
7:43	2.25	660.00	7.14	1,471	18.7			Pump on at 7:28; stop pump and surge w/bailer.
7:54	4.50	396.00	6.73	1,487	19.2			Water is electric yellow/orange.
8:07	6.75	147.50	6.56	1,388	19.2			
8:17	9.00	77.30	6.12	1,346	19.1			
8:32	11.25	47.40	5.96	1,369	19.0			
8:46	13.50	13.89	5.89	1,337	19.2			
9:02	15.75	271.00	5.84	1,329	19.1			Stopped pump and surged w/bailer.
9:11	18.00	61.80	5.79	1,322	19.2			
9:22	20.25	21.50	5.76	1,316	19.1			
9:33	22.50	5.67	5.74	1,317	19.1			
9:46	24.75	3.32	5.71	1,314	19.0			

## Well Development Form



Project No. 8006.08.04	Date 12/16 & 21/2005
Site Location: Seattle, WA	Well: MW-6
Name: Precision Engineering	Initial DTB: 19.85      Final DTB 19.86
Development Method: P-pump/Bailer	Initial DTW: 5.09      Final DTW dry
Total Water Removed 41.5 gallons	Pore Volume: 2.40 gallons
Water Contained Yes	Casing Diameter: 2"
Estimated Specific Capacity	Meter No.

Time	Cum. Vol Removed	Sand/Silt	pH	EC (μhos)	Temp	DO	Eh	Comments
12:37	5.0	116.9	7.07	3,290	17.6			12/16/05. Conductivity won't calibrate. Orangish yellow color.
12:46	10.0	81.7	6.24	2,960	17.9			Surged right after 10.0 gal w/bailer.
12:58	12.5	228.0	6.34	2,900	17.3			Well went dry after approximately 14 gal.
14:02	15.0	121.9	6.49	1,913	17.2			Pump back on at 13:58. Clear w/yellowish tint. Surged w/bailer.
14:21	17.5	117.2	6.55	1,775	16.7			
14:55	20.0	49.5	6.52	1,722	15.5			
15:15	22.5	28.1	6.53	1,701	15.0			
13:24	25.0	127.1	6.78	1,866	16.6			12/21/05. Surged with bailer.
13:33	27.5	332.0	6.50	1,820	17.4			
13:41	30.0	122.3	6.46	1,751	17.6			
13:51	32.5	103.1	6.35	1,749	17.6			Yellow/orange in color.
14:03	35.0	60.7	6.36	1,767	17.3			
14:20	37.5	91.2	6.51	1,741	17.1			Well went dry.
15:05	40.0	47.1	6.55	1,800	17.0			Well went dry.
15:30	41.5	117.0	6.52	1,750	17.1			Well went dry.

## Well Development Form



Project No. 8006.08.04	Date 12/19 & 21/2005
Site Location: Seattle, WA	Well: MW-7
Name: Precision Engineering	Initial DTB: 30.00      Final DTB 31.3
Development Method: P-pump/Bailer	Initial DTW: 6.10      Final DTW dry
Total Water Removed 54.0 gallons	Pore Volume: 3.9 gallons
Water Contained Yes	Casing Diameter: 2"
Estimated Specific Capacity	Meter No.

Time	Cum. Vol Removed	Sand/Silt	pH	EC (μhos)	Temp	DO	Eh	Comments
11:19	8.0	358.0	7.75	2,080	15.5			12/19/05. Surged w/bailer before pumping.
11:49	12.0	644.0	7.47	1,970	16.9			
12:32	16.0	428.0	7.28	1,980	16.9			
13:06	20.0	342.0	7.16	2,060	16.4			Switch to a bailer.
13:32	24.0	411.0	7.15	1,980	16.3			
14:00	28.0	130.2	7.04	2,000	16.4			
14:25	32.0	87.3	7.02	2,000	16.4			
14:40	36.0	73.6	6.97	1,970	16.5			
15:00	40.0	50.1	6.96	1,970	16.4			
15:10	42.0	54.7	6.95	2,000	16.4			
10:33	43.0	474.0	6.78	1,555	16.5			12/21/05. DTB = 31.15 DTW = 5.49
10:45	44.0	173.2	6.82	1,199	16.0			Surge w/bailer.
10:52	45.0	171.2	6.76	1,194	16.7			
10:57	46.0	219.0	6.72	1,193	16.5			
11:08	48.0	98.6	6.74	1,190	16.2			
11:27	50.0	29.6	6.74	1,186	16.1			
11:43	52.0	15.05	6.75	1,176	16.1			
12:04	54.0	5.69	6.79	1,165	16.3			Clear w/slight yellow tint.

## Well Development Form



Project No. 8006.08.04	Date 12/19 & 20/2005
Site Location: Seattle, WA	Well: MW-8
Name: Precision Engineering	Initial DTB: 18.10      Final DTB 19.55
Development Method: P-pump/Bailer	Initial DTW: 3.90      Final DTW dry
Total Water Removed 29.0 gallons	Pore Volume: 2.3 gallons
Water Contained Yes	Casing Diameter: 2"
Estimated Specific Capacity	Meter No.

Time	Cum. Vol Removed	Sand/Silt	pH	EC (μhos)	Temp	DO	Eh	Comments
14:38	4.5	>1,000	7.02	2,040	16.7			Well went dry after one pore volume.
15:12	7.0	>1,000	6.93	1,970	16.5			Let recharge.
15:58	9.3	171.0	6.49	2,130	15.4			
7:36	11.6	689.0	7.23	2,260	16.0			12/20/05. Surge w/bailer. Sheen in purge water. Purge w/bailer.
8:33	13.9	726.0	7.16	2,220	15.5			
10:17	16.2	303.0	7.25	2,240	13.6			Switched back to p-pump.
11:04	18.5	429.0	6.79	2,100	15.5			
12:17	20.8	308.0	7.11	2,060	13.6			
13:30	23.1	115.6	6.58	2,010	15.4			
14:34	25.4	83.7	6.57	1,970	15.3			
15:12	26.5	63.4	6.52	1,960	15.2			
15:39	27.7	60.7	6.55	1,930	14.9			Yellow tint with sheen.
15:51	28.4	44.3	6.52	1,950	14.9			
16:05	29.0	27.7	6.53	1,974	14.8			

**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

30 December 2005

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665  
RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/14/05 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kate Haney For Jeff Gerdes  
Project Manager





**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP25-S-1.0	B5L0339-01	Soil	12/12/05 09:50	12/14/05 15:00
GP25-S-7.0	B5L0339-02	Soil	12/12/05 10:10	12/14/05 15:00
GP26-S-1.0	B5L0339-03	Soil	12/12/05 10:35	12/14/05 15:00
GP26-S-9.5	B5L0339-05	Soil	12/12/05 11:10	12/14/05 15:00
GP27-S-1.0	B5L0339-06	Soil	12/12/05 11:25	12/14/05 15:00
GP27-S-13.0	B5L0339-08	Soil	12/12/05 12:10	12/14/05 15:00
GP28-S-1.0	B5L0339-09	Soil	12/12/05 12:30	12/14/05 15:00
GP28-S-7.0	B5L0339-10	Soil	12/12/05 12:40	12/14/05 15:00
GP29-S-1.0	B5L0339-11	Soil	12/12/05 13:45	12/14/05 15:00
GP29-S-6.0	B5L0339-12	Soil	12/12/05 13:55	12/14/05 15:00
GP30-S-1.0	B5L0339-13	Soil	12/12/05 14:10	12/14/05 15:00
GP30-S-6.0	B5L0339-14	Soil	12/12/05 14:24	12/14/05 15:00
GP31-S-1.0	B5L0339-15	Soil	12/12/05 14:42	12/14/05 15:00
GP31-S-6.0	B5L0339-16	Soil	12/12/05 14:55	12/14/05 15:00
GP17-S-1.0	B5L0339-17	Soil	12/13/05 09:50	12/14/05 15:00
GP17-S-6.0	B5L0339-18	Soil	12/13/05 10:00	12/14/05 15:00
GP19-S-1.0	B5L0339-19	Soil	12/13/05 10:30	12/14/05 15:00
GPDUP-S-1.0	B5L0339-20	Soil	12/13/05 10:30	12/14/05 15:00
GP19-S-7.0	B5L0339-21	Soil	12/13/05 10:45	12/14/05 15:00
GP16-S-1.0	B5L0339-22	Soil	12/13/05 11:06	12/14/05 15:00
GP16-S-5.0	B5L0339-23	Soil	12/13/05 11:22	12/14/05 15:00
GP14-S-3.0	B5L0339-24	Soil	12/13/05 12:20	12/14/05 15:00
GP14-S-6.0	B5L0339-25	Soil	12/13/05 12:37	12/14/05 15:00
GP18-S-1.0	B5L0339-26	Soil	12/13/05 13:35	12/14/05 15:00
GP22-S-1.0	B5L0339-27	Soil	12/13/05 14:10	12/14/05 15:00
GP22-S-10.0	B5L0339-29	Soil	12/13/05 14:40	12/14/05 15:00
GPI2-S-3.0	B5L0339-30	Soil	12/13/05 15:00	12/14/05 15:00
GPI2-S-5.0	B5L0339-31	Soil	12/13/05 15:14	12/14/05 15:00
GP15-S-3.0	B5L0339-32	Soil	12/13/05 15:34	12/14/05 15:00

North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
12/30/05 15:53

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP15-S-6.0	B5L0339-33	Soil	12/13/05 15:45	12/14/05 15:00

Creek Analytical - Bothell

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Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
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Reported:  
 12/30/05 15:53

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP25-S-7.0 (B5L0339-02) Soil Sampled: 12/12/05 10:10 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	10.6	mg/kg dry	1	5L19046	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	26.6	"	"	"	"	"	"	
Surrogate: 2-FBP	81.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	94.5 %	50-150			"	"	"	"	
<b>GP26-S-1.0 (B5L0339-03) Soil Sampled: 12/12/05 10:35 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	36.4	10.9	mg/kg dry	1	5L19046	12/19/05	12/20/05	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	121	27.3	"	"	"	"	"	"	
Surrogate: 2-FBP	101 %	50-150			"	"	"	"	
Surrogate: Octacosane	102 %	50-150			"	"	"	"	
<b>GP26-S-9.5 (B5L0339-05) Soil Sampled: 12/12/05 11:10 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	10.8	mg/kg dry	1	5L19046	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.1	"	"	"	"	"	"	
Surrogate: 2-FBP	83.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	100 %	50-150			"	"	"	"	
<b>GP27-S-13.0 (B5L0339-08) Soil Sampled: 12/12/05 12:10 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	10.9	mg/kg dry	1	5L19046	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.2	"	"	"	"	"	"	
Surrogate: 2-FBP	84.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.7 %	50-150			"	"	"	"	
<b>GP28-S-1.0 (B5L0339-09) Soil Sampled: 12/12/05 12:30 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	10.8	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.0	"	"	"	"	"	"	
Surrogate: 2-FBP	81.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	101 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

*Kate Haney*

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP28-S-7.0 (B5L0339-10) Soil Sampled: 12/12/05 12:40 Received: 12/14/05 15:00**

Diesel Range Hydrocarbons	ND	10.4	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	26.0	"	"	"	"	"	"	
Surrogate: 2-FBP	84.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	106 %	50-150			"	"	"	"	

**GP29-S-1.0 (B5L0339-11) Soil Sampled: 12/12/05 13:45 Received: 12/14/05 15:00**

Diesel Range Hydrocarbons	80.4	11.8	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	249	29.5	"	"	"	"	"	"	
Surrogate: 2-FBP	85.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.7 %	50-150			"	"	"	"	

**GP29-S-6.0 (B5L0339-12) Soil Sampled: 12/12/05 13:55 Received: 12/14/05 15:00**

Diesel Range Hydrocarbons	ND	12.8	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	32.0	"	"	"	"	"	"	
Surrogate: 2-FBP	77.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	95.3 %	50-150			"	"	"	"	

**GP30-S-1.0 (B5L0339-13) Soil Sampled: 12/12/05 14:10 Received: 12/14/05 15:00**

Diesel Range Hydrocarbons	14.9	11.9	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	90.5	29.6	"	"	"	"	"	"	
Surrogate: 2-FBP	82.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.0 %	50-150			"	"	"	"	

**GP30-S-6.0 (B5L0339-14) Soil Sampled: 12/12/05 14:24 Received: 12/14/05 15:00**

Diesel Range Hydrocarbons	39.6	14.5	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	165	36.2	"	"	"	"	"	"	
Surrogate: 2-FBP	85.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.5 %	50-150			"	"	"	"	

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*Kate Haney*

Kate Haney For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Semivolatle Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP31-S-1.0 (B5L0339-15) Soil Sampled: 12/12/05 14:42 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	145	119	mg/kg dry	10	5L19047	12/19/05	12/20/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	1300	297	"	"	"	"	"	"	
Surrogate: 2-FBP	79.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	111 %	50-150			"	"	"	"	
<b>GP31-S-6.0 (B5L0339-16) Soil Sampled: 12/12/05 14:55 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	58.9	13.5	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	157	33.8	"	"	"	"	"	"	
Surrogate: 2-FBP	85.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	101 %	50-150			"	"	"	"	
<b>GP17-S-1.0 (B5L0339-17) Soil Sampled: 12/13/05 09:50 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	11.6	11.5	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	63.1	28.6	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	86.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.3 %	50-150			"	"	"	"	
<b>GP19-S-1.0 (B5L0339-19) Soil Sampled: 12/13/05 10:30 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	52.8	12.4	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	172	30.9	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	82.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	94.2 %	50-150			"	"	"	"	
<b>GPDUP-S-1.0 (B5L0339-20) Soil Sampled: 12/13/05 10:30 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	18.2	11.5	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	43.8	28.7	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	86.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	99.9 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 12/30/05 15:53

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP19-S-7.0 (B5L0339-21) Soil Sampled: 12/13/05 10:45 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	14.5	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	56.7	36.3	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	86.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	99.2 %	50-150			"	"	"	"	
<b>GP16-S-5.0 (B5L0339-23) Soil Sampled: 12/13/05 11:22 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	11.2	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	28.0	"	"	"	"	"	"	
Surrogate: 2-FBP	74.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.8 %	50-150			"	"	"	"	
<b>GP14-S-6.0 (B5L0339-25) Soil Sampled: 12/13/05 12:37 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	10.8	mg/kg dry	1	5L19047	12/19/05	12/20/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	26.9	"	"	"	"	"	"	
Surrogate: 2-FBP	81.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	103 %	50-150			"	"	"	"	
<b>GP18-S-1.0 (B5L0339-26) Soil Sampled: 12/13/05 13:35 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	156	56.5	mg/kg dry	5	5L19047	12/19/05	12/21/05	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	742	141	"	"	"	"	"	"	
Surrogate: 2-FBP	74.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	95.5 %	50-150			"	"	"	"	
<b>GP22-S-10.0 (B5L0339-29) Soil Sampled: 12/13/05 14:40 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	11.3	mg/kg dry	1	5L19047	12/19/05	12/21/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	28.2	"	"	"	"	"	"	
Surrogate: 2-FBP	79.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	99.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 12/30/05 15:53

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP12-S-3.0 (B5L0339-30) Soil Sampled: 12/13/05 15:00 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	ND	10.7	mg/kg dry	1	5L19047	12/19/05	12/21/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	26.6	"	"	"	"	"	"	
Surrogate: 2-FBP	88.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	104 %	50-150			"	"	"	"	
<b>GP15-S-3.0 (B5L0339-32) Soil Sampled: 12/13/05 15:34 Received: 12/14/05 15:00</b>									
Diesel Range Hydrocarbons	17.7	11.8	mg/kg dry	1	5L19047	12/19/05	12/21/05	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	59.1	29.4	"	"	"	"	"	"	
Surrogate: 2-FBP	84.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.8 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP25-S-1.0 (B5L0339-01) Soil Sampled: 12/12/05 09:50 Received: 12/14/05 15:00									
Chromium	19.3	0.535	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
GP25-S-7.0 (B5L0339-02) Soil Sampled: 12/12/05 10:10 Received: 12/14/05 15:00									
Chromium	19.8	0.557	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
GP26-S-1.0 (B5L0339-03) Soil Sampled: 12/12/05 10:35 Received: 12/14/05 15:00									
Chromium	23.7	0.544	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
GP26-S-9.5 (B5L0339-05) Soil Sampled: 12/12/05 11:10 Received: 12/14/05 15:00									
Chromium	24.0	0.565	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
GP27-S-1.0 (B5L0339-06) Soil Sampled: 12/12/05 11:25 Received: 12/14/05 15:00									
Chromium	22.0	0.544	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
GP27-S-13.0 (B5L0339-08) Soil Sampled: 12/12/05 12:10 Received: 12/14/05 15:00									
Chromium	18.6	0.559	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
GP27-S-1.0 (B5L0339-09) Soil Sampled: 12/12/05 12:30 Received: 12/14/05 15:00									
Silver	ND	0.542	mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
Arsenic	1.89	0.542	"	"	"	"	"	"	
Beryllium	ND	0.542	"	"	"	"	"	"	
Cadmium	ND	0.542	"	"	"	"	"	"	
Chromium	20.5	0.542	"	"	"	"	"	"	
Copper	12.6	0.542	"	"	"	"	"	"	
Mercury	ND	0.144	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	22.5	0.542	"	"	5L16063	12/16/05	12/20/05	EPA 6020	
Lead	1.54	0.542	"	"	"	"	"	"	
Antimony	ND	1.63	"	"	"	"	12/28/05	"	
Selenium	ND	0.542	"	"	"	"	12/20/05	"	
Thallium	ND	0.542	"	"	"	"	"	"	
Zinc	24.9	5.42	"	"	"	"	"	"	

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North Creek Analytical, Inc.  
 Environmental Laboratory Network





**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Sulte F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
<b>GP28-S-7.0 (B5L0339-10) Soil Sampled: 12/12/05 12:40 Received: 12/14/05 15:00</b>										
Chromium	22.4	0.508	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020		
<b>GP29-S-1.0 (B5L0339-11) Soil Sampled: 12/12/05 13:45 Received: 12/14/05 15:00</b>										
Silver	ND	0.577	mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020		
Arsenic	5.91	0.577	"	"	"	"	"	"	"	
Beryllium	ND	0.577	"	"	"	"	"	"	"	
Cadmium	ND	0.577	"	"	"	"	"	"	"	
Chromium	29.6	0.577	"	"	"	"	"	"	"	
Copper	15.6	0.577	"	"	"	"	"	"	"	
Mercury	0.876	0.147	"	"	5L20033	12/20/05	12/22/05	EPA 7471A		
Nickel	27.0	0.577	"	"	5L16063	12/16/05	12/20/05	EPA 6020		
Lead	18.0	0.577	"	"	"	"	"	"	"	
Antimony	ND	1.73	"	"	"	"	12/28/05	"	"	
Selenium	ND	0.577	"	"	"	"	12/20/05	"	"	
Thallium	ND	0.577	"	"	"	"	"	"	"	
Zinc	36.9	5.77	"	"	"	"	"	"	"	
<b>GP29-S-6.0 (B5L0339-12) Soil Sampled: 12/12/05 13:55 Received: 12/14/05 15:00</b>										
Chromium	31.9	0.602	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020		
<b>GP30-S-1.0 (B5L0339-13) Soil Sampled: 12/12/05 14:10 Received: 12/14/05 15:00</b>										
Chromium	27.2	0.535	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020		
<b>GP30-S-6.0 (B5L0339-14) Soil Sampled: 12/12/05 14:24 Received: 12/14/05 15:00</b>										
Chromium	32.7	0.746	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020		

North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332-Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>GP31-S-1.0 (B5L0339-15) Soil Sampled: 12/12/05 14:42 Received: 12/14/05 15:00</b>										
Silver	ND	0.549		mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
Arsenic	5.72	0.549		"	"	"	"	"	"	
Beryllium	ND	0.549		"	"	"	"	"	"	
Cadmium	ND	0.549		"	"	"	"	"	"	
Chromium	19.2	0.549		"	"	"	"	"	"	
Copper	40.2	0.549		"	"	"	"	"	"	
Mercury	ND	0.131		"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	14.4	0.549		"	"	5L16063	12/16/05	12/20/05	EPA 6020	
Lead	14.2	0.549		"	"	"	"	"	"	
Antimony	ND	1.65		"	"	"	"	12/28/05	"	
Selenium	ND	0.549		"	"	"	"	12/20/05	"	
Thallium	ND	0.549		"	"	"	"	"	"	
Zinc	46.1	5.49		"	"	"	"	"	"	
<b>1-S-6.0 (B5L0339-16) Soil Sampled: 12/12/05 14:55 Received: 12/14/05 15:00</b>										
Chromium	23.6	0.654		mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
<b>GP17-S-1.0 (B5L0339-17RE1) Soil Sampled: 12/13/05 09:50 Received: 12/14/05 15:00</b>										
Chromium	254	1.16		mg/kg dry	2	5L16062	12/16/05	12/22/05	EPA 6020	
<b>GP17-S-6.0 (B5L0339-18RE1) Soil Sampled: 12/13/05 10:00 Received: 12/14/05 15:00</b>										
Chromium	1660	5.78		mg/kg dry	10	5L16062	12/16/05	12/22/05	EPA 6020	
<b>GP19-S-1.0 (B5L0339-19) Soil Sampled: 12/13/05 10:30 Received: 12/14/05 15:00</b>										
Chromium	22.0	0.652		mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP16-S-1.0 (B5L0339-20) Soil</b> Sampled: 12/13/05 10:30 Received: 12/14/05 15:00									
Chromium	24.8	0.536	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
<b>GP19-S-7.0 (B5L0339-21) Soil</b> Sampled: 12/13/05 10:45 Received: 12/14/05 15:00									
Chromium	27.1	0.692	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
<b>GP16-S-1.0 (B5L0339-22) Soil</b> Sampled: 12/13/05 11:06 Received: 12/14/05 15:00									
Chromium	30.0	0.493	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
<b>GP16-S-5.0 (B5L0339-23) Soil</b> Sampled: 12/13/05 11:22 Received: 12/14/05 15:00									
Chromium	26.2	0.555	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
<b>GP14-S-3.0 (B5L0339-24) Soil</b> Sampled: 12/13/05 12:20 Received: 12/14/05 15:00									
Silver	ND	0.609	mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
Arsenic	3.00	0.609	"	"	"	"	"	"	
Beryllium	ND	0.609	"	"	"	"	"	"	
Cadmium	ND	0.609	"	"	"	"	"	"	
Chromium	24.8	0.609	"	"	"	"	"	"	
Copper	14.4	0.609	"	"	"	"	"	"	
Mercury	ND	0.120	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	32.9	0.609	"	"	5L16063	12/16/05	12/20/05	EPA 6020	
Lead	2.20	0.609	"	"	"	"	"	"	
Antimony	ND	1.83	"	"	"	"	12/28/05	"	
Selenium	ND	0.609	"	"	"	"	12/20/05	"	
Thallium	ND	0.609	"	"	"	"	"	"	
Zinc	38.4	6.09	"	"	"	"	"	"	

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North Creek Analytical, Inc.  
 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 12/30/05 15:53
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**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP14-S-6.0 (B5L0339-25) Soil Sampled: 12/13/05 12:37 Received: 12/14/05 15:00</b>									
Chromium	31.4	0.520	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
<b>GP18-S-1.0 (B5L0339-26) Soil Sampled: 12/13/05 13:35 Received: 12/14/05 15:00</b>									
Silver	ND	0.615	mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
Arsenic	3.55	0.615	"	"	"	"	"	"	
Beryllium	ND	0.615	"	"	"	"	"	"	
Cadmium	ND	0.615	"	"	"	"	"	"	
Copper	113	0.615	"	"	"	"	"	"	
Mercury	1.10	0.140	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	23.1	0.615	"	"	5L16063	12/16/05	12/20/05	EPA 6020	
Lead	26.3	0.615	"	"	"	"	12/27/05	"	
Antimony	ND	1.84	"	"	"	"	12/28/05	"	
Selenium	ND	0.615	"	"	"	"	12/20/05	"	
Thallium	ND	0.615	"	"	"	"	12/27/05	"	
	40.9	6.15	"	"	"	"	12/20/05	"	
<b>GP18-S-1.0 (B5L0339-26RE1) Soil Sampled: 12/13/05 13:35 Received: 12/14/05 15:00</b>									
Chromium	4430	30.7	mg/kg dry	50	5L16063	12/16/05	12/23/05	EPA 6020	
<b>GP22-S-1.0 (B5L0339-27) Soil Sampled: 12/13/05 14:10 Received: 12/14/05 15:00</b>									
Chromium	46.8	0.551	mg/kg dry	1	5L16062	12/16/05	12/19/05	EPA 6020	
<b>GP22-S-10.0 (B5L0339-29) Soil Sampled: 12/13/05 14:40 Received: 12/14/05 15:00</b>									
Chromium	32.1	0.548	mg/kg dry	1	5L16063	12/16/05	12/23/05	EPA 6020	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP12-S-3.0 (B5L0339-30) Soil Sampled: 12/13/05 15:00 Received: 12/14/05 15:00</b>									
Silver	ND	0.591	mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
Arsenic	2.79	0.591	"	"	"	"	"	"	
Beryllium	ND	0.591	"	"	"	"	"	"	
Cadmium	ND	0.591	"	"	"	"	"	"	
Chromium	24.3	0.591	"	"	"	"	"	"	
Copper	17.6	0.591	"	"	"	"	"	"	
Mercury	ND	0.131	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	25.6	0.591	"	"	5L16063	12/16/05	12/20/05	EPA 6020	
Lead	2.45	0.591	"	"	"	"	12/27/05	"	
Antimony	ND	1.77	"	"	"	"	12/28/05	"	
Selenium	ND	0.591	"	"	"	"	12/20/05	"	
Thallium	ND	0.591	"	"	"	"	12/27/05	"	
Zinc	32.9	5.91	"	"	"	"	12/20/05	"	
<b>GP12-S-5.0 (B5L0339-31) Soil Sampled: 12/13/05 15:14 Received: 12/14/05 15:00</b>									
Chromium	25.2	0.566	mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
<b>GP15-S-3.0 (B5L0339-32) Soil Sampled: 12/13/05 15:34 Received: 12/14/05 15:00</b>									
Silver	ND	0.529	mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
Arsenic	7.76	0.529	"	"	"	"	"	"	
Beryllium	ND	0.529	"	"	"	"	"	"	
Cadmium	0.714	0.529	"	"	"	"	"	"	
Chromium	24.7	0.529	"	"	"	"	"	"	
Copper	30.4	0.529	"	"	"	"	"	"	
Mercury	ND	0.154	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	16.4	0.529	"	"	5L16063	12/16/05	12/20/05	EPA 6020	
Lead	18.7	0.529	"	"	"	"	12/27/05	"	
Antimony	ND	1.59	"	"	"	"	12/28/05	"	
Selenium	ND	0.529	"	"	"	"	12/20/05	"	
Thallium	ND	0.529	"	"	"	"	12/27/05	"	
Zinc	71.6	5.29	"	"	"	"	12/20/05	"	

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 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

GP15-S-6.0 (B5L0339-33) Soil Sampled: 12/13/05 15:45 Received: 12/14/05 15:00

Chromium	20.2	0.808		mg/kg dry	1	5L16063	12/16/05	12/20/05	EPA 6020	
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 Vancouver, WA/USA 98665

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP25-S-1.0 (B5L0339-01) Soil Sampled: 12/12/05 09:50 Received: 12/14/05 15:00**

2-Butanone	ND	12.8	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.56	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.13	"	"	"	"	"	"	
Trichloroethene	ND	2.13	"	"	"	"	"	"	
Vinyl chloride	ND	2.13	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	93.9 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	112 %	60-140			"	"	"	"	
Surrogate: 4-BFB	96.5 %	60-140			"	"	"	"	

**GP25-S-7.0 (B5L0339-02) Soil Sampled: 12/12/05 10:10 Received: 12/14/05 15:00**

2-Butanone	ND	14.8	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.97	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.47	"	"	"	"	"	"	
Trichloroethene	ND	2.47	"	"	"	"	"	"	
Vinyl chloride	ND	2.47	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	96.0 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	121 %	60-140			"	"	"	"	
Surrogate: 4-BFB	118 %	60-140			"	"	"	"	

**GP26-S-1.0 (B5L0339-03) Soil Sampled: 12/12/05 10:35 Received: 12/14/05 15:00**

2-Butanone	ND	12.1	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.41	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.01	"	"	"	"	"	"	
Trichloroethene	ND	2.01	"	"	"	"	"	"	
Vinyl chloride	ND	2.01	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	101 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	120 %	60-140			"	"	"	"	
Surrogate: 4-BFB	119 %	60-140			"	"	"	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP26-S-9.5 (B5L0339-05) Soil Sampled: 12/12/05 11:10 Received: 12/14/05 15:00**

2-Butanone	ND	15.9	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.65	"	"	"	"	"	"	
Trichloroethene	ND	2.65	"	"	"	"	"	"	
Vinyl chloride	ND	2.65	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	98.3 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	124 %	60-140			"	"	"	"	
Surrogate: 4-BFB	119 %	60-140			"	"	"	"	

**GP27-S-1.0 (B5L0339-06) Soil Sampled: 12/12/05 11:25 Received: 12/14/05 15:00**

2-Butanone	ND	13.2	ug/kg dry	1	5L19039	12/19/05	12/19/05	EPA 8260B	Q-41
cis-1,2-Dichloroethene	ND	2.63	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.19	"	"	"	"	"	"	
Trichloroethene	ND	2.19	"	"	"	"	"	"	
Vinyl chloride	ND	2.19	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	121 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	126 %	60-140			"	"	"	"	
Surrogate: 4-BFB	127 %	60-140			"	"	"	"	

**GP27-S-13.0 (B5L0339-08) Soil Sampled: 12/12/05 12:10 Received: 12/14/05 15:00**

2-Butanone	ND	12.3	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.45	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.05	"	"	"	"	"	"	
Trichloroethene	ND	2.05	"	"	"	"	"	"	
Vinyl chloride	ND	2.05	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	79.8 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	85.6 %	60-140			"	"	"	"	
Surrogate: 4-BFB	62.7 %	60-140			"	"	"	"	

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP28-S-1.0 (B5L0339-09) Soil Sampled: 12/12/05 12:30 Received: 12/14/05 15:00**

2-Butanone	ND	11.2	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.24	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.87	"	"	"	"	"	"	
Trichloroethene	ND	1.87	"	"	"	"	"	"	
Vinyl chloride	ND	1.87	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.0 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	113 %	60-140			"	"	"	"	
Surrogate: 4-BFB	99.3 %	60-140			"	"	"	"	

**GP28-S-7.0 (B5L0339-10) Soil Sampled: 12/12/05 12:40 Received: 12/14/05 15:00**

2-Butanone	ND	13.0	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.61	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.17	"	"	"	"	"	"	
Trichloroethene	ND	2.17	"	"	"	"	"	"	
Vinyl chloride	ND	2.17	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	97.4 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	108 %	60-140			"	"	"	"	
Surrogate: 4-BFB	98.6 %	60-140			"	"	"	"	

**GP29-S-1.0 (B5L0339-11) Soil Sampled: 12/12/05 13:45 Received: 12/14/05 15:00**

2-Butanone	ND	14.8	ug/kg dry	1	5L16042	12/16/05	12/16/05	EPA 8260B	
cis-1,2-Dichloroethene	4.94	2.97	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.47	"	"	"	"	"	"	
Trichloroethene	ND	2.47	"	"	"	"	"	"	
Vinyl chloride	ND	2.47	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	104 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	114 %	60-140			"	"	"	"	
Surrogate: 4-BFB	107 %	60-140			"	"	"	"	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP29-S-6.0 (B5L0339-12) Soil Sampled: 12/12/05 13:55 Received: 12/14/05 15:00**

2-Butanone	ND	14.6	ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	9.96	2.91	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.43	"	"	"	"	"	"	
Trichloroethene	ND	2.43	"	"	"	"	"	"	
Vinyl chloride	ND	2.43	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	117 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	122 %	60-140			"	"	"	"	
Surrogate: 4-BFB	116 %	60-140			"	"	"	"	

**GP30-S-1.0 (B5L0339-13) Soil Sampled: 12/12/05 14:10 Received: 12/14/05 15:00**

2-Butanone	16.9	14.3	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.87	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.39	"	"	"	"	"	"	
Trichloroethene	ND	2.39	"	"	"	"	"	"	
Vinyl chloride	ND	2.39	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.0 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	109 %	60-140			"	"	"	"	
Surrogate: 4-BFB	96.6 %	60-140			"	"	"	"	

**GP30-S-6.0 (B5L0339-14) Soil Sampled: 12/12/05 14:24 Received: 12/14/05 15:00**

2-Butanone	52.6	19.9	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.99	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.32	"	"	"	"	"	"	
Trichloroethene	ND	3.32	"	"	"	"	"	"	
Vinyl chloride	ND	3.32	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	102 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	125 %	60-140			"	"	"	"	
Surrogate: 4-BFB	134 %	60-140			"	"	"	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP31-S-1.0 (B5L0339-15) Soil Sampled: 12/12/05 14:42 Received: 12/14/05 15:00**

2-Butanone	ND	12.1	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.42	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.02	"	"	"	"	"	"	
Trichloroethene	ND	2.02	"	"	"	"	"	"	
Vinyl chloride	ND	2.02	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	93.2 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	60-140			"	"	"	"	
Surrogate: 4-BFB	76.8 %	60-140			"	"	"	"	

**GP31-S-6.0 (B5L0339-16) Soil Sampled: 12/12/05 14:55 Received: 12/14/05 15:00**

2-Butanone	56.8	20.4	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	4.09	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.41	"	"	"	"	"	"	
Trichloroethene	ND	3.41	"	"	"	"	"	"	
Vinyl chloride	ND	3.41	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	77.8 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	84.8 %	60-140			"	"	"	"	
Surrogate: 4-BFB	64.4 %	60-140			"	"	"	"	

**GP17-S-1.0 (B5L0339-17) Soil Sampled: 12/13/05 09:50 Received: 12/14/05 15:00**

2-Butanone	29.5	12.5	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.51	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.09	"	"	"	"	"	"	
Trichloroethene	ND	2.09	"	"	"	"	"	"	
Vinyl chloride	ND	2.09	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	108 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	121 %	60-140			"	"	"	"	
Surrogate: 4-BFB	128 %	60-140			"	"	"	"	

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Kate Haney For Jeff Gerdes, Project Manager

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 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**GP17-S-6.0 (B5L0339-18) Soil Sampled: 12/13/05 10:00 Received: 12/14/05 15:00**

2-Butanone	22.3	13.6		ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.72		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.27		"	"	"	"	"	"	
Trichloroethene	ND	2.27		"	"	"	"	"	"	
Vinyl chloride	ND	2.27		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	110 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	115 %	60-140				"	"	"	"	
Surrogate: 4-BFB	112 %	60-140				"	"	"	"	

**GP19-S-1.0 (B5L0339-19) Soil Sampled: 12/13/05 10:30 Received: 12/14/05 15:00**

2-Butanone	60.1	16.0		ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.20		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.67		"	"	"	"	"	"	
Trichloroethene	ND	2.67		"	"	"	"	"	"	
Vinyl chloride	ND	2.67		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	90.9 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	88.8 %	60-140				"	"	"	"	
Surrogate: 4-BFB	80.8 %	60-140				"	"	"	"	

**GPDUP-S-1.0 (B5L0339-20) Soil Sampled: 12/13/05 10:30 Received: 12/14/05 15:00**

2-Butanone	37.5	14.4		ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.88		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.40		"	"	"	"	"	"	
Trichloroethene	ND	2.40		"	"	"	"	"	"	
Vinyl chloride	ND	2.40		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	110 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	111 %	60-140				"	"	"	"	
Surrogate: 4-BFB	106 %	60-140				"	"	"	"	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 12/30/05 15:53
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP19-S-7.0 (B5L0339-21) Soil** Sampled: 12/13/05 10:45 Received: 12/14/05 15:00

2-Butanone	ND	16.3	ug/kg dry	1	5L22045	12/22/05	12/22/05	EPA 8260B	Q-41
cis-1,2-Dichloroethene	ND	3.26	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.72	"	"	"	"	"	"	
Trichloroethene	ND	2.72	"	"	"	"	"	"	
Vinyl chloride	ND	2.72	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	88.2 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	89.9 %	60-140			"	"	"	"	
Surrogate: 4-BFB	68.0 %	60-140			"	"	"	"	

**GP16-S-1.0 (B5L0339-22) Soil** Sampled: 12/13/05 11:06 Received: 12/14/05 15:00

2-Butanone	ND	11.1	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.22	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.85	"	"	"	"	"	"	
Trichloroethene	3.63	1.85	"	"	"	"	"	"	
Vinyl chloride	ND	1.85	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	114 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	118 %	60-140			"	"	"	"	
Surrogate: 4-BFB	115 %	60-140			"	"	"	"	

**GP16-S-5.0 (B5L0339-23) Soil** Sampled: 12/13/05 11:22 Received: 12/14/05 15:00

2-Butanone	ND	12.7	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.55	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.12	"	"	"	"	"	"	
Trichloroethene	ND	2.12	"	"	"	"	"	"	
Vinyl chloride	ND	2.12	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	111 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	119 %	60-140			"	"	"	"	
Surrogate: 4-BFB	112 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP14-S-3.0 (BSL0339-24) Soil Sampled: 12/13/05 12:20 Received: 12/14/05 15:00**

2-Butanone	ND	14.7	ug/kg dry	1	5L20051	12/20/05	12/20/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.93	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.44	"	"	"	"	"	"	
Trichloroethene	4.49	2.44	"	"	"	"	"	"	
Vinyl chloride	ND	2.44	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	114 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	121 %	60-140			"	"	"	"	
Surrogate: 4-BFB	118 %	60-140			"	"	"	"	

**GP14-S-6.0 (BSL0339-25) Soil Sampled: 12/13/05 12:37 Received: 12/14/05 15:00**

2-Butanone	ND	15.7	ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.15	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.62	"	"	"	"	"	"	
Trichloroethene	ND	2.62	"	"	"	"	"	"	
Vinyl chloride	ND	2.62	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	116 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	115 %	60-140			"	"	"	"	
Surrogate: 4-BFB	111 %	60-140			"	"	"	"	

**GP18-S-1.0 (BSL0339-26) Soil Sampled: 12/13/05 13:35 Received: 12/14/05 15:00**

2-Butanone	ND	14.2	ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.83	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.36	"	"	"	"	"	"	
Trichloroethene	3.43	2.36	"	"	"	"	"	"	
Vinyl chloride	ND	2.36	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	117 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	120 %	60-140			"	"	"	"	
Surrogate: 4-BFB	121 %	60-140			"	"	"	"	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP22-S-1.0 (B5L0339-27) Soil Sampled: 12/13/05 14:10 Received: 12/14/05 15:00**

2-Butanone	ND	13.6	ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.72	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.26	"	"	"	"	"	"	
Trichloroethene	ND	2.26	"	"	"	"	"	"	
Vinyl chloride	ND	2.26	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	130 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	120 %	60-140			"	"	"	"	
Surrogate: 4-BFB	121 %	60-140			"	"	"	"	

**GP22-S-10.0 (B5L0339-29) Soil Sampled: 12/13/05 14:40 Received: 12/14/05 15:00**

2-Butanone	12.8	11.4	ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.27	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.89	"	"	"	"	"	"	
Trichloroethene	ND	1.89	"	"	"	"	"	"	
Vinyl chloride	ND	1.89	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	126 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	117 %	60-140			"	"	"	"	
Surrogate: 4-BFB	119 %	60-140			"	"	"	"	

**GP12-S-3.0 (B5L0339-30) Soil Sampled: 12/13/05 15:00 Received: 12/14/05 15:00**

2-Butanone	ND	14.3	ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.86	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.39	"	"	"	"	"	"	
Trichloroethene	ND	2.39	"	"	"	"	"	"	
Vinyl chloride	ND	2.39	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	122 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	114 %	60-140			"	"	"	"	
Surrogate: 4-BFB	97.4 %	60-140			"	"	"	"	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**GP12-S-5.0 (B5L0339-31) Soil Sampled: 12/13/05 15:14 Received: 12/14/05 15:00**

2-Butanone	ND	13.6		ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.73		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.27		"	"	"	"	"	"	
Trichloroethene	ND	2.27		"	"	"	"	"	"	
Vinyl chloride	ND	2.27		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	130 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	132 %	60-140				"	"	"	"	
Surrogate: 4-BFB	127 %	60-140				"	"	"	"	

**GP15-S-3.0 (B5L0339-32) Soil Sampled: 12/13/05 15:34 Received: 12/14/05 15:00**

2-Butanone	123	16.3		ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.26		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.72		"	"	"	"	"	"	
oroethene	ND	2.72		"	"	"	"	"	"	
chloride	ND	2.72		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	113 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	106 %	60-140				"	"	"	"	
Surrogate: 4-BFB	102 %	60-140				"	"	"	"	

**GP15-S-6.0 (B5L0339-33) Soil Sampled: 12/13/05 15:45 Received: 12/14/05 15:00**

2-Butanone	ND	63.0		ug/kg dry	1	5L23011	12/23/05	12/23/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	12.6		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10.5		"	"	"	"	"	"	
Trichloroethene	ND	10.5		"	"	"	"	"	"	
Vinyl chloride	ND	10.5		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	107 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	101 %	60-140				"	"	"	"	
Surrogate: 4-BFB	112 %	60-140				"	"	"	"	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223-NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP25-S-1.0 (B5L0339-01) Soil Sampled: 12/12/05 09:50 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.8	mg/kg dry	1	5L20049	12/20/05	12/20/05	EPA 7196A	
<b>GP25-S-7.0 (B5L0339-02) Soil Sampled: 12/12/05 10:10 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.7	mg/kg dry	1	5L20049	12/20/05	12/20/05	EPA 7196A	
<b>GP26-S-1.0 (B5L0339-03) Soil Sampled: 12/12/05 10:35 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.2	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP26-S-9.5 (B5L0339-05) Soil Sampled: 12/12/05 11:10 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.1	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP27-S-1.0 (B5L0339-06) Soil Sampled: 12/12/05 11:25 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.2	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP27-S-13.0 (B5L0339-08) Soil Sampled: 12/12/05 12:10 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.1	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP28-S-1.0 (B5L0339-09) Soil Sampled: 12/12/05 12:30 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.2	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP28-S-7.0 (B5L0339-10) Soil Sampled: 12/12/05 12:40 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.8	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP29-S-1.0 (B5L0339-11) Soil Sampled: 12/12/05 13:45 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.4	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP29-S-6.0 (B5L0339-12) Soil</b> Sampled: 12/12/05 13:55 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	2.6	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP30-S-1.0 (B5L0339-13) Soil</b> Sampled: 12/12/05 14:10 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	2.1	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP30-S-6.0 (B5L0339-14) Soil</b> Sampled: 12/12/05 14:24 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	2.4	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP31-S-1.0 (B5L0339-15) Soil</b> Sampled: 12/12/05 14:42 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	2.1	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP31-S-6.0 (B5L0339-16) Soil</b> Sampled: 12/12/05 14:55 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	3.0	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP17-S-1.0 (B5L0339-17) Soil</b> Sampled: 12/13/05 09:50 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	1.7	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP17-S-6.0 (B5L0339-18) Soil</b> Sampled: 12/13/05 10:00 Received: 12/14/05 15:00									
Hexavalent Chromium	60	2.6	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP19-S-1.0 (B5L0339-19) Soil</b> Sampled: 12/13/05 10:30 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	2.5	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GPDUP-S-1.0 (B5L0339-20) Soil</b> Sampled: 12/13/05 10:30 Received: 12/14/05 15:00									
Hexavalent Chromium	ND	2.0	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

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**Conventional Chemistry Parameters by APHA/EPA Methods  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP19-S-7.0 (B5L0339-21) Soil Sampled: 12/13/05 10:45 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.7	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP16-S-1.0 (B5L0339-22) Soil Sampled: 12/13/05 11:06 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.1	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP16-S-5.0 (B5L0339-23) Soil Sampled: 12/13/05 11:22 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.1	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP14-S-3.0 (B5L0339-24) Soil Sampled: 12/13/05 12:20 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	2.0	mg/kg dry	1	5L27052	12/27/05	12/27/05	EPA 7196A	
<b>GP14-S-6.0 (B5L0339-25) Soil Sampled: 12/13/05 12:37 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	1.2	1.1	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP18-S-1.0 (B5L0339-26) Soil Sampled: 12/13/05 13:35 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	2300	1.0	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP22-S-1.0 (B5L0339-27) Soil Sampled: 12/13/05 14:10 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	2.9	1.0	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP22-S-10.0 (B5L0339-29) Soil Sampled: 12/13/05 14:40 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.3	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP12-S-3.0 (B5L0339-30) Soil Sampled: 12/13/05 15:00 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.1	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP12-S-5.0 (B5L0339-31) Soil Sampled: 12/13/05 15:14 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.0	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP15-S-3.0 (B5L0339-32) Soil Sampled: 12/13/05 15:34 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.2	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP15-S-6.0 (B5L0339-33) Soil Sampled: 12/13/05 15:45 Received: 12/14/05 15:00</b>									
Hexavalent Chromium	ND	1.2	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	

North Creek Analytical - Bothell

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 12/30/05 15:53
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**Physical Parameters by APHA/ASTM/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP25-S-1.0 (B5L0339-01) Soil Sampled: 12/12/05 09:50 Received: 12/14/05 15:00</b>									
Dry Weight	93.4	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSPL003R08	
<b>GP25-S-7.0 (B5L0339-02) Soil Sampled: 12/12/05 10:10 Received: 12/14/05 15:00</b>									
Dry Weight	92.6	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP26-S-1.0 (B5L0339-03) Soil Sampled: 12/12/05 10:35 Received: 12/14/05 15:00</b>									
Dry Weight	90.1	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP26-S-9.5 (B5L0339-05) Soil Sampled: 12/12/05 11:10 Received: 12/14/05 15:00</b>									
Dry Weight	93.1	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP27-S-1.0 (B5L0339-06) Soil Sampled: 12/12/05 11:25 Received: 12/14/05 15:00</b>									
Dry Weight	91.9	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSPL003R08	
<b>GP27-S-13.0 (B5L0339-08) Soil Sampled: 12/12/05 12:10 Received: 12/14/05 15:00</b>									
Dry Weight	91.2	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP28-S-1.0 (B5L0339-09) Soil Sampled: 12/12/05 12:30 Received: 12/14/05 15:00</b>									
Dry Weight	92.3	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP28-S-7.0 (B5L0339-10) Soil Sampled: 12/12/05 12:40 Received: 12/14/05 15:00</b>									
Dry Weight	94.7	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP29-S-1.0 (B5L0339-11) Soil Sampled: 12/12/05 13:45 Received: 12/14/05 15:00</b>									
Dry Weight	84.1	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Physical Parameters by APHA/ASTM/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP29-S-6.0 (B5L0339-12) Soil</b> Sampled: 12/12/05 13:55 Received: 12/14/05 15:00									
Dry Weight	78.4	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	
<b>GP30-S-1.0 (B5L0339-13) Soil</b> Sampled: 12/12/05 14:10 Received: 12/14/05 15:00									
Dry Weight	84.9	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	
<b>GP30-S-6.0 (B5L0339-14) Soil</b> Sampled: 12/12/05 14:24 Received: 12/14/05 15:00									
Dry Weight	68.4	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	
<b>GP31-S-1.0 (B5L0339-15) Soil</b> Sampled: 12/12/05 14:42 Received: 12/14/05 15:00									
Dry Weight	85.1	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	
<b>GP31-S-6.0 (B5L0339-16) Soil</b> Sampled: 12/12/05 14:55 Received: 12/14/05 15:00									
Dry Weight	73.5	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	
<b>GP17-S-1.0 (B5L0339-17) Soil</b> Sampled: 12/13/05 09:50 Received: 12/14/05 15:00									
Dry Weight	85.9	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	
<b>-S-6.0 (B5L0339-18) Soil</b> Sampled: 12/13/05 10:00 Received: 12/14/05 15:00									
Dry Weight	81.6	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSP003R08	
<b>GP19-S-1.0 (B5L0339-19) Soil</b> Sampled: 12/13/05 10:30 Received: 12/14/05 15:00									
Dry Weight	80.7	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	
<b>GPDUP-S-1.0 (B5L0339-20) Soil</b> Sampled: 12/13/05 10:30 Received: 12/14/05 15:00									
Dry Weight	87.1	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSP003R08	

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

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**Physical Parameters by APHA/ASTM/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP19-S-7.0 (B5L0339-21) Soil Sampled: 12/13/05 10:45 Received: 12/14/05 15:00</b>									
Dry Weight	68.2	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP16-S-1.0 (B5L0339-22) Soil Sampled: 12/13/05 11:06 Received: 12/14/05 15:00</b>									
Dry Weight	88.9	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSPL003R08	
<b>GP16-S-5.0 (B5L0339-23) Soil Sampled: 12/13/05 11:22 Received: 12/14/05 15:00</b>									
Dry Weight	89.2	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP14-S-3.0 (B5L0339-24) Soil Sampled: 12/13/05 12:20 Received: 12/14/05 15:00</b>									
Dry Weight	89.3	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSPL003R08	
<b>GP14-S-6.0 (B5L0339-25) Soil Sampled: 12/13/05 12:37 Received: 12/14/05 15:00</b>									
Dry Weight	91.6	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP18-S-1.0 (B5L0339-26) Soil Sampled: 12/13/05 13:35 Received: 12/14/05 15:00</b>									
Dry Weight	89.4	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP22-S-1.0 (B5L0339-27) Soil Sampled: 12/13/05 14:10 Received: 12/14/05 15:00</b>									
Dry Weight	92.6	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSPL003R08	
<b>GP22-S-10.0 (B5L0339-29) Soil Sampled: 12/13/05 14:40 Received: 12/14/05 15:00</b>									
Dry Weight	89.4	1.00	%	1	5L20043	12/20/05	12/21/05	BSOPSPL003R08	
<b>GP12-S-3.0 (B5L0339-30) Soil Sampled: 12/13/05 15:00 Received: 12/14/05 15:00</b>									
Dry Weight	95.1	1.00	%	1	5L20044	12/20/05	12/21/05	BSOPSPL003R08	

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 509.924.9200 fax 509.924.9290  
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 Vancouver, WA/USA 98665

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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

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**Physical Parameters by APHA/ASTM/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP12-S-5.0 (B5L0339-31) Soil Sampled: 12/13/05 15:14 Received: 12/14/05 15:00									
Dry Weight	87.5	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSPL003R08	
GP15-S-3.0 (B5L0339-32) Soil Sampled: 12/13/05 15:34 Received: 12/14/05 15:00									
Dry Weight	85.2	1.00	%	1	5L20044	12/20/05	12/21/05	BSOPSPL003R08	
GP15-S-6.0 (B5L0339-33) Soil Sampled: 12/13/05 15:45 Received: 12/14/05 15:00									
Dry Weight	67.3	1.00	%	1	5L28038	12/28/05	12/29/05	BSOPSPL003R08	

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**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19046: Prepared 12/19/05 Using EPA 3550B**

**Blank (5L19046-BLK1)**

Diesel Range Hydrocarbons	ND	10.0	mg/kg							
Lube Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	7.07		"	8.33		84.9	50-150			
Surrogate: Octacosane	7.60		"	8.33		91.2	50-150			

**LCS (5L19046-BS1)**

Diesel Range Hydrocarbons	74.6	10.0	mg/kg	66.7		112	71-120			
Surrogate: 2-FBP	8.54		"	8.33		103	50-150			

**LCS Dup (5L19046-BSD1)**

Diesel Range Hydrocarbons	77.6	10.0	mg/kg	66.7		116	71-120	3.94	40	
Surrogate: 2-FBP	7.44		"	8.33		89.3	50-150			

**Duplicate (5L19046-DUP1)**

**Source: B5L0328-11**

Diesel Range Hydrocarbons	2.92	11.1	mg/kg dry		2.77			5.27	40	
Lube Oil Range Hydrocarbons	ND	27.8	"		ND			NA	40	
Surrogate: 2-FBP	7.72		"	9.27		83.3	50-150			
Surrogate: Octacosane	8.53		"	9.27		92.0	50-150			

**Batch 5L19047: Prepared 12/19/05 Using EPA 3550B**

**Blank (5L19047-BLK1)**

Diesel Range Hydrocarbons	ND	10.0	mg/kg							
Lube Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	6.68		"	8.33		80.2	50-150			
Surrogate: Octacosane	8.04		"	8.33		96.5	50-150			

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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Project: Precision Engineering  
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**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19047: Prepared 12/19/05 Using EPA 3550B**

**LCS (5L19047-BS1)**

Diesel Range Hydrocarbons	70.1	10.0	mg/kg	66.7		105	71-120			
Surrogate: 2-FBP	7.08		"	8.33		85.0	50-150			

**LCS Dup (5L19047-BSD1)**

Diesel Range Hydrocarbons	70.0	10.0	mg/kg	66.7		105	71-120	0.143	40	
Surrogate: 2-FBP	6.67		"	8.33		80.1	50-150			

**Duplicate (5L19047-DUP1)**

**Source: B5L0339-11**

Diesel Range Hydrocarbons	79.5	11.7	mg/kg dry		80.4			1.13	40	
Lube Oil Range Hydrocarbons	213	29.2	"		249			15.6	40	
Surrogate: 2-FBP	8.23		"	9.75		84.4	50-150			
Surrogate: Octacosane	9.33		"	9.75		95.7	50-150			

North Creek Analytical - Bothell

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L16062: Prepared 12/16/05 Using EPA 3050B**

**Blank (5L16062-BLK1)**

Chromium ND 0.500 mg/kg

**LCS (5L16062-BS1)**

Chromium 38.8 0.500 mg/kg 40.0 97.0 80-120

**LCS Dup (5L16062-BSD1)**

Chromium 38.8 0.500 mg/kg 40.0 97.0 80-120 0.00 20

**Matrix Spike (5L16062-MS1)**

Source: B5L0339-01

Chromium 58.6 0.535 mg/kg dry 42.8 19.3 91.8 30-163

**Matrix Spike Dup (5L16062-MSD1)**

Source: B5L0339-01

Chromium 56.7 0.535 mg/kg dry 42.8 19.3 87.4 30-163 3.30 30

**Post Spike (5L16062-PS1)**

Source: B5L0339-01

Chromium 0.130 ug/ml 0.100 0.0360 94.0 75-125

**Batch 5L16063: Prepared 12/16/05 Using EPA 3050B**

**Blank (5L16063-BLK1)**

Silver	ND	0.500	mg/kg
Arsenic	ND	0.500	"
Beryllium	ND	0.500	"
Cadmium	ND	0.500	"
Chromium	ND	0.500	"
Copper	ND	0.500	"
Nickel	ND	0.500	"
Lead	ND	0.500	"
Antimony	ND	1.50	"
Selenium	ND	0.500	"
Thallium	ND	0.500	"
Zinc	ND	5.00	"

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L16063: Prepared 12/16/05 Using EPA 3050B**

**LCS (5L16063-BS1)**

Silver	40.0	0.500	mg/kg	40.0		100	80-120			
Arsenic	40.0	0.500	"	40.0		100	80-120			
Beryllium	38.0	0.500	"	40.0		95.0	80-120			
Cadmium	39.7	0.500	"	40.0		99.2	80-120			
Chromium	39.0	0.500	"	40.0		97.5	80-120			
Copper	38.7	0.500	"	40.0		96.8	80-120			
Nickel	39.2	0.500	"	40.0		98.0	80-120			
Lead	40.5	0.500	"	40.0		101	80-120			
Antimony	47.2	7.50	"	40.0		118	80-120			
Selenium	39.0	0.500	"	40.0		97.5	80-120			
Thallium	39.7	0.500	"	40.0		99.2	80-120			
	40.2	5.00	"	40.0		100	80-120			

**Dup (5L16063-BS1)**

Silver	39.6	0.500	mg/kg	40.0		99.0	80-120	1.01	20	
Arsenic	39.9	0.500	"	40.0		99.8	80-120	0.250	20	
Beryllium	37.8	0.500	"	40.0		94.5	80-120	0.528	20	
Cadmium	38.7	0.500	"	40.0		96.8	80-120	2.55	20	
Chromium	38.8	0.500	"	40.0		97.0	80-120	0.514	20	
Copper	38.4	0.500	"	40.0		96.0	80-120	0.778	20	
Nickel	38.7	0.500	"	40.0		96.8	80-120	1.28	20	
Lead	40.2	0.500	"	40.0		100	80-120	0.743	20	
Antimony	46.4	7.50	"	40.0		116	80-120	1.71	20	
Selenium	38.4	0.500	"	40.0		96.0	80-120	1.55	20	
Thallium	39.2	0.500	"	40.0		98.0	80-120	1.27	20	
Zinc	39.1	5.00	"	40.0		97.8	80-120	2.77	20	

**Matrix Spike (5L16063-MS1)**

**Source: B5L0339-09**

Silver	39.9	0.542	mg/kg dry	43.3	ND	92.1	54-126			
Arsenic	41.1	0.542	"	43.3	1.89	90.6	57-125			
Beryllium	40.3	0.542	"	43.3	0.130	92.8	72-122			
Cadmium	41.4	0.542	"	43.3	0.0542	95.5	80-120			
Chromium	61.6	0.542	"	43.3	20.5	94.9	30-163			
Copper	49.7	0.542	"	43.3	12.6	85.7	20-148			
Nickel	64.5	0.542	"	43.3	22.5	97.0	35-150			
Lead	43.9	0.542	"	43.3	1.54	97.8	29-166			

North Creek Analytical - Bothell

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*Kate Haney*

Kate Haney For Jeff Gerdes, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L16063: Prepared 12/16/05 Using EPA 3050B**

**Matrix Spike (5L16063-MS1)**

**Source: B5L0339-09**

Antimony	8.34	1.63	mg/kg dry	43.3	0.108	19.0	10-120			
Selenium	38.5	0.542	"	43.3	ND	88.9	61-120			
Thallium	41.1	0.542	"	43.3	0.0650	94.8	75-120			
Zinc	68.4	5.42	"	43.3	24.9	100	20-160			

**Matrix Spike Dup (5L16063-MSD1)**

**Source: B5L0339-09**

Silver	40.4	0.542	mg/kg dry	43.3	ND	93.3	54-126	1.25	30	
Arsenic	41.5	0.542	"	43.3	1.89	91.5	57-125	0.969	30	
Beryllium	40.4	0.542	"	43.3	0.130	93.0	72-122	0.248	30	
Cadmium	41.0	0.542	"	43.3	0.0542	94.6	80-120	0.971	30	
Chromium	63.3	0.542	"	43.3	20.5	98.8	30-163	2.72	30	
Copper	54.2	0.542	"	43.3	12.6	96.1	20-148	8.66	37	
Nickel	64.1	0.542	"	43.3	22.5	96.1	35-150	0.622	30	
Lead	45.3	0.542	"	43.3	1.54	101	29-166	3.14	40	
Antimony	7.96	1.63	"	43.3	0.108	18.1	10-120	4.66	50	
Selenium	38.7	0.542	"	43.3	ND	89.4	61-120	0.518	30	
Thallium	41.8	0.542	"	43.3	0.0650	96.4	75-120	1.69	30	
Zinc	68.2	5.42	"	43.3	24.9	100	20-160	0.293	30	

**Post Spike (5L16063-PS1)**

**Source: B5L0339-09**

Silver	0.0953		ug/ml	0.100	0.0000300	95.3	75-125			
Arsenic	0.105		"	0.100	0.00348	102	75-125			
Beryllium	0.0934		"	0.100	0.000240	93.2	75-125			
Cadmium	0.0960		"	0.100	0.000100	95.9	75-125			
Chromium	0.132		"	0.100	0.0378	94.2	75-125			
Copper	0.116		"	0.101	0.0232	91.9	75-125			
Nickel	0.133		"	0.100	0.0415	91.5	75-125			
Lead	0.102		"	0.100	0.00285	99.2	75-125			
Antimony	0.0529		"	0.0500	0.000200	105	75-125			
Selenium	0.0950		"	0.100	0.000130	94.9	75-125			
Thallium	0.0998		"	0.100	0.000120	99.7	75-125			
Zinc	0.138		"	0.100	0.0460	92.0	75-125			

North Creek Analytical - Bothell

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*Kate Haney*

Kate Haney For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L20033: Prepared 12/20/05 Using EPA 7471A**

**Blank (5L20033-BLK1)**

Mercury ND 0.133 mg/kg

**LCS (5L20033-BS1)**

Mercury 0.701 0.133 mg/kg 0.667 105 80-120

**LCS Dup (5L20033-BSD1)**

Mercury 0.679 0.133 mg/kg 0.667 102 80-120 3.19 20

**Matrix Spike (5L20033-MS1)**

**Source: B5L0339-09**

Mercury 0.781 0.144 mg/kg dry 0.722 ND 108 70-130

**Matrix Spike Dup (5L20033-MSD1)**

**Source: B5L0339-09**

Mercury 0.817 0.144 mg/kg dry 0.722 ND 113 70-130 4.51 30

North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Emplre Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L16042: Prepared 12/16/05 Using EPA 5035

Blank (5L16042-BLK1)

Acetone	ND	30.0	ug/kg							
Benzene	ND	1.50	"							
Bromobenzene	ND	5.00	"							
Bromochloromethane	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	10.0	"							
2-Butanone	ND	15.0	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	5.00	"							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	3.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	2.50	"							
Chloromethane	ND	10.0	"							
2-Chlorotoluene	ND	5.00	"							
4-Chlorotoluene	ND	5.00	"							
Dibromochloromethane	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	10.0	"							
1,2-Dibromoethane (EDB)	ND	5.00	"							
Dibromomethane	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	1.25	"							
1,1-Dichloroethene	ND	3.00	"							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	10.0	"							

North Creek Analytical - Bothell

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L16042: Prepared 12/16/05 Using EPA 5035

**Blank (5L16042-BLK1)**

1,1-Dichloropropene	ND	5.00	ug/kg							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	1.25	"							
Ethylbenzene	ND	4.00	"							
Hexachlorobutadiene	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
2-Hexanone	ND	20.0	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							
4-Methyl-2-pentanone	ND	20.0	"							
Methylene chloride	ND	3.50	"							
halene	ND	5.00	"							
pylbenzene	ND	5.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
1,1,1,2,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	2.00	"							
Toluene	ND	1.50	"							
1,1,1-Trichloroethane	ND	2.50	"							
1,1,2-Trichloroethane	ND	1.25	"							
Trichloroethene	ND	2.50	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	2.50	"							
Total Xylenes	ND	10.0	"							
Surrogate: 1,2-DCA-d4	39.1		"	40.0		97.8	60-140			
Surrogate: Toluene-d8	47.8		"	40.0		120	60-140			
Surrogate: 4-BFB	44.3		"	40.0		111	60-140			

North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager

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 Environmental Laboratory Network





Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
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Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

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 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L16042: Prepared 12/16/05 Using EPA 5035

**LCS (5L16042-BS1)**

Acetone	338	30.0	ug/kg	400		84.5	70-130			
Benzene	42.6	1.50	"	40.0		106	70-130			
2-Butanone	361	15.0	"	400		90.2	70-130			
Carbon disulfide	40.1	3.00	"	40.0		100	70-130			
Chlorobenzene	39.5	2.00	"	40.0		98.8	70-130			
1,1-Dichloroethane	38.0	2.00	"	40.0		95.0	70-130			
1,1-Dichloroethene	35.2	3.00	"	40.0		88.0	70-130			
cis-1,2-Dichloroethene	40.9	3.00	"	40.0		102	70-130			
trans-1,2-Dichloroethene	36.8	2.50	"	40.0		92.0	70-130			
Ethylbenzene	39.1	4.00	"	40.0		97.8	70-130			
Hexachlorobutadiene	34.2	5.00	"	40.0		85.5	70-130			
4-Methyl-2-pentanone	389	20.0	"	400		97.2	70-130			
Tetrachloroethene	42.2	2.00	"	40.0		106	70-130			
Toluene	41.0	1.50	"	40.0		102	70-130			
1,1,1-Trichloroethane	37.5	2.50	"	40.0		93.8	70-130			
Trichloroethene	39.6	2.50	"	40.0		99.0	70-130			
Vinyl chloride	36.6	2.50	"	40.0		91.5	70-130			
Surrogate: 1,2-DCA-d4	30.6		"	40.0		76.5	60-140			
Surrogate: Toluene-d8	33.7		"	40.0		84.2	60-140			
Surrogate: 4-BFB	34.2		"	40.0		85.5	60-140			

**LCS Dup (5L16042-BSD1)**

Acetone	441	30.0	ug/kg	400		110	70-130	26.4	30	
Benzene	45.2	1.50	"	40.0		113	70-130	5.92	30	
2-Butanone	497	15.0	"	400		124	70-130	31.7	30	A-01
Carbon disulfide	42.9	3.00	"	40.0		107	70-130	6.75	30	
Chlorobenzene	38.1	2.00	"	40.0		95.2	70-130	3.61	30	
1,1-Dichloroethane	44.4	2.00	"	40.0		111	70-130	15.5	30	
1,1-Dichloroethene	39.3	3.00	"	40.0		98.2	70-130	11.0	30	
cis-1,2-Dichloroethene	45.6	3.00	"	40.0		114	70-130	10.9	30	
trans-1,2-Dichloroethene	37.9	2.50	"	40.0		94.8	70-130	2.95	30	
Ethylbenzene	37.8	4.00	"	40.0		94.5	70-130	3.38	30	
Hexachlorobutadiene	34.9	5.00	"	40.0		87.2	70-130	2.03	30	
4-Methyl-2-pentanone	484	20.0	"	400		121	70-130	21.8	30	
Tetrachloroethene	38.7	2.00	"	40.0		96.8	70-130	8.65	30	

North Creek Analytical - Bothell

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*Kate Haney*

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L16042: Prepared 12/16/05 Using EPA 5035**

**LCS Dup (5L16042-BSD1)**

Toluene	40.1	1.50	ug/kg	40.0		100	70-130	2.22	30	
1,1,1-Trichloroethane	37.7	2.50	"	40.0		94.2	70-130	0.532	30	
Trichloroethene	40.6	2.50	"	40.0		102	70-130	2.49	30	
Vinyl chloride	40.7	2.50	"	40.0		102	70-130	10.6	30	
Surrogate: 1,2-DCA-d4	34.9		"	40.0		87.2	60-140			
Surrogate: Toluene-d8	40.9		"	40.0		102	60-140			
Surrogate: 4-BFB	39.1		"	40.0		97.8	60-140			

**Batch 5L19039: Prepared 12/19/05 Using EPA 5035**

**Blank (5L19039-BLK1)**

Acetone	ND	30.0	ug/kg							
benzene	ND	1.50	"							
benzene	ND	5.00	"							
Bromochloromethane	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	10.0	"							
2-Butanone	ND	15.0	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	5.00	"							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	3.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	2.50	"							
Chloromethane	ND	10.0	"							
2-Chlorotoluene	ND	5.00	"							
4-Chlorotoluene	ND	5.00	"							
Dibromochloromethane	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	10.0	"							
1,2-Dibromoethane (EDB)	ND	5.00	"							
Dibromomethane	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REG	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L19039: Prepared 12/19/05 Using EPA 5035

Blank (5L19039-BLK1)

1,4-Dichlorobenzene	ND	5.00	ug/kg							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	1.25	"							
1,1-Dichloroethene	ND	3.00	"							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	10.0	"							Q-41
1,1-Dichloropropene	ND	5.00	"							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	1.25	"							
Ethylbenzene	ND	4.00	"							
Hexachlorobutadiene	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
2-Hexanone	ND	20.0	"							Q-41
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							
4-Methyl-2-pentanone	ND	20.0	"							Q-41
Methylene chloride	ND	3.50	"							
Naphthalene	ND	5.00	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							Q-41
1,1,1,2-Tetrachloroethane	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							Q-41
Tetrachloroethene	ND	2.00	"							
Toluene	ND	1.50	"							
1,1,1-Trichloroethane	ND	2.50	"							
1,1,2-Trichloroethane	ND	1.25	"							
Trichloroethene	ND	2.50	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	5.00	"							

North Creek Analytical - Bothell

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*Kate Haney*

Kate Haney For Jeff Gerdes, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19039: Prepared 12/19/05 Using EPA 5035**

**Blank (5L19039-BLK1)**

1,2,4-Trimethylbenzene	ND	5.00	ug/kg							
1,3,5-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	2.50	"							
Total Xylenes	ND	10.0	"							
Surrogate: 1,2-DCA-d4	43.2		"	40.0		108	60-140			
Surrogate: Toluene-d8	48.9		"	40.0		122	60-140			
Surrogate: 4-BFB	49.0		"	40.0		122	60-140			

**LCS (5L19039-BS1)**

Acetone	333	30.0	ug/kg	400		83.2	70-130			
Benzene	39.7	1.50	"	40.0		99.2	70-130			
2-Butanone	367	15.0	"	400		91.8	70-130			Q-41
n disulfide	41.4	3.00	"	40.0		104	70-130			
obenzene	41.8	2.00	"	40.0		104	70-130			
1,1-Dichloroethane	44.6	2.00	"	40.0		112	70-130			
1,1-Dichloroethene	42.7	3.00	"	40.0		107	70-130			
cis-1,2-Dichloroethene	43.6	3.00	"	40.0		109	70-130			
Ethylbenzene	42.8	4.00	"	40.0		107	70-130			
Hexachlorobutadiene	50.0	5.00	"	40.0		125	70-130			
4-Methyl-2-pentanone	413	20.0	"	400		103	70-130			Q-41
Tetrachloroethene	43.8	2.00	"	40.0		110	70-130			
Toluene	41.6	1.50	"	40.0		104	70-130			
1,1,1-Trichloroethane	41.6	2.50	"	40.0		104	70-130			
Trichloroethene	34.9	2.50	"	40.0		87.2	70-130			
Surrogate: 1,2-DCA-d4	43.4		"	40.0		108	60-140			
Surrogate: Toluene-d8	48.1		"	40.0		120	60-140			
Surrogate: 4-BFB	48.1		"	40.0		120	60-140			

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Kate Haney For Jeff Gerdes, Project Manager

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 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.905.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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 Vancouver, WA/USA 98665

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19039: Prepared 12/19/05 Using EPA 5035**

**LCS Dup (5L19039-BSD1)**

Acetone	359	30.0	ug/kg	400		89.8	70-130	7.51	30	
Benzene	39.4	1.50	"	40.0		98.5	70-130	0.759	30	
2-Butanone	410	15.0	"	400		102	70-130	11.1	30	Q-41
Carbon disulfide	43.2	3.00	"	40.0		108	70-130	4.26	30	
Chlorobenzene	41.2	2.00	"	40.0		103	70-130	1.45	30	
1,1-Dichloroethane	49.1	2.00	"	40.0		123	70-130	9.61	30	
1,1-Dichloroethene	45.0	3.00	"	40.0		112	70-130	5.25	30	
cis-1,2-Dichloroethene	47.6	3.00	"	40.0		119	70-130	8.77	30	
Ethylbenzene	42.2	4.00	"	40.0		106	70-130	1.41	30	
Hexachlorobutadiene	51.0	5.00	"	40.0		128	70-130	1.98	30	
4-Methyl-2-pentanone	447	20.0	"	400		112	70-130	7.91	30	Q-41
Tetrachloroethene	40.9	2.00	"	40.0		102	70-130	6.85	30	
Toluene	38.0	1.50	"	40.0		95.0	70-130	9.05	30	
1,1,1-Trichloroethane	42.3	2.50	"	40.0		106	70-130	1.67	30	
Trichloroethene	35.2	2.50	"	40.0		88.0	70-130	0.856	30	
Surrogate: 1,2-DCA-d4	39.7		"	40.0		99.2	60-140			
Surrogate: Toluene-d8	38.1		"	40.0		95.2	60-140			
Surrogate: 4-BFB	37.3		"	40.0		93.2	60-140			

**Batch 5L20051: Prepared 12/20/05 Using EPA 5035**

**Blank (5L20051-BLK1)**

2-Butanone	ND	15.0	ug/kg							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
Trichloroethene	ND	2.50	"							
Vinyl chloride	ND	2.50	"							
Surrogate: 1,2-DCA-d4	41.4		"	40.0		104	60-140			
Surrogate: Toluene-d8	46.6		"	40.0		116	60-140			
Surrogate: 4-BFB	46.3		"	40.0		116	60-140			

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*Kate Haney*

Kate Haney For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Manager: Alan Hughes

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L20051: Prepared 12/20/05 Using EPA 5035**

**LCS (5L20051-BS1)**

2-Butanone	387	15.0	ug/kg	400		96.8	70-130			
cis-1,2-Dichloroethene	41.2	3.00	"	40.0		103	70-130			
Trichloroethene	32.3	2.50	"	40.0		80.8	70-130			
Surrogate: 1,2-DCA-d4	36.5		"	40.0		91.2	60-140			
Surrogate: Toluene-d8	42.9		"	40.0		107	60-140			
Surrogate: 4-BFB	41.4		"	40.0		104	60-140			

**LCS Dup (5L20051-BSD1)**

2-Butanone	405	15.0	ug/kg	400		101	70-130	4.55	30	
cis-1,2-Dichloroethene	43.0	3.00	"	40.0		108	70-130	4.28	30	
Trichloroethene	34.1	2.50	"	40.0		85.2	70-130	5.42	30	
Surrogate: 1,2-DCA-d4	40.4		"	40.0		101	60-140			
Surrogate: Toluene-d8	46.4		"	40.0		116	60-140			
Surrogate: 4-BFB	47.2		"	40.0		118	60-140			

**Batch 5L21059: Prepared 12/21/05 Using EPA 5035**

**Blank (5L21059-BLK1)**

2-Butanone	ND	15.0	ug/kg							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
Trichloroethene	ND	2.50	"							
Vinyl chloride	ND	2.50	"							
Surrogate: 1,2-DCA-d4	45.9		"	40.0		115	60-140			
Surrogate: Toluene-d8	47.4		"	40.0		118	60-140			
Surrogate: 4-BFB	45.8		"	40.0		114	60-140			

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Kate Haney For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L21059: Prepared 12/21/05 Using EPA 5035**

**LCS (5L21059-BS1)**

2-Butanone	468	15.0	ug/kg	400		117	70-130			
cis-1,2-Dichloroethene	44.0	3.00	"	40.0		110	70-130			
Trichloroethene	35.3	2.50	"	40.0		88.2	70-130			
Surrogate: 1,2-DCA-d4	42.7		"	40.0		107	60-140			
Surrogate: Toluene-d8	39.5		"	40.0		98.8	60-140			
Surrogate: 4-BFB	41.2		"	40.0		103	60-140			

**LCS Dup (5L21059-BSD1)**

2-Butanone	496	15.0	ug/kg	400		124	70-130	5.81	30	
cis-1,2-Dichloroethene	46.2	3.00	"	40.0		116	70-130	4.88	30	
Trichloroethene	36.9	2.50	"	40.0		92.2	70-130	4.43	30	
Surrogate: 1,2-DCA-d4	49.5		"	40.0		124	60-140			
Surrogate: Toluene-d8	49.6		"	40.0		124	60-140			
Surrogate: 4-BFB	47.9		"	40.0		120	60-140			

**Batch 5L22045: Prepared 12/22/05 Using EPA 5035**

**Blank (5L22045-BLK1)**

Acetone	ND	30.0	ug/kg							
Benzene	ND	1.50	"							
Bromobenzene	ND	5.00	"							
Bromochloromethane	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	10.0	"							
2-Butanone	ND	15.0	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	5.00	"							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	3.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	2.50	"							
Chloromethane	ND	10.0	"							
2-Chlorotoluene	ND	5.00	"							

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 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L22045: Prepared 12/22/05 Using EPA 5035

**Blank (5L22045-BLK1)**

4-Chlorotoluene	ND	5.00	ug/kg							
Dibromochloromethane	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	10.0	"							
1,2-Dibromoethane (EDB)	ND	5.00	"							
Dibromomethane	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	1.25	"							
1,1-Dichloroethane	ND	3.00	"							
1,2-Dichloroethane	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	10.0	"							
1,1-Dichloropropene	ND	5.00	"							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	1.25	"							
Ethylbenzene	ND	4.00	"							
Hexachlorobutadiene	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							Q-41
2-Hexanone	ND	20.0	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							
4-Methyl-2-pentanone	ND	20.0	"							Q-41
Methylene chloride	ND	3.50	"							
Naphthalene	ND	5.00	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							

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 509.924.9200 fax 509.924.9290  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L22045: Prepared 12/22/05 Using EPA 5035**

**Blank (5L22045-BLK1)**

Tetrachloroethene	ND	2.00	ug/kg							
Toluene	ND	1.50	"							
1,1,1-Trichloroethane	ND	2.50	"							
1,1,2-Trichloroethane	ND	1.25	"							
Trichloroethene	ND	2.50	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	2.50	"							
Total Xylenes	ND	10.0	"							
Surrogate: 1,2-DCA-d4	42.4		"	40.0		106	60-140			
Surrogate: Toluene-d8	46.1		"	40.0		115	60-140			
Surrogate: 4-BFB	43.6		"	40.0		109	60-140			

**LCS (5L22045-BS1)**

Acetone	393	30.0	ug/kg	400		98.2	70-130			
Benzene	43.6	1.50	"	40.0		109	70-130			
2-Butanone	477	15.0	"	400		119	70-130			Q-41
Carbon disulfide	42.8	3.00	"	40.0		107	70-130			
Chlorobenzene	38.4	2.00	"	40.0		96.0	70-130			
1,1-Dichloroethane	43.2	2.00	"	40.0		108	70-130			
1,1-Dichloroethene	38.2	3.00	"	40.0		95.5	70-130			
cis-1,2-Dichloroethene	45.6	3.00	"	40.0		114	70-130			
Ethylbenzene	37.0	4.00	"	40.0		92.5	70-130			
Hexachlorobutadiene	31.8	5.00	"	40.0		79.5	70-130			
4-Methyl-2-pentanone	453	20.0	"	400		113	70-130			Q-41
Tetrachloroethene	39.6	2.00	"	40.0		99.0	70-130			
Toluene	39.9	1.50	"	40.0		99.8	70-130			
1,1,1-Trichloroethane	37.9	2.50	"	40.0		94.8	70-130			
Trichloroethene	39.4	2.50	"	40.0		98.5	70-130			
Surrogate: 1,2-DCA-d4	36.7		"	40.0		91.8	60-140			
Surrogate: Toluene-d8	43.0		"	40.0		108	60-140			
Surrogate: 4-BFB	41.6		"	40.0		104	60-140			

North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L22045: Prepared 12/22/05 Using EPA 5035**

**LCS Dup (5L22045-BSD1)**

Acetone	425	30.0	ug/kg	400	106	70-130	7.82	30		
Benzene	45.9	1.50	"	40.0	115	70-130	5.14	30		
2-Butanone	495	15.0	"	400	124	70-130	3.70	30		Q-41
Carbon disulfide	47.4	3.00	"	40.0	118	70-130	10.2	30		
Chlorobenzene	38.4	2.00	"	40.0	96.0	70-130	0.00	30		
1,1-Dichloroethane	46.6	2.00	"	40.0	116	70-130	7.57	30		
1,1-Dichloroethene	41.7	3.00	"	40.0	104	70-130	8.76	30		
cis-1,2-Dichloroethene	49.4	3.00	"	40.0	124	70-130	8.00	30		
Ethylbenzene	36.1	4.00	"	40.0	90.2	70-130	2.46	30		
Hexachlorobutadiene	34.6	5.00	"	40.0	86.5	70-130	8.43	30		
4-Methyl-2-pentanone	459	20.0	"	400	115	70-130	1.32	30		Q-41
chloroethene	40.0	2.00	"	40.0	100	70-130	1.01	30		
ie	39.9	1.50	"	40.0	99.8	70-130	0.00	30		
1,1,1-Trichloroethane	40.9	2.50	"	40.0	102	70-130	7.61	30		
Trichloroethene	41.6	2.50	"	40.0	104	70-130	5.43	30		
Surrogate: 1,2-DCA-d4	38.7		"	40.0	96.8	60-140				
Surrogate: Toluene-d8	45.2		"	40.0	113	60-140				
Surrogate: 4-BFB	43.8		"	40.0	110	60-140				

**Batch 5L23011: Prepared 12/23/05 Using EPA 5035**

**Blank (5L23011-BLK1)**

2-Butanone	ND	15.0	ug/kg							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
Trichloroethene	ND	2.50	"							
Vinyl chloride	ND	2.50	"							
Surrogate: 1,2-DCA-d4	38.0		"	40.0	95.0	60-140				
Surrogate: Toluene-d8	39.8		"	40.0	99.5	60-140				
Surrogate: 4-BFB	40.0		"	40.0	100	60-140				

North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L23011: Prepared 12/23/05 Using EPA 5035**

**LCS (5L23011-BS1)**

2-Butanone	364	15.0	ug/kg	400		91.0	70-130			
cis-1,2-Dichloroethene	38.0	3.00	"	40.0		95.0	70-130			
Trichloroethene	37.6	2.50	"	40.0		94.0	70-130			
Surrogate: 1,2-DCA-d4	34.4		"	40.0		86.0	60-140			
Surrogate: Toluene-d8	33.7		"	40.0		84.2	60-140			
Surrogate: 4-BFB	35.1		"	40.0		87.8	60-140			

**LCS Dup (5L23011-BSD1)**

2-Butanone	361	15.0	ug/kg	400		90.2	70-130	0.828	30	
cis-1,2-Dichloroethene	38.1	3.00	"	40.0		95.2	70-130	0.263	30	
Trichloroethene	37.5	2.50	"	40.0		93.8	70-130	0.266	30	
Surrogate: 1,2-DCA-d4	33.6		"	40.0		84.0	60-140			
Surrogate: Toluene-d8	30.6		"	40.0		76.5	60-140			
Surrogate: 4-BFB	32.2		"	40.0		80.5	60-140			

North Creek Analytical - Bothell

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*Kate Haney*

Kate Haney For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 12/30/05 15:53

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L20049: Prepared 12/20/05 Using Special Procedure**

**Blank (5L20049-BLK1)**

Hexavalent Chromium ND 2.0 mg/kg

**LCS (5L20049-BS1)**

Hexavalent Chromium 48 2.0 mg/kg 50.0 96.0 80-120

**LCS Dup (5L20049-BSD1)**

Hexavalent Chromium 50 2.0 mg/kg 50.0 100 80-120 4.08 25

**Matrix Spike (5L20049-MS1)**

Source: B5L0008-17

Hexavalent Chromium ND 2.5 mg/kg dry 63.7 ND 75-125 NA Q-02

**Matrix Spike Dup (5L20049-MSD1)**

Source: B5L0008-17

Hexavalent Chromium ND 2.5 mg/kg dry 63.7 ND 75-125 NA 30 Q-02

**h 5L27052: Prepared 12/27/05 Using Special Procedure**

**Blank (5L27052-BLK1)**

Hexavalent Chromium ND 2.0 mg/kg

**LCS (5L27052-BS1)**

Hexavalent Chromium 50 2.0 mg/kg 50.0 100 80-120

**LCS Dup (5L27052-BSD1)**

Hexavalent Chromium 49 2.0 mg/kg 50.0 98.0 80-120 2.02 25

**Matrix Spike (5L27052-MS1)**

Source: B5L0339-03

Hexavalent Chromium 1.1 2.2 mg/kg dry 55.5 ND 1.98 75-125 Q-02

North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager



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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 12/30/05 15:53
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L27052: Prepared 12/27/05 Using Special Procedure**

**Matrix Spike Dup (5L27052-MSD1)**

**Source: B5L0339-03**

Hexavalent Chromium	18	2.2	mg/kg dry	55.5	ND	32.4	75-125	177	30	Q-02
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**Batch 5L28062: Prepared 12/28/05 Using Special Procedure**

**Blank (5L28062-BLK1)**

Hexavalent Chromium	ND	1.0	mg/kg							
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**LCS (5L28062-BS1)**

Hexavalent Chromium	25	1.0	mg/kg	25.0		100	80-120			
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**LCS Dup (5L28062-BSD1)**

Hexavalent Chromium	24	1.0	mg/kg	25.0		96.0	80-120	4.08	25	
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**Matrix Spike (5L28062-MS1)**

**Source: B5L0418-13**

Hexavalent Chromium	0.4	1.1	mg/kg dry	27.9	0.2	0.717	75-125			
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**Matrix Spike Dup (5L28062-MSD1)**

**Source: B5L0418-13**

Hexavalent Chromium	0.6	1.1	mg/kg dry	27.9	0.2	1.43	75-125	40.0	30	Q-02
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North Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 12/30/05 15:53
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5L20043: Prepared 12/20/05 Using Dry Weight</b>										
<b>Blank (5L20043-BLK1)</b>										
Dry Weight	100	1.00	%							
<b>Batch 5L20044: Prepared 12/20/05 Using Dry Weight</b>										
<b>Blank (5L20044-BLK1)</b>										
Dry Weight	100	1.00	%							
<b>Batch 5L28038: Prepared 12/28/05 Using Dry Weight</b>										
<b>Blank (5L28038-BLK1)</b>										
Dry Weight	100	1.00	%							

Creek Analytical - Bothell

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Kate Haney For Jeff Gerdes, Project Manager



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425.420.9200 fax 425.420.9210  
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
12/30/05 15:53

### Notes and Definitions

- A-01 %RPD for the LCS/LCS Duplicate QC samples are outside of specified criteria. Recoveries for these QC control samples are within acceptable limits. All samples were Non Detect for this analyte, therefore Data Quality is not affected.
- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-41 This analyte had a high bias in the associated calibration verification standard.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Kate Haney For Jeff Gerdes, Project Manager

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425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

18 January 2006

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665  
RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/14/05 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cherie Howland For Jeff Gerdes  
Project Manager





**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1  
907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported: ~  
01/18/06 15:22

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP29-S-1.0	B5L0339-11	Soil	12/12/05 13:45	12/14/05 15:00
GP30-S-6.0	B5L0339-14	Soil	12/12/05 14:24	12/14/05 15:00
GP31-S-1.0	B5L0339-15	Soil	12/12/05 14:42	12/14/05 15:00
GP31-S-6.0	B5L0339-16	Soil	12/12/05 14:55	12/14/05 15:00
GP19-S-1.0	B5L0339-19	Soil	12/13/05 10:30	12/14/05 15:00
GP18-S-1.0	B5L0339-26	Soil	12/13/05 13:35	12/14/05 15:00

North Creek Analytical - Bothell

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Cherie Howland For Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP29-S-1.0 (B5L0339-11) Soil** Sampled: 12/12/05 13:45 Received: 12/14/05 15:00 Q-29

Acenaphthene	ND	0.0119	mg/kg dry	1	6A10030	01/10/06	01/12/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0119	"	"	"	"	"	"	
Anthracene	0.0137	0.0119	"	"	"	"	"	"	
Benzo (a) anthracene	0.0750	0.0119	"	"	"	"	"	"	
Benzo (a) pyrene	0.0571	0.0119	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0611	0.0119	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0703	0.0119	"	"	"	"	"	"	
Benzo (b & k) fluoranthene	0.123	0.0237	"	"	"	"	"	"	
Benzo (ghi) perylene	0.0249	0.0119	"	"	"	"	"	"	
Chrysene	0.122	0.0119	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.0162	0.0119	"	"	"	"	"	"	Q-39
Fluoranthene	0.149	0.0119	"	"	"	"	"	"	
Fluorene	ND	0.0119	"	"	"	"	"	"	
no (1,2,3-cd) pyrene	0.0260	0.0119	"	"	"	"	"	"	
1-methylnaphthalene	ND	0.0119	"	"	"	"	"	"	
2-methylnaphthalene	ND	0.0119	"	"	"	"	"	"	
Naphthalene	ND	0.0119	"	"	"	"	"	"	
Phenanthrene	0.0382	0.0119	"	"	"	"	"	"	
Pyrene	0.156	0.0119	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	93.9 %	50-147			"	"	"	"	

**GP30-S-6.0 (B5L0339-14) Soil** Sampled: 12/12/05 14:24 Received: 12/14/05 15:00 Q-29

Acenaphthene	ND	0.0146	mg/kg dry	1	6A10030	01/10/06	01/13/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0146	"	"	"	"	"	"	
Anthracene	ND	0.0146	"	"	"	"	"	"	
Benzo (a) anthracene	0.0154	0.0146	"	"	"	"	"	"	Q-38
Benzo (a) pyrene	ND	0.0146	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0146	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0146	"	"	"	"	"	"	
Benzo (b & k) fluoranthene	ND	0.0291	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0146	"	"	"	"	"	"	
Chrysene	0.0334	0.0146	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0146	"	"	"	"	"	"	
Fluoranthene	0.0467	0.0146	"	"	"	"	"	"	
Fluorene	ND	0.0146	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0146	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0146	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0146	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alán Hughes

Reported:  
 01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP30-S-6.0 (B5L0339-14) Soil</b> Sampled: 12/12/05 14:24 Received: 12/14/05 15:00 <span style="float:right">Q-29</span>									
Naphthalene	ND	0.0146	mg/kg dry	1	6A10030	01/10/06	01/13/06	EPA 8270-SIM	
Phenanthrene	0.0258	0.0146	"	"	"	"	"	"	
Pyrene	0.0531	0.0146	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	128 %	50-147			"	"	"	"	
<b>GP31-S-1.0 (B5L0339-15) Soil</b> Sampled: 12/12/05 14:42 Received: 12/14/05 15:00 <span style="float:right">Q-29</span>									
Acenaphthene	ND	0.0117	mg/kg dry	1	6A10030	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0117	"	"	"	"	"	"	
Anthracene	ND	0.0117	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0117	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0117	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0117	"	"	"	"	"	"	Q-39
Benzo (k) fluoranthene	ND	0.0117	"	"	"	"	"	"	Q-39
Benzo (b & k) fluoranthene	ND	0.0233	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0117	"	"	"	"	"	"	
Chrysene	0.0340	0.0117	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0117	"	"	"	"	"	"	Q-39
Fluoranthene	0.0253	0.0117	"	"	"	"	"	"	
Fluorene	ND	0.0117	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0117	"	"	"	"	"	"	Q-39
1-Methylnaphthalene	ND	0.0117	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0117	"	"	"	"	"	"	
Naphthalene	ND	0.0117	"	"	"	"	"	"	
Phenanthrene	0.0153	0.0117	"	"	"	"	"	"	
Pyrene	0.0254	0.0117	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	89.7 %	50-147			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

GP31-S-6.0 (B5L0339-16) Soil Sampled: 12/12/05 14:55 Received: 12/14/05 15:00

Q-29

Acenaphthene	ND	0.0134	mg/kg dry	1	6A10030	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0134	"	"	"	"	"	"	
Anthracene	ND	0.0134	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0211</b>	0.0134	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0176</b>	0.0134	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0261</b>	0.0134	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0178</b>	0.0134	"	"	"	"	"	"	
<b>Benzo (b &amp; k) fluoranthene</b>	<b>0.0432</b>	0.0268	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0134	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0449</b>	0.0134	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0134	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0517</b>	0.0134	"	"	"	"	"	"	
Fluorene	ND	0.0134	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0134	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0134	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0134	"	"	"	"	"	"	
Naphthalene	ND	0.0134	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>0.0287</b>	0.0134	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0500</b>	0.0134	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	89.2 %	50-147							

GP19-S-1.0 (B5L0339-19) Soil Sampled: 12/13/05 10:30 Received: 12/14/05 15:00

Q-29

Acenaphthene	ND	0.0124	mg/kg dry	1	6A10030	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0124	"	"	"	"	"	"	
Anthracene	ND	0.0124	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0124	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0124	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0124	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0124	"	"	"	"	"	"	
Benzo (b & k) fluoranthene	ND	0.0247	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0124	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0127</b>	0.0124	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0124	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0245</b>	0.0124	"	"	"	"	"	"	
Fluorene	ND	0.0124	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0124	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0124	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0124	"	"	"	"	"	"	

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>GP19-S-1.0 (B5L0339-19) Soil</b>										
Sampled: 12/13/05 10:30 Received: 12/14/05 15:00										Q-29
Naphthalene	ND	0.0124		mg/kg dry	1	6A10030	01/10/06	01/17/06	EPA 8270-SIM	
Phenanthrene	0.0161	0.0124		"	"	"	"	"	"	
Pyrene	0.0203	0.0124		"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	88.3 %	50-147				"	"	"	"	
<b>GP18-S-1.0 (B5L0339-26) Soil</b>										
Sampled: 12/13/05 13:35 Received: 12/14/05 15:00										Q-29
Acenaphthene	ND	0.0111		mg/kg dry	1	6A10030	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0111		"	"	"	"	"	"	
Anthracene	ND	0.0111		"	"	"	"	"	"	
Benzo (a) anthracene	0.0235	0.0111		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0111		"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0746	0.0111		"	"	"	"	"	"	Q-39
Benzo (k) fluoranthene	0.0560	0.0111		"	"	"	"	"	"	Q-39
Benzo (b & k) fluoranthene	0.137	0.0221		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0111		"	"	"	"	"	"	
Chrysene	0.0717	0.0111		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0111		"	"	"	"	"	"	Q-39
Fluoranthene	0.195	0.0111		"	"	"	"	"	"	
Fluorene	ND	0.0111		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0111		"	"	"	"	"	"	Q-39
1-Methylnaphthalene	0.0167	0.0111		"	"	"	"	"	"	
2-Methylnaphthalene	0.0202	0.0111		"	"	"	"	"	"	
Naphthalene	0.0179	0.0111		"	"	"	"	"	"	
Phenanthrene	0.109	0.0111		"	"	"	"	"	"	
Pyrene	0.0884	0.0111		"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	85.9 %	50-147				"	"	"	"	

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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**Batch 6A10030: Prepared 01/10/06 Using EPA 3550B**

**Blank (6A10030-BLK1)**

Acenaphthene	ND	0.0100	mg/kg wet							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (b & k) fluoranthene	ND	0.0200	"							
Benzo (ghi) perylene	ND	0.0100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							Q-39
anthene	ND	0.0100	"							
Fluorene	ND	0.0100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.0100	"							
2-Methylnaphthalene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							
Surrogate: p-Terphenyl-d14	1.84		"	1.67		110	50-147			

**Blank (6A10030-BLK2)**

Acenaphthene	ND	0.0100	mg/kg wet							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (b & k) fluoranthene	ND	0.0200	"							
Benzo (ghi) perylene	ND	0.0100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.0100	"							

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A10030: Prepared 01/10/06 Using EPA 3550B**

**Blank (6A10030-BLK2)**

Fluorene	ND	0.0100	mg/kg wet							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.0100	"							
2-Methylnaphthalene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							
Surrogate: p-Terphenyl-d14	1.41		"	1.67		84.4	50-147			

**LCS (6A10030-BS1)**

Acenaphthene	0.545	0.0100	mg/kg wet	0.667		81.7	70-125			
Acenaphthylene	0.636	0.0100	"	0.667		95.4	70-133			
Anthracene	0.743	0.0100	"	0.667		111	70-152			
Benzo (a) anthracene	0.709	0.0100	"	0.667		106	60-125			
Benzo (a) pyrene	0.721	0.0100	"	0.667		108	64-134			
Benzo (b) fluoranthene	0.743	0.0100	"	0.667		111	62-147			
Benzo (k) fluoranthene	0.642	0.0100	"	0.667		96.3	60-144			
Benzo (ghi) perylene	0.462	0.0100	"	0.667		69.3	57-137			
Chrysene	0.768	0.0100	"	0.667		115	70-139			
Dibenz (a,h) anthracene	0.481	0.0100	"	0.667		72.1	56-140			Q-39
Fluoranthene	0.838	0.0100	"	0.667		126	70-141			
Fluorene	0.610	0.0100	"	0.667		91.5	76-132			
Indeno (1,2,3-cd) pyrene	0.543	0.0100	"	0.667		81.4	55-138			
1-Methylnaphthalene	0.606	0.0100	"	0.667		90.9	46-128			
2-Methylnaphthalene	0.598	0.0100	"	0.667		89.7	41-125			
Naphthalene	0.589	0.0100	"	0.667		88.3	43-125			
Phenanthrene	0.626	0.0100	"	0.667		93.9	73-125			
Pyrene	0.745	0.0100	"	0.667		112	68-140			
Surrogate: p-Terphenyl-d14	2.12		"	1.67		127	50-147			

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A10030: Prepared 01/10/06 Using EPA 3550B**

**LCS Dup (6A10030-BSD1)**

Acenaphthene	0.631	0.0100	mg/kg wet	0.667		94.6	70-125	14.6	40	
Acenaphthylene	0.702	0.0100	"	0.667		105	70-133	9.87	40	
Anthracene	0.809	0.0100	"	0.667		121	70-152	8.51	40	
Benzo (a) anthracene	0.758	0.0100	"	0.667		114	60-125	6.68	40	
Benzo (a) pyrene	0.782	0.0100	"	0.667		117	64-134	8.12	26	
Benzo (b) fluoranthene	0.772	0.0100	"	0.667		116	62-147	3.83	40	
Benzo (k) fluoranthene	0.706	0.0100	"	0.667		106	60-144	9.50	40	
Benzo (ghi) perylene	0.681	0.0100	"	0.667		102	57-137	38.3	40	
Chrysene	0.829	0.0100	"	0.667		124	70-139	7.64	24	
Dibenz (a,h) anthracene	0.616	0.0100	"	0.667		92.4	56-140	24.6	40	Q-39
Fluoranthene	0.859	0.0100	"	0.667		129	70-141	2.47	40	
ene	0.690	0.0100	"	0.667		103	76-132	12.3	43	
io (1,2,3-cd) pyrene	0.708	0.0100	"	0.667		106	55-138	26.4	39	
1-Methylnaphthalene	0.664	0.0100	"	0.667		99.6	46-128	9.13	40	
2-Methylnaphthalene	0.643	0.0100	"	0.667		96.4	41-125	7.25	40	
Naphthalene	0.643	0.0100	"	0.667		96.4	43-125	8.77	40	
Phenanthrene	0.669	0.0100	"	0.667		100	73-125	6.64	40	
Pyrene	0.768	0.0100	"	0.667		115	68-140	3.04	40	
Surrogate: p-Terphenyl-d14	2.25		"	1.67		135	50-147			

**Matrix Spike (6A10030-MS1)**

**Source: B5L0339-11**

Acenaphthene	0.727	0.0120	mg/kg dry	0.801	ND	90.8	67-132			
Acenaphthylene	0.806	0.0120	"	0.801	ND	101	65-142			
Anthracene	0.950	0.0120	"	0.801	0.0137	117	66-158			
Benzo (a) anthracene	0.836	0.0120	"	0.801	0.0750	95.0	41-156			
Benzo (a) pyrene	0.795	0.0120	"	0.801	0.0571	92.1	52-148			
Benzo (b) fluoranthene	0.662	0.0120	"	0.801	0.0611	75.0	53-151			
Benzo (k) fluoranthene	0.963	0.0120	"	0.801	0.0703	111	46-161			
Benzo (ghi) perylene	0.549	0.0120	"	0.801	0.0249	65.4	26-154			
Chrysene	0.949	0.0120	"	0.801	0.122	103	55-155			
Dibenz (a,h) anthracene	0.552	0.0120	"	0.801	0.0162	66.9	27-157			Q-39
Fluoranthene	0.928	0.0120	"	0.801	0.149	97.3	46-172			
Fluorene	0.771	0.0120	"	0.801	0.00466	95.7	66-143			
Indeno (1,2,3-cd) pyrene	0.654	0.0120	"	0.801	0.0260	78.4	24-159			
1-Methylnaphthalene	0.702	0.0120	"	0.801	0.00529	87.0	39-140			

North Creek Analytical - Bothell

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Cherie Howland For Jeff Gerdes, Project Manager

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/18/06 15:22

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A10030: Prepared 01/10/06 Using EPA 3550B**

**Matrix Spike (6A10030-MS1)**

**Source: B5L0339-11**

2-Methylnaphthalene	0.679	0.0120	mg/kg dry	0.801	0.00458	84.2	32-139			
Naphthalene	0.741	0.0120	"	0.801	0.00482	91.9	38-134			
Phenanthrene	0.799	0.0120	"	0.801	0.0382	95.0	63-139			
Pyrene	0.825	0.0120	"	0.801	0.156	83.5	51-172			
Surrogate: p-Terphenyl-d14	2.42		"	2.00		121	50-147			

**Matrix Spike Dup (6A10030-MSD1)**

**Source: B5L0339-11**

Acenaphthene	0.704	0.0118	mg/kg dry	0.785	ND	89.7	67-132	3.21	50	
Acenaphthylene	0.764	0.0118	"	0.785	ND	97.3	65-142	5.35	50	
Anthracene	0.885	0.0118	"	0.785	0.0137	111	66-158	7.08	50	
Benzo (a) anthracene	0.842	0.0118	"	0.785	0.0750	97.7	41-156	0.715	50	
Benzo (a) pyrene	0.812	0.0118	"	0.785	0.0571	96.2	52-148	2.12	50	
Benzo (b) fluoranthene	0.903	0.0118	"	0.785	0.0611	107	53-151	30.8	50	
Benzo (k) fluoranthene	0.722	0.0118	"	0.785	0.0703	83.0	46-161	28.6	50	
Benzo (ghi) perylene	0.508	0.0118	"	0.785	0.0249	61.5	26-154	7.76	50	
Chrysene	0.994	0.0118	"	0.785	0.122	111	55-155	4.63	44	
Dibenz (a,h) anthracene	0.511	0.0118	"	0.785	0.0162	63.0	27-157	7.71	50	Q-39
Fluoranthene	1.00	0.0118	"	0.785	0.149	108	46-172	7.47	50	
Fluorene	0.729	0.0118	"	0.785	0.00466	92.3	66-143	5.60	52	
Indeno (1,2,3-cd) pyrene	0.609	0.0118	"	0.785	0.0260	74.3	24-159	7.13	43	
1-Methylnaphthalene	0.651	0.0118	"	0.785	0.00529	82.3	39-140	7.54	50	
2-Methylnaphthalene	0.627	0.0118	"	0.785	0.00458	79.3	32-139	7.96	50	
Naphthalene	0.699	0.0118	"	0.785	0.00482	88.4	38-134	5.83	50	
Phenanthrene	0.763	0.0118	"	0.785	0.0382	92.3	63-139	4.61	50	
Pyrene	0.883	0.0118	"	0.785	0.156	92.6	51-172	6.79	50	
Surrogate: p-Terphenyl-d14	2.22		"	1.96		113	50-147			

North Creek Analytical - Bothell

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*Cherie Howland*

Cherie Howland For Jeff Gerdes, Project Manager

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509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

**Reported:**  
01/18/06 15:22

### Notes and Definitions

- Q-29 This sample was prepared outside of the method established holding time.
- Q-38 The internal standard associated with this analyte was biased high and outside acceptance criteria. Re-analysis verified the original result.
- Q-39 The internal standard associated with this analyte was biased low and outside acceptance criteria. Re-analysis verified the original result.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Cherie Howland For Jeff Gerdes, Project Manager

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425.420.9200 fax 425.420.9210

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509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

25 January 2006

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665  
RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/14/05 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes  
Project Manager



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
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541.383.9310 fax 541.382.7588  
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907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/25/06 16:05

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP26-S-1.0	B5L0339-03	Soil	12/12/05 10:35	12/14/05 15:00
GP17-S-6.0	B5L0339-18	Soil	12/13/05 10:00	12/14/05 15:00
GP16-S-1.0	B5L0339-22	Soil	12/13/05 11:06	12/14/05 15:00
GP18-S-1.0	B5L0339-26	Soil	12/13/05 13:35	12/14/05 15:00

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/25/06 16:05

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>GP26-S-1.0 (B5L0339-03) Soil</b> <b>Sampled: 12/12/05 10:35</b> <b>Received: 12/14/05 15:00</b>										
pH	7.59			pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>GP17-S-6.0 (B5L0339-18) Soil</b> <b>Sampled: 12/13/05 10:00</b> <b>Received: 12/14/05 15:00</b>										
pH	7.36			pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>GP16-S-1.0 (B5L0339-22) Soil</b> <b>Sampled: 12/13/05 11:06</b> <b>Received: 12/14/05 15:00</b>										
pH	7.92			pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>GP18-S-1.0 (B5L0339-26) Soil</b> <b>Sampled: 12/13/05 13:35</b> <b>Received: 12/14/05 15:00</b>										
pH	5.26			pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	

Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 509.924.9200 fax 509.924.9290  
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 541.383.9310 fax 541.382.7588  
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Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 01/25/06 16:05
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**Physical Parameters per APHA/ASTM/EPA Methods**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP26-S-1.0 (BSL0339-03) Soil</b> Sampled: 12/12/05 10:35 Received: 12/14/05 15:00									
Oxidation/Reduction Potential	408.8	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>GP17-S-6.0 (BSL0339-18) Soil</b> Sampled: 12/13/05 10:00 Received: 12/14/05 15:00									
Oxidation/Reduction Potential	360.3	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>GP16-S-1.0 (BSL0339-22) Soil</b> Sampled: 12/13/05 11:06 Received: 12/14/05 15:00									
Oxidation/Reduction Potential	373.4	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>GP18-S-1.0 (BSL0339-26) Soil</b> Sampled: 12/13/05 13:35 Received: 12/14/05 15:00									
Oxidation/Reduction Potential	380.7	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 509.924.9200 fax 509.924.9290  
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 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/25/06 16:05
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A20037: Prepared 01/20/06 Using General Preparation**

<b>Duplicate (6A20037-DUP1)</b>					<b>Source: B5L0339-03</b>					
pH	7.62		pH Units		7.59			0.394	10	
<b>Duplicate (6A20037-DUP2)</b>					<b>Source: B6A0344-01</b>					
pH	8.03		pH Units		8.01			0.249	10	

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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/25/06 16:05
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Physical Parameters per APHA/ASTM/EPA Methods - Quality Control**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 6010883: Prepared 01/23/06 Using General Preparation**

**LCS (6010883-BS1)**

Oxidation/Reduction Potential	458.0	-999.0	mV	476.0		96.2	75-125			
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**Duplicate (6010883-DUP1)**

Oxidation/Reduction Potential	411.4	-999.0	mV		Source: B5L0339-03	408.8		0.634	200	I-05
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North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290  
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541.383.9310 fax 541.382.7588  
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907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/25/06 16:05

### Notes and Definitions

I-05 This sample was received outside EPA recommended holding time.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210  
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588  
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### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0339**

NCA CLIENT:		INVOICE TO:				<b>TURNAROUND REQUEST</b> In Business Days * Organic & Inorganic Analyses <input type="checkbox"/> M <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 OTHER Specify: _____ <small>* Turnaround Request by Air available only for Bulk Shipments.</small>					
REPORT TO: Alan Hughes Main Foster & Alongi ADDRESS: 7223 NE Hazel Dell Suite B Vancouver, WA PHONE: (971) 544-2139 FAX:		P.O. NUMBER: 8006-08-04									
PROJECT NAME: Precision Engineering PROJECT NUMBER: 8006.08.04		PRESERVATIVE									
SAMPLED BY: Meri Gibson		REQUESTED ANALYSES									
		Cr: (Cp)	VOCs (limited)	ANMPH-DX	PP Metals			MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME										
1 GP25-S-1.0	12/12/05 9:50							S	5		01
2 GP25-S-7.0	12/12/05 10:10							S	5		02
3 GP26-S-1.0	12/12/05 10:35							S	5		03
4 GP26-S-7.0	12/12/05 10:50							S	5		04
5 GP26-S-9.5	12/12/05 11:10							S	5		05
6 GP27-S-1.0	12/12/05 11:25							S	5		06
7 GP27-S-6.5	12/12/05 11:37							S	5		07
8 GP27-S-13.0	12/12/05 12:10							S	5		08
9 GP28-S-1.0	12/12/05 12:30							S	5		09
10 GP28-S-7.0	12/12/05 12:40							S	5		10
RELEASED BY: Meri Gibson		DATE: 12/14/05		RECEIVED BY: Tom Blankinship		DATE: 12/14/05					
PRINT NAME: Meri Gibson		FIRM: MFA		TIME: 11:55		PRINT NAME: Blankinship		FIRM: NCA		TIME: 1155	
RELEASED BY: Tom Blankinship		DATE: 12/14/05		RECEIVED BY: Jon Hollers		DATE: 12/14/05					
PRINT NAME: Tom Blankinship		FIRM: MFA		TIME: 1500		PRINT NAME: Jon Hollers		FIRM: NCA		TIME: 1500	
ADDITIONAL REMARKS:										TERM:	
COC REV 09/04										w/ M.F. PAGE 1 OF 4	



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 425-9210  
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 509-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 503-906-9200  
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

### CHAIN OF CUSTODY REPORT

Work Order #: **B500339**

NCA CLIENT:		INVOICE TO:				<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analysis <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analysis <input type="checkbox"/> 1 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify _____ <small>* Turnaround Request by this number applies to all charges.</small>							
REPORT TO: <b>Maul Foster &amp; Mangi</b> ADDRESS: <b>7223 NE Hazel Dell Ave. Suite B</b> <b>Vancouver, WA</b> PHONE: _____ FAX: _____		P.O. NUMBER:											
PROJECT NAME: <b>Precision Engineering</b> PROJECT NUMBER: <b>8006.08.04</b> SAMPLED BY: <b>Meri Gibson</b>		<b>PRESERVATIVE</b>											
		<b>REQUESTED ANALYSES</b>											
		Cr&G6	VOCs (limited)	NUPH-IX	PP Metals					MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA W/O ID
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME												
1 GP29-S-1.0	12/12/05 13:45									S	5		11
2 GP29-S-6.0	12/12/05 13:55									S	5		12
3 GP30-S-1.0	12/12/05 14:10									S	5		13
4 GP30-S-6.0	12/12/05 14:24									S	5		14
5 GP31-S-1.0	12/12/05 14:42									S	5		15
6 GP31-S-6.0	12/12/05 14:55									S	5		16
7 GP17-S-1.0	12/13/05 9:50									S	5		17
8 GP17-S-6.0	12/13/05 10:00									S	5		18
9 GP19-S-1.0	12/13/05 10:30									S	5		19
10 GP DUP-S-1.0	12/13/05 10:30									S	5		20

RELEASED BY: <i>Meri Gibson</i>	DATE: 12/14/05	RECEIVED BY: <i>Tom [Signature]</i>	DATE: 12/14/05
PRINT NAME: <b>Meri Gibson</b>	TIME: 11:55	PRINT NAME: <b>Tom [Signature]</b>	TIME: 11:55
FIRM: <b>MFA</b>		FIRM: <b>MFA</b>	
RELEASED BY: <i>Tom [Signature]</i>	DATE: 12/14/05	RECEIVED BY: <i>Jon [Signature]</i>	DATE: 12/14/05
PRINT NAME: <b>Tom [Signature]</b>	TIME: 1:00	PRINT NAME: <b>Jon [Signature]</b>	TIME: 1:00
FIRM: <b>MFA</b>		FIRM: <b>NCA</b>	

ADDITIONAL REMARKS: \_\_\_\_\_

TEMP: **4.6°** PAGE 2 OF 4



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 425-9210  
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97006-7145 503-906-9200 FAX 906-9210  
 20332 Empire Ave, Ste F1, Beav, OR 97701-5712 541-383-9310 FAX 382-7588  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0339**

NCA CLIENT:		INVOICE TO:		<b>TURNAROUND REQUEST</b> In Business Days * Organic & Inorganic Analyses <input type="checkbox"/> M <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 1 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify: _____ <small>* Turnaround Request may vary depending on test and changes.</small>					
REPORT TO: <b>Mani Foster &amp; Alangi</b>		P.O. NUMBER:							
ADDRESS: <b>7223 NE Hazel Dell Ave Suite B Vancouver, WA</b>									
PHONE: _____ FAX: _____									
PROJECT NAME: <b>Precision Engineering</b>		PRESERVATIVE							
PROJECT NUMBER: <b>8006.09.04</b>		REQUESTED ANALYSES							
SAMPLED BY: <b>Mani Gibson</b>									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cr/Cr6	VOCs (limited)	NUMPH-DX	PP Metals	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA W/O ID
1 GP19-S-7.0	12/13/05 10:45					S	5		21
2 GP16-S-1.0	12/13/05 11:06					S	5		22
3 GP16-S-5.0	12/13/05 11:22					S	5		23
4 GP14-S-3.0	12/13/05 12:20					S	5		24
5 GP14-S-6.0	12/13/05 12:37					S	5		25
6 GP18-S-1.0	12/13/05 13:35					S	5		26
7 GP22-S-1.0	12/13/05 14:10					S	5		27
8 GP22-S-5.0	12/13/05 14:20					S	5		28
9 GP22-S-10.0	12/13/05 14:40					S	5		29
10 GP12-S-3.0	12/13/05 15:00					S	5		30
RELEASED BY: <b>Mani Gibson</b>	DATE: <b>12/14/05</b>	RECEIVED BY: <b>Tom Blantz</b>	DATE: <b>12/14/05</b>						
PRINT NAME: <b>Mani Gibson</b>	FIRM: <b>MFA</b>	TIME: <b>11:55</b>	TIME: <b>11:55</b>						
RELEASED BY: <b>Tom Blantz</b>	DATE: <b>12/14/05</b>	RECEIVED BY: <b>Don Walker</b>	DATE: <b>12/14/05</b>						
PRINT NAME: _____	FIRM: _____	TIME: <b>1500</b>	TIME: <b>1500</b>						
ADDITIONAL REMARKS:									TEMP: _____
COC REV 09/04									w/ 44 PAGE 3 OF 4



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 MO-9210  
 11922 E 1st Ave, Spokane, WA 99206-3302 509-924-9200 14-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 16-9210  
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

**CHAIN OF CUSTODY REPORT**

Work Order #: **B5L0339**

NCA CLIENT:		INVOICE TO:		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> 0 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> 0 <input type="checkbox"/> OTHER Specify:							
REPORT TO: <b>Mani Foster &amp; Alangi</b> ADDRESS: <b>7223 NE Hazel Dell Ave. Vancouver, WA</b> PHONE: FAX:		P.O. NUMBER:									
PROJECT NAME: <b>Precision Engineering</b> PROJECT NUMBER: <b>8006.08.04</b> SAMPLED BY: <b>Mani Gibson</b>		PRESERVATIVE									
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		REQUESTED ANALYSES				MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 GP12-S-5.0		12/13/05 15:14						S	2		31
2 GP15-S-3.0		12/13/05 15:34						S	5		32
3 GP15-S-6.0		12/13/05 15:45						S	5		33
4 Trip Blank		12/13/05						W	3		34
5											
6											
7											
8											
9											
10											
RELEASED BY: <b>Mani Gibson</b> PRINT NAME: <b>Mani Gibson</b> FIRM: <b>MFA</b>		DATE: <b>12/14/05</b> TIME: <b>11:55</b>		RECEIVED BY: <b>Tom Blunt</b> PRINT NAME: <b>Tom Blunt</b> FIRM:				DATE: <b>12/14/05</b> TIME: <b>11:55</b>			
RELEASED BY: <b>Tom Blunt</b> PRINT NAME: <b>Tom Blunt</b> FIRM:		DATE: <b>12/14/05</b> TIME: <b>15:50</b>		RECEIVED BY: <b>Don Holler</b> PRINT NAME: <b>Don Holler</b> FIRM: <b>NCA</b>				DATE: <b>12/14/05</b> TIME: <b>1500</b>			
ADDITIONAL REMARKS:								TEMP: <b>4°C</b>			
COC REV 09/04								w/ 4°C PAGE 9 OF 9			



# Revised Chain of Custody

11720 North Creek Dr., W. Suite 400, Bellingham, WA 98231-8244    360-836-9580    FAX 360-938-1198  
 11922 E 3rd Ave, Spokane, WA 99206-2782    509-326-9300    FAX 509-326-9300  
 9411 SW Hudson Ave, Beaverton, OR 97008-7145    503-506-9800    FAX 503-506-9800  
 30332 Canyon Ave, Ste P1, Bend, OR 97701-3772    541-333-7580    FAX 541-333-7580  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99503-1119    907-563-9800    FAX 907-563-9800

## CHAIN OF CUSTODY REPORT

Work Order #: B5L0339

NCA CLIENT:		INVOICE TO:		TURBIDIMETER REQUEST							
REPORT TO: Alan Hughes Paul Foster & King ADDRESS: 7223 NE Hazel Dell Suite B Vancouver, WA PHONE: (360) 544-2389 FAX:		P.O. NUMBER: 8006-08-04		In Surface Water Detailed & Intensive Analysis Residuals & Suspended Solids Analysis <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OTHER _____							
PROJECT NAME: Precision Engineering PROJECT NUMBER: 8006.08.04		PRESERVATIVE		REQUESTED ANALYSES							
SAMPLED BY: Meri Gibson		Cr:Cu	POC	ANIONIC DP	PR	Metals	MATRIX (W, S, O)	DUP CONT.	LOCATION/ COMMENTS	NCA WO-ID	
1 GP25-S-1.0	12/12/05 9:50	X	X				S	5		01	
2 GP25-S-7.0	12/12/05 10:10	X	X	X			S	5		02	
3 GP26-S-1.0	12/12/05 10:35	X	X	X			S	5		03	
4 GP26-S-7.0	12/12/05 10:50						S	5		04	
5 GP26-S-9.5	12/12/05 11:10	X	X	X			S	5		05	
6 GP27-S-1.0	12/12/05 11:25	X	X				S	5		06	
7 GP27-S-6.5	12/12/05 11:37						S	5		07	
8 GP27-S-13.0	12/12/05 12:10	X	X	X			S	5		08	
9 GP28-S-1.0	12/12/05 12:30	X	X	X	X		S	5		09	
10 GP28-S-7.0	12/12/05 12:40	X	X	X			S	5		10	
RELEASED BY: Meri Gibson	DATE:	RECEIVED BY:	DATE:								
PRINT NAME: Meri Gibson	TIME:	PRINT NAME:	TIME:								
RELEASED BY:	DATE:	RECEIVED BY:	DATE:								
PRINT NAME:	TIME:	PRINT NAME:	TIME:								
ADDITIONAL REMARKS: ARCHIVE EXTRA SOIL FOR POSSIBLE FOLLOW-UP ANALYSES. LIMITED YR LIST INCLUDES TOE, CIS-1,2-DCE, TRANS-1,2-DCE, VINYL CHLORIDE, MEK											
COPIES ON: <span style="float: right;">Page 4</span>											



# Revised Chain of Custody

11720 Hwy 60 Cash Pkwy N Ste 400, Bothell, WA 98011-3244 425-486-9900 FAX 425-486-9901  
 11962 E 1st Ave, Spokane, WA 99206-5362 509-894-9900 FAX 509-894-9901  
 5825 NW Nishler Ave, Medford, OR 97504-2143 503-984-9900 FAX 503-984-9901  
 2628 Naylor Ave, Ste FL, Renton, WA 98056-3792 206-883-9900 FAX 206-883-9901  
 2001 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9900 FAX 907-563-9901

## CHAIN OF CUSTODY REPORT

Work Order #

35L0339

NCA CLIENT		DIVISION TO:				TUNNINGFORD REQUEST							
REPORT TO: Maui Foster d. Alongi						In Motion Dept.							
ADDRESS: 7223 NE Hazel Dell Ave. Suite B						Digital & Forensic Analysis							
Vancouver, WA						<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
PHONE:	FAX:	P.O. NUMBER:				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
PROJECT NAME: Precision Engineering		PRESERVATIVE				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
PROJECT NUMBER: 8006.09.04		REQUESTED ANALYSES				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
SAMPLED BY: Man Gibson						<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	CP (C/O)	YOC (Y/N)	WAP (Y/N)	Technals					MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WORD
GP29-S-1.0	12/12/05 13:45	X	X	X	X					S	5		11
GP29-S-6.0	12/12/05 13:55	X	X	X						S	5		12
GP30-S-1.0	12/12/05 14:10	X	X	X						S	5		13
GP30-S-6.0	12/12/05 14:24	X	X	X						S	5		14
GP31-S-1.0	12/12/05 14:42	X	X	X	X					S	5		15
GP31-S-6.0	12/12/05 14:55	X	X	X						S	5		16
GP17-S-1.0	12/13/05 9:50	X	X	X						S	5		17
GP17-S-6.0	12/13/05 10:00	X	X							S	5		18
GP19-S-1.0	12/13/05 10:30	X	X	X						S	5		19
GP DWP-S-1.0	12/13/05 10:30	X	X	X						S	5		20
RELEASED BY: <i>[Signature]</i>	DATE:	RECEIVED BY:		DATE:									
PRINT NAME: Man Gibson	TIME:	FIRM: MFA		TIME:									
RELEASED BY:	DATE:	RECEIVED BY:		DATE:									
PRINT NAME:	TIME:	FIRM:		TIME:									
ADDITIONAL REMARKS:										TEST:			
COC REV 8/04										PAGE 2 OF 4			

PREP-1-2380 14:29 FROM: PRECISION ENG. 12067646299 TO: 13892061998 P.2/2.5



# Revised Chain of Custody

1720 North Creek Pkwy N Suite 408, Spokane, WA 99211-9344 425-478-9200 FAX 425-478-9210  
 11922 E 1st Ave, Spokane, WA 99208-3102 509-324-9488 FAX 509-324-9488  
 9415 SW Market Ave, Beaverton, OR 97008-4145 503-626-8928 FAX 503-626-8928  
 28031 Magline Ave, Ft. Worth, TX 76179-3712 817-353-9328 FAX 817-353-9328  
 2200 W International Airport Rd Box A NE Anchorage, AK 99502-1119 907-563-2300 FAX 907-563-2300

## CHAIN OF CUSTODY REPORT

With Order #: **B5L0379**

NCA CLIENT:		INVOICE TO:		TO REMAIN REQUEST									
REPORT TO: <b>Mani Foster &amp; Almgren</b>		ADDRESS: <b>7223 NE Hazel Bell Ave Suite B</b>		In Request By:									
PHONE: <b>Vancon ver WA</b>		FAX:		Organic & Inorganic Analysis									
PROJECT NAME: <b>Precision Engineering</b>		PROJECT NUMBER: <b>8006.09.04</b>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>									
SAMPLED BY: <b>Mani Gibson</b>		PRESERVATIVE		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>									
		REQUESTED ANALYSES		OFFER <input type="checkbox"/> <input type="checkbox"/>									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cr/Cs	VOC Limited	MTW-DX	SPR	HEALS	MATRIX (N, S, G)	# OF CONT.	LOCATION/ COMMENTS	NCA W/O ID			
1. GP19-S-7.0	12/13/05 10:45	X	X	X			S	5		21			
2. GP16-S-7.0	12/13/05 11:06	X	X				S	5		22			
3. GP16-S-5.0	12/13/05 11:22	X	X	X			S	5		23			
4. GP14-S-3.0	12/13/05 12:20	X	X		X		S	5		24			
5. GP14-S-6.0	12/13/05 12:37	X	X	X			S	5		25			
6. GP19-S-1.0	12/13/05 13:35	X	X	X	X		S	5		26			
7. GP22-S-1.0	12/13/05 14:10	X	X				S	5		27			
8. GP22-S-5.0	12/13/05 14:20						S	5		28			
9. GP22-S-10.0	12/13/05 14:40	X	X	X			S	5		29			
10. GP12-S-3.0	12/13/05 15:00	X	X	X	X		S	5		30			
REL. BY: <b>Mani Gibson</b>	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:					
CLIENT NAME: <b>Mani Gibson</b>	FIRM: <b>MFA</b>	TIME:	CLIENT NAME:	FIRM:	TIME:	CLIENT NAME:	FIRM:	TIME:					
REL. BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:					
CLIENT NAME:	FIRM:	TIME:	CLIENT NAME:	FIRM:	TIME:	CLIENT NAME:	FIRM:	TIME:					
ADDITIONAL REMARKS:													
CONC REV 0704													
<table border="1" style="width: 100%;"> <tr> <td>NO. OF CONT.</td> <td>2</td> </tr> <tr> <td>PAGE</td> <td>4</td> </tr> </table>										NO. OF CONT.	2	PAGE	4
NO. OF CONT.	2												
PAGE	4												

MAR-1-2008 14:28 FROM:PRECISION ENG. 12067846099 TO:13609061958 P:3/5





# Revised Chain of Custody

1120 North Creek Pkwy N Suite 400, Seattle, WA 98148-1244  
 11072 N 1st Ave, Spokane, WA 99208-5282  
 9400 SW Meadows Ave, Beaverton, OR 97008-3143  
 28322 Empire Ave, San Pl. Beach, CA 91961-7712  
 2000 W International Airport Blvd Ste A10, Anchorage, AK 99583-1119

425-423-0282  
 509-924-8980  
 503-466-8880  
 561-382-8180  
 907-563-8700

FAX 42  
 FAX 204-8980  
 FAX 204-8140  
 FAX 303-4398  
 FAX 343-9718

## CHAIN OF CUSTODY REPORT

Work Order # **B5L0339**

NCA CLIENT:		SERVICE TO:		THERMOCOOL REQUEST					
REPORT TO: <b>Mail Foster &amp; Alanya</b>		F.O. NUMBER:		In Multiple Days *					
ADDRESS: <b>7223 NE Hazel Dell Ave. Vancouver, WA</b>				Organic & Inorganic Analysis					
PHONE: <b>FAX</b>				Random Spot-check Analysis					
PROJECT NAME: <b>Precision Engineering</b>		PRESERVATIVE		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
PROJECT NUMBER: <b>0006.08.04</b>		REQUESTED ANALYSIS		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
SAMPLED BY: <b>Men Gibson</b>				OTHER: <input type="checkbox"/> <input type="checkbox"/>					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Grains	Soils (Inorganic)	SWIN-DX	Metals	MATRIX (W, S, O)	% OF CONT.	LOCATION / COMMENTS	NCA WORK ID
1 GP12-S-5.0	12/13/05 15:14	X	X			S	2		31
2 GP15-S-3.0	12/13/05 15:34	X	X	X	X	S	5		32
3 GP15-S-6.0	12/13/05 15:45	X	X			S	5		33
4 Trip Blank	12/13/05					W	3		34
5									
6									
7									
8									
9									
10									
RELEASED BY: <b>Men Gibson</b>	DATE: <b>12/14/05</b>	RECEIVED BY:	DATE:						
PRINT NAME: <b>Men Gibson</b>	FROM: <b>MFA</b>	PRINT NAME:	TIME:						
RELEASED BY:	DATE:	RECEIVED BY:	DATE:						
PRINT NAME:	FROM:	PRINT NAME:	TIME:						
ADDITIONAL REMARKS:									<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COO REV 0904									PAGE <b>1</b> OF <b>1</b>

PAR-1-2000 14:29 FROM: PRECISION ENG. 12057646039 TO: 13609061958 P:4/5



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

## CASE NARRATIVE for B5L0418

Client: Maul Foster & Alongi  
Project Manager: Alan Hughes  
Project Name: Precision Engineering  
Project Number: 8006.08.04

### 1.0 DESCRIPTION OF CASE

Twelve seven soil samples were submitted on December 16, 2005 for the following analysis: Volatile Petroleum Products by NWTPH-Gx, Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Total Metals by EPA 6000/7000 Series Methods, Volatile Organic Compounds per EPA Method 8260B, and Conventional Chemistry Parameters by APHA/EPA Methods.

### 2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received on December 16, 2005, and logged in on December 17, 2005. The samples were received at a temperature of 3.4 °C.

### 3.0 PREPARATION AND ANALYSIS

#### *Volatile Petroleum Products by NWTPH-Gx*

No anomalies or discrepancies were associated with this analysis.

#### *Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Total Metals by EPA 6000/7000 Series Methods*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Volatile Organic Compounds per EPA Method 8260B*

The percent recovery for Acetone in the Blank Spike Duplicate (5L28013-BSD1) exceeded the established control limits. Because the associated samples were all non-detect for Acetone, no corrective action was necessary.

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Conventional Chemistry Parameters by APHA/EPA Methods*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

---

Jeff Gerdes  
Project Manager  
North Creek Analytical



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

12 January 2006

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665  
RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/16/05 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes  
Project Manager



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP13-S-1.0	B5L0418-01	Soil	12/14/05 08:15	12/16/05 16:45
GP13-S-6.0	B5L0418-02	Soil	12/14/05 08:30	12/16/05 16:45
GP21-S-1.0	B5L0418-03	Soil	12/14/05 08:50	12/16/05 16:45
GP21-S-6.5	B5L0418-04	Soil	12/14/05 08:57	12/16/05 16:45
GP20-S-1.0	B5L0418-05	Soil	12/14/05 09:15	12/16/05 16:45
GP20-S-6.0	B5L0418-06	Soil	12/14/05 09:30	12/16/05 16:45
GP15-W-8.0	B5L0418-07	Water	12/14/05 10:45	12/16/05 16:45
GP32-S-1.0	B5L0418-08	Soil	12/14/05 11:13	12/16/05 16:45
GP23-S-7.0	B5L0418-10	Soil	12/14/05 12:15	12/16/05 16:45
GP23-S-10.5	B5L0418-11	Soil	12/14/05 12:40	12/16/05 16:45
GP24-S-3.0	B5L0418-12	Soil	12/14/05 13:30	12/16/05 16:45
GPDUP-S-3.0	B5L0418-13	Soil	12/14/05 13:30	12/16/05 16:45
24-S-6.5	B5L0418-14	Soil	12/14/05 13:45	12/16/05 16:45
GP13-W-8.0	B5L0418-16	Water	12/14/05 14:45	12/16/05 16:45
HA1-0.5	B5L0418-17	Soil	12/15/05 11:15	12/16/05 16:45
HA1-1.5	B5L0418-18	Soil	12/15/05 11:45	12/16/05 16:45
HA2-0.5	B5L0418-19	Soil	12/15/05 12:45	12/16/05 16:45
HA2-1.5	B5L0418-20	Soil	12/15/05 13:00	12/16/05 16:45
HA3-0.5	B5L0418-21	Soil	12/15/05 13:45	12/16/05 16:45
HA3-1.5	B5L0418-22	Soil	12/15/05 14:00	12/16/05 16:45
HA4-0.5	B5L0418-23	Soil	12/15/05 14:20	12/16/05 16:45
HA4-1.5	B5L0418-24	Soil	12/15/05 14:30	12/16/05 16:45
HA5-0.5	B5L0418-25	Soil	12/15/05 14:55	12/16/05 16:45
HA5-1.5	B5L0418-26	Soil	12/15/05 15:10	12/16/05 16:45
HA-DUP	B5L0418-27	Soil	12/15/05 12:00	12/16/05 16:45
Trip Blank	B5L0418-28	Soil	12/15/05 12:00	12/16/05 16:45

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Petroleum Products by NWTPH-Gx**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA1-0.5 (B5L0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	11.4	9.89	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	90.4 %	50-150			"	"	"	"	
<b>HA1-1.5 (B5L0418-18) Soil Sampled: 12/15/05 11:45 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	6.57	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	103 %	50-150			"	"	"	"	
<b>HA2-0.5 (B5L0418-19) Soil Sampled: 12/15/05 12:45 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	8.20	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	85.2 %	50-150			"	"	"	"	
<b>HA2-1.5 (B5L0418-20) Soil Sampled: 12/15/05 13:00 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	4.79	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	89.9 %	50-150			"	"	"	"	
<b>HA3-0.5 (B5L0418-21) Soil Sampled: 12/15/05 13:45 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	7.58	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	86.4 %	50-150			"	"	"	"	
<b>HA3-1.5 (B5L0418-22) Soil Sampled: 12/15/05 14:00 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	5.65	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	91.7 %	50-150			"	"	"	"	
<b>HA4-0.5 (B5L0418-23) Soil Sampled: 12/15/05 14:20 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	22.1	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	95.5 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Petroleum Products by NWTPH-Gx**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA4-1.5 (BSL0418-24) Soil Sampled: 12/15/05 14:30 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	10.2	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	90.0 %	50-150			"	"	"	"	
<b>HA5-0.5 (BSL0418-25) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	21.3	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	92.2 %	50-150			"	"	"	"	
<b>HA5-1.5 (BSL0418-26) Soil Sampled: 12/15/05 15:10 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	8.11	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	95.5 %	50-150			"	"	"	"	
<b>HA-DUP (BSL0418-27) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45</b>									
Gasoline Range Hydrocarbons	ND	7.00	mg/kg dry	1	5L17015	12/17/05	12/18/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	98.1 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP13-S-6.0 (B5L0418-02) Soil Sampled: 12/14/05 08:30 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	ND	12.8	mg/kg dry	1	5L20040	12/20/05	12/23/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	56.1	32.1	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	93.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	99.1 %	50-150			"	"	"	"	
<b>GP21-S-1.0 (B5L0418-03) Soil Sampled: 12/14/05 08:50 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	ND	11.2	mg/kg dry	1	5L20040	12/20/05	12/23/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	28.0	"	"	"	"	"	"	
Surrogate: 2-FBP	90.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.8 %	50-150			"	"	"	"	
<b>GP21-S-6.5 (B5L0418-04) Soil Sampled: 12/14/05 08:57 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	5270	1310	mg/kg dry	100	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	19900	3270	"	"	"	"	"	"	
Surrogate: 2-FBP	ND	50-150			"	"	"	"	
Surrogate: Octacosane	ND	50-150			"	"	"	"	S-01
<b>GP20-S-1.0 (B5L0418-05) Soil Sampled: 12/14/05 09:15 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	198	11.7	mg/kg dry	1	5L20040	12/20/05	12/23/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	301	29.2	"	"	"	"	"	"	
Surrogate: 2-FBP	97.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.7 %	50-150			"	"	"	"	
<b>GP20-S-6.0 (B5L0418-06) Soil Sampled: 12/14/05 09:30 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	75.9	13.7	mg/kg dry	1	5L20040	12/20/05	12/23/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	294	34.3	"	"	"	"	"	"	
Surrogate: 2-FBP	103 %	50-150			"	"	"	"	
Surrogate: Octacosane	99.1 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP32-S-1.0 (B5L0418-08) Soil Sampled: 12/14/05 11:13 Received: 12/16/05 16:45**

Diesel Range Hydrocarbons	ND	11.3	mg/kg dry	1	5L20040	12/20/05	12/23/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	28.3	"	"	"	"	"	"	
Surrogate: 2-FBP	100 %	50-150			"	"	"	"	
Surrogate: Octacosane	99.6 %	50-150			"	"	"	"	

**GP23-S-7.0 (B5L0418-10) Soil Sampled: 12/14/05 12:15 Received: 12/16/05 16:45**

Diesel Range Hydrocarbons	ND	10.8	mg/kg dry	1	5L20040	12/20/05	12/23/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	26.9	"	"	"	"	"	"	
Surrogate: 2-FBP	97.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	103 %	50-150			"	"	"	"	

**GP24-S-3.0 (B5L0418-12) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45**

Diesel Range Hydrocarbons	ND	11.1	mg/kg dry	1	5L20040	12/20/05	12/23/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.8	"	"	"	"	"	"	
Surrogate: 2-FBP	98.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	103 %	50-150			"	"	"	"	

**HA1-0.5 (B5L0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45**

Diesel Range Hydrocarbons	210	151	mg/kg dry	10	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	1170	377	"	"	"	"	"	"	
Surrogate: 2-FBP	84.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.7 %	50-150			"	"	"	"	

**HA1-1.5 (B5L0418-18) Soil Sampled: 12/15/05 11:45 Received: 12/16/05 16:45**

Diesel Range Hydrocarbons	37.6	13.2	mg/kg dry	1	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	182	33.0	"	"	"	"	"	"	
Surrogate: 2-FBP	96.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.3 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

*Jeff Gerdes*

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
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**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA2-0.5 (BSL0418-19) Soil</b> Sampled: 12/15/05 12:45 Received: 12/16/05 16:45									
Diesel Range Hydrocarbons	636	179	mg/kg dry	10	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	3170	448	"	"	"	"	"	"	
Surrogate: 2-FBP	89.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	100 %	50-150			"	"	"	"	
<b>HA2-1.5 (BSL0418-20) Soil</b> Sampled: 12/15/05 13:00 Received: 12/16/05 16:45									
Diesel Range Hydrocarbons	73.8	25.4	mg/kg dry	2	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	409	63.6	"	"	"	"	"	"	
Surrogate: 2-FBP	84.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	88.9 %	50-150			"	"	"	"	
<b>HA3-0.5 (BSL0418-21) Soil</b> Sampled: 12/15/05 13:45 Received: 12/16/05 16:45									
Diesel Range Hydrocarbons	278	132	mg/kg dry	10	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	2470	331	"	"	"	"	"	"	
Surrogate: 2-FBP	95.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	100 %	50-150			"	"	"	"	
<b>HA3-1.5 (BSL0418-22) Soil</b> Sampled: 12/15/05 14:00 Received: 12/16/05 16:45									
Diesel Range Hydrocarbons	ND	11.7	mg/kg dry	1	5L20040	12/20/05	12/27/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	30.1	29.3	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	94.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.9 %	50-150			"	"	"	"	
<b>HA4-0.5 (BSL0418-23) Soil</b> Sampled: 12/15/05 14:20 Received: 12/16/05 16:45									
Diesel Range Hydrocarbons	35900	4300	mg/kg dry	50	5L20040	12/20/05	12/27/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	106000	10700	"	"	"	"	"	"	
Surrogate: 2-FBP	ND	50-150			"	"	"	"	S-01
Surrogate: Octacosane	ND	50-150			"	"	"	"	S-01

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maui Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
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**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA4-1.5 (B5L0418-24) Soil Sampled: 12/15/05 14:30 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	1350	158	mg/kg dry	10	5L20040	12/20/05	12/27/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	3550	396	"	"	"	"	"	"	
Surrogate: 2-FBP	90.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	106 %	50-150			"	"	"	"	
<b>HA5-0.5 (B5L0418-25) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	1130	265	mg/kg dry	10	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	7330	664	"	"	"	"	"	"	
Surrogate: 2-FBP	89.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	103 %	50-150			"	"	"	"	
<b>HA5-1.5 (B5L0418-26) Soil Sampled: 12/15/05 15:10 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	61.8	15.7	mg/kg dry	1	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	347	39.3	"	"	"	"	"	"	
Surrogate: 2-FBP	95.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	95.4 %	50-150			"	"	"	"	
<b>HA-DUP (B5L0418-27) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45</b>									
Diesel Range Hydrocarbons	67.0	15.2	mg/kg dry	1	5L20040	12/20/05	12/27/05	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	328	38.0	"	"	"	"	"	"	
Surrogate: 2-FBP	93.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	92.9 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP13-S-1.0 (B5L0418-01) Soil Sampled: 12/14/05 08:15 Received: 12/16/05 16:45</b>									
Silver	ND	0.593	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	9.45	0.593	"	"	"	"	"	"	
Beryllium	ND	0.593	"	"	"	"	"	"	
Cadmium	1.29	0.593	"	"	"	"	"	"	
Chromium	26.6	0.593	"	"	"	"	"	"	
Copper	29.0	0.593	"	"	"	"	"	"	
Mercury	ND	0.168	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	21.8	0.593	"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Lead	21.1	0.593	"	"	"	"	"	"	
Antimony	ND	1.78	"	"	"	"	12/28/05	"	
Selenium	ND	0.593	"	"	"	"	12/22/05	"	
Thallium	ND	0.593	"	"	"	"	"	"	
Zinc	84.9	5.93	"	"	"	"	"	"	
<b>GP13-S-6.0 (B5L0418-02) Soil Sampled: 12/14/05 08:30 Received: 12/16/05 16:45</b>									
Chromium	46.6	0.587	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
<b>GP21-S-1.0 (B5L0418-03) Soil Sampled: 12/14/05 08:50 Received: 12/16/05 16:45</b>									
Chromium	25.6	0.534	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
<b>GP21-S-6.5 (B5L0418-04) Soil Sampled: 12/14/05 08:57 Received: 12/16/05 16:45</b>									
Chromium	23.0	0.640	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
<b>GP20-S-1.0 (B5L0418-05) Soil Sampled: 12/14/05 09:15 Received: 12/16/05 16:45</b>									
Silver	ND	0.592	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	5.47	0.592	"	"	"	"	"	"	
Beryllium	ND	0.592	"	"	"	"	"	"	
Cadmium	ND	0.592	"	"	"	"	"	"	
Chromium	17.6	0.592	"	"	"	"	"	"	
Copper	29.4	0.592	"	"	"	"	"	"	
Mercury	ND	0.152	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	13.0	0.592	"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Lead	10.1	0.592	"	"	"	"	"	"	
Antimony	ND	1.78	"	"	"	"	12/28/05	"	
Selenium	ND	0.592	"	"	"	"	12/22/05	"	
Thallium	ND	0.592	"	"	"	"	"	"	
Zinc	49.3	5.92	"	"	"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>GP20-S-6.0 (B5L0418-06) Soil Sampled: 12/14/05 09:30 Received: 12/16/05 16:45</b>										
Chromium	24.5	0.612		mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
<b>GP32-S-1.0 (B5L0418-08RE1) Soil Sampled: 12/14/05 11:13 Received: 12/16/05 16:45</b>										
Chromium	6750	55.0		mg/kg dry	100	5L20050	12/20/05	12/27/05	EPA 6020	
<b>GP23-S-7.0 (B5L0418-10) Soil Sampled: 12/14/05 12:15 Received: 12/16/05 16:45</b>										
Chromium	23.3	0.550		mg/kg dry	1	5L20050	12/20/05	12/27/05	EPA 6020	
<b>GP23-S-10.5 (B5L0418-11RE1) Soil Sampled: 12/14/05 12:40 Received: 12/16/05 16:45</b>										
Chromium	979	4.67		mg/kg dry	10	5L20050	12/20/05	12/27/05	EPA 6020	
<b>GP24-S-3.0 (B5L0418-12) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45</b>										
Silver	ND	0.542		mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	3.06	0.542		"	"	"	"	"	"	
Beryllium	ND	0.542		"	"	"	"	"	"	
ium	ND	0.542		"	"	"	"	"	"	
mium	30.2	0.542		"	"	"	"	"	"	
Copper	16.5	0.542		"	"	"	"	"	"	
Mercury	ND	0.115		"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	28.5	0.542		"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Lead	3.09	0.542		"	"	"	"	"	"	
Antimony	ND	1.63		"	"	"	"	12/28/05	"	
Selenium	ND	0.542		"	"	"	"	12/22/05	"	
Thallium	ND	0.542		"	"	"	"	"	"	
Zinc	44.3	5.42		"	"	"	"	"	"	

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GPDUP-S-3.0 (B5L0418-13) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45**

Silver	ND	0.532	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	3.64	0.532	"	"	"	"	"	"	
Beryllium	ND	0.532	"	"	"	"	"	"	
Cadmium	ND	0.532	"	"	"	"	"	"	
Chromium	26.2	0.532	"	"	"	"	"	"	
Copper	14.3	0.532	"	"	"	"	"	"	
Mercury	ND	0.107	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	25.3	0.532	"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Lead	3.33	0.532	"	"	"	"	"	"	
Antimony	ND	1.60	"	"	"	"	12/28/05	"	
Selenium	ND	0.532	"	"	"	"	12/22/05	"	
Thallium	ND	0.532	"	"	"	"	"	"	
Zinc	50.4	5.32	"	"	"	"	"	"	

**GP24-S-6.5 (B5L0418-14) Soil Sampled: 12/14/05 13:45 Received: 12/16/05 16:45**

Chromium	29.3	0.547	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
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**HA1-0.5 (B5L0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45**

Silver	ND	0.576	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	3.81	0.576	"	"	"	"	"	"	
Beryllium	ND	0.576	"	"	"	"	"	"	
Cadmium	ND	0.576	"	"	"	"	"	"	
Chromium	34.3	0.576	"	"	"	"	"	"	
Copper	32.8	0.576	"	"	"	"	"	"	
Mercury	ND	0.132	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	21.3	0.576	"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Lead	34.6	0.576	"	"	"	"	"	"	
Antimony	ND	1.73	"	"	"	"	12/28/05	"	
Selenium	ND	0.576	"	"	"	"	12/22/05	"	
Thallium	ND	0.576	"	"	"	"	"	"	
Zinc	140	5.76	"	"	"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**HAI-1.5 (B5L0418-18) Soil Sampled: 12/15/05 11:45 Received: 12/16/05 16:45**

Silver	ND	0.550	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	2.88	0.550	"	"	"	"	"	"	
Beryllium	ND	0.550	"	"	"	"	"	"	
Cadmium	ND	0.550	"	"	"	"	"	"	
Chromium	110	0.550	"	"	"	"	"	"	
Copper	16.2	0.550	"	"	"	"	"	"	
Mercury	0.328	0.147	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	24.7	0.550	"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Lead	15.3	0.550	"	"	"	"	"	"	
Antimony	ND	1.65	"	"	"	"	12/28/05	"	
Selenium	ND	0.550	"	"	"	"	12/22/05	"	
Thallium	ND	0.550	"	"	"	"	"	"	
Zinc	70.8	5.50	"	"	"	"	"	"	

**0.5 (B5L0418-19) Soil Sampled: 12/15/05 12:45 Received: 12/16/05 16:45**

Arsenic	ND	0.723	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Beryllium	3.94	0.723	"	"	"	"	"	"	
Cadmium	ND	0.723	"	"	"	"	"	"	
Chromium	0.984	0.723	"	"	"	"	"	"	
Copper	206	0.723	"	"	"	"	"	"	
Mercury	70.9	0.723	"	"	"	"	"	"	
Nickel	ND	0.142	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Lead	36.0	0.723	"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Antimony	81.4	0.723	"	"	"	"	"	"	
Selenium	ND	2.17	"	"	"	"	12/28/05	"	
Thallium	ND	0.723	"	"	"	"	12/22/05	"	

Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**HA2-0.5 (BSL0418-19RE1) Soil** Sampled: 12/15/05 12:45 Received: 12/16/05 16:45

Zinc	341	14.5	mg/kg dry	2	5L20050	12/20/05	12/27/05	EPA 6020	
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**HA2-1.5 (BSL0418-20) Soil** Sampled: 12/15/05 13:00 Received: 12/16/05 16:45

Silver	ND	0.613	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	2.71	0.613	"	"	"	"	"	"	
Beryllium	ND	0.613	"	"	"	"	"	"	
Cadmium	ND	0.613	"	"	"	"	"	"	
Chromium	215	0.613	"	"	"	"	"	"	
Copper	28.2	0.613	"	"	"	"	"	"	
Mercury	0.232	0.147	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	31.0	0.613	"	"	5L20050	12/20/05	12/22/05	EPA 6020	
Lead	36.5	0.613	"	"	"	"	"	"	
Antimony	ND	1.84	"	"	"	"	12/28/05	"	
Selenium	ND	0.613	"	"	"	"	12/22/05	"	
Thallium	ND	0.613	"	"	"	"	"	"	
Zinc	134	6.13	"	"	"	"	"	"	

**HA3-0.5 (BSL0418-21) Soil** Sampled: 12/15/05 13:45 Received: 12/16/05 16:45

Silver	ND	0.648	mg/kg dry	1	5L20050	12/20/05	12/22/05	EPA 6020	
Arsenic	53.9	0.648	"	"	"	"	"	"	
Beryllium	ND	0.648	"	"	"	"	"	"	
Cadmium	2.53	0.648	"	"	"	"	"	"	
Mercury	2.65	0.315	"	2	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	98.4	0.648	"	1	5L20050	12/20/05	12/22/05	EPA 6020	
Antimony	ND	1.94	"	"	"	"	12/28/05	"	
Selenium	ND	0.648	"	"	"	"	12/22/05	"	
Thallium	ND	0.648	"	"	"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
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Reported:  
 01/12/06 15:12

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**HA3-0.5 (B5L0418-21RE1) Soil Sampled: 12/15/05 13:45 Received: 12/16/05 16:45**

Chromium	1590	6.48	mg/kg dry	10	5L20050	12/20/05	12/27/05	EPA 6020	
Copper	528	3.24	"	5	"	"	12/22/05	"	
Lead	545	3.24	"	"	"	"	"	"	
Zinc	433	32.4	"	"	"	"	"	"	

**HA3-1.5 (B5L0418-22) Soil Sampled: 12/15/05 14:00 Received: 12/16/05 16:45**

Silver	ND	0.585	mg/kg dry	1	5L21040	12/21/05	12/22/05	EPA 6020	
Arsenic	6.96	0.585	"	"	"	"	"	"	
Beryllium	ND	0.585	"	"	"	"	"	"	
Cadmium	ND	0.585	"	"	"	"	"	"	
Chromium	55.2	0.585	"	"	"	"	"	"	
Copper	16.4	0.585	"	"	"	"	"	"	
Mercury	ND	0.109	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	30.8	0.585	"	"	5L21040	12/21/05	12/22/05	EPA 6020	
Iron	8.41	0.585	"	"	"	"	"	"	
Vanadium	ND	1.76	"	"	"	"	01/04/06	"	
Selenium	ND	0.585	"	"	"	"	12/22/05	"	
Thallium	ND	0.585	"	"	"	"	"	"	
Zinc	46.2	5.85	"	"	"	"	"	"	

**HA4-0.5 (B5L0418-23) Soil Sampled: 12/15/05 14:20 Received: 12/16/05 16:45**

Silver	ND	1.63	mg/kg dry	1	5L21040	12/21/05	12/22/05	EPA 6020	
Arsenic	44.3	1.63	"	"	"	"	"	"	
Beryllium	ND	1.63	"	"	"	"	"	"	
Cadmium	28.7	1.63	"	"	"	"	"	"	
Mercury	2.28	0.304	"	"	5L20033	12/20/05	12/22/05	EPA 7471A	
Nickel	99.7	1.63	"	"	5L21040	12/21/05	12/22/05	EPA 6020	
Antimony	6.68	4.90	"	"	"	"	12/29/05	"	
Selenium	ND	1.63	"	"	"	"	12/22/05	"	
Thallium	ND	1.63	"	"	"	"	"	"	

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**HA4-0.5 (BSL0418-23RE1) Soil Sampled: 12/15/05 14:20 Received: 12/16/05 16:45**

Chromium	8480	32.6		mg/kg dry	20	5L21040	12/21/05	12/28/05	EPA 6020	
Copper	978	16.3		"	10	"	"	12/27/05	"	
Lead	1710	16.3		"	"	"	"	"	"	
Zinc	2620	163		"	"	"	"	"	"	

**HA4-1.5 (BSL0418-24) Soil Sampled: 12/15/05 14:30 Received: 12/16/05 16:45**

Silver	ND	0.819		mg/kg dry	1	5L21040	12/21/05	12/22/05	EPA 6020	
Arsenic	5.25	0.819		"	"	"	"	"	"	
Beryllium	ND	0.819		"	"	"	"	"	"	
Cadmium	ND	0.819		"	"	"	"	"	"	
Chromium	280	0.819		"	"	"	"	"	"	
Copper	48.8	0.819		"	"	"	"	"	"	
Mercury	ND	0.580		"	"	5L29046	12/29/05	12/29/05	EPA 7471A	
Nickel	21.9	0.819		"	"	5L21040	12/21/05	12/22/05	EPA 6020	
Lead	50.8	0.819		"	"	"	"	"	"	
Antimony	ND	2.46		"	"	"	"	12/29/05	"	
Selenium	ND	0.819		"	"	"	"	12/22/05	"	
Thallium	ND	0.819		"	"	"	"	"	"	
Zinc	86.3	8.19		"	"	"	"	"	"	

**HA5-0.5 (BSL0418-25) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45**

Silver	ND	1.19		mg/kg dry	1	5L21040	12/21/05	12/22/05	EPA 6020	
Arsenic	35.9	1.19		"	"	"	"	"	"	
Beryllium	ND	1.19		"	"	"	"	"	"	
Cadmium	3.13	1.19		"	"	"	"	"	"	
Chromium	155	1.19		"	"	"	"	"	"	
Copper	129	1.19		"	"	"	"	"	"	
Mercury	0.918	0.725		"	"	5L29046	12/29/05	12/29/05	EPA 7471A	
Nickel	41.6	1.19		"	"	5L21040	12/21/05	12/22/05	EPA 6020	
Antimony	ND	3.56		"	"	"	"	12/29/05	"	
Selenium	ND	1.19		"	"	"	"	12/22/05	"	
Thallium	ND	1.19		"	"	"	"	"	"	
Zinc	358	11.9		"	"	"	"	"	"	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**HA5-0.5 (B5L0418-25RE1) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45**

Lead	1440	11.9	mg/kg dry	10	5L21040	12/21/05	12/27/05	EPA 6020	
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**HA5-1.5 (B5L0418-26) Soil Sampled: 12/15/05 15:10 Received: 12/16/05 16:45**

Silver	ND	0.703	mg/kg dry	1	5L21040	12/21/05	12/22/05	EPA 6020	
Arsenic	12.5	0.703	"	"	"	"	"	"	
Beryllium	ND	0.703	"	"	"	"	"	"	
Cadmium	1.09	0.703	"	"	"	"	"	"	
Chromium	32.7	0.703	"	"	"	"	"	"	
Copper	39.6	0.703	"	"	"	"	"	"	
Mercury	ND	0.488	"	"	5L29046	12/29/05	12/29/05	EPA 7471A	
Nickel	22.2	0.703	"	"	5L21040	12/21/05	12/22/05	EPA 6020	
Lead	209	0.703	"	"	"	"	"	"	
Antimony	ND	2.11	"	"	"	"	12/29/05	"	
Selenium	ND	0.703	"	"	"	"	12/22/05	"	
ium	ND	0.703	"	"	"	"	"	"	
	110	7.03	"	"	"	"	"	"	

**HA-DUP (B5L0418-27) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45**

Silver	ND	0.707	mg/kg dry	1	5L21040	12/21/05	12/22/05	EPA 6020	
Arsenic	8.35	0.707	"	"	"	"	"	"	
Beryllium	ND	0.707	"	"	"	"	"	"	
Cadmium	ND	0.707	"	"	"	"	"	"	
Chromium	84.5	0.707	"	"	"	"	"	"	
Copper	68.4	0.707	"	"	"	"	"	"	
Mercury	ND	0.364	"	"	5L29046	12/29/05	12/29/05	EPA 7471A	
Nickel	108	0.707	"	"	5L21040	12/21/05	12/22/05	EPA 6020	
Lead	95.3	0.707	"	"	"	"	"	"	
Antimony	ND	2.12	"	"	"	"	12/29/05	"	
Selenium	ND	0.707	"	"	"	"	12/22/05	"	
Thallium	ND	0.707	"	"	"	"	"	"	

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Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
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**Total Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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HA-DUP (BSL0418-27RE1) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45

Zinc	293	14.1	mg/kg dry	2	5L21040	12/21/05	12/27/05	EPA 6020	
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 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**GP13-S-1.0 (BSL0418-01) Soil Sampled: 12/14/05 08:15 Received: 12/16/05 16:45**

2-Butanone	215	59.3		ug/kg dry	1	5L23024	12/23/05	12/23/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	11.9		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	9.89		"	"	"	"	"	"	
Trichloroethene	ND	9.89		"	"	"	"	"	"	
Vinyl chloride	ND	9.89		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	106 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	120 %	60-140				"	"	"	"	
Surrogate: 4-BFB	125 %	60-140				"	"	"	"	

**GP13-S-6.0 (BSL0418-02) Soil Sampled: 12/14/05 08:30 Received: 12/16/05 16:45**

2-Butanone	47.6	17.3		ug/kg dry	1	5L21059	12/21/05	12/21/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.47		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.89		"	"	"	"	"	"	
Trichloroethene	ND	2.89		"	"	"	"	"	"	
chloride	ND	2.89		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	126 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	116 %	60-140				"	"	"	"	
Surrogate: 4-BFB	115 %	60-140				"	"	"	"	

**GP21-S-1.0 (BSL0418-03) Soil Sampled: 12/14/05 08:50 Received: 12/16/05 16:45**

2-Butanone	ND	13.1		ug/kg dry	1	5L22065	12/21/05	12/22/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.61		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.18		"	"	"	"	"	"	
Trichloroethene	ND	2.18		"	"	"	"	"	"	
Vinyl chloride	ND	2.18		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	124 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	119 %	60-140				"	"	"	"	
Surrogate: 4-BFB	108 %	60-140				"	"	"	"	

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Húghes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP21-S-6.5 (B5L0418-04) Soil** Sampled: 12/14/05 08:57 Received: 12/16/05 16:45

2-Butanone	66.7	16.7	ug/kg dry	1	5L22065	12/21/05	12/22/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.35	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.79	"	"	"	"	"	"	
Trichloroethene	ND	2.79	"	"	"	"	"	"	
Vinyl chloride	ND	2.79	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	97.5 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	104 %	60-140			"	"	"	"	
Surrogate: 4-BFB	82.3 %	60-140			"	"	"	"	

**GP20-S-1.0 (B5L0418-05) Soil** Sampled: 12/14/05 09:15 Received: 12/16/05 16:45

2-Butanone	21.7	15.7	ug/kg dry	1	5L22065	12/21/05	12/22/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.15	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.62	"	"	"	"	"	"	
Trichloroethene	ND	2.62	"	"	"	"	"	"	
Vinyl chloride	ND	2.62	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	121 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	112 %	60-140			"	"	"	"	
Surrogate: 4-BFB	118 %	60-140			"	"	"	"	

**GP20-S-6.0 (B5L0418-06) Soil** Sampled: 12/14/05 09:30 Received: 12/16/05 16:45

2-Butanone	66.3	27.1	ug/kg dry	1	5L22065	12/21/05	12/22/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	5.42	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.52	"	"	"	"	"	"	
Trichloroethene	ND	4.52	"	"	"	"	"	"	
Vinyl chloride	ND	4.52	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	97.8 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	100 %	60-140			"	"	"	"	
Surrogate: 4-BFB	75.1 %	60-140			"	"	"	"	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>GP32-S-1.0 (B5L0418-08) Soil Sampled: 12/14/05 11:13 Received: 12/16/05 16:45</b>										
2-Butanone	ND	14.2		ug/kg dry	1	5L22065	12/21/05	12/22/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.84		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.37		"	"	"	"	"	"	
Trichloroethene	ND	2.37		"	"	"	"	"	"	
Vinyl chloride	ND	2.37		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	108 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	115 %	60-140				"	"	"	"	
Surrogate: 4-BFB	107 %	60-140				"	"	"	"	
<b>GP23-S-7.0 (B5L0418-10) Soil Sampled: 12/14/05 12:15 Received: 12/16/05 16:45</b>										
2-Butanone	ND	10.8		ug/kg dry	1	5L22065	12/21/05	12/22/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.16		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.80		"	"	"	"	"	"	
Trichloroethene	ND	1.80		"	"	"	"	"	"	
Vinyl chloride	ND	1.80		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	105 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	95.5 %	60-140				"	"	"	"	
Surrogate: 4-BFB	81.9 %	60-140				"	"	"	"	
<b>GP23-S-10.5 (B5L0418-11) Soil Sampled: 12/14/05 12:40 Received: 12/16/05 16:45</b>										
2-Butanone	ND	13.6		ug/kg dry	1	5L22065	12/21/05	12/22/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.72		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.27		"	"	"	"	"	"	
Trichloroethene	ND	2.27		"	"	"	"	"	"	
Vinyl chloride	ND	2.27		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	106 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	93.6 %	60-140				"	"	"	"	
Surrogate: 4-BFB	80.1 %	60-140				"	"	"	"	

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP24-S-3.0 (B5L0418-12) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45**

2-Butanone	ND	15.5	ug/kg dry	1	5L23024	12/23/05	12/23/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.09	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.58	"	"	"	"	"	"	
Trichloroethene	ND	2.58	"	"	"	"	"	"	
Vinyl chloride	ND	2.58	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	104 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	122 %	60-140			"	"	"	"	
Surrogate: 4-BFB	123 %	60-140			"	"	"	"	

**GP24-S-3.0 (B5L0418-13) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45**

2-Butanone	ND	15.0	ug/kg dry	1	5L22045	12/22/05	12/22/05	EPA 8260B	Q-41
cis-1,2-Dichloroethene	ND	3.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.50	"	"	"	"	"	"	
Trichloroethene	ND	2.50	"	"	"	"	"	"	
Vinyl chloride	ND	2.50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	101 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	106 %	60-140			"	"	"	"	
Surrogate: 4-BFB	85.5 %	60-140			"	"	"	"	

**GP24-S-6.5 (B5L0418-14) Soil Sampled: 12/14/05 13:45 Received: 12/16/05 16:45**

2-Butanone	ND	17.0	ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	3.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.83	"	"	"	"	"	"	
Trichloroethene	ND	2.83	"	"	"	"	"	"	
Vinyl chloride	ND	2.83	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	91.6 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	107 %	60-140			"	"	"	"	
Surrogate: 4-BFB	96.7 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
HA1-0.5 (BSL0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45										
Acetone	ND	34.4		ug/kg dry	1	5L29022	12/29/05	12/29/05	EPA 8260B	
Benzene	ND	1.72		"	"	"	"	"	"	
Bromobenzene	ND	5.73		"	"	"	"	"	"	
Bromochloromethane	ND	5.73		"	"	"	"	"	"	
Bromodichloromethane	ND	5.73		"	"	"	"	"	"	
Bromoform	ND	5.73		"	"	"	"	"	"	
Bromomethane	ND	11.5		"	"	"	"	"	"	
2-Butanone	ND	17.2		"	"	"	"	"	"	
n-Butylbenzene	ND	5.73		"	"	"	"	"	"	
sec-Butylbenzene	ND	5.73		"	"	"	"	"	"	
tert-Butylbenzene	ND	5.73		"	"	"	"	"	"	
Carbon disulfide	ND	3.44		"	"	"	"	"	"	
Carbon tetrachloride	ND	5.73		"	"	"	"	"	"	
o-benzene	ND	2.29		"	"	"	"	"	"	
oethane	ND	5.73		"	"	"	"	"	"	
Chloroform	ND	2.87		"	"	"	"	"	"	
Chloromethane	ND	11.5		"	"	"	"	"	"	
2-Chlorotoluene	ND	5.73		"	"	"	"	"	"	
4-Chlorotoluene	ND	5.73		"	"	"	"	"	"	
Dibromochloromethane	ND	5.73		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11.5		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.73		"	"	"	"	"	"	
Dibromomethane	ND	5.73		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.73		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.73		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.73		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.73		"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.29		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.43		"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.44		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.44		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.87		"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.73		"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.73		"	"	"	"	"	"	
2,2-Dichloropropane	ND	11.5		"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.73		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.73		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.43		"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA1-0.5 (B5L0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	4.58	ug/kg dry	1	5L29022	12/29/05	12/29/05	EPA 8260B	
Hexachlorobutadiene	ND	5.73	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.15	"	"	"	"	"	"	
2-Hexanone	ND	22.9	"	"	"	"	"	"	
Isopropylbenzene	ND	5.73	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.73	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	22.9	"	"	"	"	"	"	
Methylene chloride	ND	4.01	"	"	"	"	"	"	
Naphthalene	ND	5.73	"	"	"	"	"	"	
n-Propylbenzene	ND	5.73	"	"	"	"	"	"	
Styrene	ND	1.15	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.73	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.73	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.73	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.73	"	"	"	"	"	"	
Tetrachloroethene	ND	2.29	"	"	"	"	"	"	
Toluene	ND	1.72	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.87	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.43	"	"	"	"	"	"	
Trichloroethene	ND	2.87	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.73	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.73	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.73	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.73	"	"	"	"	"	"	
Vinyl chloride	ND	2.87	"	"	"	"	"	"	
Total Xylenes	ND	11.5	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	92.6 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	114 %	60-140			"	"	"	"	
Surrogate: 4-BFB	131 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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HA1-1.5 (B5L0418-18) Soil Sampled: 12/15/05 11:45 Received: 12/16/05 16:45

Acetone	ND	41.5	ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	Q-41
Benzene	ND	2.07	"	"	"	"	"	"	
Bromobenzene	ND	6.91	"	"	"	"	"	"	
Bromochloromethane	ND	6.91	"	"	"	"	"	"	
Bromodichloromethane	ND	6.91	"	"	"	"	"	"	
Bromoform	ND	6.91	"	"	"	"	"	"	
Bromomethane	ND	13.8	"	"	"	"	"	"	
2-Butanone	ND	20.7	"	"	"	"	"	"	
n-Butylbenzene	ND	6.91	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.91	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.91	"	"	"	"	"	"	
Carbon disulfide	ND	4.15	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.91	"	"	"	"	"	"	
obenzene	ND	2.77	"	"	"	"	"	"	
oethane	ND	6.91	"	"	"	"	"	"	
Chloroform	ND	3.46	"	"	"	"	"	"	
Chloromethane	ND	13.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.91	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.91	"	"	"	"	"	"	
Dibromochloromethane	ND	6.91	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	13.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.91	"	"	"	"	"	"	
Dibromomethane	ND	6.91	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.91	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.91	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.91	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.91	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.77	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.73	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.15	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.15	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.46	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.91	"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.91	"	"	"	"	"	"	
2,2-Dichloropropane	ND	13.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.91	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.91	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.73	"	"	"	"	"	"	

Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA1-1.5 (BSL0418-18) Soil Sampled: 12/15/05 11:45 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	5.53	ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	
Hexachlorobutadiene	ND	6.91	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.38	"	"	"	"	"	"	
2-Hexanone	ND	27.7	"	"	"	"	"	"	
Isopropylbenzene	ND	6.91	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.91	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	27.7	"	"	"	"	"	"	
Methylene chloride	ND	4.84	"	"	"	"	"	"	
Naphthalene	ND	6.91	"	"	"	"	"	"	
n-Propylbenzene	ND	6.91	"	"	"	"	"	"	
Styrene	ND	1.38	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.91	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.91	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.91	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.91	"	"	"	"	"	"	
Tetrachloroethene	ND	2.77	"	"	"	"	"	"	
Toluene	ND	2.07	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.46	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.73	"	"	"	"	"	"	
Trichloroethene	ND	3.46	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.91	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.91	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.91	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.91	"	"	"	"	"	"	
Vinyl chloride	ND	3.46	"	"	"	"	"	"	
Total Xylenes	ND	13.8	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.1 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	110 %	60-140			"	"	"	"	
Surrogate: 4-BFB	115 %	60-140			"	"	"	"	

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 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>HA2-0.5 (B5L0418-19) Soil Sampled: 12/15/05 12:45 Received: 12/16/05 16:45</b>										
Acetone	ND	43.8		ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	Q-41
Benzene	ND	2.19		"	"	"	"	"	"	"
Bromobenzene	ND	7.30		"	"	"	"	"	"	"
Bromochloromethane	ND	7.30		"	"	"	"	"	"	"
Bromodichloromethane	ND	7.30		"	"	"	"	"	"	"
Bromoform	ND	7.30		"	"	"	"	"	"	"
Bromomethane	ND	14.6		"	"	"	"	"	"	"
2-Butanone	ND	21.9		"	"	"	"	"	"	"
n-Butylbenzene	ND	7.30		"	"	"	"	"	"	"
sec-Butylbenzene	ND	7.30		"	"	"	"	"	"	"
tert-Butylbenzene	ND	7.30		"	"	"	"	"	"	"
Carbon disulfide	ND	4.38		"	"	"	"	"	"	"
Carbon tetrachloride	ND	7.30		"	"	"	"	"	"	"
o benzene	ND	2.92		"	"	"	"	"	"	"
o ethane	ND	7.30		"	"	"	"	"	"	"
Chloroform	ND	3.65		"	"	"	"	"	"	"
Chloromethane	ND	14.6		"	"	"	"	"	"	"
2-Chlorotoluene	ND	7.30		"	"	"	"	"	"	"
4-Chlorotoluene	ND	7.30		"	"	"	"	"	"	"
Dibromochloromethane	ND	7.30		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	14.6		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.30		"	"	"	"	"	"	"
Dibromomethane	ND	7.30		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	7.30		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	7.30		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	7.30		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	7.30		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.92		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.83		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.38		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.38		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.65		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	7.30		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	7.30		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	14.6		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	7.30		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	7.30		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.83		"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA2-0.5 (BSL0418-19) Soil Sampled: 12/15/05 12:45 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	5.84	ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	
Hexachlorobutadiene	ND	7.30	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.46	"	"	"	"	"	"	
2-Hexanone	ND	29.2	"	"	"	"	"	"	
Isopropylbenzene	ND	7.30	"	"	"	"	"	"	
p-Isopropyltoluene	ND	7.30	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	29.2	"	"	"	"	"	"	
Methylene chloride	ND	5.11	"	"	"	"	"	"	
Naphthalene	ND	7.30	"	"	"	"	"	"	
n-Propylbenzene	ND	7.30	"	"	"	"	"	"	
Styrene	ND	1.46	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	7.30	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.30	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.30	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.30	"	"	"	"	"	"	
Tetrachloroethene	ND	2.92	"	"	"	"	"	"	
Toluene	ND	2.19	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.65	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.83	"	"	"	"	"	"	
Trichloroethene	ND	3.65	"	"	"	"	"	"	
Trichlorofluoromethane	ND	7.30	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	7.30	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	7.30	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	7.30	"	"	"	"	"	"	
Vinyl chloride	ND	3.65	"	"	"	"	"	"	
Total Xylenes	ND	14.6	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	114 %	60-140			"	"	"	"	
Surrogate: 4-BFB	115 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
HA2-1.5 (B5L0418-20) Soil Sampled: 12/15/05 13:00 Received: 12/16/05 16:45										
Acetone	ND	27.7		ug/kg dry	I	5L28013	12/27/05	12/27/05	EPA 8260B	Q-41
Benzene	ND	1.38		"	"	"	"	"	"	
Bromobenzene	ND	4.61		"	"	"	"	"	"	
Bromochloromethane	ND	4.61		"	"	"	"	"	"	
Bromodichloromethane	ND	4.61		"	"	"	"	"	"	
Bromoform	ND	4.61		"	"	"	"	"	"	
Bromomethane	ND	9.22		"	"	"	"	"	"	
2-Butanone	ND	13.8		"	"	"	"	"	"	
n-Butylbenzene	ND	4.61		"	"	"	"	"	"	
sec-Butylbenzene	ND	4.61		"	"	"	"	"	"	
tert-Butylbenzene	ND	4.61		"	"	"	"	"	"	
Carbon disulfide	ND	2.77		"	"	"	"	"	"	
Carbon tetrachloride	ND	4.61		"	"	"	"	"	"	
oobenzene	ND	1.84		"	"	"	"	"	"	
oethane	ND	4.61		"	"	"	"	"	"	
Chloroform	ND	2.30		"	"	"	"	"	"	
Chloromethane	ND	9.22		"	"	"	"	"	"	
2-Chlorotoluene	ND	4.61		"	"	"	"	"	"	
4-Chlorotoluene	ND	4.61		"	"	"	"	"	"	
Dibromochloromethane	ND	4.61		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	9.22		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.61		"	"	"	"	"	"	
Dibromomethane	ND	4.61		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.61		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.61		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.61		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.61		"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.84		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.15		"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.77		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.77		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.30		"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.61		"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.61		"	"	"	"	"	"	
2,2-Dichloropropane	ND	9.22		"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.61		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.61		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.15		"	"	"	"	"	"	

Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA2-1.5 (B5L0418-20) Soil Sampled: 12/15/05 13:00 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	3.69	ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	
Hexachlorobutadiene	ND	4.61	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.922	"	"	"	"	"	"	
2-Hexanone	ND	18.4	"	"	"	"	"	"	
Isopropylbenzene	ND	4.61	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.61	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	18.4	"	"	"	"	"	"	
Methylene chloride	ND	3.23	"	"	"	"	"	"	
Naphthalene	ND	4.61	"	"	"	"	"	"	
n-Propylbenzene	ND	4.61	"	"	"	"	"	"	
Styrene	ND	0.922	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.61	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.61	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.61	"	"	"	"	"	"	
Tetrachloroethene	ND	1.84	"	"	"	"	"	"	
Toluene	ND	1.38	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.30	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.15	"	"	"	"	"	"	
Trichloroethene	ND	2.30	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.61	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.61	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.61	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.61	"	"	"	"	"	"	
Vinyl chloride	ND	2.30	"	"	"	"	"	"	
Total Xylenes	ND	9.22	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	106 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	101 %	60-140			"	"	"	"	
Surrogate: 4-BFB	107 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
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Reported:  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA3-1.5 (B5L0418-22) Soil Sampled: 12/15/05 14:00 Received: 12/16/05 16:45									
Acetone	ND	30.1	ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	Q-41
Benzene	ND	1.51	"	"	"	"	"	"	"
Bromobenzene	ND	5.02	"	"	"	"	"	"	"
Bromochloromethane	ND	5.02	"	"	"	"	"	"	"
Bromodichloromethane	ND	5.02	"	"	"	"	"	"	"
Bromoform	ND	5.02	"	"	"	"	"	"	"
Bromomethane	ND	10.0	"	"	"	"	"	"	"
2-Butanone	ND	15.1	"	"	"	"	"	"	"
n-Butylbenzene	ND	5.02	"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.02	"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.02	"	"	"	"	"	"	"
Carbon disulfide	ND	3.01	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.02	"	"	"	"	"	"	"
obenzene	ND	2.01	"	"	"	"	"	"	"
oethane	ND	5.02	"	"	"	"	"	"	"
Chloroform	ND	2.51	"	"	"	"	"	"	"
Chloromethane	ND	10.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.02	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.02	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.02	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.02	"	"	"	"	"	"	"
Dibromomethane	ND	5.02	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.02	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.02	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.02	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.02	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.01	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.26	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.01	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.01	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.51	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.02	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.02	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	10.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.02	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.02	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.26	"	"	"	"	"	"	"

Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>HA3-1.5 (BSL0418-22) Soil Sampled: 12/15/05 14:00 Received: 12/16/05 16:45</b>										
Ethylbenzene	ND	4.02		ug/kg dry	1	5L28013	12/27/05	12/27/05	EPA 8260B	
Hexachlorobutadiene	ND	5.02		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
2-Hexanone	ND	20.1		"	"	"	"	"	"	
Isopropylbenzene	ND	5.02		"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.02		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	20.1		"	"	"	"	"	"	
Methylene chloride	ND	3.51		"	"	"	"	"	"	
Naphthalene	ND	5.02		"	"	"	"	"	"	
n-Propylbenzene	ND	5.02		"	"	"	"	"	"	
Styrene	ND	1.00		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.02		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.02		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.02		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.02		"	"	"	"	"	"	
Tetrachloroethene	ND	2.01		"	"	"	"	"	"	
Toluene	ND	1.51		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.51		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.26		"	"	"	"	"	"	
Trichloroethene	ND	2.51		"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.02		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.02		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.02		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.02		"	"	"	"	"	"	
Vinyl chloride	ND	2.51		"	"	"	"	"	"	
Total Xylenes	ND	10.0		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	105 %	60-140								
Surrogate: Toluene-d8	104 %	60-140								
Surrogate: 4-BFB	97.8 %	60-140								

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager



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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA4-0.5 (BSL0418-23) Soil Sampled: 12/15/05 14:20 Received: 12/16/05 16:45</b>									
Acetone	ND	444	ug/kg dry	1	5L28017	12/28/05	12/28/05	EPA 8260B	
Benzene	ND	22.2	"	"	"	"	"	"	
Bromobenzene	ND	73.9	"	"	"	"	"	"	
Bromochloromethane	ND	73.9	"	"	"	"	"	"	
Bromodichloromethane	ND	73.9	"	"	"	"	"	"	
Bromoform	ND	73.9	"	"	"	"	"	"	
Bromomethane	ND	148	"	"	"	"	"	"	
2-Butanone	ND	222	"	"	"	"	"	"	
n-Butylbenzene	ND	73.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	73.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	73.9	"	"	"	"	"	"	
Carbon disulfide	ND	44.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	73.9	"	"	"	"	"	"	
robenzene	ND	29.6	"	"	"	"	"	"	
roethane	ND	73.9	"	"	"	"	"	"	
Chloroform	ND	37.0	"	"	"	"	"	"	
Chloromethane	ND	148	"	"	"	"	"	"	
2-Chlorotoluene	ND	73.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	73.9	"	"	"	"	"	"	
Dibromochloromethane	ND	73.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	148	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	73.9	"	"	"	"	"	"	
Dibromomethane	ND	73.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	73.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	73.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	73.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	73.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	29.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	18.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	44.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	44.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	37.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	73.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	73.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	148	"	"	"	"	"	"	
1,1-Dichloropropene	ND	73.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	73.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	18.5	"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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HA4-0.5 (BSL0418-23) Soil Sampled: 12/15/05 14:20 Received: 12/16/05 16:45

Ethylbenzene	ND	59.1	ug/kg dry	1	5L28017	12/28/05	12/28/05	EPA 8260B	
Hexachlorobutadiene	ND	73.9	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	14.8	"	"	"	"	"	"	
2-Hexanone	ND	296	"	"	"	"	"	"	
Isopropylbenzene	ND	73.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	73.9	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	296	"	"	"	"	"	"	
Methylene chloride	ND	51.8	"	"	"	"	"	"	
Naphthalene	ND	73.9	"	"	"	"	"	"	
n-Propylbenzene	ND	73.9	"	"	"	"	"	"	
Styrène	ND	14.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	73.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	73.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	73.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	73.9	"	"	"	"	"	"	
Tetrachloroethene	ND	29.6	"	"	"	"	"	"	
Toluene	ND	22.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	37.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	18.5	"	"	"	"	"	"	
Trichloroethene	ND	37.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	73.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	73.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	73.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	73.9	"	"	"	"	"	"	
Vinyl chloride	ND	37.0	"	"	"	"	"	"	
Total Xylenes	ND	148	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	106 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	111 %	60-140			"	"	"	"	
Surrogate: 4-BFB	138 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
HA4-1.5 (B5L0418-24) Soil Sampled: 12/15/05 14:30 Received: 12/16/05 16:45										
Acetone	ND	36.7		ug/kg dry	1	5L29022	12/29/05	12/29/05	EPA 8260B	
Benzene	ND	1.84		"	"	"	"	"	"	
Bromobenzene	ND	6.12		"	"	"	"	"	"	
Bromochloromethane	ND	6.12		"	"	"	"	"	"	
Bromodichloromethane	ND	6.12		"	"	"	"	"	"	
Bromoform	ND	6.12		"	"	"	"	"	"	
Bromomethane	ND	12.2		"	"	"	"	"	"	
2-Butanone	ND	18.4		"	"	"	"	"	"	
n-Butylbenzene	ND	6.12		"	"	"	"	"	"	
sec-Butylbenzene	ND	6.12		"	"	"	"	"	"	
tert-Butylbenzene	ND	6.12		"	"	"	"	"	"	
Carbon disulfide	ND	3.67		"	"	"	"	"	"	
Carbon tetrachloride	ND	6.12		"	"	"	"	"	"	
o benzene	ND	2.45		"	"	"	"	"	"	
o ethane	ND	6.12		"	"	"	"	"	"	
Chloroform	ND	3.06		"	"	"	"	"	"	
Chloromethane	ND	12.2		"	"	"	"	"	"	
2-Chlorotoluene	ND	6.12		"	"	"	"	"	"	
4-Chlorotoluene	ND	6.12		"	"	"	"	"	"	
Dibromochloromethane	ND	6.12		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12.2		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.12		"	"	"	"	"	"	
Dibromomethane	ND	6.12		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.12		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.12		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.12		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.12		"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.45		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.53		"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.67		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.67		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.06		"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.12		"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.12		"	"	"	"	"	"	
2,2-Dichloropropane	ND	12.2		"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.12		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.12		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.53		"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>HA4-1.5 (BSL0418-24) Soil. Sampled: 12/15/05 14:30 Received: 12/16/05 16:45</b>										
Ethylbenzene	ND	4.89		ug/kg dry	1	5L29022	12/29/05	12/29/05	EPA 8260B	
Hexachlorobutadiene	ND	6.12		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.22		"	"	"	"	"	"	
2-Hexanone	ND	24.5		"	"	"	"	"	"	
Isopropylbenzene	ND	6.12		"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.12		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	24.5		"	"	"	"	"	"	
Methylene chloride	ND	4.28		"	"	"	"	"	"	
Naphthalene	ND	6.12		"	"	"	"	"	"	
n-Propylbenzene	ND	6.12		"	"	"	"	"	"	
Styrene	ND	1.22		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.12		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.12		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.12		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.12		"	"	"	"	"	"	
Tetrachloroethene	ND	2.45		"	"	"	"	"	"	
Toluene	ND	1.84		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.06		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.53		"	"	"	"	"	"	
Trichloroethene	ND	3.06		"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.12		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.12		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.12		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.12		"	"	"	"	"	"	
Vinyl chloride	ND	3.06		"	"	"	"	"	"	
Total Xylenes	ND	12.2		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.4 %	60-140				"	"	"	"	
Surrogate: Toluene-d8	104 %	60-140				"	"	"	"	
Surrogate: 4-BFB	104 %	60-140				"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HAS-1.5 (BSL0418-26) Soil Sampled: 12/15/05 15:10 Received: 12/16/05 16:45</b>									
Acetone	80.3	44.9	ug/kg dry	1	5L28017	12/28/05	12/28/05	EPA 8260B	
Benzene	ND	2.25	"	"	"	"	"	"	
Bromobenzene	ND	7.49	"	"	"	"	"	"	
Bromochloromethane	ND	7.49	"	"	"	"	"	"	
Bromodichloromethane	ND	7.49	"	"	"	"	"	"	
Bromoform	ND	7.49	"	"	"	"	"	"	
Bromomethane	ND	15.0	"	"	"	"	"	"	
<b>2-Butanone</b>	<b>27.2</b>	22.5	"	"	"	"	"	"	
n-Butylbenzene	ND	7.49	"	"	"	"	"	"	
sec-Butylbenzene	ND	7.49	"	"	"	"	"	"	
tert-Butylbenzene	ND	7.49	"	"	"	"	"	"	
Carbon disulfide	ND	4.49	"	"	"	"	"	"	
Carbon tetrachloride	ND	7.49	"	"	"	"	"	"	
benzene	ND	2.99	"	"	"	"	"	"	
ethane	ND	7.49	"	"	"	"	"	"	
Chloroform	ND	3.74	"	"	"	"	"	"	
Chloromethane	ND	15.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	7.49	"	"	"	"	"	"	
4-Chlorotoluene	ND	7.49	"	"	"	"	"	"	
Dibromochloromethane	ND	7.49	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.49	"	"	"	"	"	"	
Dibromomethane	ND	7.49	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	7.49	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	7.49	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	7.49	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	7.49	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.99	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.87	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.49	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.49	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.74	"	"	"	"	"	"	
1,2-Dichloropropane	ND	7.49	"	"	"	"	"	"	
1,3-Dichloropropane	ND	7.49	"	"	"	"	"	"	
2,2-Dichloropropane	ND	15.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	7.49	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	7.49	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.87	"	"	"	"	"	"	

Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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Maul Foster Alongi Project: Precision Engineering  
 7223 NE Hazel Dell Ave., Suite B Project Number: 8006.08.04  
 Vancouver, WA/USA 98665 Project Manager: Alan Hughes Reported: 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA5-1.5 (BSL0418-26) Soil Sampled: 12/15/05 15:10 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	5.99	ug/kg dry	1	5L28017	12/28/05	12/28/05	EPA 8260B	
Hexachlorobutadiene	ND	7.49	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.50	"	"	"	"	"	"	
2-Hexanone	ND	29.9	"	"	"	"	"	"	
Isopropylbenzene	ND	7.49	"	"	"	"	"	"	
p-Isopropyltoluene	ND	7.49	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	29.9	"	"	"	"	"	"	
Methylene chloride	ND	5.24	"	"	"	"	"	"	
Naphthalene	ND	7.49	"	"	"	"	"	"	
n-Propylbenzene	ND	7.49	"	"	"	"	"	"	
Styrene	ND	1.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	7.49	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.49	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.49	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.49	"	"	"	"	"	"	
Tetrachloroethene	ND	2.99	"	"	"	"	"	"	
Toluene	ND	2.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.74	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.87	"	"	"	"	"	"	
Trichloroethene	ND	3.74	"	"	"	"	"	"	
Trichlorofluoromethane	ND	7.49	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	7.49	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	7.49	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	7.49	"	"	"	"	"	"	
Vinyl chloride	ND	3.74	"	"	"	"	"	"	
Total Xylenes	ND	15.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	85.8 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	85.3 %	60-140			"	"	"	"	
Surrogate: 4-BFB	76.6 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
HA-DUP (B5L0418-27) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45										
Acetone	ND	158		ug/kg dry	1	5L29022	12/29/05	12/29/05	EPA 8260B	
Benzene	ND	7.92		"	"	"	"	"	"	
Bromobenzene	ND	26.4		"	"	"	"	"	"	
Bromochloromethane	ND	26.4		"	"	"	"	"	"	
Bromodichloromethane	ND	26.4		"	"	"	"	"	"	
Bromoform	ND	26.4		"	"	"	"	"	"	
Bromomethane	ND	52.8		"	"	"	"	"	"	
2-Butanone	ND	79.2		"	"	"	"	"	"	
n-Butylbenzene	ND	26.4		"	"	"	"	"	"	
sec-Butylbenzene	ND	26.4		"	"	"	"	"	"	
tert-Butylbenzene	ND	26.4		"	"	"	"	"	"	
Carbon disulfide	ND	15.8		"	"	"	"	"	"	
Carbon tetrachloride	ND	26.4		"	"	"	"	"	"	
robenzene	ND	10.6		"	"	"	"	"	"	
roethane	ND	26.4		"	"	"	"	"	"	
Chloroform	ND	13.2		"	"	"	"	"	"	
Chloromethane	ND	52.8		"	"	"	"	"	"	
2-Chlorotoluene	ND	26.4		"	"	"	"	"	"	
4-Chlorotoluene	ND	26.4		"	"	"	"	"	"	
Dibromochloromethane	ND	26.4		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	52.8		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	26.4		"	"	"	"	"	"	
Dibromomethane	ND	26.4		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	26.4		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	26.4		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	26.4		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	26.4		"	"	"	"	"	"	
1,1-Dichloroethane	ND	10.6		"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.60		"	"	"	"	"	"	
1,1-Dichloroethene	ND	15.8		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	15.8		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	13.2		"	"	"	"	"	"	
1,2-Dichloropropane	ND	26.4		"	"	"	"	"	"	
1,3-Dichloropropane	ND	26.4		"	"	"	"	"	"	
2,2-Dichloropropane	ND	52.8		"	"	"	"	"	"	
1,1-Dichloropropene	ND	26.4		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	26.4		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.60		"	"	"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA-DUP (B5L0418-27) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	21.1	ug/kg dry	1	5L29022	12/29/05	12/29/05	EPA 8260B	
Hexachlorobutadiene	ND	26.4	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.28	"	"	"	"	"	"	
2-Hexanone	ND	106	"	"	"	"	"	"	
Isopropylbenzene	ND	26.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	26.4	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	106	"	"	"	"	"	"	
Methylene chloride	ND	18.5	"	"	"	"	"	"	
Naphthalene	ND	26.4	"	"	"	"	"	"	
n-Propylbenzene	ND	26.4	"	"	"	"	"	"	
Styrene	ND	5.28	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	26.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	26.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	26.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	26.4	"	"	"	"	"	"	
Tetrachloroethene	ND	10.6	"	"	"	"	"	"	
Toluene	ND	7.92	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	13.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.60	"	"	"	"	"	"	
Trichloroethene	ND	13.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	26.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	26.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	26.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	26.4	"	"	"	"	"	"	
Vinyl chloride	ND	13.2	"	"	"	"	"	"	
Total Xylenes	ND	52.8	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.8 %	60-140			"	"	"	"	
Surrogate: Toluene-d8	102 %	60-140			"	"	"	"	
Surrogate: 4-BFB	114 %	60-140			"	"	"	"	

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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HA3-0.5 (B5L0418-21) Soil Sampled: 12/15/05 13:45 Received: 12/16/05 16:45

Acetone	ND	0.938	mg/kg dry	1	5L29018	12/29/05	12/29/05	EPA 8260B	
Benzene	ND	0.0938	"	"	"	"	"	"	
Bromobenzene	ND	0.0938	"	"	"	"	"	"	
Bromochloromethane	ND	0.0938	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0938	"	"	"	"	"	"	
Bromoform	ND	0.0938	"	"	"	"	"	"	
Bromomethane	ND	0.0938	"	"	"	"	"	"	
2-Butanone	ND	0.938	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0938	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0938	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0938	"	"	"	"	"	"	
Carbon disulfide	ND	0.0938	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0938	"	"	"	"	"	"	
obenzene	ND	0.0938	"	"	"	"	"	"	
oethane	ND	0.0938	"	"	"	"	"	"	
Chloroform	ND	0.0938	"	"	"	"	"	"	
Chloromethane	ND	0.469	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0938	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0938	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0938	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.469	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0938	"	"	"	"	"	"	
Dibromomethane	ND	0.0938	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0938	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0938	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0938	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0938	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0938	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0938	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0938	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0938	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0938	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0938	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0938	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0938	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0938	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0938	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0938	"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
<b>HA3-0.5 (B5L0418-21) Soil Sampled: 12/15/05 13:45 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	0.0938	mg/kg dry	1	5L29018	12/29/05	12/29/05	EPA 8260B	
Hexachlorobutadiene	ND	0.0938	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.469	"	"	"	"	"	"	
2-Hexanone	ND	0.938	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0938	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0938	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	0.938	"	"	"	"	"	"	
Methylene chloride	ND	0.938	"	"	"	"	"	"	
Naphthalene	ND	0.0938	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0938	"	"	"	"	"	"	
Styrene	ND	0.0938	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0938	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0938	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0938	"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND	0.0938	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0938	"	"	"	"	"	"	
Toluene	ND	0.0938	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0938	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0938	"	"	"	"	"	"	
Trichloroethene	ND	0.0938	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0938	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0938	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0938	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0938	"	"	"	"	"	"	
Vinyl chloride	ND	0.0938	"	"	"	"	"	"	
Total Xylenes	ND	0.281	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	83.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	85.1 %	70-130			"	"	"	"	
Surrogate: 4-BFB	84.8 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
HA5-0.5 (BSL0418-25) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45										
Acetone	ND	1.69		mg/kg dry	1	5L29018	12/29/05	12/29/05	EPA 8260B	
Benzene	ND	0.169		"	"	"	"	"	"	
Bromobenzene	ND	0.169		"	"	"	"	"	"	
Bromochloromethane	ND	0.169		"	"	"	"	"	"	
Bromodichloromethane	ND	0.169		"	"	"	"	"	"	
Bromoform	ND	0.169		"	"	"	"	"	"	
Bromomethane	ND	0.169		"	"	"	"	"	"	
2-Butanone	ND	1.69		"	"	"	"	"	"	
n-Butylbenzene	ND	0.169		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.169		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.169		"	"	"	"	"	"	
Carbon disulfide	ND	0.169		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.169		"	"	"	"	"	"	
robenzene	ND	0.169		"	"	"	"	"	"	
roethane	ND	0.169		"	"	"	"	"	"	
Chloroform	ND	0.169		"	"	"	"	"	"	
Chloromethane	ND	0.844		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.169		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.169		"	"	"	"	"	"	
Dibromochloromethane	ND	0.169		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.844		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.169		"	"	"	"	"	"	
Dibromomethane	ND	0.169		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.169		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.169		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.169		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.169		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.169		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.169		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.169		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.169		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.169		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.169		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.169		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.169		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.169		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.169		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.169		"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
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**Volatile Organic Compounds (Special List) by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA5-0.5 (BSL0418-25) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	0.169	mg/kg dry	1	5L29018	12/29/05	12/29/05	EPA 8260B	
Hexachlorobutadiene	ND	0.169	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.844	"	"	"	"	"	"	
2-Hexanone	ND	1.69	"	"	"	"	"	"	
Isopropylbenzene	ND	0.169	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.169	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	1.69	"	"	"	"	"	"	
Methylene chloride	ND	1.69	"	"	"	"	"	"	
Naphthalene	ND	0.169	"	"	"	"	"	"	
n-Propylbenzene	ND	0.169	"	"	"	"	"	"	
Styrene	ND	0.169	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.169	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.169	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.169	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.169	"	"	"	"	"	"	
Tetrachloroethene	ND	0.169	"	"	"	"	"	"	
Toluene	ND	0.169	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.169	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.169	"	"	"	"	"	"	
Trichloroethene	ND	0.169	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.169	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.169	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.169	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.169	"	"	"	"	"	"	
Vinyl chloride	ND	0.169	"	"	"	"	"	"	
Total Xylenes	ND	0.506	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	72.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	70.7 %	70-130			"	"	"	"	
Surrogate: 4-BFB	68.9 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

*Jeff Gerdes*

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Trip Blank (B5L0418-28) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45</b>									
Acetone	ND	1.26	mg/kg wet	1	SL29018	12/29/05	12/29/05	EPA 8260B	
Benzene	ND	0.126	"	"	"	"	"	"	
Bromobenzene	ND	0.126	"	"	"	"	"	"	
Bromochloromethane	ND	0.126	"	"	"	"	"	"	
Bromodichloromethane	ND	0.126	"	"	"	"	"	"	
Bromoform	ND	0.126	"	"	"	"	"	"	
Bromomethane	ND	0.126	"	"	"	"	"	"	
2-Butanone	ND	1.26	"	"	"	"	"	"	
n-Butylbenzene	ND	0.126	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.126	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.126	"	"	"	"	"	"	
Carbon disulfide	ND	0.126	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.126	"	"	"	"	"	"	
oobenzene	ND	0.126	"	"	"	"	"	"	
oethane	ND	0.126	"	"	"	"	"	"	
Chloroform	ND	0.126	"	"	"	"	"	"	
Chloromethane	ND	0.631	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.126	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.126	"	"	"	"	"	"	
Dibromochloromethane	ND	0.126	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.631	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.126	"	"	"	"	"	"	
Dibromomethane	ND	0.126	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.126	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.126	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.126	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.126	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.126	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.126	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.126	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.126	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.126	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.126	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.126	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.126	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.126	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.126	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.126	"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Trip Blank (BSL0418-28) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45</b>									
Ethylbenzene	ND	0.126	mg/kg wet	1	5L29018	12/29/05	12/29/05	EPA 8260B	
Hexachlorobutadiene	ND	0.126	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.631	"	"	"	"	"	"	
2-Hexanone	ND	1.26	"	"	"	"	"	"	
Isopropylbenzene	ND	0.126	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.126	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	1.26	"	"	"	"	"	"	
Methylene chloride	ND	1.26	"	"	"	"	"	"	
Naphthalene	ND	0.126	"	"	"	"	"	"	
n-Propylbenzene	ND	0.126	"	"	"	"	"	"	
Styrene	ND	0.126	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.126	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.126	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.126	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.126	"	"	"	"	"	"	
Tetrachloroethene	ND	0.126	"	"	"	"	"	"	
Toluene	ND	0.126	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.126	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.126	"	"	"	"	"	"	
Trichloroethene	ND	0.126	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.126	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.126	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.126	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.126	"	"	"	"	"	"	
Vinyl chloride	ND	0.126	"	"	"	"	"	"	
Total Xylenes	ND	0.379	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-BFB	104 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GP15-W-8.0 (B5L0418-07) Water** Sampled: 12/14/05 10:45 Received: 12/16/05 16:45

2-Butanone	2.07	2.00	ug/l	1	5L19061	12/19/05	12/19/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	104 %	70-130			"	"	"	"	

**GP13-W-8.0 (B5L0418-16) Water** Sampled: 12/14/05 14:45 Received: 12/16/05 16:45

2-Butanone	ND	2.00	ug/l	1	5L19061	12/19/05	12/19/05	EPA 8260B	
cis-1,2-Dichloroethene	6.03	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	1.01	0.200	"	"	"	"	"	"	
Trichloroethene	0.220	0.200	"	"	"	"	"	"	
chloride	16.5	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	104 %	70-130			"	"	"	"	

Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi Project: Precision Engineering  
 7223 NE Hazel Dell Ave., Suite B Project Number: 8006.08.04  
 Vancouver, WA/USA 98665 Project Manager: Alan Hughes Reported:  
 01/12/06 15:12

**Conventional Chemistry Parameters by APHA/EPA Methods  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP13-S-1.0 (B5L0418-01) Soil Sampled: 12/14/05 08:15 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.4	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP13-S-6.0 (B5L0418-02) Soil Sampled: 12/14/05 08:30 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.3	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP21-S-1.0 (B5L0418-03) Soil Sampled: 12/14/05 08:50 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.0	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP21-S-6.5 (B5L0418-04) Soil Sampled: 12/14/05 08:57 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.3	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP20-S-1.0 (B5L0418-05) Soil Sampled: 12/14/05 09:15 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.1	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP20-S-6.0 (B5L0418-06) Soil Sampled: 12/14/05 09:30 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.5	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP32-S-1.0 (B5L0418-08) Soil Sampled: 12/14/05 11:13 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	3500	1.0	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP23-S-7.0 (B5L0418-10) Soil Sampled: 12/14/05 12:15 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.1	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP23-S-10.5 (B5L0418-11) Soil Sampled: 12/14/05 12:40 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.2	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	

North Creek Analytical - Bothell

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 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP24-S-3.0 (B5L0418-12) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.0	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GPDUP-S-3.0 (B5L0418-13) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	1.1	mg/kg dry	1	5L28062	12/28/05	12/29/05	EPA 7196A	
<b>GP24-S-6.5 (B5L0418-14) Soil Sampled: 12/14/05 13:45 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	2.4	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA1-0.5 (B5L0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	2.9	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA1-1.5 (B5L0418-18) Soil Sampled: 12/15/05 11:45 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	6.5	2.6	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA2-0.5 (B5L0418-19) Soil Sampled: 12/15/05 12:45 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	89	3.6	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA2-1.5 (B5L0418-20) Soil Sampled: 12/15/05 13:00 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	3.2	2.5	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA3-0.5 (B5L0418-21) Soil Sampled: 12/15/05 13:45 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	2.6	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA3-1.5 (B5L0418-22) Soil Sampled: 12/15/05 14:00 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	2.4	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA4-0.5 (BSL0418-23) Soil Sampled: 12/15/05 14:20 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	7.2	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA4-1.5 (BSL0418-24) Soil Sampled: 12/15/05 14:30 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	3.0	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA5-0.5 (BSL0418-25) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	5.8	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA5-1.5 (BSL0418-26) Soil Sampled: 12/15/05 15:10 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	2.9	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	
<b>HA-DUP (BSL0418-27) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45</b>									
Hexavalent Chromium	ND	2.8	mg/kg dry	1	6A03022	01/03/06	01/03/06	EPA 7196A	

North Creek Analytical - Bothell

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Physical Parameters by APHA/ASTM/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP13-S-1.0 (B5L0418-01) Soil</b> Sampled: 12/14/05 08:15 Received: 12/16/05 16:45									
Dry Weight	79.5	1.00	%	1	5L28040	12/28/05	12/29/05	BSOPSP003R08	
<b>GP13-S-6.0 (B5L0418-02) Soil</b> Sampled: 12/14/05 08:30 Received: 12/16/05 16:45									
Dry Weight	78.1	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>GP21-S-1.0 (B5L0418-03) Soil</b> Sampled: 12/14/05 08:50 Received: 12/16/05 16:45									
Dry Weight	89.2	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>GP21-S-6.5 (B5L0418-04) Soil</b> Sampled: 12/14/05 08:57 Received: 12/16/05 16:45									
Dry Weight	76.6	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>GP20-S-1.0 (B5L0418-05) Soil</b> Sampled: 12/14/05 09:15 Received: 12/16/05 16:45									
Dry Weight	84.5	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>GP20-S-6.0 (B5L0418-06) Soil</b> Sampled: 12/14/05 09:30 Received: 12/16/05 16:45									
Dry Weight	71.7	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>-S-1.0 (B5L0418-08) Soil</b> Sampled: 12/14/05 11:13 Received: 12/16/05 16:45									
Dry Weight	88.2	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>GP23-S-7.0 (B5L0418-10) Soil</b> Sampled: 12/14/05 12:15 Received: 12/16/05 16:45									
Dry Weight	92.7	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>GP23-S-10.5 (B5L0418-11) Soil</b> Sampled: 12/14/05 12:40 Received: 12/16/05 16:45									
Dry Weight	93.2	1.00	%	1	5L28040	12/28/05	12/29/05	BSOPSP003R08	

Creek Analytical - Bothell

*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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**Physical Parameters by APHA/ASTM/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP24-S-3.0 (B5L0418-12) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45</b>									
Dry Weight	89.5	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>GP24-S-3.0 (B5L0418-13) Soil Sampled: 12/14/05 13:30 Received: 12/16/05 16:45</b>									
Dry Weight	89.5	1.00	%	1	5L28040	12/28/05	12/29/05	BSOPSP003R08	
<b>GP24-S-6.5 (B5L0418-14) Soil Sampled: 12/14/05 13:45 Received: 12/16/05 16:45</b>									
Dry Weight	84.7	1.00	%	1	5L28040	12/28/05	12/29/05	BSOPSP003R08	
<b>HA1-0.5 (B5L0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45</b>									
Dry Weight	65.8	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>HA1-1.5 (B5L0418-18) Soil Sampled: 12/15/05 11:45 Received: 12/16/05 16:45</b>									
Dry Weight	77.1	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>HA2-0.5 (B5L0418-19) Soil Sampled: 12/15/05 12:45 Received: 12/16/05 16:45</b>									
Dry Weight	56.2	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>HA2-1.5 (B5L0418-20) Soil Sampled: 12/15/05 13:00 Received: 12/16/05 16:45</b>									
Dry Weight	80.0	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>HA3-0.5 (B5L0418-21) Soil Sampled: 12/15/05 13:45 Received: 12/16/05 16:45</b>									
Dry Weight	76.4	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	
<b>HA3-1.5 (B5L0418-22) Soil Sampled: 12/15/05 14:00 Received: 12/16/05 16:45</b>									
Dry Weight	85.4	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSP003R08	

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Physical Parameters by APHA/ASTM/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA4-0.5 (B5L0418-23) Soil Sampled: 12/15/05 14:20 Received: 12/16/05 16:45									
Dry Weight	28.9	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSPPL003R08	
HA4-1.5 (B5L0418-24) Soil Sampled: 12/15/05 14:30 Received: 12/16/05 16:45									
Dry Weight	62.3	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSPPL003R08	
HA5-0.5 (B5L0418-25) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45									
Dry Weight	37.3	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSPPL003R08	
HA5-1.5 (B5L0418-26) Soil Sampled: 12/15/05 15:10 Received: 12/16/05 16:45									
Dry Weight	64.1	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSPPL003R08	
HA-DUP (B5L0418-27) Soil Sampled: 12/15/05 12:00 Received: 12/16/05 16:45									
Dry Weight	64.9	1.00	%	1	5L21051	12/21/05	12/22/05	BSOPSPPL003R08	

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**Volatile Petroleum Products by NWTPH-Gx - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch 5L17015: Prepared 12/17/05 Using EPA 5030B (MeOH)**

**Blank (5L17015-BLK1)**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg							
Surrogate: 4-BFB (FID)	3.04		"	3.00		101	50-150			

**LCS (5L17015-BS1)**

Gasoline Range Hydrocarbons	49.8	5.00	mg/kg	50.0		99.6	75-125			
Surrogate: 4-BFB (FID)	3.37		"	3.00		112	50-150			

**LCS Dup (5L17015-BSD1)**

Gasoline Range Hydrocarbons	48.4	5.00	mg/kg	50.0		96.8	75-125	2.85	25	
Surrogate: 4-BFB (FID)	3.42		"	3.00		114	50-150			

**Matrix Spike (5L17015-MS1)**

**Source: B5L0415-01**

Gasoline Range Hydrocarbons	907	40.3	mg/kg dry	403	505	99.8	42-125			
Surrogate: 4-BFB (FID)	2.70		"	2.42		112	50-150			

**Matrix Spike Dup (5L17015-MSD1)**

**Source: B5L0415-01**

Gasoline Range Hydrocarbons	923	40.3	mg/kg dry	403	505	104	42-125	1.75	40	
Surrogate: 4-BFB (FID)	2.70		"	2.42		112	50-150			

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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Reported:  
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**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L20040: Prepared 12/20/05 Using EPA 3550B**

**Blank (5L20040-BLK1)**

Diesel Range Hydrocarbons	ND	10.0	mg/kg							
Lube Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	8.39		"	8.33		101	50-150			
Surrogate: Octacosane	8.44		"	8.33		101	50-150			

**LCS (5L20040-BS1)**

Diesel Range Hydrocarbons	73.9	10.0	mg/kg	66.7		111	71-120			
Surrogate: 2-FBP	7.52		"	8.33		90.3	50-150			

**LCS Dup (5L20040-BSD1)**

Diesel Range Hydrocarbons	75.3	10.0	mg/kg	66.7		113	71-120	1.88	.40	
Surrogate: 2-FBP	7.72		"	8.33		92.7	50-150			

**ate (5L20040-DUP1)**

				Source: BSL0418-02						
Diesel Range Hydrocarbons	7.98	12.6	mg/kg dry		12.0			40.2	40	Q-05
Lube Oil Range Hydrocarbons	51.2	31.5	"		56.1			9.13	40	
Surrogate: 2-FBP	9.90		"	10.5		94.3	50-150			
Surrogate: Octacosane	9.81		"	10.5		93.4	50-150			

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 509.924.9200 fax 509.924.9290  
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L20033: Prepared 12/20/05 Using EPA 7471A**

**Blank (5L20033-BLK1)**

Mercury ND 0.133 mg/kg

**LCS (5L20033-BS1)**

Mercury 0.701 0.133 mg/kg 0.667 105 80-120

**LCS Dup (5L20033-BSD1)**

Mercury 0.679 0.133 mg/kg 0.667 102 80-120 3.19 20

**Matrix Spike (5L20033-MS1)**

Source: B5L0339-09

Mercury 0.781 0.144 mg/kg dry 0.722 ND 108 70-130

**Matrix Spike Dup (5L20033-MSD1)**

Source: B5L0339-09

Mercury 0.817 0.144 mg/kg dry 0.722 ND 113 70-130 4.51 30

**Batch 5L20050: Prepared 12/20/05 Using EPA 3050B**

**Blank (5L20050-BLK1)**

Silver	ND	0.495	mg/kg
Arsenic	ND	0.495	"
Beryllium	ND	0.495	"
Cadmium	ND	0.495	"
Chromium	ND	0.495	"
Copper	ND	0.495	"
Nickel	ND	0.495	"
Lead	ND	0.495	"
Antimony	ND	1.49	"
Selenium	ND	0.495	"
Thallium	ND	0.495	"
Zinc	ND	4.95	"

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L20050: Prepared 12/20/05 Using EPA 3050B**

**LCS (5L20050-BS1)**

Silver	41.2	0.495	mg/kg	39.6		104	80-120			
Arsenic	41.7	0.495	"	39.6		105	80-120			
Beryllium	41.1	0.495	"	39.6		104	80-120			
Cadmium	41.1	0.495	"	39.6		104	80-120			
Chromium	42.3	0.495	"	39.6		107	80-120			
Copper	40.9	0.495	"	39.6		103	80-120			
Nickel	41.8	0.495	"	39.6		106	80-120			
Lead	42.2	0.495	"	39.6		107	80-120			
Antimony	45.1	1.49	"	39.6		114	80-120			
Selenium	40.8	0.495	"	39.6		103	80-120			
Thallium	41.1	0.495	"	39.6		104	80-120			
--	42.0	4.95	"	39.6		106	80-120			

**Dup (5L20050-BSD1)**

Silver	41.3	0.495	mg/kg	39.6		104	80-120	0.242	20	
Arsenic	41.2	0.495	"	39.6		104	80-120	1.21	20	
Beryllium	40.5	0.495	"	39.6		102	80-120	1.47	20	
Cadmium	40.9	0.495	"	39.6		103	80-120	0.488	20	
Chromium	41.8	0.495	"	39.6		106	80-120	1.19	20	
Copper	40.5	0.495	"	39.6		102	80-120	0.983	20	
Nickel	41.2	0.495	"	39.6		104	80-120	1.45	20	
Lead	41.9	0.495	"	39.6		106	80-120	0.713	20	
Antimony	44.3	1.49	"	39.6		112	80-120	1.79	20	
Selenium	40.5	0.495	"	39.6		102	80-120	0.738	20	
Thallium	41.0	0.495	"	39.6		104	80-120	0.244	20	
Zinc	41.3	4.95	"	39.6		104	80-120	1.68	20	

**Matrix Spike (5L20050-MS1)**

**Source: B5L0418-01**

Silver	45.3	0.623	mg/kg dry	49.8	0.208	90.5	54-126			
Arsenic	55.3	0.623	"	49.8	9.45	92.1	57-125			
Beryllium	47.0	0.623	"	49.8	0.433	93.5	72-122			
Cadmium	48.9	0.623	"	49.8	1.29	95.6	80-120			
Chromium	80.6	0.623	"	49.8	26.6	108	30-163			
Copper	68.2	0.623	"	49.8	29.0	78.7	20-148			
Nickel	78.9	0.623	"	49.8	21.8	115	35-150			
Lead	79.0	0.623	"	49.8	21.1	116	29-166			

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L20050: Prepared 12/20/05 Using EPA 3050B**

**Matrix Spike (5L20050-MS1)**

**Source: B5L0418-01**

Antimony	2.34	1.87	mg/kg dry	49.8	ND	4.70	10-120			Q-13
Selenium	45.6	0.623	"	49.8	0.332	90.9	61-120			
Thallium	46.7	0.623	"	49.8	0.172	93.4	75-120			
Zinc	152	6.23	"	49.8	84.9	135	20-160			

**Matrix Spike Dup (5L20050-MSD1)**

**Source: B5L0418-01**

Silver	46.1	0.617	mg/kg dry	49.3	0.208	93.1	54-126	1.75	30	
Arsenic	57.3	0.617	"	49.3	9.45	97.1	57-125	3.55	30	
Beryllium	50.3	0.617	"	49.3	0.433	101	72-122	6.78	30	
Cadmium	49.6	0.617	"	49.3	1.29	98.0	80-120	1.42	30	
Chromium	78.9	0.617	"	49.3	26.6	106	30-163	2.13	30	
Copper	78.0	0.617	"	49.3	29.0	99.4	20-148	13.4	37	
Nickel	71.8	0.617	"	49.3	21.8	101	35-150	9.42	30	
Lead	73.7	0.617	"	49.3	21.1	107	29-166	6.94	40	
Antimony	1.68	1.85	"	49.3	ND	3.41	10-120	32.8	50	Q-13
Selenium	47.4	0.617	"	49.3	0.332	95.5	61-120	3.87	30	
Thallium	47.8	0.617	"	49.3	0.172	96.6	75-120	2.33	30	
Zinc	138	6.17	"	49.3	84.9	108	20-160	9.66	30	

**Post Spike (5L20050-PS1)**

**Source: B5L0418-01**

Silver	0.0986		ug/ml	0.100	0.000350	98.2	75-125			
Arsenic	0.121		"	0.100	0.0159	105	75-125			
Beryllium	0.0982		"	0.100	0.000730	97.5	75-125			
Cadmium	0.101		"	0.100	0.00217	98.8	75-125			
Chromium	0.148		"	0.100	0.0448	103	75-125			
Copper	0.148		"	0.101	0.0488	98.2	75-125			
Nickel	0.136		"	0.100	0.0367	99.3	75-125			
Lead	0.137		"	0.100	0.0356	101	75-125			
Antimony	0.0585		"	0.0500	-0.000190	117	75-125			
Selenium	0.0987		"	0.100	0.000560	98.1	75-125			
Thallium	0.102		"	0.100	0.000290	102	75-125			
Zinc	0.241		"	0.100	0.143	98.0	75-125			

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L21040: Prepared 12/21/05 Using EPA 3050B**

**Blank (5L21040-BLK1)**

Silver	ND	0.500	mg/kg							
Arsenic	ND	0.500	"							
Beryllium	ND	0.500	"							
Cadmium	ND	0.500	"							
Chromium	ND	0.500	"							
Copper	ND	0.500	"							
Nickel	ND	0.500	"							
Lead	ND	0.500	"							
Antimony	ND	1.50	"							
Selenium	ND	0.500	"							
Thallium	ND	0.500	"							
	ND	5.00	"							

**(5L21040-BS1)**

Silver	41.1	0.500	mg/kg	40.0		103	80-120			
Arsenic	41.0	0.500	"	40.0		102	80-120			
Beryllium	42.1	0.500	"	40.0		105	80-120			
Cadmium	40.7	0.500	"	40.0		102	80-120			
Chromium	40.9	0.500	"	40.0		102	80-120			
Copper	39.8	0.500	"	40.0		99.5	80-120			
Nickel	40.2	0.500	"	40.0		100	80-120			
Lead	42.0	0.500	"	40.0		105	80-120			
Antimony	48.2	7.50	"	40.0		120	80-120			
Selenium	40.2	0.500	"	40.0		100	80-120			
Thallium	41.2	0.500	"	40.0		103	80-120			
Zinc	41.5	5.00	"	40.0		104	80-120			

**LCS Dup (5L21040-BSD1)**

Silver	41.2	0.500	mg/kg	40.0		103	80-120	0.243	20	
Arsenic	41.4	0.500	"	40.0		104	80-120	0.971	20	
Beryllium	42.5	0.500	"	40.0		106	80-120	0.946	20	
Cadmium	41.0	0.500	"	40.0		102	80-120	0.734	20	
Chromium	41.3	0.500	"	40.0		103	80-120	0.973	20	
Copper	40.1	0.500	"	40.0		100	80-120	0.751	20	
Nickel	40.5	0.500	"	40.0		101	80-120	0.743	20	
Lead	42.2	0.500	"	40.0		106	80-120	0.475	20	

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L21040: Prepared 12/21/05 Using EPA 3050B**

**LCS Dup (5L21040-BSD1)**

Antimony	47.7	7.50	mg/kg	40.0		119	80-120	1.04	20	
Selenium	40.4	0.500	"	40.0		101	80-120	0.496	20	
Thallium	41.2	0.500	"	40.0		103	80-120	0.00	20	
Zinc	41.9	5.00	"	40.0		105	80-120	0.959	20	

**Matrix Spike (5L21040-MS1)**

**Source: BSL0426-04**

Silver	40.6	0.539	mg/kg dry	43.1	ND	94.2	54-126			
Arsenic	42.7	0.539	"	43.1	1.59	95.4	57-125			
Beryllium	44.4	0.539	"	43.1	0.176	103	72-122			
Cadmium	42.6	0.539	"	43.1	0.0824	98.6	80-120			
Chromium	65.2	0.539	"	43.1	25.7	91.6	30-163			
Copper	49.1	0.539	"	43.1	9.01	93.0	20-148			
Nickel	69.2	0.539	"	43.1	28.9	93.5	35-150			
Lead	45.4	0.539	"	43.1	1.76	101	29-166			
Antimony	6.09	1.62	"	43.1	0.572	12.8	10-120			
Selenium	40.3	0.539	"	43.1	ND	93.5	61-120			
Thallium	42.9	0.539	"	43.1	0.0714	99.4	75-120			
Zinc	63.5	5.39	"	43.1	24.4	90.7	20-160			

**Matrix Spike Dup (5L21040-MSD1)**

**Source: BSL0426-04**

Silver	43.6	0.572	mg/kg dry	45.8	ND	95.2	54-126	7.13	30	
Arsenic	45.5	0.572	"	45.8	1.59	95.9	57-125	6.35	30	
Beryllium	47.4	0.572	"	45.8	0.176	103	72-122	6.54	30	
Cadmium	45.1	0.572	"	45.8	0.0824	98.3	80-120	5.70	30	
Chromium	78.0	0.572	"	45.8	25.7	114	30-163	17.9	30	
Copper	52.4	0.572	"	45.8	9.01	94.7	20-148	6.50	37	
Nickel	74.4	0.572	"	45.8	28.9	99.3	35-150	7.24	30	
Lead	48.6	0.572	"	45.8	1.76	102	29-166	6.81	40	
Antimony	7.69	1.72	"	45.8	0.572	15.5	10-120	23.2	50	
Selenium	43.2	0.572	"	45.8	ND	94.3	61-120	6.95	30	
Thallium	45.8	0.572	"	45.8	0.0714	99.8	75-120	6.54	30	
Zinc	68.4	5.72	"	45.8	24.4	96.1	20-160	7.43	30	

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maui Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L21040: Prepared 12/21/05 Using EPA 3050B**

**Post Spike (5L21040-PS1)**

**Source: B5L0426-04**

Silver	0.0973		ug/ml	0.100	-0.0000400	97.3	75-125			
Arsenic	0.107		"	0.100	0.00289	104	75-125			
Beryllium	0.103		"	0.100	0.000320	103	75-125			
Cadmium	0.0990		"	0.100	-0.000150	98.8	75-125			
Chromium	0.148		"	0.100	0.0467	101	75-125			
Copper	0.113		"	0.101	0.0164	95.6	75-125			
Nickel	0.149		"	0.100	0.0525	96.5	75-125			
Lead	0.105		"	0.100	0.00320	102	75-125			
Antimony	0.0549		"	0.0500	0.00104	108	75-125			
Selenium	0.0970		"	0.100	0.0000800	96.9	75-125			
Thallium	0.102		"	0.100	0.000130	102	75-125			
	0.141		"	0.100	0.0444	96.6	75-125			

**Batch 5L29046: Prepared 12/29/05 Using EPA 7471A**

**Blank (5L29046-BLK1)**

Mercury ND 0.400 mg/kg

**LCS (5L29046-BS1)**

Mercury 0.718 0.400 mg/kg 0.667 108 80-120

**LCS Dup (5L29046-BSD1)**

Mercury 0.681 0.400 mg/kg 0.667 102 80-120 5.29 20

**Matrix Spike (5L29046-MS1)**

**Source: B5L0567-01**

Mercury 0.802 0.439 mg/kg dry 0.731 ND 110 70-130

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 509.924.9200 fax 509.924.9290  
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 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue; Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29046: Prepared 12/29/05 Using EPA 7471A**

**Matrix Spike Dup (5L29046-MSD1)**

**Source: BSL0567-01**

Mercury	0.792	0.439	mg/kg dry	0.731	ND	108	70-130	1.25	30	
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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L21059: Prepared 12/21/05 Using EPA 5035**

**Blank (5L21059-BLK1)**

2-Butanone	ND	15.0	ug/kg							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
Trichloroethene	ND	2.50	"							
Vinyl chloride	ND	2.50	"							
Surrogate: 1,2-DCA-d4	45.9		"	40.0		115	60-140			
Surrogate: Toluene-d8	47.4		"	40.0		118	60-140			
Surrogate: 4-BFB	45.8		"	40.0		114	60-140			

**LCS (5L21059-BS1)**

2-Butanone	468	15.0	ug/kg	400		117	70-130			
cis-1,2-Dichloroethene	44.0	3.00	"	40.0		110	70-130			
roethene	35.3	2.50	"	40.0		88.2	70-130			
Surrogate: 1,2-DCA-d4	42.7		"	40.0		107	60-140			
Surrogate: Toluene-d8	39.5		"	40.0		98.8	60-140			
Surrogate: 4-BFB	41.2		"	40.0		103	60-140			

**LCS Dup (5L21059-BSD1)**

2-Butanone	496	15.0	ug/kg	400	124	70-130	5.81	30		
cis-1,2-Dichloroethene	46.2	3.00	"	40.0	116	70-130	4.88	30		
Trichloroethene	36.9	2.50	"	40.0	92.2	70-130	4.43	30		
Surrogate: 1,2-DCA-d4	49.5		"	40.0	124	60-140				
Surrogate: Toluene-d8	49.6		"	40.0	124	60-140				
Surrogate: 4-BFB	47.9		"	40.0	120	60-140				

**Batch 5L22045: Prepared 12/22/05 Using EPA 5035**

**Blank (5L22045-BLK1)**

Acetone	ND	30.0	ug/kg							
Benzene	ND	1.50	"							
Bromobenzene	ND	5.00	"							
Bromochloromethane	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	10.0	"							
2-Butanone	ND	15.0	"							
n-Butylbenzene	ND	5.00	"							

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 5L22045: Prepared 12/22/05 Using EPA 5035

Blank (5L22045-BLK1)

sec-Butylbenzene	ND	5.00	ug/kg							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	3.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	2.50	"							
Chloromethane	ND	10.0	"							
2-Chlorotoluene	ND	5.00	"							
4-Chlorotoluene	ND	5.00	"							
Dibromochloromethane	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	10.0	"							
1,2-Dibromoethane (EDB)	ND	5.00	"							
Dibromomethane	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	1.25	"							
1,1-Dichloroethene	ND	3.00	"							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	10.0	"							
1,1-Dichloropropene	ND	5.00	"							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	1.25	"							
Ethylbenzene	ND	4.00	"							
Hexachlorobutadiene	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
2-Hexanone	ND	20.0	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							

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 907.563.9200 fax 907.563.9210

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L22045: Prepared 12/22/05 Using EPA 5035

**Blank (5L22045-BLK1)**

4-Methyl-2-pentanone	ND	20.0	ug/kg							Q-41
Methylene chloride	ND	3.50	"							
Naphthalene	ND	5.00	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
1,1,1,2,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	2.00	"							
Toluene	ND	1.50	"							
Trichloroethane	ND	2.50	"							
Trichloroethane	ND	1.25	"							
Trichloroethene	ND	2.50	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	2.50	"							
Total Xylenes	ND	10.0	"							
Surrogate: 1,2-DCA-d4	42.4		"	40.0		106	60-140			
Surrogate: Toluene-d8	46.1		"	40.0		115	60-140			
Surrogate: 4-BFB	43.6		"	40.0		109	60-140			

**LCS (5L22045-BS1)**

Acetone	393	30.0	ug/kg	400		98.2	70-130			
Benzene	43.6	1.50	"	40.0		109	70-130			
2-Butanone	477	15.0	"	400		119	70-130			Q-41
Carbon disulfide	42.8	3.00	"	40.0		107	70-130			
Chlorobenzene	38.4	2.00	"	40.0		96.0	70-130			
1,1-Dichloroethane	43.2	2.00	"	40.0		108	70-130			
1,1-Dichloroethene	38.2	3.00	"	40.0		95.5	70-130			
cis-1,2-Dichloroethene	45.6	3.00	"	40.0		114	70-130			
Ethylbenzene	37.0	4.00	"	40.0		92.5	70-130			
Hexachlorobutadiene	31.8	5.00	"	40.0		79.5	70-130			

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L22045: Prepared 12/22/05 Using EPA 5035

**LCS (5L22045-BS1)**

4-Methyl-2-pentanone	453	20.0	ug/kg	400		113	70-130			Q-41
Tetrachloroethene	39.6	2.00	"	40.0		99.0	70-130			
Toluene	39.9	1.50	"	40.0		99.8	70-130			
1,1,1-Trichloroethane	37.9	2.50	"	40.0		94.8	70-130			
Trichloroethene	39.4	2.50	"	40.0		98.5	70-130			
Surrogate: 1,2-DCA-d4	36.7		"	40.0		91.8	60-140			
Surrogate: Toluene-d8	43.0		"	40.0		108	60-140			
Surrogate: 4-BFB	41.6		"	40.0		104	60-140			

**LCS Dup (5L22045-BSD1)**

Acetone	425	30.0	ug/kg	400		106	70-130	7.82	30	
Benzene	45.9	1.50	"	40.0		115	70-130	5.14	30	
2-Butanone	495	15.0	"	400		124	70-130	3.70	30	
Carbon disulfide	47.4	3.00	"	40.0		118	70-130	10.2	30	
Chlorobenzene	38.4	2.00	"	40.0		96.0	70-130	0.00	30	
1,1-Dichloroethane	46.6	2.00	"	40.0		116	70-130	7.57	30	
1,1-Dichloroethene	41.7	3.00	"	40.0		104	70-130	8.76	30	
cis-1,2-Dichloroethene	49.4	3.00	"	40.0		124	70-130	8.00	30	
Ethylbenzene	36.1	4.00	"	40.0		90.2	70-130	2.46	30	
Hexachlorobutadiene	34.6	5.00	"	40.0		86.5	70-130	8.43	30	
4-Methyl-2-pentanone	459	20.0	"	400		115	70-130	1.32	30	Q-41
Tetrachloroethene	40.0	2.00	"	40.0		100	70-130	1.01	30	
Toluene	39.9	1.50	"	40.0		99.8	70-130	0.00	30	
1,1,1-Trichloroethane	40.9	2.50	"	40.0		102	70-130	7.61	30	
Trichloroethene	41.6	2.50	"	40.0		104	70-130	5.43	30	
Surrogate: 1,2-DCA-d4	38.7		"	40.0		96.8	60-140			
Surrogate: Toluene-d8	45.2		"	40.0		113	60-140			
Surrogate: 4-BFB	43.8		"	40.0		110	60-140			

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 907.563.9200 fax 907.563.9210

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L22065: Prepared 12/21/05 Using EPA 5035**

**Blank (5L22065-BLK1)**

2-Butanone	ND	15.0	ug/kg							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
Trichloroethene	ND	2.50	"							
Vinyl chloride	ND	2.50	"							
Surrogate: 1,2-DCA-d4	44.8		"	40.0		112	60-140			
Surrogate: Toluene-d8	49.9		"	40.0		125	60-140			
Surrogate: 4-BFB	46.3		"	40.0		116	60-140			

**LCS (5L22065-BS1)**

2-Butanone	434	15.0	ug/kg	400		108	70-130			
cis-1,2-Dichloroethene	46.7	3.00	"	40.0		117	70-130			
Trichloroethene	38.4	2.50	"	40.0		96.0	70-130			
Surrogate: 1,2-DCA-d4	38.9		"	40.0		97.2	60-140			
Surrogate: Toluene-d8	33.4		"	40.0		83.5	60-140			
Surrogate: 4-BFB	33.5		"	40.0		83.8	60-140			

**LCS Dup (5L22065-BSD1)**

2-Butanone	405	15.0	ug/kg	400		101	70-130	6.91	30	
cis-1,2-Dichloroethene	48.1	3.00	"	40.0		120	70-130	2.95	30	
Trichloroethene	40.7	2.50	"	40.0		102	70-130	5.82	30	
Surrogate: 1,2-DCA-d4	44.1		"	40.0		110	60-140			
Surrogate: Toluene-d8	43.1		"	40.0		108	60-140			
Surrogate: 4-BFB	40.7		"	40.0		102	60-140			

**Batch 5L23024: Prepared 12/23/05 Using EPA 5035**

**Blank (5L23024-BLK1)**

2-Butanone	ND	15.0	ug/kg							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
Trichloroethene	ND	2.50	"							
Vinyl chloride	ND	2.50	"							
Surrogate: 1,2-DCA-d4	39.9		"	40.0		99.8	60-140			
Surrogate: Toluene-d8	47.2		"	40.0		118	60-140			
Surrogate: 4-BFB	44.8		"	40.0		112	60-140			

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L23024: Prepared 12/23/05 Using EPA 5035**

**LCS (5L23024-BS1)**

2-Butanone	441	15.0	ug/kg	400		110	70-130			
cis-1,2-Dichloroethene	48.6	3.00	"	40.0		122	70-130			
Trichloroethene	41.6	2.50	"	40.0		104	70-130			
Surrogate: 1,2-DCA-d4	38.8		"	40.0		97.0	60-140			
Surrogate: Toluene-d8	48.5		"	40.0		121	60-140			
Surrogate: 4-BFB	46.7		"	40.0		117	60-140			

**LCS Dup (5L23024-BSD1)**

2-Butanone	481	15.0	ug/kg	400		120	70-130	8.68	30	
cis-1,2-Dichloroethene	47.3	3.00	"	40.0		118	70-130	2.71	30	
Trichloroethene	40.6	2.50	"	40.0		102	70-130	2.43	30	
Surrogate: 1,2-DCA-d4	37.5		"	40.0		93.8	60-140			
Surrogate: Toluene-d8	40.8		"	40.0		102	60-140			
Surrogate: 4-BFB	40.2		"	40.0		100	60-140			

**Batch 5L28013: Prepared 12/27/05 Using EPA 5035**

**Blank (5L28013-BLK1)**

Acetone	ND	30.0	ug/kg							
Benzene	ND	1.50	"							
Bromobenzene	ND	5.00	"							
Bromochloromethane	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	10.0	"							
2-Butanone	ND	15.0	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	5.00	"							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	3.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	2.50	"							
Chloromethane	ND	10.0	"							
2-Chlorotoluene	ND	5.00	"							

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L28013: Prepared 12/27/05 Using EPA 5035

**Blank (5L28013-BLK1)**

4-Chlorotoluene	ND	5.00	ug/kg							
Dibromochloromethane	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	10.0	"							
1,2-Dibromoethane (EDB)	ND	5.00	"							
Dibromomethane	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	1.25	"							
chloroethene	ND	3.00	"							
-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	10.0	"							
1,1-Dichloropropene	ND	5.00	"							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	1.25	"							
Ethylbenzene	ND	4.00	"							
Hexachlorobutadiene	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
2-Hexanone	ND	20.0	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							
4-Methyl-2-pentanone	ND	20.0	"							
Methylene chloride	ND	3.50	"							
Naphthalene	ND	5.00	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							

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 509.924.9200 fax 509.924.9290  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28013: Prepared 12/27/05 Using EPA 5035**

**Blank (5L28013-BLK1)**

Tetrachloroethene	ND	2.00	ug/kg							
Toluene	ND	1.50	"							
1,1,1-Trichloroethane	ND	2.50	"							
1,1,2-Trichloroethane	ND	1.25	"							
Trichloroethene	ND	2.50	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	2.50	"							
Total Xylenes	ND	10.0	"							
Surrogate: 1,2-DCA-d4	37.1		"	40.0		92.8	60-140			
Surrogate: Toluene-d8	37.5		"	40.0		93.8	60-140			
Surrogate: 4-BFB	38.6		"	40.0		96.5	60-140			

**LCS (5L28013-BS1)**

Acetone	476	30.0	ug/kg	400		119	70-130			Q-41
Benzene	39.4	1.50	"	40.0		98.5	70-130			
2-Butanone	355	15.0	"	400		88.8	70-130			
Carbon disulfide	39.9	3.00	"	40.0		99.8	70-130			
Chlorobenzene	41.0	2.00	"	40.0		102	70-130			
1,1-Dichloroethane	42.2	2.00	"	40.0		106	70-130			
1,1-Dichloroethene	40.1	3.00	"	40.0		100	70-130			
cis-1,2-Dichloroethene	39.8	3.00	"	40.0		99.5	70-130			
Ethylbenzene	37.9	4.00	"	40.0		94.8	70-130			
Hexachlorobutadiene	39.7	5.00	"	40.0		99.2	70-130			
4-Methyl-2-pentanone	318	20.0	"	400		79.5	70-130			
Tetrachloroethene	40.0	2.00	"	40.0		100	70-130			
Toluene	39.3	1.50	"	40.0		98.2	70-130			
1,1,1-Trichloroethane	39.7	2.50	"	40.0		99.2	70-130			
Trichloroethene	37.8	2.50	"	40.0		94.5	70-130			
Surrogate: 1,2-DCA-d4	32.0		"	40.0		80.0	60-140			
Surrogate: Toluene-d8	32.7		"	40.0		81.8	60-140			
Surrogate: 4-BFB	33.8		"	40.0		84.5	60-140			

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**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28013: Prepared 12/27/05 Using EPA 5035**

**LCS Dup (5L28013-BSD1)**

Acetone	579	30.0	ug/kg	400		145	70-130	19.5	30	Q-41, X
Benzene	40.9	1.50	"	40.0		102	70-130	3.74	30	
2-Butanone	426	15.0	"	400		106	70-130	18.2	30	
Carbon disulfide	39.8	3.00	"	40.0		99.5	70-130	0.251	30	
Chlorobenzene	43.1	2.00	"	40.0		108	70-130	4.99	30	
1,1-Dichloroethane	42.2	2.00	"	40.0		106	70-130	0.00	30	
1,1-Dichloroethene	42.1	3.00	"	40.0		105	70-130	4.87	30	
cis-1,2-Dichloroethene	39.2	3.00	"	40.0		98.0	70-130	1.52	30	
Ethylbenzene	39.5	4.00	"	40.0		98.8	70-130	4.13	30	
Hexachlorobutadiene	40.5	5.00	"	40.0		101	70-130	2.00	30	
4-Methyl-2-pentanone	370	20.0	"	400		92.5	70-130	15.1	30	
Chloroethene	39.6	2.00	"	40.0		99.0	70-130	1.01	30	
ne	40.2	1.50	"	40.0		100	70-130	2.26	30	
1,1,1-Trichloroethane	39.6	2.50	"	40.0		99.0	70-130	0.252	30	
Trichloroethene	39.0	2.50	"	40.0		97.5	70-130	3.13	30	
Surrogate: 1,2-DCA-d4	33.9		"	40.0		84.8	60-140			
Surrogate: Toluene-d8	31.2		"	40.0		78.0	60-140			
Surrogate: 4-BFB	32.7		"	40.0		81.8	60-140			

**Batch 5L28017: Prepared 12/28/05 Using EPA 5035**

**Blank (5L28017-BLK1)**

Acetone	ND	30.0	ug/kg							
Benzene	ND	1.50	"							
Bromobenzene	ND	5.00	"							
Bromochloromethane	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	10.0	"							
2-Butanone	ND	15.0	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	5.00	"							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	3.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28017: Prepared 12/28/05 Using EPA 5035**

**Blank (5L28017-BLK1)**

Chloroethane	ND	5.00	ug/kg							
Chloroform	ND	2.50	"							
Chloromethane	ND	10.0	"							
2-Chlorotoluene	ND	5.00	"							
4-Chlorotoluene	ND	5.00	"							
Dibromochloromethane	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	10.0	"							
1,2-Dibromoethane (EDB)	ND	5.00	"							
Dibromomethane	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	1.25	"							
1,1-Dichloroethene	ND	3.00	"							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	10.0	"							
1,1-Dichloropropene	ND	5.00	"							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	1.25	"							
Ethylbenzene	ND	4.00	"							
Hexachlorobutadiene	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
2-Hexanone	ND	20.0	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							
4-Methyl-2-pentanone	ND	20.0	"							
Methylene chloride	ND	3.50	"							
Naphthalene	ND	5.00	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	1.00	"							

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28017: Prepared 12/28/05 Using EPA 5035**

**Blank (5L28017-BLK1)**

1,2,3-Trichlorobenzene	ND	5.00	ug/kg							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	2.00	"							
Toluene	ND	1.50	"							
1,1,1-Trichloroethane	ND	2.50	"							
1,1,2-Trichloroethane	ND	1.25	"							
Trichloroethene	ND	2.50	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	5.00	"							
Trimethylbenzene	ND	5.00	"							
Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	2.50	"							
Total Xylenes	ND	10.0	"							
Surrogate: 1,2-DCA-d4	39.7		"	40.0		99.2	60-140			
Surrogate: Toluene-d8	44.1		"	40.0		110	60-140			
Surrogate: 4-BFB	46.0		"	40.0		115	60-140			

**LCS (5L28017-BS1)**

Acetone	384	30.0	ug/kg	400		96.0	70-130			
Benzene	39.3	1.50	"	40.0		98.2	70-130			
2-Butanone	320	15.0	"	400		80.0	70-130			
Carbon disulfide	37.9	3.00	"	40.0		94.8	70-130			
Chlorobenzene	42.0	2.00	"	40.0		105	70-130			
1,1-Dichloroethane	41.3	2.00	"	40.0		103	70-130			
1,1-Dichloroethene	39.4	3.00	"	40.0		98.5	70-130			
cis-1,2-Dichloroethene	38.5	3.00	"	40.0		96.2	70-130			
Ethylbenzene	39.4	4.00	"	40.0		98.5	70-130			
Hexachlorobutadiene	42.4	5.00	"	40.0		106	70-130			
4-Methyl-2-pentanone	284	20.0	"	400		71.0	70-130			
Tetrachloroethene	38.8	2.00	"	40.0		97.0	70-130			
Toluene	36.8	1.50	"	40.0		92.0	70-130			
1,1,1-Trichloroethane	37.8	2.50	"	40.0		94.5	70-130			
Trichloroethene	36.6	2.50	"	40.0		91.5	70-130			

North Creek Analytical - Bothell

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28017: Prepared 12/28/05 Using EPA 5035**

**LCS (5L28017-BS1)**

Surrogate: 1,2-DCA-d4	31.4		ug/kg	40.0		78.5	60-140			
Surrogate: Toluene-d8	30.4		"	40.0		76.0	60-140			
Surrogate: 4-BFB	34.6		"	40.0		86.5	60-140			

**LCS Dup (5L28017-BSD1)**

Acetone	440	30.0	ug/kg	400		110	70-130	13.6	30	
Benzene	39.2	1.50	"	40.0		98.0	70-130	0.255	30	
2-Butanone	347	15.0	"	400		86.8	70-130	8.10	30	
Carbon disulfide	39.2	3.00	"	40.0		98.0	70-130	3.37	30	
Chlorobenzene	41.1	2.00	"	40.0		103	70-130	2.17	30	
1,1-Dichloroethane	41.5	2.00	"	40.0		104	70-130	0.483	30	
1,1-Dichloroethene	42.0	3.00	"	40.0		105	70-130	6.39	30	
cis-1,2-Dichloroethene	39.0	3.00	"	40.0		97.5	70-130	1.29	30	
Ethylbenzene	38.8	4.00	"	40.0		97.0	70-130	1.53	30	
Hexachlorobutadiene	42.9	5.00	"	40.0		107	70-130	1.17	30	
4-Methyl-2-pentanone	335	20.0	"	400		83.8	70-130	16.5	30	
Tetrachloroethene	38.5	2.00	"	40.0		96.2	70-130	0.776	30	
Toluene	37.4	1.50	"	40.0		93.5	70-130	1.62	30	
1,1,1-Trichloroethane	37.8	2.50	"	40.0		94.5	70-130	0.00	30	
Trichloroethene	37.5	2.50	"	40.0		93.8	70-130	2.43	30	
Surrogate: 1,2-DCA-d4	32.9		"	40.0		82.2	60-140			
Surrogate: Toluene-d8	31.4		"	40.0		78.5	60-140			
Surrogate: 4-BFB	34.6		"	40.0		86.5	60-140			

**Batch 5L29022: Prepared 12/29/05 Using EPA 5035**

**Blank (5L29022-BLK1)**

Acetone	ND	30.0	ug/kg							
Benzene	ND	1.50	"							
Bromobenzene	ND	5.00	"							
Bromochloromethane	ND	5.00	"							
Bromodichloromethane	ND	5.00	"							
Bromoform	ND	5.00	"							
Bromomethane	ND	10.0	"							
2-Butanone	ND	15.0	"							
n-Butylbenzene	ND	5.00	"							

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29022: Prepared 12/29/05 Using EPA 5035**

**Blank (5L29022-BLK1)**

sec-Butylbenzene	ND	5.00	ug/kg							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	3.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	2.50	"							
Chloromethane	ND	10.0	"							
2-Chlorotoluene	ND	5.00	"							
4-Chlorotoluene	ND	5.00	"							
Dibromochloromethane	ND	5.00	"							
bromo-3-chloropropane	ND	10.0	"							
bromoethane (EDB)	ND	5.00	"							
Dibromomethane	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	1.25	"							
1,1-Dichloroethene	ND	3.00	"							
cis-1,2-Dichloroethene	ND	3.00	"							
trans-1,2-Dichloroethene	ND	2.50	"							
1,2-Dichloropropane	ND	5.00	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	10.0	"							
1,1-Dichloropropene	ND	5.00	"							
cis-1,3-Dichloropropene	ND	5.00	"							
trans-1,3-Dichloropropene	ND	1.25	"							
Ethylbenzene	ND	4.00	"							
Hexachlorobutadiene	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
2-Hexanone	ND	20.0	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							

Creek Analytical - Bothell

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Reported:  
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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29022: Prepared 12/29/05 Using EPA 5035**

**Blank (5L29022-BLK1)**

4-Methyl-2-pentanone	ND	20.0	ug/kg							
Methylene chloride	ND	3.50	"							
Naphthalene	ND	5.00	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	2.00	"							
Toluene	ND	1.50	"							
1,1,1-Trichloroethane	ND	2.50	"							
1,1,2-Trichloroethane	ND	1.25	"							
Trichloroethene	ND	2.50	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	2.50	"							
Total Xylenes	ND	10.0	"							
Surrogate: 1,2-DCA-d4	35.8		"	40.0		89.5	60-140			
Surrogate: Toluene-d8	40.0		"	40.0		100	60-140			
Surrogate: 4-BFB	39.7		"	40.0		99.2	60-140			

**LCS (5L29022-BS1)**

Acetone	441	30.0	ug/kg	400		110	70-130			
Benzene	39.8	1.50	"	40.0		99.5	70-130			
2-Butanone	368	15.0	"	400		92.0	70-130			
Carbon disulfide	39.9	3.00	"	40.0		99.8	70-130			
Chlorobenzene	40.8	2.00	"	40.0		102	70-130			
1,1-Dichloroethane	43.5	2.00	"	40.0		109	70-130			
1,1-Dichloroethene	41.1	3.00	"	40.0		103	70-130			
cis-1,2-Dichloroethene	39.4	3.00	"	40.0		98.5	70-130			
Ethylbenzene	37.7	4.00	"	40.0		94.2	70-130			
Hexachlorobutadiene	37.2	5.00	"	40.0		93.0	70-130			

North Creek Analytical - Bothell

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**Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L29022: Prepared 12/29/05 Using EPA 5035

**LCS (5L29022-BS1)**

4-Methyl-2-pentanone	348	20.0	ug/kg	400		87.0	70-130			
Tetrachloroethene	39.0	2.00	"	40.0		97.5	70-130			
Toluene	38.5	1.50	"	40.0		96.2	70-130			
1,1,1-Trichloroethane	38.7	2.50	"	40.0		96.8	70-130			
Trichloroethene	37.8	2.50	"	40.0		94.5	70-130			
Surrogate: 1,2-DCA-d4	32.6		"	40.0		81.5	60-140			
Surrogate: Toluene-d8	33.2		"	40.0		83.0	60-140			
Surrogate: 4-BFB	36.0		"	40.0		90.0	60-140			

**LCS Dup (5L29022-BSD1)**

Acetone	454	30.0	ug/kg	400		114	70-130	2.91	30	
Benzene	40.3	1.50	"	40.0		101	70-130	1.25	30	
none	367	15.0	"	400		91.8	70-130	0.272	30	
n disulfide	40.7	3.00	"	40.0		102	70-130	1.99	30	
Chlorobenzene	40.4	2.00	"	40.0		101	70-130	0.985	30	
1,1-Dichloroethane	43.8	2.00	"	40.0		110	70-130	0.687	30	
1,1-Dichloroethene	42.4	3.00	"	40.0		106	70-130	3.11	30	
cis-1,2-Dichloroethene	39.5	3.00	"	40.0		98.8	70-130	0.253	30	
Ethylbenzene	37.3	4.00	"	40.0		93.2	70-130	1.07	30	
Hexachlorobutadiene	35.2	5.00	"	40.0		88.0	70-130	5.52	30	
4-Methyl-2-pentanone	351	20.0	"	400		87.8	70-130	0.858	30	
Tetrachloroethene	34.7	2.00	"	40.0		86.8	70-130	11.7	30	
Toluene	38.0	1.50	"	40.0		95.0	70-130	1.31	30	
1,1,1-Trichloroethane	37.6	2.50	"	40.0		94.0	70-130	2.88	30	
Trichloroethene	39.2	2.50	"	40.0		98.0	70-130	3.64	30	
Surrogate: 1,2-DCA-d4	33.1		"	40.0		82.8	60-140			
Surrogate: Toluene-d8	32.2		"	40.0		80.5	60-140			
Surrogate: 4-BFB	34.7		"	40.0		86.8	60-140			

North Creek Analytical - Bothell

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Volatile Organic Compounds (Special List) by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29018: Prepared 12/29/05 Using EPA 5030B**

**Blank (5L29018-BLK1)**

Acetone	ND	1.00	mg/kg							
Benzene	ND	0.100	"							
Bromobenzene	ND	0.100	"							
Bromochloromethane	ND	0.100	"							
Bromodichloromethane	ND	0.100	"							
Bromoform	ND	0.100	"							
Bromomethane	ND	0.100	"							
2-Butanone	ND	1.00	"							
n-Butylbenzene	ND	0.100	"							
sec-Butylbenzene	ND	0.100	"							
tert-Butylbenzene	ND	0.100	"							
Carbon disulfide	ND	0.100	"							
Carbon tetrachloride	ND	0.100	"							
Chlorobenzene	ND	0.100	"							
Chloroethane	ND	0.100	"							
Chloroform	ND	0.100	"							
Chloromethane	ND	0.500	"							
2-Chlorotoluene	ND	0.100	"							
4-Chlorotoluene	ND	0.100	"							
Dibromochloromethane	ND	0.100	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane (EDB)	ND	0.100	"							
Dibromomethane	ND	0.100	"							
1,2-Dichlorobenzene	ND	0.100	"							
1,3-Dichlorobenzene	ND	0.100	"							
1,4-Dichlorobenzene	ND	0.100	"							
Dichlorodifluoromethane	ND	0.100	"							
1,1-Dichloroethane	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
1,1-Dichloroethene	ND	0.100	"							
cis-1,2-Dichloroethene	ND	0.100	"							
trans-1,2-Dichloroethene	ND	0.100	"							
1,2-Dichloropropane	ND	0.100	"							
1,3-Dichloropropane	ND	0.100	"							
2,2-Dichloropropane	ND	0.100	"							

North Creek Analytical - Bothell

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 509.924.9200 fax 509.924.9290  
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Project: Precision Engineering  
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Reported:  
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**Volatile Organic Compounds (Special List) by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29018: Prepared 12/29/05 Using EPA 5030B**

**Blank (5L29018-BLK1)**

1,1-Dichloropropene	ND	0.100	mg/kg							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Hexachlorobutadiene	ND	0.100	"							
Methyl tert-butyl ether	ND	0.500	"							
2-Hexanone	ND	1.00	"							
Isopropylbenzene	ND	0.100	"							
p-Isopropyltoluene	ND	0.100	"							
4-Methyl-2-pentanone	ND	1.00	"							
Methylene chloride	ND	1.00	"							
halene	ND	0.100	"							
ylbenzene	ND	0.100	"							
Styrene	ND	0.100	"							
1,2,3-Trichlorobenzene	ND	0.100	"							
1,2,4-Trichlorobenzene	ND	0.100	"							
1,1,1,2-Tetrachloroethane	ND	0.100	"							
1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
Toluene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
Trichloroethene	ND	0.100	"							
Trichlorofluoromethane	ND	0.100	"							
1,2,3-Trichloropropane	ND	0.100	"							
1,2,4-Trimethylbenzene	ND	0.100	"							
1,3,5-Trimethylbenzene	ND	0.100	"							
Vinyl chloride	ND	0.100	"							
Total Xylenes	ND	0.300	"							
Surrogate: 1,2-DCA-d4	3.88		"	4.00		97.0	70-130			
Surrogate: Toluene-d8	4.22		"	4.00		106	70-130			
Surrogate: 4-BFB	4.39		"	4.00		110	70-130			

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 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

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**Volatile Organic Compounds (Special List) by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29018: Prepared 12/29/05 Using EPA 5030B**

**LCS (5L29018-BS1)**

Benzene	1.82	0.100	mg/kg	2.00		91.0	75-130			
Chlorobenzene	1.88	0.100	"	2.00		94.0	77-124			
1,1-Dichloroethene	1.70	0.100	"	2.00		85.0	74-133			
Trichloroethene	1.91	0.100	"	2.00		95.5	78-128			
Surrogate: 1,2-DCA-d4	1.91		"	2.00		95.5	70-130			
Surrogate: Toluene-d8	2.02		"	2.00		101	70-130			
Surrogate: 4-BFB	2.05		"	2.00		102	70-130			

**LCS Dup (5L29018-BSD1)**

Benzene	1.86	0.100	mg/kg	2.00		93.0	75-130	2.17	20	
Chlorobenzene	1.94	0.100	"	2.00		97.0	77-124	3.14	20	
1,1-Dichloroethene	1.76	0.100	"	2.00		88.0	74-133	3.47	20	
Trichloroethene	1.93	0.100	"	2.00		96.5	78-128	1.04	20	
Surrogate: 1,2-DCA-d4	1.93		"	2.00		96.5	70-130			
Surrogate: Toluene-d8	2.09		"	2.00		104	70-130			
Surrogate: 4-BFB	2.03		"	2.00		102	70-130			

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19061: Prepared 12/19/05 Using EPA 5030B**

**Blank (5L19061-BLK1)**

Acetone	ND	10.0	ug/l							
Benzene	ND	0.200	"							
Bromobenzene	ND	0.500	"							
Bromochloromethane	ND	0.200	"							
Bromodichloromethane	ND	0.200	"							
Bromoform	ND	0.200	"							
Bromoinethane	ND	2.00	"							
2-Butanone	ND	2.00	"							
n-Butylbenzene	ND	0.200	"							
sec-Butylbenzene	ND	0.200	"							
tert-Butylbenzene	ND	0.500	"							
disulfide	ND	0.500	"							
tetrachloride	ND	0.200	"							
Chlorobenzene	ND	0.200	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.200	"							
Chloromethane	ND	1.00	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane	ND	0.200	"							
Dibromomethane	ND	0.200	"							
1,2-Dichlorobenzene	ND	0.200	"							
1,3-Dichlorobenzene	ND	0.200	"							
1,4-Dichlorobenzene	ND	0.200	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
1,1-Dichloroethene	ND	0.200	"							
cis-1,2-Dichloroethene	ND	0.200	"							
trans-1,2-Dichloroethene	ND	0.200	"							
1,2-Dichloropropane	ND	0.200	"							
1,3-Dichloropropane	ND	0.200	"							
2,2-Dichloropropane	ND	0.500	"							

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19061: Prepared 12/19/05 Using EPA 5030B**

**Blank (5L19061-BLK1)**

1,1-Dichloropropene	ND	0.200	ug/l							
cis-1,3-Dichloropropene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
n-Hexane	ND	1.00	"							
2-Hexanone	ND	2.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.200	"							
4-Methyl-2-pentanone	ND	2.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	0.500	"							
n-Propylbenzene	ND	0.500	"							
Styrene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	0.200	"							
1,2,4-Trichlorobenzene	ND	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.200	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
1,1,1-Trichloroethane	ND	0.200	"							
1,1,2-Trichloroethane	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,3-Trichloropropane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	0.200	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
o-Xylene	ND	0.250	"							
m,p-Xylene	ND	0.500	"							
Surrogate: 1,2-DCA-d4	19.8		"	20.0		99.0	70-130			
Surrogate: Toluene-d8	19.6		"	20.0		98.0	70-130			
Surrogate: 4-BFB	20.5		"	20.0		102	70-130			

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 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19061: Prepared 12/19/05 Using EPA 5030B**

**LCS (5L19061-BS1)**

Benzene	36.5	0.200	ug/l	40.0		91.2	80-120			
Chlorobenzene	36.1	0.200	"	40.0		90.2	77-120			
1,1-Dichloroethene	38.4	0.200	"	40.0		96.0	80-120			
Methyl tert-butyl ether	38.4	1.00	"	40.0		96.0	80-120			
Toluene	37.6	0.200	"	40.0		94.0	80-120			
Trichloroethene	39.8	0.200	"	40.0		99.5	80-120			
Surrogate: 1,2-DCA-d4	19.1		"	20.0		95.5	70-130			
Surrogate: Toluene-d8	19.9		"	20.0		99.5	70-130			
Surrogate: 4-BFB	21.2		"	20.0		106	70-130			

**LCS Dup (5L19061-BS1)**

Benzene	36.1	0.200	ug/l	40.0		90.2	80-120	1.10	20	
Chlorobenzene	35.8	0.200	"	40.0		89.5	77-120	0.834	20	
1,1-Dichloroethene	38.4	0.200	"	40.0		96.0	80-120	0.00	20	
Methyl tert-butyl ether	38.8	1.00	"	40.0		97.0	80-120	1.04	20	
Toluene	37.0	0.200	"	40.0		92.5	80-120	1.61	20	
Trichloroethene	39.6	0.200	"	40.0		99.0	80-120	0.504	20	
Surrogate: 1,2-DCA-d4	18.8		"	20.0		94.0	70-130			
Surrogate: Toluene-d8	20.2		"	20.0		101	70-130			
Surrogate: 4-BFB	20.7		"	20.0		104	70-130			

**Matrix Spike (5L19061-MS1)**

Source: B5L0414-01

Benzene	40.2	0.200	ug/l	40.0	0.440	99.4	63-148			
Chlorobenzene	38.9	0.200	"	40.0	ND	97.2	80-128			
1,1-Dichloroethene	43.4	0.200	"	40.0	ND	108	59-158			
Methyl tert-butyl ether	40.2	1.00	"	40.0	ND	100	60-140			
Toluene	40.1	0.200	"	40.0	0.290	99.5	72-127			
Trichloroethene	42.2	0.200	"	40.0	ND	106	80-126			
Surrogate: 1,2-DCA-d4	19.7		"	20.0		98.5	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	20.3		"	20.0		102	70-130			

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L19061: Prepared 12/19/05 Using EPA 5030B**

Matrix Spike Dup (5L19061-MSD1)				Source: BSL0414-01						
Benzene	37.9	0.200	ug/l	40.0	0.440	93.6	63-148	5.89	20	
Chlorobenzene	37.0	0.200	"	40.0	ND	92.5	80-128	5.01	20	
1,1-Dichloroethene	39.8	0.200	"	40.0	ND	99.5	59-158	8.65	30	
Methyl tert-butyl ether	38.3	1.00	"	40.0	ND	95.8	60-140	4.84	30	
Toluene	37.9	0.200	"	40.0	0.290	94.0	72-127	5.64	20	
Trichloroethene	39.8	0.200	"	40.0	ND	99.5	80-126	5.85	20	
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	19.9		"	20.0		99.5	70-130			
Surrogate: 4-BFB	20.0		"	20.0		100	70-130			

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**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5L28062: Prepared 12/28/05 Using Special Procedure**

**Blank (5L28062-BLK1)**

Hexavalent Chromium ND 1.0 mg/kg

**LCS (5L28062-BS1)**

Hexavalent Chromium 25 1.0 mg/kg 25.0 100 80-120

**LCS Dup (5L28062-BSD1)**

Hexavalent Chromium 24 1.0 mg/kg 25.0 96.0 80-120 4.08 25

**Matrix Spike (5L28062-MS1)**

Source: B5L0418-13

Hexavalent Chromium 0.4 1.1 mg/kg dry 27.9 0.2 0.717 75-125 Q-02

**Matrix Spike Dup (5L28062-MSD1)**

Source: B5L0418-13

Hexavalent Chromium 0.6 1.1 mg/kg dry 27.9 0.2 1.43 75-125 40.0 30 Q-02

**Batch 6A03022: Prepared 01/03/06 Using Special Procedure**

**Blank (6A03022-BLK1)**

Hexavalent Chromium ND 2.0 mg/kg

**LCS (6A03022-BS1)**

Hexavalent Chromium 49 1.9 mg/kg 48.1 102 80-120

**LCS Dup (6A03022-BSD1)**

Hexavalent Chromium 51 2.0 mg/kg 50.0 102 80-120 4.00 25

**Matrix Spike (6A03022-MS1)**

Source: B5L0418-14

Hexavalent Chromium 26 2.2 mg/kg dry 54.7 0.9 45.9 75-125 Q-02

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
Environmental Laboratory Network



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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 01/12/06 15:12
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	------------------------------------

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 6A03022: Prepared 01/03/06 Using Special Procedure**

**Matrix Spike Dup (6A03022-MSD1)**

**Source: BSL0418-14**

Hexavalent Chromium	32	2.3	mg/kg dry	57.9	0.9	53.7	75-125	20.7	30	Q-02
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North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
Environmental Laboratory Network



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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/12/06 15:12

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5L21051: Prepared 12/21/05 Using Dry Weight**

**Blank (5L21051-BLK1)**

Dry Weight	100	1.00	%							
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**Batch 5L28040: Prepared 12/28/05 Using Dry Weight**

**Blank (5L28040-BLK1)**

Dry Weight	100	1.00	%							
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Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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North Creek Analytical, Inc.  
 Environmental Laboratory Network





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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/12/06 15:12
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Notes and Definitions**

- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- Q-13 Multiple analyses indicate the percent recovery is outside the control limits due to a matrix effect.
- Q-41 This analyte had a high bias in the associated calibration verification standard.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 906-9210  
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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0418**

NCA CLIENT:			INVOICE TO:							<b>TURNAROUND REQUEST</b> In Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 OTHER _____ Specify: _____ <small>* Turnaround Request may vary based on your test charges</small>							
REPORT TO: <b>Mani Foster &amp; Alangi</b> ADDRESS: <b>7223 NE Hazel Dell Ave. Suite B</b> <b>Vancouver, WA</b> PHONE: <b>(971) 544-7139 FAX:</b>			P.O. NUMBER:														
PROJECT NAME: <b>Precision Engineering</b> PROJECT NUMBER: <b>0008.04.04</b> SAMPLED BY: <b>Mani Gibson</b>			PRESERVATIVE														
			REQUESTED ANALYSES														
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		Cr&Gr	VOCs (limited)	NUMPH-DX	PP Metals	VOCs	NUMPH-C					MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 GP13-S-1.0		12/14/05 8:15		X	X		X							S	5		01
2 GP13-S-6.0		12/14/05 9:30		X	X	X								S	5		02
3 GP21-S-1.0		12/14/05 8:50		X	X	X								S	5		03
4 GP21-S-6.5		12/14/05 8:57		X	X	X								S	5		04
5 GP20-S-1.0		12/14/05 9:15		X	X	X	X							S	5		05
6 GP20-S-6.0		12/14/05 9:30		X	X	X								S	5		06
7 GP15-W-8.0		12/14/05 10:45			X									W	3		07
8 GP32-S-1.0		12/14/05 11:13		X	X	X								S	5		08
9 GP23-S-1.0		12/14/05 12:00												S	5		09
10 GP23-S-7.0		12/14/05 12:15		X	X	X								S	5		10
RELEASED BY: <b>Mani Gibson</b>			DATE: <b>12/16/05</b>			RECEIVED BY: <b>Tom Blanks</b>			DATE: <b>12/16/05</b>								
PRINT NAME: <b>Mani Gibson</b> FIRM: <b>MFA</b>			TIME: <b>12:25</b>			PRINT NAME: <b>Blankskip</b> FIRM: <b>NCA</b>			TIME: <b>12:25</b>								
RELEASED BY: <b>Tom Blanks</b>			DATE: <b>12/16/05</b>			RECEIVED BY: <b>Prany Tanti</b>			DATE: <b>12/16/05</b>								
PRINT NAME: _____ FIRM: _____			TIME: <b>16:45</b>			PRINT NAME: <b>PRANY TANTI</b> FIRM: <b>NCA</b>			TIME: <b>16:45</b>								
ADDITIONAL REMARKS:													TEMP: <b>3.4</b>		PAGE <b>1</b> OF <b>3</b>		
COC REV 09/04																	



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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

**CHAIN OF CUSTODY REPORT**

Work Order #: **B5L0418**

NCA CLIENT:				INVOICE TO:				TURNAROUND REQUEST			
REPORT TO: <b>Mani Foster &amp; Alangy</b>								In Business Days *			
ADDRESS: <b>7223 NE Hazel Dell Ave.</b>								Organic & Inorganic Analyses			
PHONE: <b>(971) 544-2134 FAX:</b>				P.O. NUMBER:				<input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses			
PROJECT NAME: <b>Precision Engineering</b>				PRESERVATIVE				<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify:			
PROJECT NUMBER: <b>8006.08.04</b>				REQUESTED ANALYSES				<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>* Turnaround Request may fluctuate on busy peak periods.</small>			
SAMPLED BY: <b>Meri Gibson/Russ Adams</b>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cr 406	VOCs (limited)	SWATH-DX	PP Metals	VOCs	SWATH-GX	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 GP23-S-10.5	12/14/05 12:40	X	X					S	5		11
2 GP24-S-3.0	12/14/05 13:30	X	X	X	X			S	5		12
3 GPDUP-S-3.0	12/14/05 13:30	X	X		X			S	5		13
4 GP24-S-6.5	12/14/05 13:45	X	X					S	5		14
5 GP24-S-9.0	12/14/05 14:00							S	5		15
6 GP13-W-8.0	12/14/05 14:45		X					W	3		16
7 HA1-0.5	12/15/05 11:15	X		X	X	X	X				17
8 HA1-1.5	12/15/05 11:45	X		X	X	X	X				18
9 HA2-0.5	12/15/05 12:45	X		X	X	X	X				19
10 HA2-1.5	12/15/05 13:00	X		X	X	X	X				20
RELEASED BY: <b>Meri Gibson</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>Tom Jantoy</b>			
PRINT NAME: <b>Meri Gibson</b> FIRM: <b>MFA</b>				TIME: <b>12:25</b>				PRINT NAME: <b>Tom Jantoy</b> FIRM: <b>MFA</b>			
RELEASED BY: <b>Tom Jantoy</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>Pranay Tomy</b>			
PRINT NAME: <b>Tom Jantoy</b> FIRM: <b>MFA</b>				TIME: <b>1:45</b>				PRINT NAME: <b>Pranay Tomy</b> FIRM: <b>NCA</b>			
ADDITIONAL REMARKS: <b>VOCs (limited): Reporting only; cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride</b>											
COC REV 09/04 Archive extra soil for possible followup analysis.										PAGE 23	



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### CHAIN OF CUSTODY REPORT

Work Order #: **B560418**

NCA CLIENT:				INVOICE TO:				TURNAROUND REQUEST																																							
REPORT TO: MFA				P.O. NUMBER:				in Business Days *																																							
ADDRESS: 7223 NE Hazel Dell Suite B Vancouver, WA								<input checked="" type="checkbox"/> Organic & Inorganic Analyses <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10																																							
PHONE: (971) 544-2139 FAX:				PRESERVATIVE				<input type="checkbox"/> Petroleum Hydrocarbon Analyses <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10																																							
PROJECT NAME: Precision Engineering				REQUESTED ANALYSES				OFFER Specify:																																							
PROJECT NUMBER: 8006.00.04				<table border="1"> <tr> <th>Cr &amp; Pb</th> <th>VOCs (limited)</th> <th>NWTAH-DY</th> <th>PP Metals</th> <th>VOCs</th> <th>NWTAH-G</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </table>				Cr & Pb	VOCs (limited)	NWTAH-DY	PP Metals	VOCs	NWTAH-G									<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																									
Cr & Pb	VOCs (limited)	NWTAH-DY	PP Metals	VOCs	NWTAH-G																																										
SAMPLED BY: Men Gibson								<table border="1"> <thead> <tr> <th>MATRIX (W, S, O)</th> <th># OF CONT.</th> <th>LOCATION / COMMENTS</th> <th>NCA WO ID</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>5</td> <td></td> <td>21</td> </tr> <tr> <td>S</td> <td>5</td> <td></td> <td>22</td> </tr> <tr> <td>S</td> <td>5</td> <td></td> <td>23</td> </tr> <tr> <td>S</td> <td>5</td> <td></td> <td>24</td> </tr> <tr> <td>S</td> <td>5</td> <td></td> <td>25</td> </tr> <tr> <td>S</td> <td>5</td> <td></td> <td>26</td> </tr> <tr> <td>S</td> <td>5</td> <td></td> <td>27</td> </tr> <tr> <td>W</td> <td></td> <td></td> <td>28</td> </tr> </tbody> </table>				MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID	S	5		21	S	5		22	S	5		23	S	5		24	S	5		25	S	5		26	S	5		27	W			28
MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID																																												
S	5		21																																												
S	5		22																																												
S	5		23																																												
S	5		24																																												
S	5		25																																												
S	5		26																																												
S	5		27																																												
W			28																																												
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME																																														
1 HA3-0.5	12/15/05 13:45	X	X	X	X	X																																									
2 HA3-1.5	12/15/05 14:00	X	X	X	X	X																																									
3 HA4-0.5	12/15/05 14:20	X	X	X	X	X																																									
4 HA4-1.5	12/15/05 14:30	X	X	X	X	X																																									
5 HAS-0.5	12/15/05 14:55	X	X	X	X	X																																									
6 HAS-1.5	12/15/05 15:10	X	X	X	X	X																																									
7 HA-Dup	12/15/05 12:00	X	X	X	X	X																																									
8 Trip Blank	12/16/05		X																																												
9																																															
10																																															
RELEASED BY: <i>Men Gibson</i>				DATE: 12/16/05				RECEIVED BY: <i>Tom Blantz</i>				DATE: 12/16/05																																			
PRINT NAME: Men Gibson				FIRM: MFA				TIME: 12:25				FIRM: MFA				TIME: 12:25																															
RELEASED BY: <i>Tom Blantz</i>				DATE: 12/16/05				RECEIVED BY: <i>Pranay Taneja</i>				DATE: 12/16/05																																			
PRINT NAME: Tom Blantz				FIRM: MFA				TIME: 16:45				FIRM: NCA				TIME: 16:45																															
ADDITIONAL REMARKS:												TEMP:																																			
COC REV 09/04												PAGE 3 OF 3																																			



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210

**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

27 January 2006

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665  
RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/16/05 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes  
Project Manager



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210

**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290

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Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/27/06 14:12

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP21-S-6.5	B5L0418-04	Soil	12/14/05 08:57	12/16/05 16:45
GP20-S-1.0	B5L0418-05	Soil	12/14/05 09:15	12/16/05 16:45
GP20-S-6.0	B5L0418-06	Soil	12/14/05 09:30	12/16/05 16:45
HA1-0.5	B5L0418-17	Soil	12/15/05 11:15	12/16/05 16:45
HA1-1.5	B5L0418-18	Soil	12/15/05 11:45	12/16/05 16:45
HA2-0.5	B5L0418-19	Soil	12/15/05 12:45	12/16/05 16:45
HA2-1.5	B5L0418-20	Soil	12/15/05 13:00	12/16/05 16:45
HA3-0.5	B5L0418-21	Soil	12/15/05 13:45	12/16/05 16:45
HA3-1.5	B5L0418-22	Soil	12/15/05 14:00	12/16/05 16:45
HA4-0.5	B5L0418-23	Soil	12/15/05 14:20	12/16/05 16:45
HA4-1.5	B5L0418-24	Soil	12/15/05 14:30	12/16/05 16:45
HA5-0.5	B5L0418-25	Soil	12/15/05 14:55	12/16/05 16:45
HA5-1.5	B5L0418-26	Soil	12/15/05 15:10	12/16/05 16:45
HA-DUP	B5L0418-27	Soil	12/15/05 12:00	12/16/05 16:45

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Extractable Petroleum Hydrocarbons by WDOE TPH Policy Method**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

GP21-S-6.5 (B5L0418-04RE1) Soil Sampled: 12/14/05 08:57 Received: 12/16/05 16:45

<b>Extractable Petroleum Hydrocarbons</b>	<b>7550</b>	<b>1360</b>		<b>mg/kg dry</b>	<b>40</b>	<b>[CALC]</b>	<b>01/18/06</b>	<b>01/23/06</b>	<b>WA MTCA-EPH</b>	
C8-C10 Aliphatics	ND	260	"	"	"	6A18024	"	"	"	Q-29
C10-C12 Aliphatics	ND	260	"	"	"	"	"	"	"	Q-29
C12-C16 Aliphatics	ND	260	"	"	"	"	"	"	"	Q-29
C16-C21 Aliphatics	411	260	"	"	"	"	"	"	"	Q-29
C21-C34 Aliphatics	6460	260	"	"	"	"	"	"	"	Q-29
C8-C10 Aromatics	ND	13.0	"	"	2	"	"	01/22/06	"	Q-29
C10-C12 Aromatics	ND	13.0	"	"	"	"	"	"	"	Q-29
C12-C16 Aromatics	ND	13.0	"	"	"	"	"	"	"	Q-29
C16-C21 Aromatics	102	13.0	"	"	"	"	"	"	"	Q-29
C21-C34 Aromatics	576	13.0	"	"	"	"	"	"	"	Q-29
Surrogate: <i>o</i> -Terphenyl	99.5 %	60-140					"	"	"	
Surrogate: 1-Chlorooctadecane	83.9 %	60-140					"	01/23/06	"	

GP21-S-19.5 (B5L0418-19RE1) Soil Sampled: 12/15/05 12:45 Received: 12/16/05 16:45

<b>Extractable Petroleum Hydrocarbons</b>	<b>ND</b>	<b>89.0</b>		<b>mg/kg dry</b>	<b>1</b>	<b>[CALC]</b>	<b>01/18/06</b>	<b>01/24/06</b>	<b>WA MTCA-EPH</b>	
C8-C10 Aliphatics	ND	8.90	"	"	"	6A18024	"	"	"	Q-29
C10-C12 Aliphatics	ND	8.90	"	"	"	"	"	"	"	Q-29
C12-C16 Aliphatics	ND	8.90	"	"	"	"	"	"	"	Q-29
C16-C21 Aliphatics	ND	8.90	"	"	"	"	"	"	"	Q-29
C21-C34 Aliphatics	ND	8.90	"	"	"	"	"	"	"	Q-29
C8-C10 Aromatics	ND	8.90	"	"	"	"	"	01/22/06	"	Q-29
C10-C12 Aromatics	ND	8.90	"	"	"	"	"	"	"	Q-29
C12-C16 Aromatics	ND	8.90	"	"	"	"	"	"	"	Q-29
C16-C21 Aromatics	ND	8.90	"	"	"	"	"	"	"	Q-29
C21-C34 Aromatics	ND	8.90	"	"	"	"	"	"	"	Q-29
Surrogate: <i>o</i> -Terphenyl	88.6 %	60-140					"	"	"	
Surrogate: 1-Chlorooctadecane	96.6 %	60-140					"	01/24/06	"	

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Extractable Petroleum Hydrocarbons by WDOE TPH Policy Method**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**HA3-0.5 (B5L0418-21RE1) Soil** Sampled: 12/15/05 13:45 Received: 12/16/05 16:45

<b>Extractable Petroleum Hydrocarbons</b>	<b>304</b>	<b>65.4</b>	<b>mg/kg dry</b>	<b>1</b>	<b>[CALC]</b>	<b>01/18/06</b>	<b>01/22/06</b>	<b>WA MTCA-EPH</b>	
C8-C10 Aliphatics	ND	6.54	"	"	6A18024	"	"	"	Q-29
C10-C12 Aliphatics	ND	6.54	"	"	"	"	"	"	Q-29
C12-C16 Aliphatics	ND	6.54	"	"	"	"	"	"	Q-29
C16-C21 Aliphatics	8.86	6.54	"	"	"	"	"	"	Q-29
C21-C34 Aliphatics	246	6.54	"	"	"	"	"	"	Q-29
C8-C10 Aromatics	ND	6.54	"	"	"	"	"	"	Q-29
C10-C12 Aromatics	ND	6.54	"	"	"	"	"	"	Q-29
C12-C16 Aromatics	ND	6.54	"	"	"	"	"	"	Q-29
C16-C21 Aromatics	ND	6.54	"	"	"	"	"	"	Q-29
C21-C34 Aromatics	48.9	6.54	"	"	"	"	"	"	Q-29
Surrogate: <i>o</i> -Terphenyl	90.8 %	60-140			"	"	"	"	
Surrogate: 1-Chlorooctadecane	110 %	60-140			"	"	"	"	

**HA4-0.5 (B5L0418-23RE1) Soil** Sampled: 12/15/05 14:20 Received: 12/16/05 16:45

<b>Extractable Petroleum Hydrocarbons</b>	<b>3900</b>	<b>346</b>	<b>mg/kg dry</b>	<b>2</b>	<b>[CALC]</b>	<b>01/18/06</b>	<b>01/22/06</b>	<b>WA MTCA-EPH</b>	
C8-C10 Aliphatics	ND	34.6	"	"	6A18024	"	"	"	Q-29
C10-C12 Aliphatics	ND	34.6	"	"	"	"	"	"	Q-29
C12-C16 Aliphatics	87.0	34.6	"	"	"	"	"	"	Q-29
C16-C21 Aliphatics	311	34.6	"	"	"	"	"	"	Q-29
C21-C34 Aliphatics	3060	34.6	"	"	"	"	"	"	Q-29
C8-C10 Aromatics	ND	34.6	"	"	"	"	"	"	Q-29
C10-C12 Aromatics	ND	34.6	"	"	"	"	"	"	Q-29
C12-C16 Aromatics	ND	34.6	"	"	"	"	"	"	Q-29
C16-C21 Aromatics	69.5	34.6	"	"	"	"	"	"	Q-29
C21-C34 Aromatics	374	34.6	"	"	"	"	"	"	Q-29
Surrogate: <i>o</i> -Terphenyl	86.8 %	60-140			"	"	"	"	
Surrogate: 1-Chlorooctadecane	89.4 %	60-140			"	"	"	"	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Emprle Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi Project: Precision Engineering  
 7223 NE Hazel Dell Ave., Suite B Project Number: 8006.08.04 Reported:  
 Vancouver, WA/USA 98665 Project Manager: Alan Hughes 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP21-S-6.5 (BSL0418-04) Soil Sampled: 12/14/05 08:57 Received: 12/16/05 16:45 Q-29

Acenaphthene	ND	0.0129	mg/kg dry	1	6A10031	01/10/06	01/16/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0129	"	"	"	"	"	"	
Anthracene	ND	0.0129	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0129	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0129	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0129	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0129	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0129	"	"	"	"	"	"	
Chrysene	ND	0.0129	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0129	"	"	"	"	"	"	
Fluoranthene	ND	0.0129	"	"	"	"	"	"	
Fluorene	ND	0.0129	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0129	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0129	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0129	"	"	"	"	"	"	
Naphthalene	ND	0.0129	"	"	"	"	"	"	
Phenanthrene	ND	0.0129	"	"	"	"	"	"	
Pyrene	ND	0.0129	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	75.2 %	50-147			"	"	"	"	

GP20-S-1.0 (BSL0418-05) Soil Sampled: 12/14/05 09:15 Received: 12/16/05 16:45 Q-29

Acenaphthene	ND	0.0120	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0120	"	"	"	"	"	"	
Anthracene	ND	0.0120	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0120	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0120	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0120	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0120	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0120	"	"	"	"	"	"	
Chrysene	ND	0.0120	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0120	"	"	"	"	"	"	
Fluoranthene	ND	0.0120	"	"	"	"	"	"	
Fluorene	ND	0.0120	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0120	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0120	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0120	"	"	"	"	"	"	
Naphthalene	ND	0.0120	"	"	"	"	"	"	
Phenanthrene	ND	0.0120	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP20-S-1.0 (BSL0418-05) Soil Sampled: 12/14/05 09:15 Received: 12/16/05 16:45 Q-29</b>									
Pyrene	ND	0.0120	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Surrogate: p-Terphenyl-d14	71.3 %	50-147			"	"	"	"	
<b>GP20-S-6.0 (BSL0418-06) Soil Sampled: 12/14/05 09:30 Received: 12/16/05 16:45 Q-29</b>									
Acenaphthene	ND	0.0139	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0139	"	"	"	"	"	"	
Anthracene	ND	0.0139	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0139	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0139	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0139	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0139	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0139	"	"	"	"	"	"	
Chrysene	ND	0.0139	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0139	"	"	"	"	"	"	
Fluoranthene	ND	0.0139	"	"	"	"	"	"	
Fluorene	ND	0.0139	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0139	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0139	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0139	"	"	"	"	"	"	
Naphthalene	ND	0.0139	"	"	"	"	"	"	
Phenanthrene	ND	0.0139	"	"	"	"	"	"	
Pyrene	ND	0.0139	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	66.8 %	50-147			"	"	"	"	
<b>HA1-0.5 (BSL0418-17) Soil Sampled: 12/15/05 11:15 Received: 12/16/05 16:45 Q-29</b>									
Acenaphthene	ND	0.0151	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0151	"	"	"	"	"	"	
Anthracene	ND	0.0151	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0151	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0151	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0151	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0151	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0151	"	"	"	"	"	"	
Chrysene	ND	0.0151	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0151	"	"	"	"	"	"	
Fluoranthene	0.0196	0.0151	"	"	"	"	"	"	
Fluorene	ND	0.0151	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0151	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 7223 NE Hazel Dell Ave., Suite B Project Number: 8006.08.04  
 Vancouver, WA/USA 98665 Project Manager: Alan Hughes Reported: 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA1-0.5 (B5L0418-17) Soil</b> Sampled: 12/15/05 11:15 Received: 12/16/05 16:45 <span style="float:right">Q-29</span>									
1-Methylnaphthalene	ND	0.0151	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
2-Methylnaphthalene	ND	0.0151	"	"	"	"	"	"	
Naphthalene	ND	0.0151	"	"	"	"	"	"	
Phenanthrene	ND	0.0151	"	"	"	"	"	"	
Pyrene	ND	0.0151	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	66.1 %	50-147			"	"	"	"	
<b>HA1-1.5 (B5L0418-18) Soil</b> Sampled: 12/15/05 11:45 Received: 12/16/05 16:45 <span style="float:right">Q-29</span>									
Acenaphthene	ND	0.0129	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0129	"	"	"	"	"	"	
Anthracene	ND	0.0129	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0129	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0129	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0129	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0129	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0129	"	"	"	"	"	"	
Chrysene	ND	0.0129	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0129	"	"	"	"	"	"	
Fluoranthene	ND	0.0129	"	"	"	"	"	"	
Fluorene	ND	0.0129	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0129	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0129	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0129	"	"	"	"	"	"	
Naphthalene	ND	0.0129	"	"	"	"	"	"	
Phenanthrene	ND	0.0129	"	"	"	"	"	"	
Pyrene	ND	0.0129	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	61.5 %	50-147			"	"	"	"	

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 425.420.9200 fax 425.420.9210  
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Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HA2-0.5 (B5L0418-19) Soil</b> Sampled: 12/15/05 12:45 Received: 12/16/05 16:45 <span style="float:right">Q-29</span>									
Acenaphthene	ND	0.0176	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0176	"	"	"	"	"	"	
Anthracene	ND	0.0176	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0176	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0176	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0222</b>	0.0176	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0205</b>	0.0176	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0176	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0276</b>	0.0176	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0176	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0455</b>	0.0176	"	"	"	"	"	"	
Fluorene	ND	0.0176	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0176	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0176	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0176	"	"	"	"	"	"	
Naphthalene	ND	0.0176	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>0.0180</b>	0.0176	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0334</b>	0.0176	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl-d14	72.0 %	50-147							

<b>HA2-1.5 (B5L0418-20) Soil</b> Sampled: 12/15/05 13:00 Received: 12/16/05 16:45 <span style="float:right">Q-29</span>									
Acenaphthene	ND	0.0125	mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0125	"	"	"	"	"	"	
Anthracene	ND	0.0125	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0125	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0125	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0204</b>	0.0125	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0151</b>	0.0125	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0125	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0179</b>	0.0125	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0125	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0329</b>	0.0125	"	"	"	"	"	"	
Fluorene	ND	0.0125	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0125	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0125	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0125	"	"	"	"	"	"	
Naphthalene	ND	0.0125	"	"	"	"	"	"	
Phenanthrene	ND	0.0125	"	"	"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>HA2-1.5 (B5L0418-20) Soil Sampled: 12/15/05 13:00 Received: 12/16/05 16:45</b> <span style="float:right">Q-29</span>										
Pyrene	0.0240	0.0125		mg/kg dry	1	6A10031	01/10/06	01/17/06	EPA 8270-SIM	
Surrogate: p-Terphenyl-d14	68.0%	50-147				"	"	"	"	
<b>HA3-0.5 (B5L0418-21) Soil Sampled: 12/15/05 13:45 Received: 12/16/05 16:45</b> <span style="float:right">Q-29</span>										
Acenaphthene	ND	0.0133		mg/kg dry	1	6A10031	01/10/06	01/18/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0133		"	"	"	"	"	"	
Anthracene	ND	0.0133		"	"	"	"	"	"	
Benzo (a) anthracene	0.0340	0.0133		"	"	"	"	"	"	
Benzo (a) pyrene	0.0525	0.0133		"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0982	0.0133		"	"	"	"	"	"	Q-39
Benzo (k) fluoranthene	0.0706	0.0133		"	"	"	"	"	"	Q-39
Benzo (ghi) perylene	0.0532	0.0133		"	"	"	"	"	"	Q-39
Chrysene	0.0804	0.0133		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0133		"	"	"	"	"	"	Q-39
Fluorene	0.120	0.0133		"	"	"	"	"	"	
Fluorene	ND	0.0133		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0385	0.0133		"	"	"	"	"	"	Q-39
1-Methylnaphthalene	ND	0.0133		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0133		"	"	"	"	"	"	
Naphthalene	ND	0.0133		"	"	"	"	"	"	
Phenanthrene	0.0826	0.0133		"	"	"	"	"	"	
Pyrene	0.134	0.0133		"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	84.8%	50-147				"	"	"	"	
<b>HA3-1.5 (B5L0418-22) Soil Sampled: 12/15/05 14:00 Received: 12/16/05 16:45</b> <span style="float:right">Q-29</span>										
Acenaphthene	ND	0.0118		mg/kg dry	1	6A10031	01/10/06	01/18/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0118		"	"	"	"	"	"	
Anthracene	ND	0.0118		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0118		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0118		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0118		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0118		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0118		"	"	"	"	"	"	
Chrysene	ND	0.0118		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0118		"	"	"	"	"	"	
Fluoranthene	ND	0.0118		"	"	"	"	"	"	
Fluorene	ND	0.0118		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0118		"	"	"	"	"	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi Project: Precision Engineering  
 7223 NE Hazel Dell Ave., Suite B Project Number: 8006.08.04  
 Vancouver, WA/USA 98665 Project Manager: Alan Hughes Reported: 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**HA3-1.5 (BSL0418-22) Soil** Sampled: 12/15/05 14:00 Received: 12/16/05 16:45 Q-29

1-Methylnaphthalene	ND	0.0118	mg/kg dry	1	6A10031	01/10/06	01/18/06	EPA 8270-SIM	
2-Methylnaphthalene	ND	0.0118	"	"	"	"	"	"	
Naphthalene	ND	0.0118	"	"	"	"	"	"	
Phenanthrene	ND	0.0118	"	"	"	"	"	"	
Pyrene	ND	0.0118	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	74.5 %	50-147			"	"	"	"	

**HA4-0.5 (BSL0418-23RE1) Soil** Sampled: 12/15/05 14:20 Received: 12/16/05 16:45 D-14, Q-29

Acenaphthene	ND	0.340	mg/kg dry	10	6A24034	01/24/06	01/25/06	EPA 8270-SIM	
Acenaphthylene	ND	0.340	"	"	"	"	"	"	
Anthracene	ND	0.340	"	"	"	"	"	"	
Benzo (a) anthracene	0.554	0.340	"	"	"	"	"	"	Q-38
Benzo (a) pyrene	0.694	0.340	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.771	0.340	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.749	0.340	"	"	"	"	"	"	
Benzo (ghi) perylene	0.352	0.340	"	"	"	"	"	"	
Chrysene	0.899	0.340	"	"	"	"	"	"	Q-38
Dibenz (a,h) anthracene	ND	0.340	"	"	"	"	"	"	
Fluoranthene	1.30	0.340	"	"	"	"	"	"	
Fluorene	ND	0.340	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.340	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.340	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.340	"	"	"	"	"	"	
Naphthalene	ND	0.340	"	"	"	"	"	"	
Phenanthrene	ND	0.340	"	"	"	"	"	"	
Pyrene	1.52	0.340	"	"	"	"	"	"	Q-38
Surrogate: p-Terphenyl-d14	45.1 %	50-147			"	"	"	"	Q-38, S-04

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Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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HA4-1.5 (BSL0418-24RE1) Soil Sampled: 12/15/05 14:30 Received: 12/16/05 16:45 Q-29

Acenaphthene	ND	0.0159	mg/kg dry	1	6A24034	01/24/06	01/25/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0159	"	"	"	"	"	"	
Anthracene	ND	0.0159	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0159	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0159	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0159	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0159	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0159	"	"	"	"	"	"	
Chrysene	0.0159	0.0159	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0159	"	"	"	"	"	"	
Fluoranthene	0.0191	0.0159	"	"	"	"	"	"	
Fluorene	ND	0.0159	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0159	"	"	"	"	"	"	
1-methylnaphthalene	ND	0.0159	"	"	"	"	"	"	
2-methylnaphthalene	ND	0.0159	"	"	"	"	"	"	
Naphthalene	ND	0.0159	"	"	"	"	"	"	
Phenanthrene	ND	0.0159	"	"	"	"	"	"	
Pyrene	0.0218	0.0159	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	76.2 %	50-147			"	"	"	"	

HA5-0.5 (BSL0418-25RE1) Soil Sampled: 12/15/05 14:55 Received: 12/16/05 16:45 D-14, Q-29

Acenaphthene	ND	0.267	mg/kg dry	10	6A24034	01/24/06	01/25/06	EPA 8270-SIM	
Acenaphthylene	ND	0.267	"	"	"	"	"	"	
Anthracene	ND	0.267	"	"	"	"	"	"	
Benzo (a) anthracene	0.862	0.267	"	"	"	"	"	"	
Benzo (a) pyrene	1.45	0.267	"	"	"	"	"	"	
Benzo (b) fluoranthene	1.62	0.267	"	"	"	"	"	"	
Benzo (k) fluoranthene	1.82	0.267	"	"	"	"	"	"	
Benzo (ghi) perylene	1.19	0.267	"	"	"	"	"	"	
Chrysene	1.54	0.267	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.435	0.267	"	"	"	"	"	"	
Fluoranthene	2.38	0.267	"	"	"	"	"	"	
Fluorene	ND	0.267	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1.02	0.267	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.267	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.267	"	"	"	"	"	"	
Naphthalene	ND	0.267	"	"	"	"	"	"	
Phenanthrene	0.930	0.267	"	"	"	"	"	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**HA5-0.5 (B5L0418-25RE1) Soil** Sampled: 12/15/05 14:55 Received: 12/16/05 16:45 D-14, Q-29

Pyrene	2.15	0.267	mg/kg dry	10	6A24034	01/24/06	01/25/06	EPA 8270-SIM	
Surrogate: p-Terphenyl-d14	58.9 %	50-147			"	"	"	"	

**HA5-1.5 (B5L0418-26RE1) Soil** Sampled: 12/15/05 15:10 Received: 12/16/05 16:45 Q-29

Acenaphthene	ND	0.0153	mg/kg dry	1	6A24034	01/24/06	01/25/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0153	"	"	"	"	"	"	
Anthracene	ND	0.0153	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0153	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0153	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0153	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0153	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0153	"	"	"	"	"	"	
Chrysene	ND	0.0153	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0153	"	"	"	"	"	"	
Fluoranthene	ND	0.0153	"	"	"	"	"	"	
Fluorene	ND	0.0153	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0153	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0153	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0153	"	"	"	"	"	"	
Naphthalene	ND	0.0153	"	"	"	"	"	"	
Phenanthrene	ND	0.0153	"	"	"	"	"	"	
Pyrene	ND	0.0153	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	89.8 %	50-147			"	"	"	"	

**HA-DUP (B5L0418-27RE1) Soil** Sampled: 12/15/05 12:00 Received: 12/16/05 16:45 Q-29

Acenaphthene	ND	0.0152	mg/kg dry	1	6A24034	01/24/06	01/25/06	EPA 8270-SIM	
Acenaphthylene	ND	0.0152	"	"	"	"	"	"	
Anthracene	ND	0.0152	"	"	"	"	"	"	
Benzo (a) anthracene	0.0288	0.0152	"	"	"	"	"	"	
Benzo (a) pyrene	0.0500	0.0152	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0769	0.0152	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0581	0.0152	"	"	"	"	"	"	
Benzo (ghi) perylene	0.0243	0.0152	"	"	"	"	"	"	
Chrysene	0.0612	0.0152	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0152	"	"	"	"	"	"	
Fluoranthene	0.0951	0.0152	"	"	"	"	"	"	
Fluorene	ND	0.0152	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0201	0.0152	"	"	"	"	"	"	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 14:12
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**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-DUP (B5L0418-27RE1) Soil    Sampled: 12/15/05 12:00    Received: 12/16/05 16:45 <span style="float:right">Q-29</span>									
1-Methylnaphthalene	ND	0.0152	mg/kg dry	1	6A24034	01/24/06	01/25/06	EPA 8270-SIM	
2-Methylnaphthalene	ND	0.0152	"	"	"	"	"	"	
Naphthalene	ND	0.0152	"	"	"	"	"	"	
Phenanthrene	0.0382	0.0152	"	"	"	"	"	"	
Pyrene	0.0657	0.0152	"	"	"	"	"	"	
Surrogate: p-Terphenyl-d14	81.4 %	50-147							

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Extractable Petroleum Hydrocarbons by WDOE TPH Policy Method - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A18024: Prepared 01/18/06 Using EPA 3545**

**Blank (6A18024-BLK1)**

C8-C10 Aliphatics	ND	5.00	mg/kg wet							
C10-C12 Aliphatics	ND	5.00	"							
C12-C16 Aliphatics	ND	5.00	"							
C16-C21 Aliphatics	ND	5.00	"							
C21-C34 Aliphatics	ND	5.00	"							
C8-C10 Aromatics	ND	5.00	"							
C10-C12 Aromatics	ND	5.00	"							
C12-C16 Aromatics	ND	5.00	"							
C16-C21 Aromatics	ND	5.00	"							
C21-C34 Aromatics	ND	5.00	"							
Surrogate: o-Terphenyl	14.8		"	16.7		88.6	60-140			
Surrogate: 1-Chlorooctadecane	15.5		"	16.7		92.8	60-140			

**LCS (6A18024-BS1)**

C8-C10 Aliphatics	7.94	5.00	mg/kg wet	10.0		79.4	70-130			
C10-C12 Aliphatics	3.02	5.00	"	3.33		90.7	70-130			
C12-C16 Aliphatics	6.33	5.00	"	6.67		94.9	70-130			
C16-C21 Aliphatics	7.18	5.00	"	10.0		71.8	70-130			
C21-C34 Aliphatics	19.2	5.00	"	20.0		96.0	70-130			
C8-C10 Aromatics	2.78	5.00	"	3.33		83.5	70-130			
C10-C12 Aromatics	2.89	5.00	"	3.33		86.8	70-130			
C12-C16 Aromatics	8.95	5.00	"	10.0		89.5	70-130			
C16-C21 Aromatics	15.8	5.00	"	16.7		94.6	70-130			
C21-C34 Aromatics	23.8	5.00	"	26.7		89.1	70-130			
Surrogate: o-Terphenyl	15.8		"	16.7		94.6	60-140			
Surrogate: 1-Chlorooctadecane	16.3		"	16.7		97.6	60-140			

**LCS Dup (6A18024-BSD1)**

C8-C10 Aliphatics	7.68	5.00	mg/kg wet	10.0		76.8	70-130	3.33	25	
C10-C12 Aliphatics	2.99	5.00	"	3.33		89.8	70-130	0.998	25	
C12-C16 Aliphatics	6.25	5.00	"	6.67		93.7	70-130	1.27	25	
C16-C21 Aliphatics	7.18	5.00	"	10.0		71.8	70-130	0.00	25	
C21-C34 Aliphatics	21.0	5.00	"	20.0		105	70-130	8.96	25	
C8-C10 Aromatics	2.76	5.00	"	3.33		82.9	70-130	0.722	25	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 -7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Extractable Petroleum Hydrocarbons by WDOE TPH Policy Method - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A18024: Prepared 01/18/06 Using EPA 3545**

**LCS Dup (6A18024-BSD1)**

C10-C12 Aromatics	2.87	5.00	mg/kg wet	3.33		86.2	70-130	0.694	25	
C12-C16 Aromatics	9.00	5.00	"	10.0		90.0	70-130	0.557	25	
C16-C21 Aromatics	16.2	5.00	"	16.7		97.0	70-130	2.50	25	
C21-C34 Aromatics	24.8	5.00	"	26.7		92.9	70-130	4.12	25	
Surrogate: o-Terphenyl	15.9		"	16.7		95.2	60-140			
Surrogate: 1-Chlorooctadecane	16.0		"	16.7		95.8	60-140			

**Matrix Spike (6A18024-MS1)**

**Source: B6A0197-01**

C8-C10 Aliphatics	10.2	5.26	mg/kg dry	10.5	2.57	72.7	70-130			
C10-C12 Aliphatics	16.7	5.26	"	3.51	15.7	28.5	70-130			Q-02
C12-C16 Aliphatics	60.6	5.26	"	7.02	62.8	-31.3	70-130			Q-02
C16-C21 Aliphatics	54.8	5.26	"	10.5	59.0	-40.0	70-130			Q-02
34 Aliphatics	28.2	5.26	"	21.0	11.0	81.9	70-130			
3 Aromatics	2.77	5.26	"	3.51	ND	78.9	70-130			
C10-C12 Aromatics	3.89	5.26	"	3.51	1.48	68.7	70-130			Q-02
C12-C16 Aromatics	16.4	5.26	"	10.5	9.59	64.9	70-130			Q-02
C16-C21 Aromatics	36.3	5.26	"	17.5	26.9	53.7	70-130			Q-02
C21-C34 Aromatics	26.0	5.26	"	28.1	2.41	84.0	70-130			
Surrogate: o-Terphenyl	16.1		"	17.5		92.0	60-140			
Surrogate: 1-Chlorooctadecane	17.5		"	17.5		100	60-140			

**Matrix Spike Dup (6A18024-MSD1)**

**Source: B6A0197-01**

C8-C10 Aliphatics	11.2	5.28	mg/kg dry	10.6	2.57	81.4	70-130	9.35	25	
C10-C12 Aliphatics	19.0	5.28	"	3.52	15.7	93.8	70-130	12.9	25	
C12-C16 Aliphatics	65.4	5.28	"	7.04	62.8	36.9	70-130	7.62	25	Q-02
C16-C21 Aliphatics	57.6	5.28	"	10.6	59.0	-13.2	70-130	4.98	25	Q-02
C21-C34 Aliphatics	29.0	5.28	"	21.1	11.0	85.3	70-130	2.80	25	
C8-C10 Aromatics	2.99	5.28	"	3.52	ND	84.9	70-130	7.64	25	
C10-C12 Aromatics	4.34	5.28	"	3.52	1.48	81.2	70-130	10.9	25	
C12-C16 Aromatics	18.1	5.28	"	10.6	9.59	80.3	70-130	9.86	25	
C16-C21 Aromatics	40.1	5.28	"	17.6	26.9	75.0	70-130	9.95	25	
C21-C34 Aromatics	27.5	5.28	"	28.2	2.41	89.0	70-130	5.61	25	
Surrogate: o-Terphenyl	16.6		"	17.6		94.3	60-140			
Surrogate: 1-Chlorooctadecane	18.3		"	17.6		104	60-140			

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6A10031: Prepared 01/10/06 Using EPA 3545

**Blank (6A10031-BLK1)**

Acenaphthene	ND	0.0100	mg/kg wet							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.0100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.0100	"							
Fluorene	ND	0.0100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.0100	"							
2-Methylnaphthalene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							
Surrogate: p-Terphenyl-d14	0.595		"	0.670		88.8	50-147			

**LCS (6A10031-BS2)**

Acenaphthene	0.536	0.0100	mg/kg wet	0.667		80.4	70-125			
Acenaphthylene	0.584	0.0100	"	0.667		87.6	70-133			
Anthracene	0.683	0.0100	"	0.667		102	70-152			
Benzo (a) anthracene	0.546	0.0100	"	0.667		81.9	60-125			
Benzo (a) pyrene	0.562	0.0100	"	0.667		84.3	64-134			
Benzo (b) fluoranthene	0.639	0.0100	"	0.667		95.8	62-147			
Benzo (k) fluoranthene	0.618	0.0100	"	0.667		92.7	60-144			
Benzo (ghi) perylene	0.479	0.0100	"	0.667		71.8	57-137			
Chrysene	0.613	0.0100	"	0.667		91.9	70-139			
Dibenz (a,h) anthracene	0.548	0.0100	"	0.667		82.2	56-140			
Fluoranthene	0.776	0.0100	"	0.667		116	70-141			
Fluorene	0.608	0.0100	"	0.667		91.2	76-132			
Indeno (1,2,3-cd) pyrene	0.507	0.0100	"	0.667		76.0	55-138			
1-Methylnaphthalene	0.529	0.0100	"	0.667		79.3	46-128			

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6A10031: Prepared 01/10/06 Using EPA 3545

**LCS (6A10031-BS2)**

2-Methylnaphthalene	0.522	0.0100	mg/kg wet	0.667		78.3	41-125			
Naphthalene	0.458	0.0100	"	0.667		68.7	43-125			
Phenanthrene	0.593	0.0100	"	0.667		88.9	73-125			
Pyrene	0.533	0.0100	"	0.667		79.9	68-140			
Surrogate: p-Terphenyl-d14	0.555		"	0.670		82.8	50-147			

**LCS Dup (6A10031-BSD2)**

Acenaphthene	0.499	0.0100	mg/kg wet	0.667		74.8	70-125	7.15	40	
Acenaphthylene	0.543	0.0100	"	0.667		81.4	70-133	7.28	40	
Anthracene	0.637	0.0100	"	0.667		95.5	70-152	6.97	40	
Benzo (a) anthracene	0.518	0.0100	"	0.667		77.7	60-125	5.26	40	
Benzo (a) pyrene	0.548	0.0100	"	0.667		82.2	64-134	2.52	26	
Benzo (b) fluoranthene	0.651	0.0100	"	0.667		97.6	62-147	1.86	40	
Benzo (k) fluoranthene	0.588	0.0100	"	0.667		88.2	60-144	4.98	40	
Benzo (ghi) perylene	0.453	0.0100	"	0.667		67.9	57-137	5.58	40	
Chrysene	0.592	0.0100	"	0.667		88.8	70-139	3.49	24	
Dibenz (a,h) anthracene	0.519	0.0100	"	0.667		77.8	56-140	5.44	40	
Fluoranthene	0.719	0.0100	"	0.667		108	70-141	7.63	40	
Fluorene	0.566	0.0100	"	0.667		84.9	76-132	7.16	43	
Indeno (1,2,3-cd) pyrene	0.478	0.0100	"	0.667		71.7	55-138	5.89	39	
1-Methylnaphthalene	0.520	0.0100	"	0.667		78.0	46-128	1.72	40	
2-Methylnaphthalene	0.505	0.0100	"	0.667		75.7	41-125	3.31	40	
Naphthalene	0.442	0.0100	"	0.667		66.3	43-125	3.56	40	
Phenanthrene	0.559	0.0100	"	0.667		83.8	73-125	5.90	40	
Pyrene	0.511	0.0100	"	0.667		76.6	68-140	4.21	40	
Surrogate: p-Terphenyl-d14	0.524		"	0.670		78.2	50-147			

North Creek Analytical - Bothell

*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A24034: Prepared 01/24/06 Using EPA 3550B**

**Blank (6A24034-BLK1)**

Acenaphthene	ND	0.0100	mg/kg wet							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.0100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.0100	"							
Fluorene	ND	0.0100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.0100	"							
2-Methylnaphthalene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							
<i>Surrogate: p-Terphenyl-d14</i>	<i>1.80</i>		"	<i>1.67</i>		<i>108</i>	<i>50-147</i>			

**LCS (6A24034-BS1)**

Acenaphthene	0.540	0.0100	mg/kg wet	0.667		81.0	70-125			
Acenaphthylene	0.597	0.0100	"	0.667		89.5	70-133			
Anthracene	0.659	0.0100	"	0.667		98.8	70-152			
Benzo (a) anthracene	0.536	0.0100	"	0.667		80.4	60-125			
Benzo (a) pyrene	0.601	0.0100	"	0.667		90.1	64-134			
Benzo (b) fluoranthene	0.627	0.0100	"	0.667		94.0	62-147			
Benzo (k) fluoranthene	0.688	0.0100	"	0.667		103	60-144			
Benzo (ghi) perylene	0.645	0.0100	"	0.667		96.7	57-137			
Chrysene	0.600	0.0100	"	0.667		90.0	70-139			
Dibenz (a,h) anthracene	0.663	0.0100	"	0.667		99.4	56-140			
Fluoranthene	0.633	0.0100	"	0.667		94.9	70-141			
Fluorene	0.635	0.0100	"	0.667		95.2	76-132			
Indeno (1,2,3-cd) pyrene	0.633	0.0100	"	0.667		94.9	55-138			
1-Methylnaphthalene	0.428	0.0100	"	0.667		64.2	46-128			

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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 907.563.9200 fax 907.563.9210

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**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A24034: Prepared 01/24/06 Using EPA 3550B**

**LCS (6A24034-BS1)**

2-Methylnaphthalene	0.449	0.0100	mg/kg wet	0.667		67.3	41-125			
Naphthalene	0.453	0.0100	"	0.667		67.9	43-125			
Phenanthrene	0.604	0.0100	"	0.667		90.6	73-125			
Pyrene	0.600	0.0100	"	0.667		90.0	68-140			
Surrogate: p-Terphenyl-d14	1.47		"	1.67		88.0	50-147			

**Matrix Spike (6A24034-MS1)**

**Source: B5L0418-24RE1**

Acenaphthene	0.849	0.0159	mg/kg dry	1.06	ND	80.1	67-132			
Acenaphthylene	0.929	0.0159	"	1.06	ND	87.6	65-142			
Anthracene	0.972	0.0159	"	1.06	ND	91.7	66-158			
Benzo (a) anthracene	0.824	0.0159	"	1.06	0.00689	77.1	41-156			
Benzo (a) pyrene	0.911	0.0159	"	1.06	0.00710	85.3	52-148			
Benzo (b) fluoranthene	1.08	0.0159	"	1.06	0.0101	101	53-151			
Benzo (k) fluoranthene	0.955	0.0159	"	1.06	0.00795	89.3	46-161			
Benzo (ghi) perylene	0.752	0.0159	"	1.06	0.00657	70.3	26-154			
Chrysene	0.911	0.0159	"	1.06	0.0159	84.4	55-155			
Dibenz (a,h) anthracene	0.812	0.0159	"	1.06	ND	76.6	27-157			
Fluoranthene	1.11	0.0159	"	1.06	0.0191	103	46-172			
Fluorene	1.00	0.0159	"	1.06	ND	94.3	66-143			
Indeno (1,2,3-cd) pyrene	0.788	0.0159	"	1.06	0.00551	73.8	24-159			
1-Methylnaphthalene	0.698	0.0159	"	1.06	0.00191	65.7	39-140			
2-Methylnaphthalene	0.708	0.0159	"	1.06	0.00212	66.6	32-139			
Naphthalene	0.701	0.0159	"	1.06	0.00551	65.6	38-134			
Phenanthrene	0.904	0.0159	"	1.06	ND	85.3	63-139			
Pyrene	0.827	0.0159	"	1.06	0.0218	76.0	51-172			
Surrogate: p-Terphenyl-d14	2.02		"	2.65		76.2	50-147			

**Matrix Spike Dup (6A24034-MSD1)**

**Source: B5L0418-24RE1**

Acenaphthene	0.763	0.0159	mg/kg dry	1.06	ND	72.0	67-132	10.7	50	
Acenaphthylene	0.849	0.0159	"	1.06	ND	80.1	65-142	9.00	50	
Anthracene	0.877	0.0159	"	1.06	ND	82.7	66-158	10.3	50	
Benzo (a) anthracene	0.820	0.0159	"	1.06	0.00689	76.7	41-156	0.487	50	Q-38
Benzo (a) pyrene	0.913	0.0159	"	1.06	0.00710	85.5	52-148	0.219	50	
Benzo (b) fluoranthene	1.19	0.0159	"	1.06	0.0101	111	53-151	9.69	50	
Benzo (k) fluoranthene	1.11	0.0159	"	1.06	0.00795	104	46-161	15.0	50	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
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Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 14:12

**Polynuclear Aromatic Hydrocarbons by GC/MS-SIM - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 6A24034: Prepared 01/24/06 Using EPA 3550B**

**Matrix Spike Dup (6A24034-MSD1)**

**Source: B5L0418-24RE1**

Benzo (ghi) perylene	0.447	0.0159	mg/kg dry	1.06	0.00657	41.6	26-154	50.9	50	Q-07
Chrysene	0.872	0.0159	"	1.06	0.0159	80.8	55-155	4.37	44	Q-38
Dibenz (a,h) anthracene	0.530	0.0159	"	1.06	ND	50.0	27-157	42.0	50	
Fluoranthene	1.30	0.0159	"	1.06	0.0191	121	46-172	15.8	50	
Fluorene	0.937	0.0159	"	1.06	ND	88.4	66-143	6.50	52	
Indeno (1,2,3-cd) pyrene	0.523	0.0159	"	1.06	0.00551	48.8	24-159	40.4	43	
1-Methylnaphthalene	0.670	0.0159	"	1.06	0.00191	63.0	39-140	4.09	50	
2-Methylnaphthalene	0.691	0.0159	"	1.06	0.00212	65.0	32-139	2.43	50	
Naphthalene	0.675	0.0159	"	1.06	0.00551	63.2	38-134	3.78	50	
Phenanthrene	0.863	0.0159	"	1.06	ND	81.4	63-139	4.64	50	
Pyrene	0.778	0.0159	"	1.06	0.0218	71.3	51-172	6.11	50	Q-38
Surrogate: p-Terphenyl-d14	1.83		"	2.65		69.1	50-147			

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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509.924.9200 fax 509.924.9290  
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907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/27/06 14:12

### Notes and Definitions

- D-14 Diluted due to matrix effect.
- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- Q-29 This sample was prepared outside of the method established holding time.
- Q-38 The internal standard associated with this analyte was biased high and outside acceptance criteria. Re-analysis verified the original result.
- Q-39 The internal standard associated with this analyte was biased low and outside acceptance criteria. Re-analysis verified the original result.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Page 20 of 20



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### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0418**

NCA CLIENT:				INVOICE TO:				<b>TURNAROUND REQUEST</b> In Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 OTHER Specify: _____ <small>* Turnaround Request may vary depending on your test chemistry.</small>															
REPORT TO: <b>Mani Foster &amp; Arangi</b> ADDRESS: <b>7223 NE Hazel Dell Ave, Suite B</b> <b>Vancouver, WA</b> PHONE: <b>(971) 544-7139 FAX:</b>				P.O. NUMBER:																			
PROJECT NAME: <b>Precision Engineering</b>				PRESERVATIVE																			
PROJECT NUMBER: <b>9008.04.04</b>				REQUESTED ANALYSES																			
SAMPLED BY: <b>Mani Gibson</b>																							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cr/Cu	VOCS (limited)	NUMPH-DX	PP Metals	VOCS	NUMPH-4	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID												
1 GP13-S-1.0	12/14/05 8:15	X	X		X			S	5		01												
2 GP13-S-6.0	12/14/05 8:30	X	X	X				S	5		02												
3 GP21-S-1.0	12/14/05 8:50	X	X	X				S	5		03												
4 GP21-S-6.5	12/14/05 8:57	X	X	X				S	5		04												
5 GP20-S-1.0	12/14/05 9:15	X	X	X	X			S	5		05												
6 GP20-S-6.0	12/14/05 9:30	X	X	X				S	5		06												
7 GP15-W-8.0	12/14/05 10:45		X					W	3		07												
8 GP32-S-1.0	12/14/05 11:13	X	X	X				S	5		08												
9 GP23-S-1.0	12/14/05 12:00							S	5		09												
10 GP23-S-7.0	12/14/05 12:15	X	X	X				S	5		10												
RELEASED BY: <b>Mani Gibson</b>				DATE: <b>12/14/05</b>				RECEIVED BY: <b>Tom Blankinship</b>				DATE: <b>12/16/05</b>											
PRINT NAME: <b>Mani Gibson</b>				FIRM: <b>MFA</b>				TIME: <b>12:25</b>				PRINT NAME: <b>Blankinship</b>				FIRM: <b>NCA</b>				TIME: <b>12:25</b>			
RELEASED BY: <b>Tom Blankinship</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>Prady Tanti</b>				DATE: <b>12/16/05</b>											
PRINT NAME: _____				FIRM: _____				TIME: <b>1645</b>				PRINT NAME: <b>PRADY TANTI</b>				FIRM: <b>NCA</b>				TIME: <b>1645</b>			
ADDITIONAL REMARKS:												TERMS: <b>30 DAYS</b>											
COC REV 09/04												PAGE 1 OF 2											



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**CHAIN OF CUSTODY REPORT**

Work Order #: **B5L0418**

NCA CLIENT:				INVOICE TO:				TURNAROUND REQUEST																	
REPORT TO: <b>Mani Foster &amp; Alongi</b>				P.O. NUMBER:				In Business Days *																	
ADDRESS: <b>7223 NE Hazel Dell Ave. Vancouver, WA</b>								<input checked="" type="checkbox"/> 18 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify:																	
PHONE: <b>(360) 544-2137 FAX:</b>				PRESERVATIVE				Organic & Inorganic Analyses Petroleum Hydrocarbon Analysis																	
PROJECT NAME: <b>Precision Engineering</b>				REQUESTED ANALYSES				*Optional Reports (if checked) may incur field charges.																	
PROJECT NUMBER: <b>B006.08.04</b>				<table border="1"> <tr> <th>Cr 6C6</th> <th>VOCs (limited)</th> <th>WWTP-DX</th> <th>PP Metals</th> <th>VOCs</th> <th>INWTP-GX</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </table>				Cr 6C6	VOCs (limited)	WWTP-DX	PP Metals	VOCs	INWTP-GX												
Cr 6C6	VOCs (limited)	WWTP-DX	PP Metals	VOCs	INWTP-GX																				
SAMPLED BY: <b>Meri Gibson/Russ Adams</b>																									
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME						MATRIX (W, S, O)		# OF CONT.		LOCATION / COMMENTS		NCA WO ID											
1 GP23-S-10.5		12/14/05 12:40		X X				S		5				11											
2 GP24-S-3.0		12/14/05 13:30		X X X X				S		5				12											
3 GPDUP-S-3.0		12/14/05 13:30		X X X				S		5				13											
4 GP24-S-6.5		12/14/05 13:45		X X				S		5				14											
5 GP24-S-9.0		12/14/05 14:00						S		5				15											
6 GP13-W-8.0		12/14/05 14:45		X				W		3				16											
7 HA1-0.5		12/15/05 11:15		X		X X X X								17											
8 HA1-1.5		12/15/05 11:45		X		X X X X								18											
9 HA2-0.5		12/15/05 12:45		X		X X X X								19											
10 HA2-1.5		12/15/05 13:00		X		X X X X								20											
RELEASED BY: <b>Meri Gibson</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>Tom Blunt</b>				DATE: <b>12/16/05</b>													
PRINT NAME: <b>Meri Gibson</b>				FIRM: <b>MFA</b>				TIME: <b>12:25</b>				PRINT NAME: <b>Tom Blunt</b>				FIRM: <b></b>									
RELEASED BY: <b>Tom Blunt</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>PRANU TONTI</b>				DATE: <b>12/16/05</b>													
PRINT NAME: <b>Tom Blunt</b>				FIRM: <b></b>				TIME: <b>16:45</b>				PRINT NAME: <b>PRANU TONTI</b>				FIRM: <b>vep</b>									
ADDITIONAL REMARKS: <b>VOCs (limited): Reporting only TCE, cis-1,2-DCE, Trans-1,2-DCE, Vinyl Chloride</b>												TEMP:													
COC REV 09/04 Archive extra soil for possible followup analysis.														PAGE <b>2</b> OF <b>3</b>											



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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210  
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### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0418**

NCA CLIENT:				INVOICE TO:				<b>TURNAROUND REQUEST</b> In Business Days * <input checked="" type="checkbox"/> Organic & Inorganic Analytes <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> Petroleum Hydrocarbon Analytes <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround depends on the number of samples and the complexity of the analysis.</small>			
REPORT TO: <b>MFA</b> ADDRESS: <b>7223 NE Hazel Dell Suite B</b> <b>Vancouver, WA</b> PHONE: <b>(971) 544-2139</b> FAX: _____				P.O. NUMBER: _____							
PROJECT NAME: <b>Precision Engineering</b>				PRESERVATIVE							
PROJECT NUMBER: <b>8006.00.04</b>				REQUESTED ANALYSES							
SAMPLED BY: <b>Mein Gibson</b>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cr 4 Cr 6	VOCs (limited)	INTRA-DY	PP Metals	VOCs	INTRA-DY	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 HA3-0.5	12/15/05 13:45	X		X	X	X	X	S	5		21
2 HA3-0.5	12/15/05 14:00	X		X	X	X	X	S	5		22
3 HA4-0.5	12/15/05 14:20	X		X	X	X	X	S	5		23
4 HA4-1.5	12/15/05 14:30	X		X	X	X	X	S	5		24
5 HA5-0.5	12/15/05 14:55	X		X	X	X	X	S	5		25
6 HA5-1.5	12/15/05 15:10	X		X	X	X	X	S	5		26
7 HA-DUP	12/15/05 12:00	X		X	X	X	X	S	5		27
8 Trip Blank	12/16/05		X					W			28
9											
10											
RELEASED BY: <b>Mein Gibson</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>Tom Blunt</b>			
PRINT NAME: <b>Mein Gibson</b> FIRM: <b>MFA</b>				TIME: <b>12:25</b>				PRINT NAME: <b>Tom Blunt</b> FIRM: _____			
RELEASED BY: <b>Tom Blunt</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>PRAY TANG</b>			
PRINT NAME: <b>Tom Blunt</b> FIRM: _____				TIME: <b>16:45</b>				PRINT NAME: <b>PRAY TANG</b> FIRM: <b>NCA</b>			
ADDITIONAL REMARKS: <b>12/16/05</b>										TEMP: _____	
CO. 35/04											



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509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

25 January 2006

Alan Hughes

Maul Foster Alongi

7223 NE Hazel Dell Ave., Suite B

Vancouver, WA/USA 98665

RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/16/05 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes

Project Manager



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.905.9210  
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7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/25/06 16:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP13-S-6.0	B5L0418-02	Soil	12/14/05 08:30	12/16/05 16:45
GP24-S-3.0	B5L0418-12	Soil	12/14/05 13:30	12/16/05 16:45
GPDUP-S-3.0	B5L0418-13	Soil	12/14/05 13:30	12/16/05 16:45
GP24-S-6.5	B5L0418-14	Soil	12/14/05 13:45	12/16/05 16:45
HA2-0.5	B5L0418-19	Soil	12/15/05 12:45	12/16/05 16:45
HA4-0.5	B5L0418-23	Soil	12/15/05 14:20	12/16/05 16:45

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/25/06 16:08

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP13-S-6.0 (BSL0418-02) Soil</b> Sampled: 12/14/05 08:30 Received: 12/16/05 16:45									
pH	7.21		pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>GP24-S-3.0 (BSL0418-12) Soil</b> Sampled: 12/14/05 13:30 Received: 12/16/05 16:45									
pH	7.69		pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>GPDUP-S-3.0 (BSL0418-13) Soil</b> Sampled: 12/14/05 13:30 Received: 12/16/05 16:45									
pH	7.81		pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>GP24-S-6.5 (BSL0418-14) Soil</b> Sampled: 12/14/05 13:45 Received: 12/16/05 16:45									
pH	7.95		pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>HA2-0.5 (BSL0418-19) Soil</b> Sampled: 12/15/05 12:45 Received: 12/16/05 16:45									
pH	7.01		pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	
<b>HA4-0.5 (BSL0418-23) Soil</b> Sampled: 12/15/05 14:20 Received: 12/16/05 16:45									
	5.90		pH Units	1	6A20037	01/20/06	01/20/06	EPA 9045C	

Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/25/06 16:08
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Physical Parameters per APHA/ASTM/EPA Methods**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GP13-S-6.0 (B5L0418-02) Soil</b> Sampled: 12/14/05 08:30 Received: 12/16/05 16:45									
Oxidation/Reduction Potential	279.1	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>GP24-S-3.0 (B5L0418-12) Soil</b> Sampled: 12/14/05 13:30 Received: 12/16/05 16:45									
Oxidation/Reduction Potential	270.0	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>GPDUP-S-3.0 (B5L0418-13) Soil</b> Sampled: 12/14/05 13:30 Received: 12/16/05 16:45									
Oxidation/Reduction Potential	276.8	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>GP24-S-6.5 (B5L0418-14) Soil</b> Sampled: 12/14/05 13:45 Received: 12/16/05 16:45									
Oxidation/Reduction Potential	251.0	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>HA2-0.5 (B5L0418-19) Soil</b> Sampled: 12/15/05 12:45 Received: 12/16/05 16:45									
Oxidation/Reduction Potential	413.2	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05
<b>HA4-0.5 (B5L0418-23) Soil</b> Sampled: 12/15/05 14:20 Received: 12/16/05 16:45									
Oxidation/Reduction Potential	439.3	-999.0	mV	1	6010883	01/23/06	01/24/06	SM2580B MOD	I-05

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network





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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/25/06 16:08
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A20037: Prepared 01/20/06 Using General Preparation**

<b>Duplicate (6A20037-DUP1)</b>					<b>Source: B5L0339-03</b>					
pH	7.62		pH Units		7.59			0.394	10	
<b>Duplicate (6A20037-DUP2)</b>					<b>Source: B6A0344-01</b>					
pH	8.03		pH Units		8.01			0.249	10	

Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/25/06 16:08
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Physical Parameters per APHA/ASTM/EPA Methods - Quality Control**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 6010883: Prepared 01/23/06 Using General Preparation**

**LCS (6010883-BS1)**

Oxidation/Reduction Potential	458.0	-999.0	mV	476.0		96.2	75-125			
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**Duplicate (6010883-DUP1)**

Oxidation/Reduction Potential	411.4	-999.0	mV		Source: P6A0731-01 408.8			0.634	200	I-05
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North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/25/06 16:08

### Notes and Definitions

I-05 This sample was received outside EPA recommended holding time.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0418**

NCA CLIENT:			INVOICE TO:						TURNAROUND REQUEST								
REPORT TO: <b>Maul Foster &amp; Alangi</b>			P.O. NUMBER:						In Business Days *								
ADDRESS: <b>7223 NE Hazel Dell Ave. Suite B</b>									<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> 1 <input type="checkbox"/> 4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 * Expedited Request by the client may incur additional charges.								
PHONE: <b>(971) 544-7139 Fax</b>			PRESERVATIVE						OTHER: _____								
PROJECT NAME: <b>Precision Engineering</b>			REQUESTED ANALYSES														
PROJECT NUMBER: <b>0008.04.04</b>																	
SAMPLED BY: <b>Mari Gibson</b>																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		Cr/Cu	VOCs (limited)	NWTPH-DX	PP Metals	VOCs	NWTPH-L			MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID			
1 GP13-S-1.0	12/14/05 8:15		X	X		X					S	5		01			
2 GP13-S-6.0	12/14/05 8:30		X	X	X						S	5		02			
3 GP21-S-1.0	12/14/05 8:50		X	X	X						S	5		03			
4 GP21-S-6.5	12/14/05 8:57		X	X	X						S	5		04			
5 GP20-S-1.0	12/14/05 9:15		X	X	X	X					S	5		05			
6 GP20-S-6.0	12/14/05 9:30		X	X	X						S	5		06			
7 GP15-W-8.0	12/14/05 9:45			X							W	3		07			
8 GP32-S-1.0	12/14/05 11:13		X	X	X						S	5		08			
9 GP23-S-1.0	12/14/05 12:00										S	5		09			
10 GP23-S-7.0	12/14/05 12:15		X	X	X						S	5		10			
RELEASED BY: <b>Mari Gibson</b>			DATE: <b>12/14/05</b>			RECEIVED BY: <b>Tom Hawk</b>			DATE: <b>12/16/05</b>								
PRINT NAME: <b>Mari Gibson</b>			FIRM: <b>MFA</b>			TIME: <b>12:25</b>			PRINT NAME: <b>Blankinskip</b>			FIRM: <b>NCA</b>			TIME: <b>12:25</b>		
RELEASED BY: <b>Tom Hawk</b>			DATE: <b>12/16/05</b>			RECEIVED BY: <b>Prany Tanti</b>			DATE: <b>12/16/05</b>								
PRINT NAME: _____			FIRM: _____			TIME: <b>1645</b>			PRINT NAME: <b>PRANY TANTI</b>			FIRM: <b>NCA</b>			TIME: <b>1645</b>		
ADDITIONAL REMARKS:												TEMP: <b>3</b>					
CC: 09/04												PAGE 1 OF 3					



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**CHAIN OF CUSTODY REPORT**

Work Order #: **B5L0418**

NCA CLIENT:				INVOICE TO:				TURNAROUND REQUEST					
REPORT TO: <b>Mani Foster &amp; Alangy</b>				P.O. NUMBER:				In Business Days *					
ADDRESS: <b>7223 NE Hazel Dell Ave.</b>													
PHONE: <b>(206) 544-2134</b>				PROJECT NAME: <b>Precision Engineering</b>				<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20					
PROJECT NUMBER: <b>8006.08.04</b>				PRESERVATIVE				<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20					
SAMPLED BY: <b>Meri Gibson/Russ Adams</b>				REQUESTED ANALYSES				OTHER: _____ Specify: _____					
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		Grav	VOCs (limited)	WATER-DX	PP Metals	VOCs	INWHT-GC	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 GP23-S-10.5		12/14/05 12:40		X	X					S	5		11
2 GP24-S-3.0		12/14/05 13:30		X	X	X	X			S	5		12
3 GPDUP-S-3.0		12/14/05 13:30		X	X		X			S	5		13
4 GP24-S-6.5		12/14/05 13:45		X	X					S	5		14
5 GP24-S-9.0		12/14/05 14:00								S	5		15
6 GP13-W-8.0		12/14/05 14:45			X					W	3		16
7 HA1-0.5		12/15/05 11:15		X		X	X	X	X				17
8 HA1-1.5		12/15/05 11:45		X		X	X	X	X				18
9 HA2-0.5		12/15/05 12:45		X		X	X	X	X				19
10 HA2-1.5		12/15/05 13:00		X		X	X	X	X				20
RELEASED BY: <b>Meri Gibson</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>Tom Blunt</b>					
PRINT NAME: <b>Meri Gibson</b>				FIRM: <b>MFA</b>				DATE: <b>12/16/05</b>					
TIME: <b>12:25</b>				RECEIVED BY: <b>Prany Tonty</b>				DATE: <b>12/16/05</b>					
FIRM: <b>MFA</b>				TIME: <b>16:45</b>				RECEIVED BY: <b>over</b>					
FIRM: <b>MFA</b>				TIME: <b>16:45</b>				FIRM: <b>over</b>					
ADDITIONAL REMARKS: <b>VOCs (limited): Reporting only TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride</b>												TEMP:	
COC REV 09/04 <b>Archive extra soil for possible followup analysis.</b>													PAGE 2 OF 3



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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0418**

NCA CLIENT:				INVOICE TO:				<b>TURNAROUND REQUEST</b> In Business Days * <input checked="" type="checkbox"/> Organic & Inorganic Analyses <input type="checkbox"/> 7 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 <input type="checkbox"/> Petroleum Hydrocarbon Analyses <input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 1 <1 <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround depends on what samples are being analyzed.</small>			
REPORT TO: <b>MFA</b>				P.O. NUMBER:							
ADDRESS: <b>7223 NE Hazel Dell Suite B Vancouver, WA</b>											
PHONE: <b>(971) 544-2139</b> FAX:											
PROJECT NAME: <b>Precision Engineering</b>				PRESERVATIVE							
PROJECT NUMBER: <b>8006.00.04</b>				REQUESTED ANALYSES							
SAMPLED BY: <b>Mein Gibson</b>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cr & Crg	VOCs (limited)	SWT/PT-D	PP Metals	VOCs	NMTALS	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 HA3-0.5	12/15/05 13:45	X		X	X	X	X	S	5		21
2 HA3-0.5	12/15/05 14:00	X		X	X	X	X	S	5		22
3 HA4-0.5	12/15/05 14:20	X		X	X	X	X	S	5		23
4 HA4-1.5	12/15/05 14:30	X		X	X	X	X	S	5		24
5 HA5-0.5	12/15/05 14:55	X		X	X	X	X	S	5		25
6 HA5-1.5	12/15/05 15:10	X		X	X	X	X	S	5		26
7 HA-Dup	12/15/05 12:00	X		X	X	X	X	S	5		27
8 Trip Blank	12/16/05		X					W			28
9											
10											
RELEASED BY: <b>Mein Gibson</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>Tom Blunt</b>			
PRINT NAME: <b>Mein Gibson</b>				FIRM: <b>MFA</b>				DATE: <b>12/16/05</b>			
TIME: <b>12:25</b>				PRINT NAME: <b>Tom Blunt</b>				FIRM: <b>NCA</b>			
TIME: <b>12:25</b>				DATE: <b>12/16/05</b>				RECEIVED BY: <b>PRAMY TONG</b>			
RELEASED BY: <b>Tom Blunt</b>				DATE: <b>12/16/05</b>				DATE: <b>12/16/05</b>			
PRINT NAME: <b>Tom Blunt</b>				FIRM: <b>NCA</b>				PRINT NAME: <b>PRAMY TONG</b>			
FIRM: <b>NCA</b>				TIME: <b>16:45</b>				FIRM: <b>NCA</b>			
TIME: <b>16:45</b>				ADDITIONAL REMARKS:				TEMP: _____			
COL 10/04											PAGE 3 OF 3



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509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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907.563.9200 fax 907.563.9210

## CASE NARRATIVE for B5L0609

Client: Maul Foster Alongi  
Project Manager: Alan Hughes  
Project Name: Precision Engineering  
Project Number: 8006.08.04

### 1.0 DESCRIPTION OF CASE

Five water samples were submitted on December 28, 2005 for the following analyses: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Dissolved Metals by EPA 6000/7000 Series Methods, Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection, and Conventional Chemistry Parameters by APHA/EPA Methods.

### 2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received and logged in on December 28, 2005. The samples were received at a temperature of 6.0 °C.

### 3.0 PREPARATION AND ANALYSIS

#### *Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Dissolved Metals by EPA 6000/7000 Series Methods*

No anomalies or discrepancies were associated with this analysis.

#### *Volatile Organic Compounds by EPA Method 8260B*

No anomalies or discrepancies were associated with this analysis.

#### *Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection*

The samples were prepared and analyzed in analytical batch 6A03005. The Blank Spike Duplicate (6A03005-BSD2) had multiple failures for target analytes and surrogates. The samples were re-extracted in analytical batch 6A09030 on January 9, 2006, which is outside of the recommended hold time. Both sets of results have been provided.

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Conventional Chemistry Parameters by APHA/EPA Methods*

No anomalies or discrepancies were associated with this analysis.

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Jeff Gerdes  
Project Manager  
North Creek Analytical



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425.420.9200 fax 425.420.9210  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

27 January 2006

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/28/05 10:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes  
Project Manager





**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210

**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290

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907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 15:24
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1-122705	B5L0609-01	Water	12/27/05 13:10	12/28/05 10:45
MW4-122705	B5L0609-02	Water	12/27/05 15:30	12/28/05 10:45
MW8-122805	B5L0609-03	Water	12/28/05 07:45	12/28/05 10:45
MWDUP-122805	B5L0609-04	Water	12/28/05 07:45	12/28/05 10:45
TRIP BLANK	B5L0609-05	Water	12/28/05 07:00	12/28/05 10:45
MW2-122805	B5L0609-06	Water	12/28/05 09:30	12/28/05 10:45

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
Environmental Laboratory Network



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 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW1-122705 (BSL0609-01) Water** Sampled: 12/27/05 13:10 Received: 12/28/05 10:45

Diesel Range Hydrocarbons	ND	0.248	mg/l	1	5L29006	12/29/05	12/30/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.495	"	"	"	"	"	"	
Surrogate: 2-FBP	92.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.2 %	50-150			"	"	"	"	

**MW4-122705 (BSL0609-02) Water** Sampled: 12/27/05 15:30 Received: 12/28/05 10:45

Diesel Range Hydrocarbons	ND	0.248	mg/l	1	5L29006	12/29/05	12/30/05	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.495	"	"	"	"	"	"	
Surrogate: 2-FBP	90.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.8 %	50-150			"	"	"	"	

**MW8-122805 (BSL0609-03) Water** Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

Diesel Range Hydrocarbons	1.71	0.248	mg/l	1	5L29006	12/29/05	12/30/05	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	1.00	0.495	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	82.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.8 %	50-150			"	"	"	"	

**MWDUP-122805 (BSL0609-04) Water** Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

Diesel Range Hydrocarbons	1.79	0.248	mg/l	1	5L29006	12/29/05	12/30/05	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	1.21	0.495	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	88.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.0 %	50-150			"	"	"	"	

**MW2-122805 (BSL0609-06) Water** Sampled: 12/28/05 09:30 Received: 12/28/05 10:45

Diesel Range Hydrocarbons	1.19	0.248	mg/l	1	5L29006	12/29/05	12/30/05	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	1.04	0.495	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	69.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	101 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Dissolved Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW1-122705 (B5L0609-01) Water Sampled: 12/27/05 13:10 Received: 12/28/05 10:45**

Silver	ND	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Arsenic	0.0323	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	01/03/06	"	
Cadmium	ND	0.00100	"	"	"	"	12/30/05	"	
Chromium	ND	0.00100	"	"	"	"	01/03/06	"	
Copper	0.00101	0.00100	"	"	"	"	12/30/05	"	
Mercury	ND	0.000200	"	"	5L29055	12/29/05	12/30/05	EPA 7470A - Diss	
Nickel	ND	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	12/30/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

**-122705 (B5L0609-02) Water Sampled: 12/27/05 15:30 Received: 12/28/05 10:45**

Arsenic	0.0151	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Beryllium	ND	0.00100	"	"	"	"	01/03/06	"	
Cadmium	ND	0.00100	"	"	"	"	12/30/05	"	
Chromium	ND	0.00100	"	"	"	"	01/03/06	"	
Copper	ND	0.00100	"	"	"	"	12/30/05	"	
Mercury	ND	0.000200	"	"	5L29055	12/29/05	12/30/05	EPA 7470A - Diss	
Nickel	0.00133	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	12/30/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

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Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Dissolved Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW8-122805 (BSL0609-03) Water** Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

Silver	ND	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Arsenic	0.00641	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	01/03/06	"	
Cadmium	ND	0.00100	"	"	"	"	12/30/05	"	
Chromium	0.00755	0.00100	"	"	"	"	01/03/06	"	
Copper	ND	0.00100	"	"	"	"	12/30/05	"	
Mercury	ND	0.000200	"	"	5L29055	12/29/05	12/30/05	EPA 7470A - Diss	
Nickel	0.00291	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	0.00411	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	12/30/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

**MWDUP-122805 (BSL0609-04) Water** Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

Silver	ND	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Arsenic	0.00785	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	01/03/06	"	
Cadmium	ND	0.00100	"	"	"	"	12/30/05	"	
Chromium	0.00849	0.00100	"	"	"	"	01/03/06	"	
Copper	0.00103	0.00100	"	"	"	"	12/30/05	"	
Mercury	ND	0.000200	"	"	5L29055	12/29/05	12/30/05	EPA 7470A - Diss	
Nickel	0.00314	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	0.00427	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	12/30/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

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**Dissolved Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW2-122805 (B5L0609-06) Water Sampled: 12/28/05 09:30 Received: 12/28/05 10:45</b>									
Silver	ND	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Arsenic	0.00563	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	01/03/06	"	
Cadmium	ND	0.00100	"	"	"	"	12/30/05	"	
Chromium	0.00879	0.00100	"	"	"	"	01/03/06	"	
Copper	0.00117	0.00100	"	"	"	"	12/30/05	"	
Mercury	ND	0.000200	"	"	5L29055	12/29/05	12/30/05	EPA 7470A - Diss	
Nickel	0.00251	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	0.00628	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	12/30/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW1-122705 (BSL0609-01) Water** Sampled: 12/27/05 13:10 Received: 12/28/05 10:45

2-Butanone	ND	2.00	ug/l	1	5L28066	12/28/05	12/28/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	103 %	70-130			"	"	"	"	

**MW4-122705 (BSL0609-02) Water** Sampled: 12/27/05 15:30 Received: 12/28/05 10:45

2-Butanone	ND	2.00	ug/l	1	5L28066	12/28/05	12/28/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	101 %	70-130			"	"	"	"	

**MW8-122805 (BSL0609-03) Water** Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

2-Butanone	17.0	2.00	ug/l	1	5L28066	12/28/05	12/28/05	EPA 8260B	
cis-1,2-Dichloroethene	1.03	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Vinyl chloride	0.560	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	95.5 %	70-130			"	"	"	"	

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Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**MWDUP-122805 (B5L0609-04) Water** Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

2-Butanone	15.5	2.00		ug/l	1	5L28066	12/28/05	12/28/05	EPA 8260B	
cis-1,2-Dichloroethene	0.920	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Vinyl chloride	0.400	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	104 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130				"	"	"	"	
Surrogate: 4-BFB	97.5 %	70-130				"	"	"	"	

**TRIP BLANK (B5L0609-05) Water** Sampled: 12/28/05 07:00 Received: 12/28/05 10:45

2-Butanone	ND	2.00		ug/l	1	5L28066	12/28/05	12/28/05	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130				"	"	"	"	
Surrogate: 4-BFB	99.5 %	70-130				"	"	"	"	

**MW2-122805 (B5L0609-06) Water** Sampled: 12/28/05 09:30 Received: 12/28/05 10:45

2-Butanone	ND	2.00		ug/l	1	5L28066	12/28/05	12/29/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	104 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130				"	"	"	"	
Surrogate: 4-BFB	103 %	70-130				"	"	"	"	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW1-122705 (B5L0609-01) Water Sampled: 12/27/05 13:10 Received: 12/28/05 10:45

Acenaphthene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HV1	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	ND	0.0990	"	"	"	"	"	"	
Phenanthrene	0.130	0.0990	"	"	"	"	"	"	
Pyrene	0.211	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	72.1 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	82.6 %	18-145			"	"	"	"	

MW1-122705 (B5L0609-01RE1) Water Sampled: 12/27/05 13:10 Received: 12/28/05 10:45

O-08

Acenaphthene	ND	0.114	ug/l	1	6A09030	01/09/06	01/18/06	EPA 8270C-HV1	
Acenaphthylene	ND	0.114	"	"	"	"	"	"	
Anthracene	ND	0.114	"	"	"	"	"	"	
Benzo (a) anthracene	0.107	0.0114	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0114	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.104	0.0114	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.108	0.0114	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.114	"	"	"	"	"	"	
Chrysene	0.132	0.0114	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0114	"	"	"	"	"	"	
Fluoranthene	0.384	0.114	"	"	"	"	"	"	
Fluorene	ND	0.114	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0114	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.114	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.114	"	"	"	"	"	"	
Naphthalene	ND	0.114	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>MW1-122705 (BSL0609-01RE1) Water</b> Sampled: 12/27/05 13:10 Received: 12/28/05 10:45 <span style="float:right">O-08</span>										
Phenanthrene	0.159	0.114		ug/l	1	6A09030	01/09/06	01/18/06	EPA 8270C-HVI	
Pyrene	0.310	0.114		"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	14.5 %	20-145				"	"	"	"	S-03
Surrogate: 1-Methylnaphthalene-d10	73.9 %	18-145				"	"	"	"	
<b>MW4-122705 (BSL0609-02) Water</b> Sampled: 12/27/05 15:30 Received: 12/28/05 10:45										
Acenaphthene	ND	0.0990		ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990		"	"	"	"	"	"	
Anthracene	ND	0.0990		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.00990		"	"	"	"	"	"	
Benzo (a,b) anthracene	ND	0.00990		"	"	"	"	"	"	
Fluoranthene	ND	0.0990		"	"	"	"	"	"	
Fluorene	ND	0.0990		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0990		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990		"	"	"	"	"	"	
Naphthalene	ND	0.0990		"	"	"	"	"	"	
Phenanthrene	ND	0.0990		"	"	"	"	"	"	
Pyrene	ND	0.0990		"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	57.4 %	20-145				"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	85.6 %	18-145				"	"	"	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW4-122705 (B5L0609-02RE1) Water Sampled: 12/27/05 15:30 Received: 12/28/05 10:45 O-08

Acenaphthene	ND	0.100	ug/l	1	6A09030	01/09/06	01/18/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.100	"	"	"	"	"	"	
Anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.0100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.100	"	"	"	"	"	"	
Fluorene	ND	0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
Naphthalene	ND	0.100	"	"	"	"	"	"	
Phenanthrene	ND	0.100	"	"	"	"	"	"	
Pyrene	ND	0.100	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	46.4 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	76.5 %	18-145			"	"	"	"	

MW8-122805 (B5L0609-03) Water Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

Acenaphthene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	0.120	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	ND	0.0990	"	"	"	"	"	"	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi Project: Precision Engineering  
 7223 NE Hazel Dell Ave., Suite B Project Number: 8006.08.04  
 Vancouver, WA/USA 98665 Project Manager: Alan Hughes Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW8-122805 (B5L0609-03) Water Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

Phenanthrene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HVI	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	66.9 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	83.7 %	18-145			"	"	"	"	

MW8-122805 (B5L0609-03RE1) Water Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

O-08

Acenaphthene	ND	0.100	ug/l	1	6A09030	01/09/06	01/18/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.100	"	"	"	"	"	"	
Anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.100	"	"	"	"	"	"	
Benzo (pqr) perylene	ND	0.0100	"	"	"	"	"	"	
Benzo (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.100	"	"	"	"	"	"	
Fluorene	ND	0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
1-Methylnaphthalene	0.106	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
Naphthalene	ND	0.100	"	"	"	"	"	"	
Phenanthrene	ND	0.100	"	"	"	"	"	"	
Pyrene	ND	0.100	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	46.9 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	84.2 %	18-145			"	"	"	"	

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MWDUP-122805 (BSL0609-04) Water Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

Acenaphthene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HV1	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	ND	0.0990	"	"	"	"	"	"	
Phenanthrene	ND	0.0990	"	"	"	"	"	"	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	46.9 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	52.3 %	18-145			"	"	"	"	

MWDUP-122805 (BSL0609-04RE1) Water Sampled: 12/28/05 07:45 Received: 12/28/05 10:45

O-08

Acenaphthene	ND	0.0990	ug/l	1	6A09030	01/09/06	01/18/06	EPA 8270C-HV1	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	0.103	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	ND	0.0990	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 907.563.9200 fax 907.563.9210

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Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MWDUP-122805 (BSL0609-04RE1) Water**    **Sampled: 12/28/05 07:45**    **Received: 12/28/05 10:45**    **O-08**

Phenanthrene	ND	0.0990	ug/l	1	6A09030	01/09/06	01/18/06	EPA 8270C-HVI	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	48.3 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	78.2 %	18-145			"	"	"	"	

**MW2-122805 (BSL0609-06) Water**    **Sampled: 12/28/05 09:30**    **Received: 12/28/05 10:45**

Acenaphthene	ND	0.100	ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.100	"	"	"	"	"	"	
Anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.100	"	"	"	"	"	"	
Benzo (p) perylene	ND	0.0100	"	"	"	"	"	"	
Benzo (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.100	"	"	"	"	"	"	
Fluorene	ND	0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
Naphthalene	0.321	0.100	"	"	"	"	"	"	
Phenanthrene	ND	0.100	"	"	"	"	"	"	
Pyrene	ND	0.100	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	61.3 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	85.5 %	18-145			"	"	"	"	

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 15:24
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**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW2-122805 (B5L0609-06RE1) Water**    **Sampled: 12/28/05 09:30**    **Received: 12/28/05 10:45**    **O-08**

Acenaphthene	ND	0.0990	ug/l	1	6A09030	01/09/06	01/18/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.271</b>	0.0990	"	"	"	"	"	"	
Phenanthrene	ND	0.0990	"	"	"	"	"	"	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	53.3 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	66.5 %	18-145			"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW1-122705 (B5L0609-01) Water</b> Sampled: 12/27/05 13:10 Received: 12/28/05 10:45									
Hexavalent Chromium	ND	0.00625	mg/l	1	5L28051	12/28/05	12/28/05	EPA 7196A	
<b>MW4-122705 (B5L0609-02) Water</b> Sampled: 12/27/05 15:30 Received: 12/28/05 10:45									
Hexavalent Chromium	ND	0.00625	mg/l	1	5L28051	12/28/05	12/28/05	EPA 7196A	
<b>MW8-122805 (B5L0609-03) Water</b> Sampled: 12/28/05 07:45 Received: 12/28/05 10:45									
Hexavalent Chromium	ND	0.00625	mg/l	1	5L28051	12/28/05	12/28/05	EPA 7196A	
<b>MWDUP-122805 (B5L0609-04) Water</b> Sampled: 12/28/05 07:45 Received: 12/28/05 10:45									
Hexavalent Chromium	ND	0.00625	mg/l	1	5L28051	12/28/05	12/28/05	EPA 7196A	
<b>MW2-122805 (B5L0609-06) Water</b> Sampled: 12/28/05 09:30 Received: 12/28/05 10:45									
Hexavalent Chromium	ND	0.00625	mg/l	1	5L28051	12/28/05	12/28/05	EPA 7196A	

Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
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Reported:  
 01/27/06 15:24

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29006: Prepared 12/29/05 Using EPA 3520C**

**Blank (5L29006-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.218		"	0.250		87.2	50-150			
Surrogate: Octacosane	0.233		"	0.250		93.2	50-150			

**LCS (5L29006-BS1)**

Diesel Range Hydrocarbons	2.25	0.250	mg/l	2.00		112	58-125			
Surrogate: 2-FBP	0.214		"	0.250		85.6	50-150			

**LCS Dup (5L29006-BSD1)**

Diesel Range Hydrocarbons	1.95	0.250	mg/l	2.00		97.5	58-125	14.3	40	
Surrogate: 2-FBP	0.207		"	0.250		82.8	50-150			

**Duplicate (5L29006-DUP1)**

Source: B5L0609-01

Diesel Range Hydrocarbons	0.386	0.248	mg/l		ND			121	40	Q-06
Lube Oil Range Hydrocarbons	ND	0.495	"		ND			125	40	Q-06
Surrogate: 2-FBP	0.224		"	0.248		90.3	50-150			
Surrogate: Octacosane	0.237		"	0.248		95.6	50-150			

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29033: Prepared 12/29/05 Using EPA 3005A**

**Blank (5L29033-BLK1)**

Silver	ND	0.00100	mg/l							
Arsenic	ND	0.00100	"							
Beryllium	ND	0.00100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Copper	ND	0.00100	"							
Nickel	ND	0.00100	"							
Lead	ND	0.00100	"							
Antimony	ND	0.00300	"							
Selenium	ND	0.00100	"							
Thallium	ND	0.00100	"							
	ND	0.0100	"							

**Blank (5L29033-BLK2)**

Chromium	ND	0.00100	mg/l							
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**LCS (5L29033-BS1)**

Silver	0.208	0.00100	mg/l	0.200	104	80-120
Arsenic	0.208	0.00100	"	0.200	104	80-120
Beryllium	0.214	0.00100	"	0.200	107	80-120
Cadmium	0.208	0.00100	"	0.200	104	80-120
Chromium	0.212	0.00100	"	0.200	106	80-120
Copper	0.206	0.00100	"	0.200	103	80-120
Nickel	0.205	0.00100	"	0.200	102	80-120
Lead	0.208	0.00100	"	0.200	104	80-120
Antimony	0.0583	0.00300	"	0.0500	117	80-120
Selenium	0.210	0.00100	"	0.200	105	80-120
Thallium	0.208	0.00100	"	0.200	104	80-120
Zinc	0.208	0.0100	"	0.200	104	80-120

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 15:24
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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29033: Prepared 12/29/05 Using EPA 3005A**

**LCS (5L29033-BS2)**

Chromium	0.210	0.00100	mg/l	0.200		105	80-120			
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**LCS Dup (5L29033-BSD1)**

Silver	0.208	0.00100	mg/l	0.200		104	80-120	0.00	20	
Arsenic	0.208	0.00100	"	0.200		104	80-120	0.00	20	
Beryllium	0.216	0.00100	"	0.200		108	80-120	0.930	20	
Cadmium	0.208	0.00100	"	0.200		104	80-120	0.00	20	
Chromium	0.213	0.00100	"	0.200		106	80-120	0.471	20	
Copper	0.205	0.00100	"	0.200		102	80-120	0.487	20	
Nickel	0.203	0.00100	"	0.200		102	80-120	0.980	20	
Lead	0.208	0.00100	"	0.200		104	80-120	0.00	20	
Antimony	0.0583	0.00300	"	0.0500		117	80-120	0.00	20	
Selenium	0.211	0.00100	"	0.200		106	80-120	0.475	20	
Thallium	0.207	0.00100	"	0.200		104	80-120	0.482	20	
Zinc	0.206	0.0100	"	0.200		103	80-120	0.966	20	

**LCS Dup (5L29033-BSD2)**

Chromium	0.210	0.00100	mg/l	0.200		105	80-120	0.00	20	
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**Matrix Spike (5L29033-MS1)**

**Source: B5L0619-01**

Silver	0.0822	0.00100	mg/l	0.100	ND	82.2	33-122			
Arsenic	0.119	0.00100	"	0.100	0.00167	117	80-128			
Beryllium	0.113	0.00100	"	0.100	ND	113	80-120			
Cadmium	0.102	0.00100	"	0.100	ND	102	68-125			
Chromium	0.101	0.00100	"	0.100	0.00113	99.9	75-125			
Copper	0.101	0.00100	"	0.101	0.00133	98.7	68-120			
Nickel	0.100	0.00100	"	0.100	0.00252	97.5	55-130			
Lead	0.107	0.00100	"	0.100	0.000120	107	77-120			
Antimony	0.0473	0.00300	"	0.0500	ND	94.6	48-125			
Selenium	0.107	0.00100	"	0.100	0.00103	106	64-143			
Thallium	0.108	0.00100	"	0.100	ND	108	78-120			
Zinc	0.106	0.0100	"	0.100	0.00495	101	77-120			

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting - Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29033: Prepared 12/29/05 Using EPA 3005A**

**Matrix Spike (5L29033-MS2)**

**Source: B5L0619-01RE1**

Chromium	0.102	0.00100	mg/l	0.100	0.00626	95.7	75-125		
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**Matrix Spike Dup (5L29033-MSD1)**

**Source: B5L0619-01**

Silver	0.0787	0.00100	mg/l	0.100	ND	78.7	33-122	4.35	30
Arsenic	0.120	0.00100	"	0.100	0.00167	118	80-128	0.837	20
Beryllium	0.112	0.00100	"	0.100	ND	112	80-120	0.889	20
Cadmium	0.104	0.00100	"	0.100	ND	104	68-125	1.94	20
Chromium	0.102	0.00100	"	0.100	0.00113	101	75-125	0.985	20
Copper	0.102	0.00100	"	0.101	0.00133	99.7	68-120	0.985	20
Nickel	0.102	0.00100	"	0.100	0.00252	99.5	55-130	1.98	20
Lead	0.108	0.00100	"	0.100	0.000120	108	77-120	0.930	20
Antimony	0.0507	0.00300	"	0.0500	ND	101	48-125	6.94	20
Mercury	0.106	0.00100	"	0.100	0.00103	105	64-143	0.939	20
Vanadium	0.108	0.00100	"	0.100	ND	108	78-120	0.00	20
Zinc	0.106	0.0100	"	0.100	0.00495	101	77-120	0.00	20

**Matrix Spike Dup (5L29033-MSD2)**

**Source: B5L0619-01RE1**

Chromium	0.102	0.00100	mg/l	0.100	0.00626	95.7	75-125	0.00	20
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**Batch 5L29055: Prepared 12/29/05 Using EPA 7470A**

**Blank (5L29055-BLK1)**

Mercury	ND	0.000200	mg/l						
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**LCS (5L29055-BS1)**

Mercury	0.00484	0.000200	mg/l	0.00500		96.8	80-120		
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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
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**Batch 5L29055: Prepared 12/29/05 Using EPA 7470A**

**LCS Dup (5L29055-BSD1)**

Mercury	0.00473	0.000200	mg/l	0.00500		94.6	80-120	2.30	20	
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**Matrix Spike (5L29055-MS1)**

**Source: B5L0619-01**

Mercury	0.00481	0.000200	mg/l	0.00500	ND	96.2	70-130			
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**Matrix Spike Dup (5L29055-MSD1)**

**Source: B5L0619-01**

Mercury	0.00476	0.000200	mg/l	0.00500	ND	95.2	70-130	1.04	20	
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 425.420.9200 fax 425.420.9210  
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Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28066: Prepared 12/28/05 Using EPA 5030B**

**Blank (5L28066-BLK1)**

Acetone	ND	10.0	ug/l							
Benzene	ND	0.200	"							
Bromobenzene	ND	0.500	"							
Bromochloromethane	ND	0.200	"							
Bromodichloromethane	ND	0.200	"							
Bromoform	ND	0.200	"							
Bromomethane	ND	2.00	"							
2-Butanone	ND	2.00	"							
n-Butylbenzene	ND	0.200	"							
sec-Butylbenzene	ND	0.200	"							
tert-Butylbenzene	ND	0.500	"							
n disulfide	ND	0.500	"							
n tetrachloride	ND	0.200	"							
Chlorobenzene	ND	0.200	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.200	"							
Chloromethane	ND	1.00	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane	ND	0.200	"							
Dibromomethane	ND	0.200	"							
1,2-Dichlorobenzene	ND	0.200	"							
1,3-Dichlorobenzene	ND	0.200	"							
1,4-Dichlorobenzene	ND	0.200	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
1,1-Dichloroethene	ND	0.200	"							
cis-1,2-Dichloroethene	ND	0.200	"							
trans-1,2-Dichloroethene	ND	0.200	"							
1,2-Dichloropropane	ND	0.200	"							
1,3-Dichloropropane	ND	0.200	"							
2,2-Dichloropropane	ND	0.500	"							

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 Environmental Laboratory Network



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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 01/27/06 15:24
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28066: Prepared 12/28/05 Using EPA 5030B**

**Blank (5L28066-BLK1)**

1,1-Dichloropropene	ND	0.200	ug/l							
cis-1,3-Dichloropropene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
n-Hexane	ND	1.00	"							
2-Hexanone	ND	2.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.200	"							
4-Methyl-2-pentanone	ND	2.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	0.500	"							
n-Propylbenzene	ND	0.500	"							
Styrene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	0.200	"							
1,2,4-Trichlorobenzene	ND	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
1,1,1-Trichloroethane	ND	0.200	"							
1,1,2-Trichloroethane	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,3-Trichloropropane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	0.200	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
o-Xylene	ND	0.250	"							
m,p-Xylene	ND	0.500	"							
Surrogate: 1,2-DCA-d4	19.9		"	20.0		99.5	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	20.6		"	20.0		103	70-130			

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

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 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L28066: Prepared 12/28/05 Using EPA 5030B**

**LCS (5L28066-BS1)**

Benzene	18.3	0.200	ug/l	20.0		91.5	80-120			
Chlorobenzene	19.1	0.200	"	20.0		95.5	77-120			
1,1-Dichloroethene	17.6	0.200	"	20.0		88.0	80-120			
Methyl tert-butyl ether	20.0	1.00	"	20.0		100	80-120			
Toluene	19.3	0.200	"	20.0		96.5	80-120			
Trichloroethene	18.5	0.200	"	20.0		92.5	80-120			
Surrogate: 1,2-DCA-d4	18.7		"	20.0		93.5	70-130			
Surrogate: Toluene-d8	20.2		"	20.0		101	70-130			
Surrogate: 4-BFB	20.6		"	20.0		103	70-130			

**LCS Dup (5L28066-BS1)**

Benzene	17.7	0.200	ug/l	20.0		88.5	80-120	3.33	20	
benzene	18.6	0.200	"	20.0		93.0	77-120	2.65	20	
chloroethene	16.3	0.200	"	20.0		81.5	80-120	7.67	20	
Methyl tert-butyl ether	19.5	1.00	"	20.0		97.5	80-120	2.53	20	
Toluene	18.9	0.200	"	20.0		94.5	80-120	2.09	20	
Trichloroethene	17.6	0.200	"	20.0		88.0	80-120	4.99	20	
Surrogate: 1,2-DCA-d4	18.8		"	20.0		94.0	70-130			
Surrogate: Toluene-d8	20.3		"	20.0		102	70-130			
Surrogate: 4-BFB	20.8		"	20.0		104	70-130			

**Matrix Spike (5L28066-MS1)**

**Source: B5L0488-05**

Benzene	19.8	0.200	ug/l	20.0	ND	99.0	63-148			
Chlorobenzene	20.0	0.200	"	20.0	ND	100	80-128			
1,1-Dichloroethene	19.6	0.200	"	20.0	ND	98.0	59-158			
Methyl tert-butyl ether	19.0	1.00	"	20.0	ND	95.0	60-140			
Toluene	20.6	0.200	"	20.0	ND	103	72-127			
Trichloroethene	22.3	0.200	"	20.0	3.16	95.7	80-126			
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	70-130			
Surrogate: Toluene-d8	20.5		"	20.0		102	70-130			
Surrogate: 4-BFB	19.8		"	20.0		99.0	70-130			

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 907.563.9200 fax 907.563.9210

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
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**Batch 5L28066: Prepared 12/28/05 Using EPA 5030B**

**Matrix Spike Dup (5L28066-MSD1)**

**Source: B5L0488-05**

Benzene	18.5	0.200	ug/l	20.0	ND	92.5	63-148	6.79	20	
Chlorobenzene	19.0	0.200	"	20.0	ND	95.0	80-128	5.13	20	
1,1-Dichloroethene	17.8	0.200	"	20.0	ND	89.0	59-158	9.63	30	
Methyl tert-butyl ether	17.9	1.00	"	20.0	ND	89.5	60-140	5.96	30	
Toluene	19.4	0.200	"	20.0	ND	97.0	72-127	6.00	20	
Trichloroethene	21.0	0.200	"	20.0	3.16	89.2	80-126	6.00	20	
Surrogate: 1,2-DCA-d4	19.4		"	20.0		97.0	70-130			
Surrogate: Toluene-d8	20.1		"	20.0		100	70-130			
Surrogate: 4-BFB	20.2		"	20.0		101	70-130			

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A03005: Prepared 01/03/06 Using EPA 3520C**

**Blank (6A03005-BLK2)**

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.100	"							
:ne	ND	0.100	"							
o (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.100	"							
2-Methylnaphthalene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surrogate: Benzo (a) pyrene-d12	0.714		"	1.00		71.4	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.800		"	1.00		80.0	18-145			

**LCS (6A03005-BS2)**

Acenaphthene	14.1	1.00	ug/l	20.0		70.5	53-124			
Acenaphthylene	15.3	1.00	"	20.0		76.5	54-134			
Anthracene	15.2	1.00	"	20.0		76.0	57-133			
Benzo (a) anthracene	15.3	0.100	"	20.0		76.5	57-131			
Benzo (a) pyrene	13.9	0.100	"	20.0		69.5	50-140			
Benzo (b) fluoranthene	14.7	0.100	"	20.0		73.5	43-149			
Benzo (k) fluoranthene	16.1	0.100	"	20.0		80.5	41-150			
Benzo (ghi) perylene	14.2	1.00	"	20.0		71.0	40-140			
Chrysene	15.4	0.100	"	20.0		77.0	49-136			
Dibenz (a,h) anthracene	13.9	0.100	"	20.0		69.5	40-130			
Fluoranthene	16.1	1.00	"	20.0		80.5	57-147			
Fluorene	15.0	1.00	"	20.0		75.0	40-148			
Indeno (1,2,3-cd) pyrene	14.2	0.100	"	20.0		71.0	41-137			

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A03005: Prepared 01/03/06 Using EPA 3520C**

**LCS (6A03005-BS2)**

1-Methylnaphthalene	13.6	1.00	ug/l	20.0		68.0	43-132			
2-Methylnaphthalene	14.8	1.00	"	20.0		74.0	40-147			
Naphthalene	13.6	1.00	"	20.0		68.0	53-121			
Phenanthrene	14.8	1.00	"	20.0		74.0	44-146			
Pyrene	15.8	1.00	"	20.0		79.0	57-147			
Surrogate: Benzo (a) pyrene-d12	0.835		"	1.00		83.5	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.522		"	1.00		52.2	18-145			

**LCS Dup (6A03005-BSD2)**

Acenaphthene	1.12	1.00	ug/l	20.0		5.60	53-124	171	40	
Acenaphthylene	ND	1.00	"	20.0			54-134		40	
Anthracene	1.15	1.00	"	20.0		5.75	57-133	172	40	
Benzo (a) anthracene	1.13	0.100	"	20.0		5.65	57-131	172	40	
Benzo (a) pyrene	0.540	0.100	"	20.0		2.70	50-140	185	40	
Benzo (b) fluoranthene	2.72	0.100	"	20.0		13.6	43-149	138	40	
Benzo (k) fluoranthene	4.09	0.100	"	20.0		20.4	41-150	119	40	
Benzo (ghi) perylene	0.660	1.00	"	20.0		3.30	40-140	182	40	
Chrysene	3.43	0.100	"	20.0		17.2	49-136	127	40	
Dibenz (a,h) anthracene	3.30	0.100	"	20.0		16.5	40-130	123	40	
Fluoranthene	0.891	1.00	"	20.0		4.46	57-147	179	40	
Fluorene	5.67	1.00	"	20.0		28.4	40-148	90.3	40	
Indeno (1,2,3-cd) pyrene	1.07	0.100	"	20.0		5.35	41-137	172	40	
1-Methylnaphthalene	9.90	1.00	"	20.0		49.5	43-132	31.5	40	
2-Methylnaphthalene	10.9	1.00	"	20.0		54.5	40-147	30.4	40	
Naphthalene	10.8	1.00	"	20.0		54.0	53-121	23.0	40	
Phenanthrene	7.50	1.00	"	20.0		37.5	44-146	65.5	40	
Pyrene	0.723	1.00	"	20.0		3.62	57-147	182	40	
Surrogate: Benzo (a) pyrene-d12	8.28		"	1.00		>200 %	20-145			
Surrogate: 1-Methylnaphthalene-d10	ND		"	1.00		ND	18-145			

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 15:24

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6A09030: Prepared 01/09/06 Using EPA 3520C

**Blank (6A09030-BLK2)**

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.100	"							
Fluorene	ND	0.100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-methylnaphthalene	ND	0.100	"							
2-Methylnaphthalene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surrogate: Benzo (a) pyrene-d12	0.807		"	1.00		80.7	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.882		"	1.00		88.2	18-145			

**LCS (6A09030-BS2)**

Acenaphthene	14.3	1.00	ug/l	20.0		71.5	53-124			
Acenaphthylene	15.9	1.00	"	20.0		79.5	54-134			
Anthracene	15.3	1.00	"	20.0		76.5	57-133			
Benzo (a) anthracene	15.4	0.100	"	20.0		77.0	57-131			
Benzo (a) pyrene	15.1	0.100	"	20.0		75.5	50-140			
Benzo (b) fluoranthene	16.7	0.100	"	20.0		83.5	43-149			
Benzo (k) fluoranthene	15.3	0.100	"	20.0		76.5	41-150			
Benzo (ghi) perylene	14.8	1.00	"	20.0		74.0	40-140			
Chrysene	15.3	0.100	"	20.0		76.5	49-136			
Dibenz (a,h) anthracene	15.0	0.100	"	20.0		75.0	40-130			
Fluoranthene	16.3	1.00	"	20.0		81.5	57-147			
Fluorene	15.4	1.00	"	20.0		77.0	40-148			
Indeno (1,2,3-cd) pyrene	14.9	0.100	"	20.0		74.5	41-137			

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 907.563.9200 fax 907.563.9210

Maui Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
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**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A09030: Prepared 01/09/06 Using EPA 3520C**

**LCS (6A09030-BS2)**

1-Methylnaphthalene	13.2	1.00	ug/l	20.0		66.0	43-132			
2-Methylnaphthalene	14.5	1.00	"	20.0		72.5	40-147			
Naphthalene	13.9	1.00	"	20.0		69.5	53-121			
Phenanthrene	15.1	1.00	"	20.0		75.5	44-146			
Pyrene	15.5	1.00	"	20.0		77.5	57-147			
Surrogate: Benzo (a) pyrene-d12	0.808		"	1.00		80.8	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.504		"	1.00		50.4	18-145			

**LCS Dup (6A09030-BSD2)**

Acenaphthene	14.2	1.00	ug/l	20.0		71.0	53-124	0.702	40	
Acenaphthylene	15.6	1.00	"	20.0		78.0	54-134	1.90	40	
Anthracene	15.2	1.00	"	20.0		76.0	57-133	0.656	40	
Benzo (a) anthracene	16.1	0.100	"	20.0		80.5	57-131	4.44	40	
Benzo (a) pyrene	15.1	0.100	"	20.0		75.5	50-140	0.00	40	
Benzo (b) fluoranthene	14.5	0.100	"	20.0		72.5	43-149	14.1	40	
Benzo (k) fluoranthene	17.3	0.100	"	20.0		86.5	41-150	12.3	40	
Benzo (ghi) perylene	15.0	1.00	"	20.0		75.0	40-140	1.34	40	
Chrysene	15.7	0.100	"	20.0		78.5	49-136	2.58	40	
Dibenz (a,h) anthracene	15.0	0.100	"	20.0		75.0	40-130	0.00	40	
Fluoranthene	15.9	1.00	"	20.0		79.5	57-147	2.48	40	
Fluorene	15.0	1.00	"	20.0		75.0	40-148	2.63	40	
Indeno (1,2,3-cd) pyrene	15.0	0.100	"	20.0		75.0	41-137	0.669	40	
1-Methylnaphthalene	12.8	1.00	"	20.0		64.0	43-132	3.08	40	
2-Methylnaphthalene	14.0	1.00	"	20.0		70.0	40-147	3.51	40	
Naphthalene	13.7	1.00	"	20.0		68.5	53-121	1.45	40	
Phenanthrene	14.9	1.00	"	20.0		74.5	44-146	1.33	40	
Pyrene	15.8	1.00	"	20.0		79.0	57-147	1.92	40	
Surrogate: Benzo (a) pyrene-d12	0.844		"	1.00		84.4	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.509		"	1.00		50.9	18-145			

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Jeff Gerdes, Project Manager

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 Environmental Laboratory Network

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 15:24
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Notes and Definitions**

- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- O-08 The original extraction of this sample yielded QC recoveries outside acceptance criteria. The sample was re-extracted outside of the recommended hold time.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- S-03 The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 425-9210  
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 524-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210  
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

### CHAIN OF CUSTODY REPORT

Work Order #: **B520 109**

<b>NCA CLIENT:</b> REPORT TO: <b>Alan Hughes</b> ADDRESS: <b>7223 NE Hazel Dell Ave, Suite B</b> <b>Vancouver, WA</b> PHONE: <b>(360) 694-1091</b> FAX: <b>(360) 906-1958</b>		<b>INVOICE TO:</b>  <b>P.O. NUMBER:</b>		<b>TURNAROUND REQUEST</b> In Business Days * Organic & Inorganic Analytes <input checked="" type="checkbox"/> W <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 Petroleum Hydrocarbon Analytes <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 OTHER: _____ Analyte: _____ <small>* Turnaround Requested by this number may incur additional charges.</small>						
<b>PROJECT NAME:</b> <b>Precision Engineering</b> <b>PROJECT NUMBER:</b> <b>8006.08.04</b> <b>SAMPLED BY:</b> <b>Men Gibson</b>		<b>PRESERVATIVE:</b>		<b>REQUESTED ANALYSES</b>						
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Dissolved PP Metals	Dissolved Cr6	VOCs (limited)	MPH-DX	PAHS	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	NCA WO ID
1 MW1-122705	12/27/05 13:10	X	X	X	X	X	W	9	Cr6-field filtered	
2 MW4-122705	12/27/05 15:30	X	X	X	X	X	W	9	PP Metals need to be lab filtered	
3 MW8-122805	12/28/05 7:45	X	X	X	X	X	W	9		
4 MWDWP-122805	12/28/05 7:45	X	X	X	X	X	W	9	↓	
5 Trip Blank	12/28/05			X			W	6		
6 MW2-122805	12/28/05 9:30	X	X	X	X	X	W	9	Both PP Metals & Cr6 field filtered	
7										
8										
9										
10										
<b>RELEASED BY:</b> <i>Men Gibson</i> <b>PRINT NAME:</b> <b>Men Gibson</b> <b>FIRM:</b> <b>MFA</b> <b>RELEASED BY:</b> <i>Tom Blank</i> <b>PRINT NAME:</b> <b>Blankinship</b> <b>FIRM:</b> <b>NCA</b>		<b>DATE:</b> <b>12/20/05</b> <b>TIME:</b> <b>10:07</b> <b>DATE:</b> <b>12/28/05</b> <b>TIME:</b> <b>10:45</b>		<b>RECEIVED BY:</b> <i>Tom Blank</i> <b>PRINT NAME:</b> <b>Blankinship</b> <b>FIRM:</b> <b>NCA</b> <b>RECEIVED BY:</b> <i>Cathy Campbell</i> <b>PRINT NAME:</b> <b>Cathy Campbell</b> <b>FIRM:</b> <b>NCA</b>		<b>DATE:</b> <b>12/28/05</b> <b>TIME:</b> <b>10:07</b> <b>DATE:</b> <b>12/29/05</b> <b>TIME:</b> <b>10:45</b>				
<b>ADDITIONAL REMARKS:</b> limited VOCs include: TCE, cis-1,2-DCE, trans-1,2-DCE, Vinyl Chloride, & MEK.									<b>TEMP:</b> <b>6.0</b>	



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

## CASE NARRATIVE for B5L0627

Client: Maul Foster Alongi  
Project Manager: Alan Hughes  
Project Name: Precision Engineering  
Project Number: 8006.08.04

### 1.0 DESCRIPTION OF CASE

Four water samples were submitted on December 29, 2005 for the following analyses: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Dissolved Metals by EPA 6000/7000 Series Methods, Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection, and Conventional Chemistry Parameters by APHA/EPA Methods.

### 2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received and logged in on December 29, 2005. The samples were received at a temperature of 5.3 °C.

### 3.0 PREPARATION AND ANALYSIS

#### *Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Dissolved Metals by EPA 6000/7000 Series Methods*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Volatile Organic Compounds by EPA Method 8260B*

Sample MW6-122905 was analyzed at a dilution due to sample matrix effect. When sparged at full concentration, the sample bubbled and foamed up into the instrument.

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection*

The samples were prepared and analyzed in analytical batch 6A03005. The Blank Spike Duplicate (6A03005-BSD2) had multiple failures for target analytes and surrogates. The surrogate recovery for Benzo (a) pyrene was low for sample MW5-122805. The samples were re-extracted in analytical batches 6A09030 on January 9, 2006, and 6A14011 on January 14, 2006, which are outside of the recommended hold time. Both sets of results have been provided.

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.





**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1111  
907.563.9200 fax 907.563.9210

*Conventional Chemistry Parameters by APHA/EPA Methods*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

*Jeff Gerdes*

---

Jeff Gerdes  
Project Manager  
North Creek Analytical



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425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

27 January 2006

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665  
RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/29/05 10:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes  
Project Manager



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

**Reported:**  
01/27/06 16:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW5-122805	B5L0627-01	Water	12/28/05 11:50	12/29/05 10:25
MW7-122805	B5L0627-02	Water	12/28/05 14:50	12/29/05 10:25
MW6-122905	B5L0627-03	Water	12/29/05 09:15	12/29/05 10:25
Trip Blank	B5L0627-04	Water	12/29/05 06:00	12/29/05 10:25

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW5-122805 (B5L0627-01) Water</b> Sampled: 12/28/05 11:50 Received: 12/29/05 10:25									
Diesel Range Hydrocarbons	0.831	0.248	mg/l	1	6A04008	01/04/06	01/06/06	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	ND	0.495	"	"	"	"	"	"	
Surrogate: 2-FBP	91.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	104 %	50-150			"	"	"	"	
<b>MW7-122805 (B5L0627-02) Water</b> Sampled: 12/28/05 14:50 Received: 12/29/05 10:25									
Diesel Range Hydrocarbons	ND	0.248	mg/l	1	6A04008	01/04/06	01/06/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.495	"	"	"	"	"	"	
Surrogate: 2-FBP	89.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	102 %	50-150			"	"	"	"	
<b>MW6-122905 (B5L0627-03) Water</b> Sampled: 12/29/05 09:15 Received: 12/29/05 10:25									
Diesel Range Hydrocarbons	2.64	0.248	mg/l	1	6A04008	01/04/06	01/06/06	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	1.32	0.495	"	"	"	"	"	"	
Surrogate: 2-FBP	88.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	105 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Dissolved Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW5-122805 (BSL0627-01) Water** Sampled: 12/28/05 11:50 Received: 12/29/05 10:25

Silver	ND	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Arsenic	0.00459	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Copper	0.00367	0.00100	"	"	"	"	"	"	
Mercury	ND	0.000200	"	"	6A04049	01/04/06	01/06/06	EPA 7470A - Diss	
Nickel	0.0322	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	ND	1.00	"	1000	"	"	01/03/06	"	D-14
Thallium	ND	0.00100	"	1	"	"	12/30/05	"	
Zinc	0.0140	0.0100	"	"	"	"	"	"	

**MW5-122805 (BSL0627-01RE1) Water** Sampled: 12/28/05 11:50 Received: 12/29/05 10:25

Chromium	497	5.00	mg/l	5000	5L29033	12/29/05	01/03/06	EPA 6020 - Diss	
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**MW7-122805 (BSL0627-02) Water** Sampled: 12/28/05 14:50 Received: 12/29/05 10:25

Silver	ND	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Arsenic	0.00662	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	0.0106	0.00100	"	"	"	"	01/03/06	"	
Copper	0.00212	0.00100	"	"	"	"	12/30/05	"	
Mercury	ND	0.000200	"	"	6A04049	01/04/06	01/06/06	EPA 7470A - Diss	
Nickel	0.0118	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	0.00277	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	12/30/05	"	
Zinc	0.0108	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Dissolved Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW6-122905 (B5L0627-03) Water Sampled: 12/29/05 09:15 Received: 12/29/05 10:25

Silver	ND	0.00100	mg/l	1	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Arsenic	0.0119	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	0.0187	0.00100	"	"	"	"	01/03/06	"	
Copper	0.00402	0.00100	"	"	"	"	12/30/05	"	
Mercury	ND	0.000200	"	"	6A04049	01/04/06	01/06/06	EPA 7470A - Diss	
Nickel	0.0163	0.00100	"	"	5L29033	12/29/05	12/30/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	"	"	
Selenium	0.0123	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	12/30/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW5-122805 (BSL0627-01) Water** Sampled: 12/28/05 11:50 Received: 12/29/05 10:25

2-Butanone	34.0	2.00	ug/l	1	5L29016	12/29/05	12/29/05	EPA 8260B	
cis-1,2-Dichloroethene	2.42	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	0.260	0.200	"	"	"	"	"	"	
Trichloroethene	22.1	0.200	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

**MW7-122805 (BSL0627-02) Water** Sampled: 12/28/05 14:50 Received: 12/29/05 10:25

2-Butanone	ND	2.00	ug/l	1	5L29016	12/29/05	12/29/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	96.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	104 %	70-130			"	"	"	"	

**MW6-122905 (BSL0627-03) Water** Sampled: 12/29/05 09:15 Received: 12/29/05 10:25

D-14

2-Butanone	10.7	10.0	ug/l	5	5L29016	12/29/05	12/29/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	104 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Trip Blank (B5L0627-04) Water    Sampled: 12/29/05 06:00    Received: 12/29/05 10:25</b>										
2-Butanone	ND	2.00		ug/l	1	5L29016	12/29/05	12/29/05	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	96.5 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130				"	"	"	"	
Surrogate: 4-BFB	104 %	70-130				"	"	"	"	

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW5-122805 (BSL0627-01) Water Sampled: 12/28/05 11:50 Received: 12/29/05 10:25

X

Acenaphthene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/13/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	0.565	0.0990	"	"	"	"	"	"	
Phenanthrene	ND	0.0990	"	"	"	"	"	"	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	1.99 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	80.3 %	18-145			"	"	"	"	

MW5-122805 (BSL0627-01RE1) Water Sampled: 12/28/05 11:50 Received: 12/29/05 10:25

O-08

Acenaphthene	ND	0.0990	ug/l	1	6A09030	01/09/06	01/13/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	0.457	0.0990	"	"	"	"	"	"	

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Jeff Gerdes, Project Manager

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW5-122805 (BSL0627-01RE1) Water**    **Sampled: 12/28/05 11:50**    **Received: 12/29/05 10:25**    **O-08**

Phenanthrene	ND	0.0990	ug/l	1	6A09030	01/09/06	01/13/06	EPA 8270C-HVI	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	29.7 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	59.3 %	18-145			"	"	"	"	

**MW7-122805 (BSL0627-02) Water**    **Sampled: 12/28/05 14:50**    **Received: 12/29/05 10:25**    **X**

Acenaphthene	ND	0.100	ug/l	1	6A03005	01/03/06	01/13/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.100	"	"	"	"	"	"	
Anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.100	"	"	"	"	"	"	
Benzo (a) perylene	ND	0.0100	"	"	"	"	"	"	
Benzo (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.100	"	"	"	"	"	"	
Fluorene	ND	0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
Naphthalene	ND	0.100	"	"	"	"	"	"	
Phenanthrene	ND	0.100	"	"	"	"	"	"	
Pyrene	ND	0.100	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	79.0 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	70.7 %	18-145			"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW7-122805 (BSL0627-02RE1) Water** Sampled: 12/28/05 14:50 Received: 12/29/05 10:25 O-08

Acenaphthene	ND	0.0990	ug/l	1	6A09030	01/09/06	01/13/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	"
Anthracene	ND	0.0990	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	"
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	"
Chrysene	ND	0.00990	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	"
Fluoranthene	ND	0.0990	"	"	"	"	"	"	"
Fluorene	ND	0.0990	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	"
Naphthalene	ND	0.0990	"	"	"	"	"	"	"
Phenanthrene	ND	0.0990	"	"	"	"	"	"	"
Pyrene	ND	0.0990	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	71.5 %	20-145			"	"	"	"	"
Surrogate: 1-Methylnaphthalene-d10	72.9 %	18-145			"	"	"	"	"

**MW6-122905 (BSL0627-03) Water** Sampled: 12/29/05 09:15 Received: 12/29/05 10:25

Acenaphthene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	"
Anthracene	ND	0.0990	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	"
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	"
Chrysene	ND	0.00990	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	"
Fluoranthene	ND	0.0990	"	"	"	"	"	"	"
Fluorene	ND	0.0990	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	"
Naphthalene	ND	0.0990	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
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Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW6-122905 (B5L0627-03) Water Sampled: 12/29/05 09:15 Received: 12/29/05 10:25

Phenanthrene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/18/06	EPA 8270C-HV1	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	45.7 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	53.1 %	18-145			"	"	"	"	

MW6-122905 (B5L0627-03RE1) Water Sampled: 12/29/05 09:15 Received: 12/29/05 10:25

O-08

Acenaphthene	ND	0.0990	ug/l	1	6A14011	01/14/06	01/17/06	EPA 8270C-HV1	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	Q-38
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Benzo (p) perylene	ND	0.00990	"	"	"	"	"	"	
Benzo (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	ND	0.0990	"	"	"	"	"	"	
Phenanthrene	ND	0.0990	"	"	"	"	"	"	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	67.1 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	88.2 %	18-145			"	"	"	"	

North Creek Analytical - Bothell

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 01/27/06 16:20
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**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW5-122805 (B5L0627-01) Water</b> <b>Sampled: 12/28/05 11:50</b> <b>Received: 12/29/05 10:25</b>									
Hexavalent Chromium	450	12.5	mg/l	2000	5L29043	12/29/05	12/29/05	EPA 7196A	
<b>MW7-122805 (B5L0627-02) Water</b> <b>Sampled: 12/28/05 14:50</b> <b>Received: 12/29/05 10:25</b>									
Hexavalent Chromium	0.00738	0.00625	mg/l	1	5L29043	12/29/05	12/29/05	EPA 7196A	
<b>MW6-122905 (B5L0627-03) Water</b> <b>Sampled: 12/29/05 09:15</b> <b>Received: 12/29/05 10:25</b>									
Hexavalent Chromium	ND	0.00625	mg/l	1	5L29043	12/29/05	12/29/05	EPA 7196A	

North Creek Analytical - Bothell

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 16:20
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**Semivolatle Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A04008: Prepared 01/04/06 Using EPA 3520C**

**Blank (6A04008-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.219		"	0.250		87.6	50-150			
Surrogate: Octacosane	0.256		"	0.250		102	50-150			

**LCS (6A04008-BS1)**

Diesel Range Hydrocarbons	1.77	0.250	mg/l	2.00		88.5	58-125			
Surrogate: 2-FBP	0.203		"	0.250		81.2	50-150			

**LCS Dup (6A04008-BSD1)**

Diesel Range Hydrocarbons	1.90	0.250	mg/l	2.00		95.0	58-125	7.08	40	
Surrogate: 2-FBP	0.224		"	0.250		89.6	50-150			

**Duplicate (6A04008-DUP1)**

				<b>Source: B5L0627-01</b>						
Diesel Range Hydrocarbons	0.660	0.250	mg/l		0.831				22.9	40
Lube Oil Range Hydrocarbons	ND	0.500	"		ND				NR	40
Surrogate: 2-FBP	0.193		"	0.250		77.2	50-150			
Surrogate: Octacosane	0.248		"	0.250		99.2	50-150			

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 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29033: Prepared 12/29/05 Using EPA 3005A**

**Blank (5L29033-BLK1)**

Silver	ND	0.00100	mg/l							
Arsenic	ND	0.00100	"							
Beryllium	ND	0.00100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Copper	ND	0.00100	"							
Nickel	ND	0.00100	"							
Lead	ND	0.00100	"							
Antimony	ND	0.00300	"							
Selenium	ND	0.00100	"							
Thallium	ND	0.00100	"							
Zinc	ND	0.0100	"							

**Blank (5L29033-BLK2)**

Chromium	ND	0.00100	mg/l							
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**LCS (5L29033-BS1)**

Silver	0.208	0.00100	mg/l	0.200		104	80-120			
Arsenic	0.208	0.00100	"	0.200		104	80-120			
Beryllium	0.214	0.00100	"	0.200		107	80-120			
Cadmium	0.208	0.00100	"	0.200		104	80-120			
Chromium	0.212	0.00100	"	0.200		106	80-120			
Copper	0.206	0.00100	"	0.200		103	80-120			
Nickel	0.205	0.00100	"	0.200		102	80-120			
Lead	0.208	0.00100	"	0.200		104	80-120			
Antimony	0.0583	0.00300	"	0.0500		117	80-120			
Selenium	0.210	0.00100	"	0.200		105	80-120			
Thallium	0.208	0.00100	"	0.200		104	80-120			
Zinc	0.208	0.0100	"	0.200		104	80-120			

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 509.924.9200 fax 509.924.9290  
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 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29033: Prepared 12/29/05 Using EPA 3005A**

**LCS (5L29033-BS2)**

Chromium	0.210	0.00100	mg/l	0.200		105	80-120			
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**LCS Dup (5L29033-BSD1)**

Silver	0.208	0.00100	mg/l	0.200		104	80-120	0.00	20	
Arsenic	0.208	0.00100	"	0.200		104	80-120	0.00	20	
Beryllium	0.216	0.00100	"	0.200		108	80-120	0.930	20	
Cadmium	0.208	0.00100	"	0.200		104	80-120	0.00	20	
Chromium	0.213	0.00100	"	0.200		106	80-120	0.471	20	
Copper	0.205	0.00100	"	0.200		102	80-120	0.487	20	
Nickel	0.203	0.00100	"	0.200		102	80-120	0.980	20	
Lead	0.208	0.00100	"	0.200		104	80-120	0.00	20	
Antimony	0.0583	0.00300	"	0.0500		117	80-120	0.00	20	
um	0.211	0.00100	"	0.200		106	80-120	0.475	20	
um	0.207	0.00100	"	0.200		104	80-120	0.482	20	
Zinc	0.206	0.0100	"	0.200		103	80-120	0.966	20	

**LCS Dup (5L29033-BSD2)**

Chromium	0.210	0.00100	mg/l	0.200		105	80-120	0.00	20	
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**Matrix Spike (5L29033-MS1)**

**Source: B5L0619-01**

Silver	0.0822	0.00100	mg/l	0.100	ND	82.2	33-122			
Arsenic	0.119	0.00100	"	0.100	0.00167	117	80-128			
Beryllium	0.113	0.00100	"	0.100	ND	113	80-120			
Cadmium	0.102	0.00100	"	0.100	ND	102	68-125			
Chromium	0.101	0.00100	"	0.100	0.00113	99.9	75-125			
Copper	0.101	0.00100	"	0.101	0.00133	98.7	68-120			
Nickel	0.100	0.00100	"	0.100	0.00252	97.5	55-130			
Lead	0.107	0.00100	"	0.100	0.000120	107	77-120			
Antimony	0.0473	0.00300	"	0.0500	ND	94.6	48-125			
Selenium	0.107	0.00100	"	0.100	0.00103	106	64-143			
Thallium	0.108	0.00100	"	0.100	ND	108	78-120			
Zinc	0.106	0.0100	"	0.100	0.00495	101	77-120			

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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 907.563.9200 fax 907.563.9210

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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29033: Prepared 12/29/05 Using EPA 3005A**

**Matrix Spike (5L29033-MS2)**

Source: B5L0619-01RE1

Chromium 0.102 0.00100 mg/l 0.100 0.00626 95.7 75-125

**Matrix Spike Dup (5L29033-MSD1)**

Source: B5L0619-01

Silver	0.0787	0.00100	mg/l	0.100	ND	78.7	33-122	4.35	30	
Arsenic	0.120	0.00100	"	0.100	0.00167	118	80-128	0.837	20	
Beryllium	0.112	0.00100	"	0.100	ND	112	80-120	0.889	20	
Cadmium	0.104	0.00100	"	0.100	ND	104	68-125	1.94	20	
Chromium	0.102	0.00100	"	0.100	0.00113	101	75-125	0.985	20	
Copper	0.102	0.00100	"	0.101	0.00133	99.7	68-120	0.985	20	
Nickel	0.102	0.00100	"	0.100	0.00252	99.5	55-130	1.98	20	
Lead	0.108	0.00100	"	0.100	0.000120	108	77-120	0.930	20	
Antimony	0.0507	0.00300	"	0.0500	ND	101	48-125	6.94	20	
Selenium	0.106	0.00100	"	0.100	0.00103	105	64-143	0.939	20	
Thallium	0.108	0.00100	"	0.100	ND	108	78-120	0.00	20	
Zinc	0.106	0.0100	"	0.100	0.00495	101	77-120	0.00	20	

**Matrix Spike Dup (5L29033-MSD2)**

Source: B5L0619-01RE1

Chromium 0.102 0.00100 mg/l 0.100 0.00626 95.7 75-125 0.00 20

**Batch 6A04049: Prepared 01/04/06 Using EPA 7470A**

**Blank (6A04049-BLK1)**

Mercury ND 0.000200 mg/l

**LCS (6A04049-BS1)**

Mercury 0.00534 0.000200 mg/l 0.00500 107 80-120

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A04049: Prepared 01/04/06 Using EPA 7470A**

**LCS Dup (6A04049-BSD1)**

Mercury	0.00532	0.000200	mg/l	0.00500		106	80-120	0.375	20	
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**Duplicate (6A04049-DUP1)**

Mercury	ND	0.000200	mg/l		ND			NR	20	
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**Matrix Spike (6A04049-MS1)**

Mercury	0.00551	0.000200	mg/l	0.00500	ND	110	70-130			
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**Matrix Spike Dup (6A04049-MSD1)**

Mercury	0.00530	0.000200	mg/l	0.00500	ND	106	70-130	3.89	20	
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L29016: Prepared 12/29/05 Using EPA 5030B

Blank (5L29016-BLK1)

Acetone	ND	10.0	ug/l							
Benzene	ND	0.200	"							
Bromobenzene	ND	0.500	"							
Bromochloromethane	ND	0.200	"							
Bromodichloromethane	ND	0.200	"							
Bromoform	ND	0.200	"							
Bromomethane	ND	2.00	"							
2-Butanone	ND	2.00	"							
n-Butylbenzene	ND	0.200	"							
sec-Butylbenzene	ND	0.200	"							
tert-Butylbenzene	ND	0.500	"							
Carbon disulfide	ND	0.500	"							
Carbon tetrachloride	ND	0.200	"							
Chlorobenzene	ND	0.200	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.200	"							
Chloromethane	ND	1.00	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane	ND	0.200	"							
Dibromomethane	ND	0.200	"							
1,2-Dichlorobenzene	ND	0.200	"							
1,3-Dichlorobenzene	ND	0.200	"							
1,4-Dichlorobenzene	ND	0.200	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
1,1-Dichloroethene	ND	0.200	"							
cis-1,2-Dichloroethene	ND	0.200	"							
trans-1,2-Dichloroethene	ND	0.200	"							
1,2-Dichloropropane	ND	0.200	"							
1,3-Dichloropropane	ND	0.200	"							
2,2-Dichloropropane	ND	0.500	"							

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29016: Prepared 12/29/05 Using EPA 5030B**

**Blank (5L29016-BLK1)**

1,1-Dichloropropene	ND	0.200	ug/l							
cis-1,3-Dichloropropene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
n-Hexane	ND	1.00	"							
2-Hexanone	ND	2.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.200	"							
4-Methyl-2-pentanone	ND	2.00	"							
1,1,1-Trichloroethene	ND	5.00	"							
1,1,2-Trichloroethene	ND	0.500	"							
n-Propylbenzene	ND	0.500	"							
Styrene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	0.200	"							
1,2,4-Trichlorobenzene	ND	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.200	"							
1,1,1,2,2-Pentachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
1,1,1-Trichloroethane	ND	0.200	"							
1,1,2-Trichloroethane	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,3-Trichloropropane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	0.200	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
o-Xylene	ND	0.250	"							
m,p-Xylene	ND	0.500	"							
Surrogate: 1,2-DCA-d4	20.0		"	20.0		100	70-130			
Surrogate: Toluene-d8	19.6		"	20.0		98.0	70-130			
Surrogate: 4-BFB	20.0		"	20.0		100	70-130			

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L29016: Prepared 12/29/05 Using EPA 5030B**

**LCS (5L29016-BS1)**

Benzene	19.7	0.200	ug/l	20.0		98.5	80-120			
Chlorobenzene	20.0	0.200	"	20.0		100	77-120			
1,1-Dichloroethene	19.6	0.200	"	20.0		98.0	80-120			
Methyl tert-butyl ether	19.8	1.00	"	20.0		99.0	80-120			
Toluene	20.5	0.200	"	20.0		102	80-120			
Trichloroethene	19.5	0.200	"	20.0		97.5	80-120			
Surrogate: 1,2-DCA-d4	19.2		"	20.0		96.0	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	20.2		"	20.0		101	70-130			

**LCS Dup (5L29016-BSD1)**

Benzene	19.8	0.200	ug/l	20.0		99.0	80-120	0.506	20	
Chlorobenzene	20.4	0.200	"	20.0		102	77-120	1.98	20	
1,1-Dichloroethene	20.0	0.200	"	20.0		100	80-120	2.02	20	
Methyl tert-butyl ether	20.2	1.00	"	20.0		101	80-120	2.00	20	
Toluene	20.8	0.200	"	20.0		104	80-120	1.45	20	
Trichloroethene	19.6	0.200	"	20.0		98.0	80-120	0.512	20	
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	70-130			
Surrogate: Toluene-d8	20.1		"	20.0		100	70-130			
Surrogate: 4-BFB	20.2		"	20.0		101	70-130			

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A03005: Prepared 01/03/06 Using EPA 3520C**

**Blank (6A03005-BLK2)**

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.100	"							
ene	ND	0.100	"							
o (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.100	"							
2-Methylnaphthalene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surrogate: Benzo (a) pyrene-d12	0.714		"	1.00		71.4	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.800		"	1.00		80.0	18-145			

**LCS (6A03005-BS2)**

Acenaphthene	14.1	1.00	ug/l	20.0		70.5	53-124			
Acenaphthylene	15.3	1.00	"	20.0		76.5	54-134			
Anthracene	15.2	1.00	"	20.0		76.0	57-133			
Benzo (a) anthracene	15.3	0.100	"	20.0		76.5	57-131			
Benzo (a) pyrene	13.9	0.100	"	20.0		69.5	50-140			
Benzo (b) fluoranthene	14.7	0.100	"	20.0		73.5	43-149			
Benzo (k) fluoranthene	16.1	0.100	"	20.0		80.5	41-150			
Benzo (ghi) perylene	14.2	1.00	"	20.0		71.0	40-140			
Chrysene	15.4	0.100	"	20.0		77.0	49-136			
Dibenz (a,h) anthracene	13.9	0.100	"	20.0		69.5	40-130			
Fluoranthene	16.1	1.00	"	20.0		80.5	57-147			
Fluorene	15.0	1.00	"	20.0		75.0	40-148			
Indeno (1,2,3-cd) pyrene	14.2	0.100	"	20.0		71.0	41-137			

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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A03005: Prepared 01/03/06 Using EPA 3520C**

**LCS (6A03005-BS2)**

1-Methylnaphthalene	13.6	1.00	ug/l	20.0		68.0	43-132			
2-Methylnaphthalene	14.8	1.00	"	20.0		74.0	40-147			
Naphthalene	13.6	1.00	"	20.0		68.0	53-121			
Phenanthrene	14.8	1.00	"	20.0		74.0	44-146			
Pyrene	15.8	1.00	"	20.0		79.0	57-147			
Surrogate: Benzo (a) pyrene-d12	0.835		"	1.00		83.5	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.522		"	1.00		52.2	18-145			

**LCS Dup (6A03005-BSD2)**

Acenaphthene	1.12	1.00	ug/l	20.0		5.60	53-124	171	40	
Acenaphthylene	ND	1.00	"	20.0			54-134		40	
Anthracene	1.15	1.00	"	20.0		5.75	57-133	172	40	
Benzo (a) anthracene	1.13	0.100	"	20.0		5.65	57-131	172	40	
Benzo (a) pyrene	0.540	0.100	"	20.0		2.70	50-140	185	40	
Benzo (b) fluoranthene	2.72	0.100	"	20.0		13.6	43-149	138	40	
Benzo (k) fluoranthene	4.09	0.100	"	20.0		20.4	41-150	119	40	
Benzo (ghi) perylene	0.660	1.00	"	20.0		3.30	40-140	182	40	
Chrysene	3.43	0.100	"	20.0		17.2	49-136	127	40	
Dibenz (a,h) anthracene	3.30	0.100	"	20.0		16.5	40-130	123	40	
Fluoranthene	0.891	1.00	"	20.0		4.46	57-147	179	40	
Fluorene	5.67	1.00	"	20.0		28.4	40-148	90.3	40	
Indeno (1,2,3-cd) pyrene	1.07	0.100	"	20.0		5.35	41-137	172	40	
1-Methylnaphthalene	9.90	1.00	"	20.0		49.5	43-132	31.5	40	
2-Methylnaphthalene	10.9	1.00	"	20.0		54.5	40-147	30.4	40	
Naphthalene	10.8	1.00	"	20.0		54.0	53-121	23.0	40	
Phenanthrene	7.50	1.00	"	20.0		37.5	44-146	65.5	40	
Pyrene	0.723	1.00	"	20.0		3.62	57-147	182	40	
Surrogate: Benzo (a) pyrene-d12	8.28		"	1.00		>200 %	20-145			
Surrogate: 1-Methylnaphthalene-d10	ND		"	1.00		ND	18-145			

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 16:20
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**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A09030: Prepared 01/09/06 Using EPA 3520C**

**Blank (6A09030-BLK2)**

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.100	"							
Fluorene	ND	0.100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.100	"							
2-Methylnaphthalene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surrogate: Benzo (a) pyrene-d12	0.807		"	1.00		80.7	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.882		"	1.00		88.2	18-145			

**LCS (6A09030-BS2)**

Acenaphthene	14.3	1.00	ug/l	20.0		71.5	53-124			
Acenaphthylene	15.9	1.00	"	20.0		79.5	54-134			
Anthracene	15.3	1.00	"	20.0		76.5	57-133			
Benzo (a) anthracene	15.4	0.100	"	20.0		77.0	57-131			
Benzo (a) pyrene	15.1	0.100	"	20.0		75.5	50-140			
Benzo (b) fluoranthene	16.7	0.100	"	20.0		83.5	43-149			
Benzo (k) fluoranthene	15.3	0.100	"	20.0		76.5	41-150			
Benzo (ghi) perylene	14.8	1.00	"	20.0		74.0	40-140			
Chrysene	15.3	0.100	"	20.0		76.5	49-136			
Dibenz (a,h) anthracene	15.0	0.100	"	20.0		75.0	40-130			
Fluoranthene	16.3	1.00	"	20.0		81.5	57-147			
Fluorene	15.4	1.00	"	20.0		77.0	40-148			
Indeno (1,2,3-cd) pyrene	14.9	0.100	"	20.0		74.5	41-137			

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
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**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A09030: Prepared 01/09/06 Using EPA 3520C**

**LCS (6A09030-BS2)**

1-Methylnaphthalene	13.2	1.00	ug/l	20.0		66.0	43-132			
2-Methylnaphthalene	14.5	1.00	"	20.0		72.5	40-147			
Naphthalene	13.9	1.00	"	20.0		69.5	53-121			
Phenanthrene	15.1	1.00	"	20.0		75.5	44-146			
Pyrene	15.5	1.00	"	20.0		77.5	57-147			
Surrogate: Benzo (a) pyrene-d12	0.808		"	1.00		80.8	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.504		"	1.00		50.4	18-145			

**LCS Dup (6A09030-BSD2)**

Acenaphthene	14.2	1.00	ug/l	20.0		71.0	53-124	0.702	40	
Acenaphthylene	15.6	1.00	"	20.0		78.0	54-134	1.90	40	
Anthracene	15.2	1.00	"	20.0		76.0	57-133	0.656	40	
Benzo (a) anthracene	16.1	0.100	"	20.0		80.5	57-131	4.44	40	
Benzo (a) pyrene	15.1	0.100	"	20.0		75.5	50-140	0.00	40	
Benzo (b) fluoranthene	14.5	0.100	"	20.0		72.5	43-149	14.1	40	
Benzo (k) fluoranthene	17.3	0.100	"	20.0		86.5	41-150	12.3	40	
Benzo (ghi) perylene	15.0	1.00	"	20.0		75.0	40-140	1.34	40	
Chrysene	15.7	0.100	"	20.0		78.5	49-136	2.58	40	
Dibenz (a,h) anthracene	15.0	0.100	"	20.0		75.0	40-130	0.00	40	
Fluoranthene	15.9	1.00	"	20.0		79.5	57-147	2.48	40	
Fluorene	15.0	1.00	"	20.0		75.0	40-148	2.63	40	
Indeno (1,2,3-cd) pyrene	15.0	0.100	"	20.0		75.0	41-137	0.669	40	
1-Methylnaphthalene	12.8	1.00	"	20.0		64.0	43-132	3.08	40	
2-Methylnaphthalene	14.0	1.00	"	20.0		70.0	40-147	3.51	40	
Naphthalene	13.7	1.00	"	20.0		68.5	53-121	1.45	40	
Phenanthrene	14.9	1.00	"	20.0		74.5	44-146	1.33	40	
Pyrene	15.8	1.00	"	20.0		79.0	57-147	1.92	40	
Surrogate: Benzo (a) pyrene-d12	0.844		"	1.00		84.4	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.509		"	1.00		50.9	18-145			

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A14011: Prepared 01/14/06 Using EPA 3520C**

**Blank (6A14011-BLK1)**

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							Q-38
Benzo (ghi) perylene	ND	0.100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.100	"							
Fluorene	ND	0.100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.100	"							
2-Methylnaphthalene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surrogate: Benzo (a) pyrene-d12	0.841		"	1.00		84.1	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.931		"	1.00		93.1	18-145			

**LCS (6A14011-BS1)**

Acenaphthene	14.8	1.00	ug/l	20.0		74.0	53-124			
Acenaphthylene	16.4	1.00	"	20.0		82.0	54-134			
Anthracene	15.1	1.00	"	20.0		75.5	57-133			
Benzo (a) anthracene	15.2	0.100	"	20.0		76.0	57-131			
Benzo (a) pyrene	14.0	0.100	"	20.0		70.0	50-140			
Benzo (b) fluoranthene	14.8	0.100	"	20.0		74.0	43-149			
Benzo (k) fluoranthene	16.7	0.100	"	20.0		83.5	41-150			Q-38
Benzo (ghi) perylene	13.3	1.00	"	20.0		66.5	40-140			
Chrysene	15.0	0.100	"	20.0		75.0	49-136			
Dibenz (a,h) anthracene	11.9	0.100	"	20.0		59.5	40-130			
Fluoranthene	15.2	1.00	"	20.0		76.0	57-147			
Fluorene	15.3	1.00	"	20.0		76.5	40-148			
Indeno (1,2,3-cd) pyrene	12.5	0.100	"	20.0		62.5	41-137			

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A14011: Prepared 01/14/06 Using EPA 3520C**

**LCS (6A14011-BS1)**

1-Methylnaphthalene	15.1	1.00	ug/l	20.0		75.5	43-132			
2-Methylnaphthalene	16.7	1.00	"	20.0		83.5	40-147			
Naphthalene	14.4	1.00	"	20.0		72.0	53-121			
Phenanthrene	14.9	1.00	"	20.0		74.5	44-146			
Pyrene	18.0	1.00	"	20.0		90.0	57-147			
Surrogate: Benzo (a) pyrene-d12	0.864		"	1.00		86.4	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.770		"	1.00		77.0	18-145			

**LCS Dup (6A14011-BSD1)**

Acenaphthene	14.8	1.00	ug/l	20.0		74.0	53-124	0.00	40	
Acenaphthylene	16.7	1.00	"	20.0		83.5	54-134	1.81	40	
Anthracene	15.0	1.00	"	20.0		75.0	57-133	0.664	40	
Benzo (a) anthracene	14.9	0.100	"	20.0		74.5	57-131	1.99	40	
Benzo (a) pyrene	14.4	0.100	"	20.0		72.0	50-140	2.82	40	
Benzo (b) fluoranthene	13.9	0.100	"	20.0		69.5	43-149	6.27	40	
Benzo (k) fluoranthene	16.5	0.100	"	20.0		82.5	41-150	1.20	40	Q=38
Benzo (ghi) perylene	14.0	1.00	"	20.0		70.0	40-140	5.13	40	
Chrysene	14.6	0.100	"	20.0		73.0	49-136	2.70	40	
Dibenz (a,h) anthracene	13.4	0.100	"	20.0		67.0	40-130	11.9	40	
Fluoranthene	15.4	1.00	"	20.0		77.0	57-147	1.31	40	
Fluorene	15.0	1.00	"	20.0		75.0	40-148	1.98	40	
Indeno (1,2,3-cd) pyrene	13.7	0.100	"	20.0		68.5	41-137	9.16	40	
1-Methylnaphthalene	14.2	1.00	"	20.0		71.0	43-132	6.14	40	
2-Methylnaphthalene	15.2	1.00	"	20.0		76.0	40-147	9.40	40	
Naphthalene	14.0	1.00	"	20.0		70.0	53-121	2.82	40	
Phenanthrene	14.4	1.00	"	20.0		72.0	44-146	3.41	40	
Pyrene	15.5	1.00	"	20.0		77.5	57-147	14.9	40	
Surrogate: Benzo (a) pyrene-d12	0.709		"	1.00		70.9	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.533		"	1.00		53.3	18-145			

North Creek Analytical - Bothell

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 541.383.9310 fax 541.382.7588  
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Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B.  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:20

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5L29043: Prepared 12/29/05 Using General Preparation**

**Blank (5L29043-BLK1)**

Hexavalent Chromium ND 0.00625 mg/l

**LCS (5L29043-BS1)**

Hexavalent Chromium 0.0498 0.00625 mg/l 0.0500 99.6 90-110

**LCS Dup (5L29043-BSD1)**

Hexavalent Chromium 0.0498 0.00625 mg/l 0.0500 99.6 90-110 0.00 20

**Duplicate (5L29043-DUP1)**

Hexavalent Chromium ND 0.00625 mg/l 0.00738 29.2 25 Q-06

Source: B5L0627-02

**Matrix Spike (5L29043-MS1)**

Hexavalent Chromium 0.0518 0.00625 mg/l 0.0500 0.00738 88.8 85-115

Source: B5L0627-02

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Project: Precision Engineering  
Project Number: 8006.08.04  
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Reported:  
01/27/06 16:20

### Notes and Definitions

- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- D-14 Diluted due to matrix effect.
- O-08 The original extraction of this sample yielded QC recoveries outside acceptance criteria. The sample was re-extracted outside of the recommended hold time.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- Q-38 The internal standard associated with this analyte was biased high and outside acceptance criteria. Re-analysis verified the original result.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 14-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-986-9200 16-9210  
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7388  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-363-9200 FAX 563-9210

### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0627**

NCA CLIENT:			INVOICE TO:					TURNAROUND REQUEST																																																																																																																
REPORT TO: Alan Hughes			P.O. NUMBER:					in Business Days *																																																																																																																
ADDRESS: 7223 NE Hazel Dell Ave, Suite B Vancouver, WA 98665								Organic & Inorganic Analytes																																																																																																																
PHONE: (360) 694-7600 FAX: (360) 906-1958			PRESERVATIVE					<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12																																																																																																																
PROJECT NAME: Precision Engineering			REQUESTED ANALYSES					<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12																																																																																																																
PROJECT NUMBER: 9006.08.04			<table border="1"> <thead> <tr> <th>Disolved PP Metals</th> <th>Dissolved Cr6</th> <th>VOCs (limited)</th> <th>NMPH-N</th> <th>PAHS</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>					Disolved PP Metals	Dissolved Cr6	VOCs (limited)	NMPH-N	PAHS																	X	X	X	X	X																		X	X	X	X	X																		X	X	X	X	X																					X																			OTHER: _____			
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1 MW5-122805			12/28/05 11:50					W 9 Both PP Metals & Cr6 01																																																																																																																
2 MW7-122805			12/28/05 14:58					W 9 field filtered. 02																																																																																																																
3 MW6-122905			12/29/05 9:15					W 9 ↓ 03																																																																																																																
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425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

## CASE NARRATIVE for B5L0635

Client: Maul Foster Alongi  
Project Manager: Alan Hughes  
Project Name: Precision Engineering  
Project Number: 8006.08.04

### 1.0 DESCRIPTION OF CASE

One water sample was submitted on December 29, 2005 for the following analyses: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Dissolved Metals by EPA 6000/7000 Series Methods, Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection, and Conventional Chemistry Parameters by APHA/EPA Methods.

### 2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received and logged in on December 29, 2005. The sample was received at a temperature of 9.4 °C.

### 3.0 PREPARATION AND ANALYSIS

#### *Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Dissolved Metals by EPA 6000/7000 Series Methods*

No anomalies or discrepancies were associated with this analysis.

#### *Volatile Organic Compounds by EPA Method 8260B*

No anomalies or discrepancies were associated with this analysis.

#### *Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection*

The sample was prepared and analyzed in analytical batch 6A03005. The Blank Spike Duplicate (6A03005-BSD2) had multiple failures for target analytes and surrogates. The sample was re-extracted in analytical batch 6A14011 on January 14, 2006, which is outside of the recommended hold time. Both sets of results have been provided.

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

#### *Conventional Chemistry Parameters by APHA/EPA Methods*

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

---

Jeff Gerdes  
Project Manager  
North Creek Analytical



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

27 January 2006

Alan Hughes  
Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665  
RE: Precision Engineering

Enclosed are the results of analyses for samples received by the laboratory on 12/29/05 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes  
Project Manager





**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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907.563.9200 fax 907.563.9210

Maul Foster Alongi  
7223 NE Hazel Dell Ave., Suite B  
Vancouver, WA/USA 98665

Project: Precision Engineering  
Project Number: 8006.08.04  
Project Manager: Alan Hughes

Reported:  
01/27/06 16:53

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW3-122905	BSL0635-01	Water	12/29/05 11:00	12/29/05 15:30

Creek Analytical - Bothell

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Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

**Reported:**  
 01/27/06 16:53

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW3-122905 (BSL0635-01) Water Sampled: 12/29/05 11:00 Received: 12/29/05 15:30

Diesel Range Hydrocarbons	0.312	0.253	mg/l	1	6A04008	01/04/06	01/06/06	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	ND	0.505	"	"	"	"	"	"	"
Surrogate: 2-FBP	91.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	105 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:53

**Dissolved Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW3-122905 (B5L0635-01) Water Sampled: 12/29/05 11:00 Received: 12/29/05 15:30

Silver	ND	0.00100	mg/l	1	5L31005	12/31/05	01/03/06	EPA 6020 - Diss	
Arsenic	0.0153	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	0.00215	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Mercury	ND	0.000200	"	"	6A04049	01/04/06	01/06/06	EPA 7470A - Diss	
Nickel	0.00170	0.00100	"	"	5L31005	12/31/05	01/03/06	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	01/04/06	"	
Selenium	ND	0.00100	"	"	"	"	01/03/06	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 16:53
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**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW3-122905 (BSL0635-01) Water</b> Sampled: 12/29/05 11:00 Received: 12/29/05 15:30									
2-Butanone	ND	2.00	ug/l	1	6A03044	12/30/05	12/30/05	EPA 8260B	
cis-1,2-Dichloroethene	0.200	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:53

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW3-122905 (B5L0635-01) Water Sampled: 12/29/05 11:00 Received: 12/29/05 15:30 X

Acenaphthene	ND	0.0990	ug/l	1	6A03005	01/03/06	01/12/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.0990	"	"	"	"	"	"	
Anthracene	ND	0.0990	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00990	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00990	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00990	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0990	"	"	"	"	"	"	
Chrysene	ND	0.00990	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00990	"	"	"	"	"	"	
Fluoranthene	ND	0.0990	"	"	"	"	"	"	
Fluorene	ND	0.0990	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00990	"	"	"	"	"	"	
thylnaphthalene	ND	0.0990	"	"	"	"	"	"	
thylnaphthalene	ND	0.0990	"	"	"	"	"	"	
Naphthalene	ND	0.0990	"	"	"	"	"	"	
Phenanthrene	ND	0.0990	"	"	"	"	"	"	
Pyrene	ND	0.0990	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	66.2 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	86.9 %	18-145			"	"	"	"	

MW3-122905 (B5L0635-01RE1) Water Sampled: 12/29/05 11:00 Received: 12/29/05 15:30 O-08

Acenaphthene	ND	0.100	ug/l	1	6A14011	01/14/06	01/17/06	EPA 8270C-HVI	
Acenaphthylene	ND	0.100	"	"	"	"	"	"	
Anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0100	"	"	"	"	"	"	Q-38
Benzo (ghi) perylene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.0100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	"	"	"	"	"	"	
Fluoranthene	ND	0.100	"	"	"	"	"	"	
Fluorene	ND	0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.100	"	"	"	"	"	"	
Naphthalene	ND	0.100	"	"	"	"	"	"	

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 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	<b>Reported:</b> 01/27/06 16:53
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**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW3-122905 (B5L0635-01RE1) Water</b> <b>Sampled: 12/29/05 11:00</b> <b>Received: 12/29/05 15:30</b>									
Phenanthrene	ND	0.100	ug/l	1	6A14011	01/14/06	01/17/06	EPA 8270C-HV1	
Pyrene	ND	0.100	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	65.9 %	20-145			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d10	86.0 %	18-145			"	"	"	"	

North Creek Analytical - Bothell

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 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:53

**Conventional Chemistry Parameters by APHA/EPA Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>MW3-122905 (B5L0635-01) Water</b> <b>Sampled: 12/29/05 11:00</b> <b>Received: 12/29/05 15:30</b>										
Hexavalent Chromium	ND	0.00625		mg/l	1	5L30008	12/29/05	12/29/05	EPA 7196A	

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**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A04008: Prepared 01/04/06 Using EPA 3520C**

**Blank (6A04008-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.219		"	0.250		87.6	50-150			
Surrogate: Octacosane	0.256		"	0.250		102	50-150			

**LCS (6A04008-BS1)**

Diesel Range Hydrocarbons	1.77	0.250	mg/l	2.00		88.5	58-125			
Surrogate: 2-FBP	0.203		"	0.250		81.2	50-150			

**LCS Dup (6A04008-BSD1)**

Diesel Range Hydrocarbons	1.90	0.250	mg/l	2.00		95.0	58-125	7.08	40	
Surrogate: 2-FBP	0.224		"	0.250		89.6	50-150			

**Duplicate (6A04008-DUP1)**

				<b>Source: B5L0627-01</b>						
Diesel Range Hydrocarbons	0.660	0.250	mg/l		0.831				22.9	40
Lube Oil Range Hydrocarbons	ND	0.500	"		ND				NR	40
Surrogate: 2-FBP	0.193		"	0.250		77.2	50-150			
Surrogate: Octacosane	0.248		"	0.250		99.2	50-150			

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 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
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**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:53

**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L31005: Prepared 12/31/05 Using EPA 200 Series**

**Blank (5L31005-BLK1)**

Silver	ND	0.00100	mg/l							
Arsenic	ND	0.00100	"							
Beryllium	ND	0.00100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Copper	ND	0.00100	"							
Nickel	ND	0.00100	"							
Lead	ND	0.00100	"							
Antimony	ND	0.00300	"							
Selenium	ND	0.00100	"							
Thallium	ND	0.00100	"							
	ND	0.0100	"							

**(5L31005-BS1)**

Silver	0.202	0.00100	mg/l	0.200		101	80-120			
Arsenic	0.203	0.00100	"	0.200		102	80-120			
Beryllium	0.206	0.00100	"	0.200		103	80-120			
Cadmium	0.203	0.00100	"	0.200		102	80-120			
Chromium	0.205	0.00100	"	0.200		102	80-120			
Copper	0.201	0.00100	"	0.200		100	80-120			
Nickel	0.202	0.00100	"	0.200		101	80-120			
Lead	0.204	0.00100	"	0.200		102	80-120			
Antimony	0.0569	0.00300	"	0.0500		114	80-120			
Selenium	0.204	0.00100	"	0.200		102	80-120			
Thallium	0.204	0.00100	"	0.200		102	80-120			
Zinc	0.204	0.0100	"	0.200		102	80-120			

**LCS Dup (5L31005-BSD1)**

Silver	0.203	0.00100	mg/l	0.200		102	80-120	0.494	20	
Arsenic	0.204	0.00100	"	0.200		102	80-120	0.491	20	
Beryllium	0.212	0.00100	"	0.200		106	80-120	2.87	20	
Cadmium	0.203	0.00100	"	0.200		102	80-120	0.00	20	
Chromium	0.205	0.00100	"	0.200		102	80-120	0.00	20	
Copper	0.202	0.00100	"	0.200		101	80-120	0.496	20	
Nickel	0.203	0.00100	"	0.200		102	80-120	0.494	20	
Lead	0.205	0.00100	"	0.200		102	80-120	0.489	20	

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 Project Manager: Alan Hughes

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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L31005: Prepared 12/31/05 Using EPA 200 Series**

**LCS Dup (5L31005-BSD1)**

Antimony	0.0576	0.00300	mg/l	0.0500		115	80-120	1.22	20	
Selenium	0.203	0.00100	"	0.200		102	80-120	0.491	20	
Thallium	0.204	0.00100	"	0.200		102	80-120	0.00	20	
Zinc	0.204	0.0100	"	0.200		102	80-120	0.00	20	

**Matrix Spike (5L31005-MS1)**

**Source: B5L0635-01**

Silver	0.0568	0.00100	mg/l	0.100	ND	56.8	33-122			
Arsenic	0.127	0.00100	"	0.100	0.0153	112	80-128			
Beryllium	0.110	0.00100	"	0.100	ND	110	80-120			
Cadmium	0.104	0.00100	"	0.100	ND	104	68-125			
Chromium	0.107	0.00100	"	0.100	0.00215	105	75-125			
Copper	0.100	0.00100	"	0.101	0.000280	98.7	68-120			
Nickel	0.101	0.00100	"	0.100	0.00170	99.3	55-130			
Lead	0.106	0.00100	"	0.100	ND	106	77-120			
Antimony	0.0396	0.00300	"	0.0500	0.00242	74.4	48-125			
Selenium	0.111	0.00100	"	0.100	0.000750	110	64-143			
Thallium	0.105	0.00100	"	0.100	0.0000800	105	78-120			
Zinc	0.105	0.0100	"	0.100	0.00224	103	77-120			

**Matrix Spike Dup (5L31005-MSD1)**

**Source: B5L0635-01**

Silver	0.0534	0.00100	mg/l	0.100	ND	53.4	33-122	6.17	30	
Arsenic	0.130	0.00100	"	0.100	0.0153	115	80-128	2.33	20	
Beryllium	0.113	0.00100	"	0.100	ND	113	80-120	2.69	20	
Cadmium	0.107	0.00100	"	0.100	ND	107	68-125	2.84	20	
Chromium	0.108	0.00100	"	0.100	0.00215	106	75-125	0.930	20	
Copper	0.102	0.00100	"	0.101	0.000280	101	68-120	1.98	20	
Nickel	0.103	0.00100	"	0.100	0.00170	101	55-130	1.96	20	
Lead	0.108	0.00100	"	0.100	ND	108	77-120	1.87	20	
Antimony	0.0420	0.00300	"	0.0500	0.00242	79.2	48-125	5.88	20	
Selenium	0.112	0.00100	"	0.100	0.000750	111	64-143	0.897	20	
Thallium	0.108	0.00100	"	0.100	0.0000800	108	78-120	2.82	20	
Zinc	0.107	0.0100	"	0.100	0.00224	105	77-120	1.89	20	

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 01/27/06 16:53

**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes	
<b>Batch 6A04049: Prepared 01/04/06 Using EPA 7470A</b>									
<b>Blank (6A04049-BLK1)</b>									
Mercury	ND	0.000200	mg/l						
<b>LCS (6A04049-BS1)</b>									
Mercury	0.00534	0.000200	mg/l	0.00500		107	80-120		
<b>LCS Dup (6A04049-BSD1)</b>									
Mercury	0.00532	0.000200	mg/l	0.00500		106	80-120	0.375 20	
<b>Duplicate (6A04049-DUP1)</b>									
Mercury	ND	0.000200	mg/l		ND			NR 20	
<b>Matrix Spike (6A04049-MS1)</b>									
Mercury	0.00551	0.000200	mg/l	0.00500	ND	110	70-130		
<b>ix Spike Dup (6A04049-MSD1)</b>									
ry	0.00530	0.000200	mg/l	0.00500	ND	106	70-130	3.89 20	

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 Project Manager: Alan Hughes

Reported:  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6A03044: Prepared 12/30/05 Using EPA 5030B

**Blank (6A03044-BLK1)**

Acetone	ND	10.0	ug/l							
Benzene	ND	0.200	"							
Bromobenzene	ND	0.500	"							
Bromochloromethane	ND	0.200	"							
Bromodichloromethane	ND	0.200	"							
Bromoform	ND	0.200	"							
Bromomethane	ND	2.00	"							
2-Butanone	ND	2.00	"							
n-Butylbenzene	ND	0.200	"							
sec-Butylbenzene	ND	0.200	"							
tert-Butylbenzene	ND	0.500	"							
Carbon disulfide	ND	0.500	"							
Carbon tetrachloride	ND	0.200	"							
Chlorobenzene	ND	0.200	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.200	"							
Chloromethane	ND	1.00	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane	ND	0.200	"							
Dibromomethane	ND	0.200	"							
1,2-Dichlorobenzene	ND	0.200	"							
1,3-Dichlorobenzene	ND	0.200	"							
1,4-Dichlorobenzene	ND	0.200	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
1,1-Dichloroethene	ND	0.200	"							
cis-1,2-Dichloroethene	ND	0.200	"							
trans-1,2-Dichloroethene	ND	0.200	"							
1,2-Dichloropropane	ND	0.200	"							
1,3-Dichloropropane	ND	0.200	"							
2,2-Dichloropropane	ND	0.500	"							

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Jeff Gerdes, Project Manager

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 Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:53

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A03044: Prepared 12/30/05 Using EPA 5030B**

**Blank (6A03044-BLK1)**

1,1-Dichloropropene	ND	0.200	ug/l							
cis-1,3-Dichloropropene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
n-Hexane	ND	1.00	"							
2-Hexanone	ND	2.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.200	"							
4-Methyl-2-pentanone	ND	2.00	"							
lene chloride	ND	5.00	"							
talene	ND	0.500	"							
n-Propylbenzene	ND	0.500	"							
Styrene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	0.200	"							
1,2,4-Trichlorobenzene	ND	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.200	"							
1,1,1,2,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
1,1,1-Trichloroethane	ND	0.200	"							
1,1,2-Trichloroethane	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,3-Trichloropropane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	0.200	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
o-Xylene	ND	0.250	"							
m,p-Xylene	ND	0.500	"							
Surrogate: 1,2-DCA-d4	20.2		"	20.0		101	70-130			
Surrogate: Toluene-d8	19.6		"	20.0		98.0	70-130			
Surrogate: 4-BFB	20.9		"	20.0		104	70-130			

Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 541.383.9310 fax 541.382.7588  
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 907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 16:53
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A03044: Prepared 12/30/05 Using EPA 5030B**

**LCS (6A03044-BS1)**

Benzene	19.0	0.200	ug/l	20.0		95.0	80-120			
Chlorobenzene	19.4	0.200	"	20.0		97.0	77-120			
1,1-Dichloroethene	18.5	0.200	"	20.0		92.5	80-120			
Methyl tert-butyl ether	19.5	1.00	"	20.0		97.5	80-120			
Toluene	19.8	0.200	"	20.0		99.0	80-120			
Trichloroethene	18.8	0.200	"	20.0		94.0	80-120			
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	70-130			
Surrogate: Toluene-d8	20.1		"	20.0		100	70-130			
Surrogate: 4-BFB	20.3		"	20.0		102	70-130			

**LCS Dup (6A03044-BSD1)**

Benzene	19.8	0.200	ug/l	20.0		99.0	80-120	4.12	20	
Chlorobenzene	20.1	0.200	"	20.0		100	77-120	3.54	20	
1,1-Dichloroethene	19.3	0.200	"	20.0		96.5	80-120	4.23	20	
Methyl tert-butyl ether	20.0	1.00	"	20.0		100	80-120	2.53	20	
Toluene	20.5	0.200	"	20.0		102	80-120	3.47	20	
Trichloroethene	19.4	0.200	"	20.0		97.0	80-120	3.14	20	
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	70-130			
Surrogate: Toluene-d8	20.1		"	20.0		100	70-130			
Surrogate: 4-BFB	20.2		"	20.0		101	70-130			

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
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 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:53

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A03005: Prepared 01/03/06 Using EPA 3520C**

**Blank (6A03005-BLK2)**

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.100	"							
Fluorene	ND	0.100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.100	"							
2-Methylnaphthalene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surrogate: Benzo (a) pyrene-d12	0.714		"	1.00		71.4	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.800		"	1.00		80.0	18-145			

**LCS (6A03005-BS2)**

Acenaphthene	14.1	1.00	ug/l	20.0		70.5	53-124			
Acenaphthylene	15.3	1.00	"	20.0		76.5	54-134			
Anthracene	15.2	1.00	"	20.0		76.0	57-133			
Benzo (a) anthracene	15.3	0.100	"	20.0		76.5	57-131			
Benzo (a) pyrene	13.9	0.100	"	20.0		69.5	50-140			
Benzo (b) fluoranthene	14.7	0.100	"	20.0		73.5	43-149			
Benzo (k) fluoranthene	16.1	0.100	"	20.0		80.5	41-150			
Benzo (ghi) perylene	14.2	1.00	"	20.0		71.0	40-140			
Chrysene	15.4	0.100	"	20.0		77.0	49-136			
Dibenz (a,h) anthracene	13.9	0.100	"	20.0		69.5	40-130			
Fluoranthene	16.1	1.00	"	20.0		80.5	57-147			
Fluorene	15.0	1.00	"	20.0		75.0	40-148			
Indeno (1,2,3-cd) pyrene	14.2	0.100	"	20.0		71.0	41-137			

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

Project: Precision Engineering  
 Project Number: 8006.08.04  
 Project Manager: Alan Hughes

Reported:  
 01/27/06 16:53

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6A03005: Prepared 01/03/06 Using EPA 3520C

**LCS (6A03005-BS2)**

1-Methylnaphthalene	13.6	1.00	ug/l	20.0		68.0	43-132			
2-Methylnaphthalene	14.8	1.00	"	20.0		74.0	40-147			
Naphthalene	13.6	1.00	"	20.0		68.0	53-121			
Phenanthrene	14.8	1.00	"	20.0		74.0	44-146			
Pyrene	15.8	1.00	"	20.0		79.0	57-147			
Surrogate: Benzo (a) pyrene-d12	0.835		"	1.00		83.5	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.522		"	1.00		52.2	18-145			

**LCS Dup (6A03005-BSD2)**

Acenaphthene	1.12	1.00	ug/l	20.0		5.60	53-124	171	40	
Acenaphthylene	ND	1.00	"	20.0			54-134		40	
Anthracene	1.15	1.00	"	20.0		5.75	57-133	172	40	
Benzo (a) anthracene	1.13	0.100	"	20.0		5.65	57-131	172	40	
Benzo (a) pyrene	0.540	0.100	"	20.0		2.70	50-140	185	40	
Benzo (b) fluoranthene	2.72	0.100	"	20.0		13.6	43-149	138	40	
Benzo (k) fluoranthene	4.09	0.100	"	20.0		20.4	41-150	119	40	
Benzo (ghi) perylene	0.660	1.00	"	20.0		3.30	40-140	182	40	
Chrysene	3.43	0.100	"	20.0		17.2	49-136	127	40	
Dibenz (a,h) anthracene	3.30	0.100	"	20.0		16.5	40-130	123	40	
Fluoranthene	0.891	1.00	"	20.0		4.46	57-147	179	40	
Fluorene	5.67	1.00	"	20.0		28.4	40-148	90.3	40	
Indeno (1,2,3-cd) pyrene	1.07	0.100	"	20.0		5.35	41-137	172	40	
1-Methylnaphthalene	9.90	1.00	"	20.0		49.5	43-132	31.5	40	
2-Methylnaphthalene	10.9	1.00	"	20.0		54.5	40-147	30.4	40	
Naphthalene	10.8	1.00	"	20.0		54.0	53-121	23.0	40	
Phenanthrene	7.50	1.00	"	20.0		37.5	44-146	65.5	40	
Pyrene	0.723	1.00	"	20.0		3.62	57-147	182	40	
Surrogate: Benzo (a) pyrene-d12	8.28		"	1.00		>200 %	20-145			
Surrogate: 1-Methylnaphthalene-d10	ND		"	1.00		ND	18-145			

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*Jeff Gerdes*

Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
 509.924.9200 fax 509.924.9290  
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588  
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
 907.563.9200 fax 907.563.9210

Maul Foster Alongi  
 7223 NE Hazel Dell Ave., Suite B  
 Vancouver, WA/USA 98665

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 01/27/06 16:53

**Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6A14011: Prepared 01/14/06 Using EPA 3520C

**Blank (6A14011-BLKI)**

Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.100	"							Q-38
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.100	"							
Fluorene	ND	0.100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
1-Methylnaphthalene	ND	0.100	"							
2-Methylnaphthalene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
Surrogate: Benzo (a) pyrene-d12	0.841		"	1.00		84.1	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.931		"	1.00		93.1	18-145			

**LCS (6A14011-BS1)**

Acenaphthene	14.8	1.00	ug/l	20.0		74.0	53-124			
Acenaphthylene	16.4	1.00	"	20.0		82.0	54-134			
Anthracene	15.1	1.00	"	20.0		75.5	57-133			
Benzo (a) anthracene	15.2	0.100	"	20.0		76.0	57-131			
Benzo (a) pyrene	14.0	0.100	"	20.0		70.0	50-140			
Benzo (b) fluoranthene	14.8	0.100	"	20.0		74.0	43-149			
Benzo (k) fluoranthene	16.7	0.100	"	20.0		83.5	41-150			Q-38
Benzo (ghi) perylene	13.3	1.00	"	20.0		66.5	40-140			
Chrysene	15.0	0.100	"	20.0		75.0	49-136			
Dibenz (a,h) anthracene	11.9	0.100	"	20.0		59.5	40-130			
Fluoranthene	15.2	1.00	"	20.0		76.0	57-147			
Fluorene	15.3	1.00	"	20.0		76.5	40-148			
Indeno (1,2,3-cd) pyrene	12.5	0.100	"	20.0		62.5	41-137			

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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
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 509.924.9200 fax 509.924.9290  
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 907.563.9200 fax 907.563.9210

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**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6A14011: Prepared 01/14/06 Using EPA 3520C**

**LCS (6A14011-BS1)**

1-Methylnaphthalene	15.1	1.00	ug/l	20.0		75.5	43-132			
2-Methylnaphthalene	16.7	1.00	"	20.0		83.5	40-147			
Naphthalene	14.4	1.00	"	20.0		72.0	53-121			
Phenanthrene	14.9	1.00	"	20.0		74.5	44-146			
Pyrene	18.0	1.00	"	20.0		90.0	57-147			
Surrogate: Benzo (a) pyrene-d12	0.864		"	1.00		86.4	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.770		"	1.00		77.0	18-145			

**LCS Dup (6A14011-BSD1)**

Acenaphthene	14.8	1.00	ug/l	20.0		74.0	53-124	0.00	40	
Acenaphthylene	16.7	1.00	"	20.0		83.5	54-134	1.81	40	
Anthracene	15.0	1.00	"	20.0		75.0	57-133	0.664	40	
Benzo (a) anthracene	14.9	0.100	"	20.0		74.5	57-131	1.99	40	
Benzo (a) pyrene	14.4	0.100	"	20.0		72.0	50-140	2.82	40	
Benzo (b) fluoranthene	13.9	0.100	"	20.0		69.5	43-149	6.27	40	
Benzo (k) fluoranthene	16.5	0.100	"	20.0		82.5	41-150	1.20	40	Q-38
Benzo (ghi) perylene	14.0	1.00	"	20.0		70.0	40-140	5.13	40	
Chrysene	14.6	0.100	"	20.0		73.0	49-136	2.70	40	
Dibenz (a,h) anthracene	13.4	0.100	"	20.0		67.0	40-130	11.9	40	
Fluoranthene	15.4	1.00	"	20.0		77.0	57-147	1.31	40	
Fluorene	15.0	1.00	"	20.0		75.0	40-148	1.98	40	
Indeno (1,2,3-cd) pyrene	13.7	0.100	"	20.0		68.5	41-137	9.16	40	
1-Methylnaphthalene	14.2	1.00	"	20.0		71.0	43-132	6.14	40	
2-Methylnaphthalene	15.2	1.00	"	20.0		76.0	40-147	9.40	40	
Naphthalene	14.0	1.00	"	20.0		70.0	53-121	2.82	40	
Phenanthrene	14.4	1.00	"	20.0		72.0	44-146	3.41	40	
Pyrene	15.5	1.00	"	20.0		77.5	57-147	14.9	40	
Surrogate: Benzo (a) pyrene-d12	0.709		"	1.00		70.9	20-145			
Surrogate: 1-Methylnaphthalene-d10	0.533		"	1.00		53.3	18-145			

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 425.420.9200 fax 425.420.9210  
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5L30008: Prepared 12/29/05 Using General Preparation**

**Blank (5L30008-BLK1)**

Hexavalent Chromium	ND	0.00625	mg/l							
---------------------	----	---------	------	--	--	--	--	--	--	--

**LCS (5L30008-BS1)**

Hexavalent Chromium	0.0498	0.00625	mg/l	0.0500		99.6	90-110			
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**LCS Dup (5L30008-BSD1)**

Hexavalent Chromium	0.0498	0.00625	mg/l	0.0500		99.6	90-110	0.00	20	
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**Duplicate (5L30008-DUP1)**

Hexavalent Chromium	ND	0.00625	mg/l		Source: B5L0635-01 ND			0.00	25	
---------------------	----	---------	------	--	--------------------------	--	--	------	----	--

**Matrix Spike (5L30008-MS1)**

Hexavalent Chromium	0.00350	0.00625	mg/l	0.0500	Source: B5L0635-01 0.00162	3.76	85-115			Q-02
---------------------	---------	---------	------	--------	-------------------------------	------	--------	--	--	------

North Creek Analytical - Bothell

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Jeff Gerdes*

Jeff Gerdes, Project Manager

North Creek Analytical, Inc.  
Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210

**Spokane** 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302  
509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

**Anchorage** 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119  
907.563.9200 fax 907.563.9210

Maul Foster Alongi 7223 NE Hazel Dell Ave., Suite B Vancouver, WA/USA 98665	Project: Precision Engineering Project Number: 8006.08.04 Project Manager: Alan Hughes	Reported: 01/27/06 16:53
-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-----------------------------

**Notes and Definitions**

- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- O-08 The original extraction of this sample yielded QC recoveries outside acceptance criteria. The sample was re-extracted outside of the recommended hold time.
- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-38 The internal standard associated with this analyte was biased high and outside acceptance criteria. Re-analysis verified the original result.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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North Creek Analytical, Inc.  
Environmental Laboratory Network



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210  
 11922 E 1st Ave, Spokane, WA 99206-5302 509-824-9200 FAX 924-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210  
 20332 Bourke Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

### CHAIN OF CUSTODY REPORT

Work Order #: **B5L0635**

NCA CLIENT:		INVOICE TO:		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 OTHER Specify: _____ <small>* Turnaround Request for this method may have different charges.</small>							
REPORT TO: <b>Alan Hughes</b>		P.O. NUMBER:									
ADDRESS: <b>7223 NE Hazel Dell Ave. Vancouver WA 90665</b>											
PHONE:	FAX:										
PROJECT NAME: <b>Precision Engineering</b>		PRESERVATIVE:									
PROJECT NUMBER: <b>8006.08.04</b>		REQUESTED ANALYSES:									
SAMPLED BY: <b>Meri Gibson</b>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Ascoloc	PP Metals	Ascoloc Cr6	VOLs (limited)	NUMBY	PARS	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 MW3-122905	12/29/05 11:00	X	X	X	X	X	X	W	9	Metals Field Filtered -OL	
2											
3											
4											
5											
6											
7											
8											
9											
10											
RELEASED BY: <b>Meri Gibson</b>		DATE: <b>12/29/05</b>		RECEIVED BY: <b>Tom Blanks</b>		DATE: <b>12/29/05</b>					
PRINT NAME: <b>Meri Gibson</b>		FIRM: <b>MEF</b>		TIME: <b>13:50</b>		PRINT NAME: <b>Blankship</b>		FIRM: <b>NCA</b>		TIME: <b>1330</b>	
RELEASED BY: <b>Tom Blanks</b>		DATE: <b>12/29/05</b>		RECEIVED BY: <b>Pranly Tantz</b>		DATE: <b>12/29/05</b>					
PRINT NAME: <b>Tom Blanks</b>		FIRM: <b>MEF</b>		TIME: <b>1530</b>		PRINT NAME: <b>PRANLY TANTZ</b>		FIRM: <b>NCA</b>		TIME: <b>1530</b>	
ADDITIONAL REMARKS:										TEMP: <b>9.1</b>	
COO 09/04											

Samples were not @ 2-00 up

**APPENDIX E**  
**DATA VALIDATION MEMORANDUMS**

# DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

## PRECISION ENGINEERING Supplemental Remedial Investigation 8006.08.04

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This report reviews the analytical results for samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the Precision Engineering, Inc. site at 1231 S. Director Street in Seattle, Washington. The samples were collected in December 2005.

The samples were analyzed by North Creek Analytical, Inc. (NCA), Bothell, WA. NCA report numbers B5L0339 and B5L0418 were reviewed. The analyses performed are listed below.

Analysis	Reference
Volatile Organic Compounds (VOCs)	USEPA 5030/8260B
Polynuclear Aromatic Hydrocarbons (PAHs)	USEPA 8270 SIM
Total Metals	USEPA 6020/7471
Total Hexavalent Chromium	USEPA 7196
pH	USEPA 9045C
Oxidation/Reduction Potential (ORP)	SM 2580B Modified
Extractable Petroleum Hydrocarbons (EPH)	NWTPH-EPH
Gasoline Range Hydrocarbons	NWTPH-Gx
Diesel and Lube Oil Range Hydrocarbons	NWTPH-Dx

USEPA = U.S. Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbons

SM = Standard Methods for the Examination of Water and Wastewater

SIM = Selected Ion Monitoring

### DATA QUALIFICATIONS

Analytical results were evaluated according to applicable parts of USEPA procedures (USEPA, 1994, 1999), and appropriate laboratory and method-specific guidelines (NCA, 2005; USEPA, 1986). Data validation procedures were modified, as appropriate, to accommodate quality control requirements for methods not specifically addressed by the functional guidelines (i.e. NWTPH).

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. No target analytes were detected above the NCA reporting limits (RLs).

### **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 due to dilutions necessary to quantify high concentrations of target analytes present in the samples.

### **Matrix Spike/Matrix Spike Duplicate Results**

MS/MSD results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency.

For organics analysis, isolated percent recoveries were outside acceptance limits due to 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 spiked analyte.



In accordance with the EPA Functional Guidelines for Organics Data Review, the reviewer took no action based on the MS/MSD outliers alone for organic parameters. All other batch QC was within acceptance limits.

MS/MSD percent recoveries for hexavalent chromium were significantly below acceptance limits. In accordance with USEPA Method 7196a, extracts that yielded MS/MSD percent recoveries of less than 85% were reanalyzed to determine if the low spike recoveries were due to the presence of residual reducing agent by first making aliquots of the extracts alkaline (pH 8.0-8.5) and then respiking and analyzing. MS/MSD percent recoveries for the reanalyses were acceptable, indicating a reducing condition in the original samples. Several representative samples were analyzed for pH and ORP; confirming the reducing condition. Due to extremely low percent recoveries for hexavalent chromium in the MS/MSD analyses caused by the reducing condition, hexavalent chromium results were qualified as estimated (J) or (UJ) as summarized below.

Sample	Analyte	Original Result (mg/kg)	Qualified Result (mg/kg)
GP25-S-1.0	Hexavalent Chromium	1.8 U	1.8 UJ
GP25-S-7.0	Hexavalent Chromium	1.7 U	1.7 UJ
GP26-S-1.0	Hexavalent Chromium	2.2 U	2.2 UJ
GP26-S-9.5	Hexavalent Chromium	2.1 U	2.1 UJ
GP27-S-1.0	Hexavalent Chromium	2.2 U	2.2 UJ
GP27-S-13.0	Hexavalent Chromium	2.1 U	2.1 UJ
GP28-S-1.0	Hexavalent Chromium	2.2 U	2.2 UJ
GP28-S-7.0	Hexavalent Chromium	1.8 U	1.8 UJ
GP29-S-1.0	Hexavalent Chromium	2.4 U	2.4 UJ
GP29-S-6.0	Hexavalent Chromium	2.6 U	2.6 UJ
GP30-S-1.0	Hexavalent Chromium	2.1 U	2.1 UJ
GP30-S-6.0	Hexavalent Chromium	2.4 U	2.4 UJ
GPDUP-S-1.0	Hexavalent Chromium	2.0 U	2.0 UJ
GP19-S-7.0	Hexavalent Chromium	2.7 U	2.7 UJ
GP16-S-1.0	Hexavalent Chromium	2.1 U	2.1 UJ
GP16-S-5.0	Hexavalent Chromium	2.1 U	2.1 UJ
GP14-S-3.0	Hexavalent Chromium	2.0 U	2.0 UJ
GP22-S-10.0	Hexavalent Chromium	1.3 U	1.3 UJ
GP12-S-3.0	Hexavalent Chromium	1.1 U	1.1 UJ
GP12-S-5.0	Hexavalent Chromium	1.0 U	1.0 UJ
GP15-S-3.0	Hexavalent Chromium	1.2 U	1.2 UJ
GP15-S-6.0	Hexavalent Chromium	1.2 U	1.2 UJ
GP31-S-1.0	Hexavalent Chromium	2.1 U	2.1 UJ
GP31-S-6.0	Hexavalent Chromium	3.0 U	3.0 UJ
GP17-S-1.0	Hexavalent Chromium	1.7 U	1.7 UJ
GP17-S-6.0	Hexavalent Chromium	60	60 J
GP19-S-1.0	Hexavalent Chromium	2.5 U	2.5 UJ

Sample	Analyte	Original Result (mg/kg)	Qualified Result (mg/kg)
GP14-S-6.0	Hexavalent Chromium	1.2	1.2 J
GP18-S-1.0	Hexavalent Chromium	2300	2300 J
GP22-S-1.0	Hexavalent Chromium	2.9	2.9 J
GP13-S-1.0	Hexavalent Chromium	1.4 U	1.4 UJ
GP13-S-6.0	Hexavalent Chromium	1.3 U	1.3 UJ
GP21-S-1.0	Hexavalent Chromium	1.0 U	1.0 UJ
GP21-S-6.5	Hexavalent Chromium	1.3 U	1.3 UJ
GP24-S-3.0	Hexavalent Chromium	1.0 U	1.0 UJ
GPDUP-S-3.0	Hexavalent Chromium	1.1 U	1.1 UJ
GP20-S-1.0	Hexavalent Chromium	1.1 U	1.1 UJ
GP20-S-6.0	Hexavalent Chromium	1.5 U	1.5 UJ
GP32-S-1.0	Hexavalent Chromium	3500	3500 J
GP23-S-7.0	Hexavalent Chromium	1.1 U	1.1 UJ
GP23-S-10.5	Hexavalent Chromium	1.2 U	1.2 UJ
GP24-S-6.5	Hexavalent Chromium	2.4 U	2.4 UJ
HA1-0.5	Hexavalent Chromium	2.9 U	2.9 UJ
HA1-1.5	Hexavalent Chromium	6.5	6.5 J
HA2-0.5	Hexavalent Chromium	89	89 J
HA2-1.5	Hexavalent Chromium	3.2	3.2 J
HA5-1.5	Hexavalent Chromium	2.9 U	2.9 UJ
HA-DUP	Hexavalent Chromium	2.8 U	2.8 UJ
HA3-0.5	Hexavalent Chromium	2.6 U	2.6 UJ
HA3-1.5	Hexavalent Chromium	2.4 U	2.4 UJ
HA4-0.5	Hexavalent Chromium	7.2 U	7.2 UJ
HA4-1.5	Hexavalent Chromium	3.0 U	3.0 UJ
HA5-0.5	Hexavalent Chromium	5.8 U	5.8 UJ

All other percent recoveries and relative percent differences were acceptable.

#### 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 accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency. Except for minor outliers, all percent recoveries and relative percent differences were acceptable. The reviewer took no action based on the minor outliers.

## Laboratory Duplicate Results

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. All RPDs were within acceptance limits.

## Field Duplicate Results

Field duplicate samples measure both field and laboratory precision. Three field duplicate pairs were submitted for analysis (GP19-S-1.0/GPDUP-S-1.0, GP24-S-3.0/GPDUP-S-3.0, and HA1-1.5/HA-DUP).

### Field Duplicate Positive Results Comparison

Analyte	Units	Primary Sample (HA1-1.5)	Duplicate Sample (HA-DUP)	RPD
<b>Arsenic</b>	mg/L	2.88	8.35	<b>97</b>
Chromium	mg/L	110	84.5	26
<b>Copper</b>	mg/L	16.2	68.4	<b>123</b>
<b>Lead</b>	mg/L	15.3	95.3	<b>145</b>
<b>Nickel</b>	mg/L	24.7	108	<b>125</b>
<b>Zinc</b>	mg/L	70.8	293	<b>122</b>

MFA uses acceptance criteria of 100 percent RPD for results that are less than five times the RL, or 50 percent RPD for results that are greater than five times the RL. Non-detect data is not used in the evaluation of field duplicate results. Due to poor RPD values for the above analytes (in bold), the reviewer qualified results as estimated (J) for samples HA1-1.5 and HA-DUP.

## Reporting Limits

NCA used routine RLs to quantify results, except where necessary due to dilution.

## Data Package

The data packages were reviewed for transcription errors, omissions, or anomalies. None was found.

## REFERENCES

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- North Creek Analytical, Inc. Quality assurance manual, Revision 15. North Creek Analytical, Inc., Bothell, Washington. February, 2005.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA-530/SW-846. September (update 1, July 1992; update 2a, August 1993; update 2, September 1994; update 2b, January 1995).
- USEPA. 1994. USEPA contract laboratory program, national functional guidelines for inorganics data review. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. EPA 540/R-94/013. February.
- USEPA. 1999. USEPA contract laboratory program, national functional guidelines for organics data review. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. EPA 540/R-99/008. October.
- American Public Health Association (APHA), American Water Works Association (AWWA), Water Environment Federation (WEF). 1992. Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> Ed.

# DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

## PRECISION ENGINEERING Groundwater Assessment, December 2005 8006.08.04

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This report reviews the analytical results for groundwater samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the Precision Engineering, Inc. site at 1231 S. Director Street in Seattle, Washington. The samples were collected in December 2005.

North Creek Analytical of Seattle, Washington performed the analyses. NCA report numbers B5L0609, B5L0627, and B5L0635 were reviewed. The analyses performed are listed below.

Analysis	Reference
Semivolatile Organic Compounds	USEPA 8270C
Volatile Organic Compounds (VOCs)	USEPA 8260B
Dissolved Metals	USEPA 6000/7000 Series
Hexavalent Chromium	USEPA 7196A
Diesel and Motor Oil	NWTPH-Dx

USEPA = U.S. Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbons

### DATA QUALIFICATIONS

Analytical results were evaluated according to applicable parts of USEPA procedures (USEPA, 1994, 1999), and appropriate laboratory and method-specific guidelines (NCA, 2005; USEPA, 1986). Data validation procedures were modified, as appropriate, to accommodate quality control requirements for methods not specifically addressed by the functional guidelines (i.e. NWTPH).

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 with the following exception. The blank spike duplicate had low surrogate and analyte recovery during analysis by USEPA Method 8270C. Sample was reanalyzed out of hold time. Based on all other batch QC being within NCA acceptance limits, reviewer took no action. Reanalyzed samples will be used for reporting.

### **Preservation and Sample Storage**

The samples were preserved and stored appropriately, except for samples associated with lab report number B5L0635. Samples arrived at laboratory with a temperature of 9.4 degrees Celsius. Reviewer took no action based on exceedance being minor.

### **Blanks**

#### **Method Blanks**

Laboratory method blank analyses were performed at the required frequencies. No target analytes were detected above the NCA method reporting limits (MRLs).

### **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 due to dilutions necessary to quantify high concentrations of target analytes present in the samples.

### **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. Except for minor outliers, all percent recoveries and relative percent differences were acceptable. The reviewer took no action based on the outliers being minor.

### **Blank Spike/Blank Spike Duplicate Results**

A blank spike/blank spike duplicate (BS/BSD) is spiked with target analytes to provide information on laboratory accuracy. The BS/BSD samples were extracted and analyzed at

the required frequency. Except for minor outliers, all percent recoveries and relative percent differences were acceptable. The reviewer took no action based on the outliers being minor.

### **Laboratory Duplicate Results**

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. All RPDs were within acceptance limits.

### **Field Duplicate Results**

Field duplicate samples measure both field and laboratory precision. One field duplicate was submitted for analysis (MW8-122805/MWDup-122805). MFA uses acceptance criteria of 100 percent RPD for results that are less than five times the reporting limit (RL), or 50 percent RPD for results that are greater than five times the RL. Non-detect data are not used in the evaluation of field duplicate results. All analytes were within the acceptance criteria.

### **Reporting Limits**

NCA used routine MRLs to quantify results, except where necessary due to dilution.

### **Data Package**

The data packages were reviewed for transcription errors, omissions, or anomalies. None was found.

## REFERENCES

---

NCA. 2004. Quality assurance manual. Rev. 12. North Creek Analytical, Inc., Seattle, Washington. February.

USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA-530/SW-846. September (update 1, July 1992; update 2a, August 1993; update 2, September 1994; update 2b, January 1995).

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

USEPA. 1999. USEPA contract laboratory program, national functional guidelines for organics data review. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. EPA 540/R-99/008. October.



**APPENDIX F**

**SOIL CLEANUP LEVEL FOR PROTECTION OF GROUNDWATER**

**Table F-1**  
**MTCA Method C Protection of Potable Groundwater Cleanup Level Calculations**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Analyte	Method C Groundwater CULs (ug/L)	Unit Conversion Factor* (ug to mg)	Dilution Factor* (unitless)	Organic Carbon-Water Partitioning Factor (K <sub>oc</sub> ) (L/kg)	Fraction Soil Organic Carbon* (unitless)	Volumetric Water Content* (unitless)	Volumetric Air Content* (unitless)	Henry's Law Constant (H <sub>cc</sub> ) (unitless)	Dry Soil Bulk Density* (kg/L)	Soil CUL for Protection of Potable Groundwater (mg/kg)
<b>Metals</b>										
Antimony	14	0.001	20	4.5E+01	1	0.3	0.13	0.0E+00	1.5	1.27E+01
Arsenic <sup>a</sup>	--	--	--	--	--	--	--	--	--	--
Beryllium	70	0.001	20	7.9E+02	1	0.3	0.13	0.0E+00	1.5	1.11E+03
Cadmium	35	0.001	20	6.7E+00	1	0.3	0.13	0.0E+00	1.5	4.83E+00
Chromium	--	--	--	--	--	--	--	--	--	--
Chromium III	53,000	0.001	20	1.0E+03	1	0.3	0.13	0.0E+00	1.5	1.06E+06
Chromium VI	110	0.001	20	1.9E+01	1	0.3	0.13	0.0E+00	1.5	4.22E+01
Copper	1,300	0.001	20	2.2E+01	1	0.3	0.13	0.0E+00	1.5	5.77E+02
Lead <sup>b</sup>	15	0.001	20	1.0E+03	1	0.3	0.13	0.0E+00	1.5	3.00E+02
Mercury	11	0.001	20	5.2E+01	1	0.3	0.13	4.7E-01	1.5	1.15E+01
Nickel	700	0.001	20	6.5E+01	1	0.3	0.13	0.0E+00	1.5	9.13E+02
Selenium	180	0.001	20	5.0E+00	1	0.3	0.13	0.0E+00	1.5	1.87E+01
Silver	180	0.001	20	8.3E+00	1	0.3	0.13	0.0E+00	1.5	3.06E+01
Thallium	2.5	0.001	20	7.1E+01	1	0.3	0.13	0.0E+00	1.5	3.56E+00
Zinc	11,000	0.001	20	6.2E+01	1	0.3	0.13	0.0E+00	1.5	1.37E+04
<b>Polycyclic Aromatic Hydrocarbons</b>										
2-Chloronaphthalene	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	70	--	--	--	--	--	--	--	--	--
Acenaphthene	2,100	0.001	20	4.9E+03	0.001	0.3	0.13	6.4E-03	1.5	2.14E+02
Acenaphthylene	--	--	--	--	--	--	--	--	--	--
Anthracene	11,000	0.001	20	2.3E+03	0.001	0.3	0.13	2.7E-03	1.5	5.50E+02
Benz(a)anthracene	0.12	0.001	20	3.6E+05	0.001	0.3	0.13	1.4E-04	1.5	8.64E-01
Benzo(a)pyrene	0.12	0.001	20	9.7E+05	0.001	0.3	0.13	4.6E-05	1.5	2.33E+00
Benzo(b)fluoranthene	0.12	0.001	20	1.2E+06	0.001	0.3	0.13	4.6E-03	1.5	2.88E+00
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.12	0.001	20	1.2E+06	0.001	0.3	0.13	3.4E-05	1.5	2.88E+00
Chrysene	0.12	0.001	20	4.0E+05	0.001	0.3	0.13	3.9E-03	1.5	9.60E-01
Dibenz(a,h)anthracene	0.12	0.001	20	1.8E+06	0.001	0.3	0.13	6.0E-07	1.5	4.32E+00
Fluoranthene	1,400	0.001	20	4.9E+04	0.001	0.3	0.13	6.6E-04	1.5	1.38E+03
Fluorene	1,400	0.001	20	7.7E+03	0.001	0.3	0.13	2.6E-03	1.5	2.21E+02
Indeno(1,2,3-cd)pyrene	0.12	0.001	20	3.5E+06	0.001	0.3	0.13	6.6E-05	1.5	8.40E+00
Naphthalene	350	0.001	20	1.2E+03	0.001	0.3	0.13	2.0E-02	1.5	9.81E+00
Phenanthrene	--	--	--	--	--	--	--	--	--	--
Pyrene	1,100	0.001	20	6.8E+04	0.001	0.3	0.13	4.5E-04	1.5	1.50E+03

**Table F-1**  
**MTCA Method C Protection of Potable Groundwater Cleanup Level Calculations**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Analyte	Method C Groundwater CULs (ug/L)	Unit Conversion Factor* (ug to mg)	Dilution Factor* (unitless)	Organic Carbon-Water Partitioning Factor (K <sub>oc</sub> ) (L/kg)	Fraction Soil Organic Carbon* (unitless)	Volumetric Water Content* (unitless)	Volumetric Air Content* (unitless)	Henry's Law Constant (H <sub>cc</sub> ) (unitless)	Dry Soil Bulk Density* (kg/L)	Soil CUL for Protection of Potable Groundwater (mg/kg)
<b>Volatile Organic Compounds</b>										
1,1,1,2-Tetrachloroethane	17	0.001	20	9.3E+01	0.001	0.3	0.13	1.4E-02	1.5	1.00E-01
1,1,1-Trichloroethane (TCA)	16,000	0.001	20	1.4E+02	0.001	0.3	0.13	7.1E-01	1.5	1.28E+02
1,1,2,2-Tetrachloroethane	2.2	0.001	20	7.9E+01	0.001	0.3	0.13	1.4E-02	1.5	1.23E-02
1,1,2-Trichloroethane	7.7	0.001	20	7.5E+01	0.001	0.3	0.13	3.7E-02	1.5	4.28E-02
1,1-Dichloroethane (1,1-DCA)	1,800	0.001	20	5.3E+01	0.001	0.3	0.13	2.3E-01	1.5	9.83E+00
1,1-Dichloroethene (1,1-DCE)	880	0.001	20	6.5E+01	0.001	0.3	0.13	1.1E+00	1.5	6.34E+00
1,1-Dichloropropene	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	0.063	0.001	20	5.1E+01	0.001	0.3	0.13	1.4E-02	1.5	3.18E-04
1,2,4-Trichlorobenzene	180	0.001	20	1.7E+03	0.001	0.3	0.13	5.8E-02	1.5	6.86E+00
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	0.31	0.001	20	1.3E+02	0.001	0.3	0.13	6.0E-03	1.5	2.05E-03
1,2-Dibromoethane (EDB)	0.0051	0.001	20	6.6E+01	0.001	0.3	0.13	1.3E-02	1.5	2.72E-05
1,2-Dichlorobenzene	1600	0.001	20	3.8E+02	0.001	0.3	0.13	7.8E-02	1.5	1.88E+01
1,2-Dichloroethane (EDC)	4.8	0.001	20	3.8E+01	0.001	0.3	0.13	4.0E-02	1.5	2.32E-02
1,2-Dichloropropane	6.4	0.001	20	4.7E+01	0.001	0.3	0.13	1.2E-01	1.5	3.29E-02
1,3,5-Trimethylbenzene	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene	2.4	0.001	20	2.7E+01	0.001	0.3	0.13	7.3E-01	1.5	1.39E-02
1,4-Dichlorobenzene	18	0.001	20	6.2E+02	0.001	0.3	0.13	1.0E-01	1.5	2.98E-01
2,2-Dichloropropane	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	11,000	0.001	20	4.5E+00	0.001	0.3	0.13	1.1E-03	1.5	4.50E+01
2-Chlorotoluene	350	0.001	20	1.6E+02	0.001	0.3	0.13	1.4E-01	1.5	2.60E+00
4-Chlorotoluene	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	1,400	0.001	20	1.3E+02	0.001	0.3	0.13	5.7E-03	1.5	9.25E+00
Acetone	1,800	0.001	20	5.8E-01	0.001	0.3	0.13	1.6E-03	1.5	7.23E+00
Benzene	8	0.001	20	6.2E+01	0.001	0.3	0.13	2.3E-01	1.5	4.51E-02
Bromobenzene	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	7.1	0.001	20	5.5E+01	0.001	0.3	0.13	6.6E-02	1.5	3.70E-02
Bromoform	55	0.001	20	1.3E+02	0.001	0.3	0.13	2.2E-02	1.5	3.65E-01
Bromomethane	25	0.001	20	9.0E+00	0.001	0.3	0.13	2.6E-01	1.5	1.16E-01
Carbon Tetrachloride	3.4	0.001	20	1.5E+02	0.001	0.3	0.13	1.3E+00	1.5	3.15E-02
Chlorobenzene	350	0.001	20	2.2E+02	0.001	0.3	0.13	1.5E-01	1.5	3.03E+00

**Table F-1**  
**MTCA Method C Protection of Potable Groundwater Cleanup Level Calculations**  
**Precision Engineering, Inc.**  
**Seattle, Washington**

Analyte	Method C Groundwater CULs (ug/L)	Unit Conversion Factor* (ug to mg)	Dilution Factor* (unitless)	Organic Carbon-Water Partitioning Factor (K <sub>oc</sub> ) (L/kg)	Fraction Soil Organic Carbon* (unitless)	Volumetric Water Content* (unitless)	Volumetric Air Content* (unitless)	Henry's Law Constant (H <sub>cc</sub> ) (unitless)	Dry Soil Bulk Density* (kg/L)	Soil CUL for Protection of Potable Groundwater (mg/kg)
<b>Volatile Organic Compounds cont.</b>										
Chlorobromomethane	--	--	--	--	--	--	--	--	--	--
Chloroethane	--	--	--	--	--	--	--	--	--	--
Chloroform	72	0.001	20	5.3E+01	0.001	0.3	0.13	1.5E-01	1.5	3.83E-01
Chloromethane	34	0.001	20	6.0E+00	0.001	0.3	0.13	9.8E-01	1.5	1.98E-01
cis-1,2-Dichloroethene	180	0.001	20	3.6E+01	0.001	0.3	0.13	1.7E-01	1.5	9.03E-01
Dibromochloromethane	5.2	0.001	20	4.7E+02	0.001	0.3	0.13	3.5E-02	1.5	7.00E-02
Dibromomethane	180	0.001	20	2.5E+01	0.001	0.3	0.13	3.7E-02	1.5	8.22E-01
Dichlorodifluoromethane	3,500	0.001	20	5.8E+01	0.001	0.3	0.13	4.1E+00	1.5	4.29E+01
Ethylbenzene	1,800	0.001	20	2.0E+02	0.001	0.3	0.13	3.2E-01	1.5	1.54E+01
Hexachlorobutadiene	5.6	0.001	20	5.4E+04	0.001	0.3	0.13	3.3E-01	1.5	6.07E+00
Isopropylbenzene	1,800	0.001	20	2.2E+02	0.001	0.3	0.13	4.7E-01	1.5	1.66E+01
m-Xylenes	35,000	0.001	20	2.0E+02	0.001	0.3	0.13	3.0E-01	1.5	2.98E+02
Methylene Chloride	58	0.001	20	1.0E+01	0.001	0.3	0.13	9.0E-02	1.5	2.53E-01
Naphthalene	350	0.001	20	1.2E+03	0.001	0.3	0.13	2.0E-02	1.5	9.81E+00
n-Butylbenzene	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--
o-Xylene	35,000	0.001	20	2.4E+02	0.001	0.3	0.13	2.1E-01	1.5	3.21E+02
p-Xylenes	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	--	--	--	--	--	--	--	--	--	--
Styrene	15	0.001	20	9.1E+02	0.001	0.3	0.13	1.1E-01	1.5	3.36E-01
tert-Butylbenzene	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	0.81	0.001	20	2.7E+02	0.001	0.3	0.13	7.5E-01	1.5	8.67E-03
Toluene	3,500	0.001	20	1.4E+02	0.001	0.3	0.13	2.7E-01	1.5	2.54E+01
trans-1,2-Dichloroethene	350	0.001	20	3.8E+01	0.001	0.3	0.13	3.9E-01	1.5	1.90E+00
Trichloroethene (TCE)	1.1	0.001	20	9.4E+01	0.001	0.3	0.13	4.2E-01	1.5	7.27E-03
Trichlorofluoromethane	5,300	0.001	20	1.6E+02	0.001	0.3	0.13	4.0E+00	1.5	7.49E+01
Vinyl chloride	0.29	0.001	20	1.9E+01	0.001	0.3	0.13	1.1E+00	1.5	1.82E-03

Notes:  
 CULs = Model Toxics Control Act cleanup levels <sup>a</sup> = Used Method A CUL because it is based on background concentrations for Washington and is protective of groundwater.  
 mg = milligrams <sup>b</sup> = Used Method A CUL because a Method C CUL is not available.  
 ug = micrograms  
 ug/L = micrograms per Liter  
 L/kg = Liters per kilogram  
 kg/L = kilogram per Liter  
 mg/kg = milligrams per kilogram  
 Highlighted values obtained from U.S. Environmental Protection Agency's (Region 9) table of physical chemical data used to calculate preliminary remediation goals (October 2004).  
 -- = Not available.  
 \*Used default site characteristic values.

**Worksheet for Calculating Soil Cleanup Levels for Unrestricted & Industrial Land Use**

Date: 1/17/2006  
 Site Name: Precision Engineering, Inc.  
 Evaluator: Alan Hughes, Maul Foster & Alongi, Inc.

Refer to WAC 173-340-720, 740, 745, 747 and 750 for details.

**A. INPUT PARAMETERS FOR SOIL CLEANUP LEVEL CALCULATIONS**

Note: If no data is available for any of the following inputs, then leave the input box blank

Item	Symbol	Value	Units
<b>1. General information</b>			
Name of Chemical:		Hex Chromium	
Measured Soil Concentration, if any:	$C_s$		mg/kg
Natural Background Concentration for Soil:	$NB_s$		mg/kg
Practical Quantitation Limit for Soil:	$PQL_s$	2	mg/kg
To evaluate the ingestion and dermal pathways concurrently, check here and input values for $AF$ , $ABS_d$ , $GI$ :		<input checked="" type="checkbox"/>	
<b>2. Toxicological Properties of the Chemical: Chemical-Specific</b>			
Oral Reference Dose:	$RfD_o$	0.003	mg/kg-day
Oral Carcinogenic Potency Factor:	$CPF_o$		kg-day/mg
Inhalation Reference Dose:	$RfD_i$	0.0000023	mg/kg-day
Inhalation Carcinogenic Potency Factor:	$CPF_i$	0.042	kg-day/mg
<b>3. Exposure Parameters</b>			
Inhalation Correction Factor (default = "2" for volatiles; "1" for all others): for target ground water cleanup level	$INH$	1	unitless
Inhalation Absorption Fraction (default = "1"): for target air cleanup level	$ABS_i$	1	unitless
Gastrointestinal Absorption Fraction (default = "1"): for ingestion & dermal exposure pathways	$ABI$	1	unitless
Adherence Factor (default = "0.2"): for dermal exposure pathway	$AF$	0.2	mg/cm <sup>2</sup> -day
Dermal Absorption Fraction (chemical-specific or defaults): for dermal exposure pathway	$ABS_d$	0.1	unitless
Gastrointestinal Absorption Conversion Factor (chemical-specific or defaults): for dermal exposure pathway	$GI$	0.5	unitless
<b>4. Physical and Chemical Properties of the Chemical: Chemical-Specific</b>			
Soil Organic Carbon-Water Partitioning Coefficient: for metals, enter $K_d$ value here and enter "1" for $f_{oc}$ value	$K_{oc}$	1.900E+01	l/kg
Henry's Law Constant: for the evaluation of ground water and vapor exposure pathway	$H_{cc}$	0.000E+00	unitless
<i>*If the value for Henry's Law Constant is given in the unit of "atm.m<sup>3</sup>/mol", enter value here:</i>	$H$		atm.m <sup>3</sup> /mol
<i>*Converted unitless form of <math>H_{cc}</math> @13° C.: (Enter this converted value into "<math>H_{cc}</math> input Box" above for a calculation)</i>	$H_{cc}$	0.000E+00	unitless

Solubility of the Chemical in Water: for the calculation of soil saturation limit

$S$   mg/l

**5. Target Ground Water Cleanup Level**

Target Ground Water Cleanup Level applicable for a soil cleanup level calculation:

*\*Results from the Ground Water Cleanup Level Worksheet are not automatically transferred into this worksheet.*

$C_w$   ug/l

**6. Site-Specific Hydrogeological Characteristics**

Total Soil Porosity (default = "0.43"):

$n$   unitless

Volumetric Water Content (default = "0.30"):

$\theta_w$   unitless

Volumetric Air Content (default = "0.13"):

$\theta_a$   unitless

Dry Soil Bulk Density (default = "1.50"):

$\rho_b$   kg/l

Fraction Soil Organic Carbon (default = "0.001"): for metals, enter "1" for  $f_{oc}$  value here

$f_{oc}$   unitless

Dilution Factor (default = "20" for unsaturated zone soil; "1" for saturated zone soil; or site-specific)

$DF$   unitless

**7. Vapor Attenuation Factor due to Advection (building structure) & Diffusion (soil layer) Mechanisms**

*\* Vapor Attenuation Factor is the ratio of vapor-phase contaminant concentration within the soil at the source to the air concentration at the exposure point (e.g., within the building)*

Enter Vapor Attenuation Factor: for the evaluation of vapor exposure pathway

$VAF$   unitless

**B. SUMMARY OF SOIL CLEANUP LEVEL CALCULATIONS**

**Chemical of Concern: Hex Chromium**

**1. Summary of Results**

To calculate a soil cleanup level based on Industrial Land Use (Method C) for Direct Soil Contact, check here:

To calculate a soil concentration based on Method C vapor pathway, check here:

Basis for Soil Concentration	Conc	Units
Most stringent soil concentration based on Soil Direct Contact & Ground Water Protection:	4.224E+01	mg/kg
Natural Background concentration for Soil:	N/A	mg/kg
Practical Quantitation Limit for Soil:	2	mg/kg
Soil Cleanup Level (not considering vapor pathway):	4.224E+01	mg/kg
#DIV/0!		
Soil concentration based on Vapor Pathway (informational purposes only):	#DIV/0!	mg/kg

Warning: Soil Cleanup Level is higher than Soil Saturation Limit!

$C_{sat}$  corresponds to the total soil chemical concentration saturated in soil.

$R$  is the ratio of the ground water flow velocity to the

Soil Saturation Limit, $C_{sat}$ :	0.000E+00	mg/kg
Retardation Factor, $R$ :	67.3	unitless

$R$  is the ratio of the ground water flow velocity to the contaminant migration velocity in saturated zone.

2. Summary of Calculation for each Exposure Pathway

Summary by Exposure Pathway						
<b>Soil Direct Contact</b>			<i>Method B</i> Unrestricted Land Use @ HQ=1.0; RISK =1.0E-6		<i>Method C</i> Industrial Land Use @ HQ=1.0; RISK =1.0E-5	
			Ingestion only	Ingestion & Dermal	Ingestion only	Ingestion & Dermal
	Under the Current Condition	HQ? @ Exposure Point	N/A	N/A	N/A	N/A
		RISK? @ Exposure Point	N/A	N/A	N/A	N/A
	Target Soil CUL? mg/kg	@HQ=1.0	2.400E+02	1.667E+02	1.050E+04	2.000E+03
	@RISK =1.0E-6 or 1.0E-5	N/A	N/A	N/A	N/A	
<b>Protection of Potable Ground Water</b>			<i>Method B</i> @ HQ=1.0; RISK =1.0E-6		<i>Method C</i> @ HQ=1.0; RISK =1.0E-5	
	Under the Current Condition	Predicted Ground Water Conc? ug/l	N/A			
		HQ? @ Exposure Point	N/A	N/A		
		RISK? @ Exposure Point	N/A	N/A		
	Target Ground Water CUL? ug/l	1.100E+02				
Target Soil CUL? mg/kg	4.224E+01					
<b>Protection of Air Quality</b> <i>(for informational purpose only)</i>			<i>Method B</i> @ HQ=1.0; RISK =1.0E-6		<i>Method C</i> @ HQ=1.0; RISK =1.0E-5	
	Under the Current Condition	Predicted Air Conc? ug/m <sup>3</sup> @Exposure Point	N/A			
		HQ? @ Exposure Point	N/A	N/A		
		RISK? @ Exposure Point	N/A	N/A		
	Target Air CUL? ug/m <sup>3</sup>	@ HQ=1.0	3.680E-03	8.050E-03		
		@ RISK=1.0E-6 or 1.0E-5	2.083E-01	2.083E+00		
Target Soil CUL? mg/kg	@ HQ=1.0	#DIV/0!	#DIV/0!			
	@ RISK=1.0E-6 or 1.0E-5	N/A	N/A			

**NOTES: "CUL" = Cleanup Level; "Conc" = concentration; "HQ" = hazard quotient; "RISK" = carcinogenic risk.**

**CAUTION:** The requirements and procedures for establishing soil cleanup levels that are protective of human health and the environment are specified in the MTCA Cleanup Regulation (see WAC 173-340-740, 173-340-745, 173-340-747 and 173-340-7490 through 173-340-7494). The use of this Workbook is not sufficient to establish soil cleanup levels under the regulation.

Specifically, the soil cleanup levels derived using this Workbook do not account for the following:

- Concentrations based on applicable state and federal laws (see WAC 173-340-740(3)(b)(i) and 173-340-745(5)(b)(i));
- Soil residual saturation (see WAC 173-340-747(10));
- Ecological impacts (see WAC 173-340-7490 through 7494); and
- Total site risk (see WAC 173-340-740(5)(a) and 173-340-745(6)(a)).

Other exposure pathways may also need to be evaluated on a site-specific basis to establish soil cleanup levels.

**CAUTION:** The requirements and procedures for establishing air cleanup levels that are protective of human health and the environment are specified in the MTCA Cleanup Regulation (see WAC 173-340-750). The use of this Workbook may not be sufficient to establish air cleanup levels under the regulation. Specifically, the air cleanup levels derived using this Workbook do not account for the following:

- Concentrations based on applicable state and federal laws (see WAC 173-340-750(3)(b)(i) and (4)(b)(i));
- Concentrations based on natural background and the practical quantitation limit (see WAC 173-340-750(5)(c));
- Total site risk (see WAC 173-340-750(5)(a)).



**Worksheet for Calculating Soil Cleanup Levels for Unrestricted & Industrial Land Use**

Date: 1/17/2006  
 Site Name: Precision Engineering, Inc.  
 Evaluator: Alan Hughes, Maul Foster & Alongi, Inc.

Refer to WAC 173-340-720, 740, 745, 747 and 750 for details.

**A. INPUT PARAMETERS FOR SOIL CLEANUP LEVEL CALCULATIONS**

Note: If no data is available for any of the following inputs, then leave the input box blank

Item	Symbol	Value	Units
<b>1. General information</b>			
Name of Chemical:		TCE	
Measured Soil Concentration, if any:	$C_s$		mg/kg
Natural Background Concentration for Soil:	$NB_s$		mg/kg
Practical Quantitation Limit for Soil:	$PQL_s$	0.01	mg/kg
To evaluate the ingestion and dermal pathways concurrently, check here and input values for $AF$ , $ABS_d$ , $GI$ :		<input checked="" type="checkbox"/>	
<b>2. Toxicological Properties of the Chemical: Chemical-Specific</b>			
Oral Reference Dose:	$RfD_o$	0.0003	mg/kg-day
Oral Carcinogenic Potency Factor:	$CPF_o$	0.4	kg-day/mg
Inhalation Reference Dose:	$RfD_i$	0.01	mg/kg-day
Inhalation Carcinogenic Potency Factor:	$CPF_i$	0.4	kg-day/mg
<b>3. Exposure Parameters</b>			
Inhalation Correction Factor (default = "2" for volatiles; "1" for all others): for target ground water cleanup level	$INH$	2	unitless
Inhalation Absorption Fraction (default = "1"): for target air cleanup level	$ABS_i$	1	unitless
Gastrointestinal Absorption Fraction (default = "1"): for ingestion & dermal exposure pathways	$ABI$	1	unitless
Adherence Factor (default = "0.2"): for dermal exposure pathway	$AF$	0.2	mg/cm <sup>2</sup> -day
Dermal Absorption Fraction (chemical-specific or defaults): for dermal exposure pathway	$ABS_d$	0.1	unitless
Gastrointestinal Absorption Conversion Factor (chemical-specific or defaults): for dermal exposure pathway	$GI$	0.5	unitless
<b>4. Physical and Chemical Properties of the Chemical: Chemical-Specific</b>			
Soil Organic Carbon-Water Partitioning Coefficient: for metals, enter $K_d$ value here and enter "1" for $f_{oc}$ value	$K_{oc}$	9.400E+01	l/kg
Henry's Law Constant: for the evaluation of ground water and vapor exposure pathway	$H_{cc}$	4.200E-01	unitless
*If the value for Henry's Law Constant is given in the unit of "atm.m <sup>3</sup> /mol", enter value here:	$H$		atm.m <sup>3</sup> /mol
*Converted unitless form of $H_{cc}$ @13° C: (Enter this converted value into " $H_{cc}$ input Box" above for a calculation)	$H_{cc}$	0.000E+00	unitless

Solubility of the Chemical in Water: for the calculation of soil saturation limit

$S$   mg/l

**5. Target Ground Water Cleanup Level**

Target Ground Water Cleanup Level applicable for a soil cleanup level calculation:

*\*Results from the Ground Water Cleanup Level Worksheet are not automatically transferred into this worksheet.*

$C_w$   ug/l

**6. Site-Specific Hydrogeological Characteristics**

Total Soil Porosity (default = "0.43"):

$n$   unitless

Volumetric Water Content (default = "0.30"):

$\theta_w$   unitless

Volumetric Air Content (default = "0.13"):

$\theta_\alpha$   unitless

Dry Soil Bulk Density (default = "1.50"):

$\rho_b$   kg/l

Fraction Soil Organic Carbon (default = "0.001"): for metals, enter "1" for  $f_{oc}$  value here

$f_{oc}$   unitless

Dilution Factor (default = "20" for unsaturated zone soil; "1" for saturated zone soil; or site-specific)

$DF$   unitless

**7. Vapor Attenuation Factor due to Advection (building structure) & Diffusion (soil layer) Mechanisms**

*\* Vapor Attenuation Factor is the ratio of vapor-phase contaminant concentration within the soil at the source to the air concentration at the exposure point (e.g., within the building)*

Enter Vapor Attenuation Factor: for the evaluation of vapor exposure pathway

$VAF$   unitless

**B. SUMMARY OF SOIL CLEANUP LEVEL CALCULATIONS**

**Chemical of Concern: TCE**

**1. Summary of Results**

To calculate a soil cleanup level based on Industrial Land Use (Method C) for Direct Soil Contact, check here:

To calculate a soil concentration based on Method C vapor pathway, check here:

Basis for Soil Concentration	Conc	Units
Most stringent soil concentration based on Soil Direct Contact & Ground Water Protection:	7.269E-03	mg/kg
Natural Background concentration for Soil:	N/A	mg/kg
Practical Quantitation Limit for Soil:	0.01	mg/kg
Soil Cleanup Level (not considering vapor pathway):	1.000E-02	mg/kg
Warning! Soil Cleanup Level above may not be protective of vapor exposure pathway - evaluate vapor pathway further.		
Soil concentration based on Vapor Pathway (informational purposes only):	1.721E-03	mg/kg

$C_{sat}$  corresponds to the total soil chemical concentration saturated in soil.

$R$  is the ratio of the ground water flow velocity to the

Soil Saturation Limit, $C_{sat}$ :	3.634E+02	mg/kg
Retardation Factor, $R$ :	1.3	unitless

$R$  is the ratio of the ground water flow velocity to the contaminant migration velocity in saturated zone.

2. Summary of Calculation for each Exposure Pathway

Summary by Exposure Pathway						
Soil Direct Contact			<u>Method B</u> Unrestricted Land Use @ HQ=1.0; RISK =1.0E-6		<u>Method C</u> Industrial Land Use @ HQ=1.0; RISK =1.0E-5	
			Ingestion only	Ingestion & Dermal	Ingestion only	Ingestion & Dermal
	Under the Current Condition	HQ? @ Exposure Point		N/A	N/A	N/A
	RISK? @ Exposure Point		N/A	N/A	N/A	N/A
Target Soil	@HQ=1.0		2.400E+01	1.667E+01	1.050E+03	2.000E+02
CUL? mg/kg	@RISK =1.0E-6 or 1.0E-5		2.500E+00	1.736E+00	3.281E+02	6.250E+01
Protection of Potable Ground Water			<u>Method B</u> @ HQ=1.0; RISK =1.0E-6		<u>Method C</u> @ HQ=1.0; RISK =1.0E-5	
	Under the Current Condition	Predicted Ground Water Conc? ug/l	N/A			
		HQ? @ Exposure Point	N/A		N/A	
		RISK? @ Exposure Point	N/A		N/A	
	Target Ground Water CUL? ug/l		1.100E+00			
Target Soil CUL? mg/kg		7.269E-03				
Protection of Air Quality (for informational purpose only)			<u>Method B</u> @ HQ=1.0; RISK =1.0E-6		<u>Method C</u> @ HQ=1.0; RISK =1.0E-5	
	Under the Current Condition	Predicted Air Conc? ug/m <sup>3</sup> @Exposure Point	N/A			
		HQ? @ Exposure Point	N/A		N/A	
		RISK? @ Exposure Point	N/A		N/A	
	Target Air	@ HQ=1.0	1.600E+01		3.500E+01	
	CUL? ug/m <sup>3</sup>	@ RISK=1.0E-6 or 1.0E-5	2.188E-02		2.188E-01	
	Target Soil	@ HQ=1.0	1.259E-01		2.753E-01	
CUL? mg/kg	@ RISK=1.0E-6 or 1.0E-5	1.721E-04		1.721E-03		

**NOTES: "CUL" = Cleanup Level; "Conc" = concentration; "HQ" = hazard quotient; "RISK" = carcinogenic risk.**

**CAUTION:** The requirements and procedures for establishing soil cleanup levels that are protective of human health and the environment are specified in the MTCA Cleanup Regulation (see WAC 173-340-740, 173-340-745, 173-340-747 and 173-340-7490 through 173-340-7494). The use of this Workbook is not sufficient to establish soil cleanup levels under the regulation.

Specifically, the soil cleanup levels derived using this Workbook do not account for the following:

- Concentrations based on applicable state and federal laws (see WAC 173-340-740(3)(b)(i) and 173-340-745(5)(b)(i));
- Soil residual saturation (see WAC 173-340-747(10));
- Ecological impacts (see WAC 173-340-7490 through 7494); and
- Total site risk (see WAC 173-340-740(5)(a) and 173-340-745(6)(a)).

Other exposure pathways may also need to be evaluated on a site-specific basis to establish soil cleanup levels.

**CAUTION:** The requirements and procedures for establishing air cleanup levels that are protective of human health and the environment are specified in the MTCA Cleanup Regulation (see WAC 173-340-750). The use of this Workbook may not be sufficient to establish air cleanup levels under the regulation. Specifically, the air cleanup levels derived using this Workbook do not account for the following:

- Concentrations based on applicable state and federal laws (see WAC 173-340-750(3)(b)(i) and (4)(b)(i));
- Concentrations based on natural background and the practical quantitation limit (see WAC 173-340-750(5)(c));
- Total site risk (see WAC 173-340-750(5)(a)).

**Worksheet for Calculating Soil Cleanup Levels for Unrestricted & Industrial Land Use**

Date: 1/17/2006  
 Site Name: Precision Engineering, Inc.  
 Evaluator: Alan Hughes, Maul Foster & Alongi, Inc.

Refer to WAC 173-340-720, 740, 745, 747 and 750 for details.

**A. INPUT PARAMETERS FOR SOIL CLEANUP LEVEL CALCULATIONS**

Note: If no data is available for any of the following inputs, then leave the input box blank

Item	Symbol	Value	Units
<b>1. General information</b>			
Name of Chemical:		PCE	
Measured Soil Concentration, if any:	$C_s$		mg/kg
Natural Background Concentration for Soil:	$NB_s$		mg/kg
Practical Quantitation Limit for Soil:	$PQL_s$	0.01	mg/kg
To evaluate the ingestion and dermal pathways concurrently, check here and input values for $AF$ , $ABS_d$ , $GI$ :		<input checked="" type="checkbox"/>	
<b>2. Toxicological Properties of the Chemical: Chemical-Specific</b>			
Oral Reference Dose:	$RfD_o$	0.01	mg/kg-day
Oral Carcinogenic Potency Factor:	$CPF_o$	0.54	kg-day/mg
Inhalation Reference Dose:	$RfD_i$		mg/kg-day
Inhalation Carcinogenic Potency Factor:	$CPF_i$	0.021	kg-day/mg
<b>3. Exposure Parameters</b>			
Inhalation Correction Factor (default = "2" for volatiles; "1" for all others): for target ground water cleanup level	$INH$	2	unitless
Inhalation Absorption Fraction (default = "1"): for target air cleanup level	$ABS_i$	1	unitless
Gastrointestinal Absorption Fraction (default = "1"): for ingestion & dermal exposure pathways	$ABI$	1	unitless
Adherence Factor (default = "0.2"): for dermal exposure pathway	$AF$	0.2	mg/cm <sup>2</sup> -day
Dermal Absorption Fraction (chemical-specific or defaults): for dermal exposure pathway	$ABS_d$	0.1	unitless
Gastrointestinal Absorption Conversion Factor (chemical-specific or defaults): for dermal exposure pathway	$GI$	0.5	unitless
<b>4. Physical and Chemical Properties of the Chemical: Chemical-Specific</b>			
Soil Organic Carbon-Water Partitioning Coefficient: for metals, enter $K_d$ value here and enter "1" for $f_{oc}$ value	$K_{oc}$	2.700E+02	l/kg
Henry's Law Constant: for the evaluation of ground water and vapor exposure pathway	$H_{cc}$	7.500E-01	unitless
*If the value for Henry's Law Constant is given in the unit of "atm.m <sup>3</sup> /mol", enter value here:	$H$		atm.m <sup>3</sup> /mol
*Converted unitless form of $H_{cc}$ @13° C: (Enter this converted value into " $H_{cc}$ input Box" above for a calculation)	$H_{cc}$	0.000E+00	unitless

Solubility of the Chemical in Water: for the calculation of soil saturation limit

$S$   mg/l

**5. Target Ground Water Cleanup Level**

Target Ground Water Cleanup Level applicable for a soil cleanup level calculation:

*\*Results from the Ground Water Cleanup Level Worksheet are not automatically transferred into this worksheet.*

$C_w$   ug/l

**6. Site-Specific Hydrogeological Characteristics**

Total Soil Porosity (default = "0.43"):

$n$   unitless

Volumetric Water Content (default = "0.30"):

$\theta_w$   unitless

Volumetric Air Content (default = "0.13"):

$\theta_\alpha$   unitless

Dry Soil Bulk Density (default = "1.50"):

$\rho_b$   kg/l

Fraction Soil Organic Carbon (default = "0.001"): for metals, enter "1" for  $f_{oc}$  value here

$f_{oc}$   unitless

Dilution Factor (default = "20" for unsaturated zone soil; "1" for saturated zone soil; or site-specific)

$DF$   unitless

**7. Vapor Attenuation Factor due to Advection (building structure) & Diffusion (soil layer) Mechanisms**

*\* Vapor Attenuation Factor is the ratio of vapor-phase contaminant concentration within the soil at the source to the air concentration at the exposure point (e.g., within the building)*

Enter Vapor Attenuation Factor: for the evaluation of vapor exposure pathway

$VAF$   unitless

**B. SUMMARY OF SOIL CLEANUP LEVEL CALCULATIONS**

Chemical of Concern: **PCE**

**1. Summary of Results**

To calculate a soil cleanup level based on Industrial Land Use (Method C) for Direct Soil Contact, check here:

To calculate a soil concentration based on Method C vapor pathway, check here:

Basis for Soil Concentration	Conc	Units
Most stringent soil concentration based on Soil Direct Contact & Ground Water Protection:	8.667E-03	mg/kg
Natural Background concentration for Soil:	N/A	mg/kg
Practical Quantitation Limit for Soil:	0.01	mg/kg
Soil Cleanup Level (not considering vapor pathway):	1.000E-02	mg/kg
Soil concentration based on Vapor Pathway (informational purposes only):	2.972E-02	mg/kg

$C_{sat}$  corresponds to the total soil chemical concentration saturated in soil.

$R$  is the ratio of the ground water flow velocity to the

Soil Saturation Limit, $C_{sat}$ :	1.070E+02	mg/kg
Retardation Factor, $R$ :	1.9	unitless

$R$  is the ratio of the ground water flow velocity to the contaminant migration velocity in saturated zone.

2. Summary of Calculation for each Exposure Pathway

Summary by Exposure Pathway						
<b>Soil Direct Contact</b>			<i>Method B</i> Unrestricted Land Use @ HQ=1.0; RISK =1.0E-6		<i>Method C</i> Industrial Land Use @ HQ=1.0; RISK =1.0E-5	
			Ingestion only	Ingestion & Dermal	Ingestion only	Ingestion & Dermal
	Under the Current Condition	HQ? @ Exposure Point	N/A	N/A	N/A	N/A
		RISK? @ Exposure Point	N/A	N/A	N/A	N/A
	Target Soil CUL? mg/kg	@HQ=1.0 @RISK =1.0E-6 or 1.0E-5	8.000E+02 1.852E+00	5.556E+02 1.286E+00	3.500E+04 2.431E+02	6.667E+03 4.630E+01
<b>Protection of Potable Ground Water</b>			<i>Method B</i> @ HQ=1.0; RISK =1.0E-6		<i>Method C</i> @ HQ=1.0; RISK =1.0E-5	
	Under the Current Condition	Predicted Ground Water Conc? ug/l	N/A			
		HQ? @ Exposure Point	N/A	N/A		
		RISK? @ Exposure Point	N/A	N/A		
	Target Ground Water CUL? ug/l		8.100E-01			
Target Soil CUL? mg/kg		8.667E-03				
<b>Protection of Air Quality</b> <i>(for informational purpose only)</i>			<i>Method B</i> @ HQ=1.0; RISK =1.0E-6		<i>Method C</i> @ HQ=1.0; RISK =1.0E-5	
	Under the Current Condition	Predicted Air Conc? ug/m <sup>3</sup> @Exposure Point	N/A			
		HQ? @ Exposure Point	N/A	N/A		
		RISK? @ Exposure Point	N/A	N/A		
	Target Air CUL? ug/m <sup>3</sup>	@ HQ=1.0	N/A	N/A		
		@ RISK=1.0E-6 or 1.0E-5	4.167E-01	4.167E+00		
Target Soil CUL? mg/kg	@ HQ=1.0	N/A	N/A			
	@ RISK=1.0E-6 or 1.0E-5	2.972E-03	2.972E-02			

**NOTES: "CUL" = Cleanup Level; "Conc" = concentration; "HQ" = hazard quotient; "RISK" = carcinogenic risk.**

**CAUTION:** The requirements and procedures for establishing soil cleanup levels that are protective of human health and the environment are specified in the MTCA Cleanup Regulation (see WAC 173-340-740, 173-340-745, 173-340-747 and 173-340-7490 through 173-340-7494). The use of this Workbook is not sufficient to establish soil cleanup levels under the regulation.

Specifically, the soil cleanup levels derived using this Workbook do not account for the following:

- Concentrations based on applicable state and federal laws (see WAC 173-340-740(3)(b)(i) and 173-340-745(5)(b)(i));
- Soil residual saturation (see WAC 173-340-747(10));
- Ecological impacts (see WAC 173-340-7490 through 7494); and
- Total site risk (see WAC 173-340-740(5)(a) and 173-340-745(6)(a)).

Other exposure pathways may also need to be evaluated on a site-specific basis to establish soil cleanup levels.

**CAUTION:** The requirements and procedures for establishing air cleanup levels that are protective of human health and the environment are specified in the MTCA Cleanup Regulation (see WAC 173-340-750). The use of this Workbook may not be sufficient to establish air cleanup levels under the regulation. Specifically, the air cleanup levels derived using this Workbook do not account for the following:

- Concentrations based on applicable state and federal laws (see WAC 173-340-750(3)(b)(i) and (4)(b)(i));
- Concentrations based on natural background and the practical quantitation limit (see WAC 173-340-750(5)(c));
- Total site risk (see WAC 173-340-750(5)(a)).



**APPENDIX G**

**SOIL CLEANUP LEVELS FOR TOTAL PETROLEUM  
HYDROCARBONS**

**Soil Cleanup Levels: Worksheet for Data Entry**

Refer to WAC 173-340-720, 740,745, 747, 750

Date: 02/020/2006

Site Name: Precision Engineering, Inc.

Sample Name: GP-21 at 6.5 feet below ground surface

**1. Enter Soil Concentration Measured**

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc dry basis mg/kg	Composition Ratio %
<b>Petroleum EC Fraction</b>		
AL_EC >5-6	0	0.00%
AL_EC >6-8	0	0.00%
AL_EC >8-10	130	1.63%
AL_EC >10-12	130	1.63%
AL_EC >12-16	130	1.63%
AL_EC >16-21	411	5.16%
AL_EC >21-34	6460	81.14%
AR_EC >8-10	7.5	0.09%
AR_EC >10-12	7.5	0.09%
AR_EC >12-16	7.5	0.09%
AR_EC >16-21	102	1.28%
AR_EC >21-34	576	7.23%
Benzene	0	0.00%
Toluene	0	0.00%
Ethylbenzene	0	0.00%
Total Xylenes	0	0.00%
Total Naphthalenes	0.00645	0.00%
n-Hexane	0	0.00%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.00645	0.00%
Benzo(b)fluoranthene	0.00645	0.00%
Benzo(k)fluoranthene	0.00645	0.00%
Benzo(a)pyrene	0.00645	0.00%
Chrysene	0.00645	0.00%
Dibenzo(a,h)anthracene	0.00645	0.00%
Indeno(1,2,3-cd)pyrene	0.00645	0.00%
<b>Sum</b>	<b>7961.5516</b>	<b>100.00%</b>

**2. Enter Site-Specific Hydrogeological Data**

Total soil porosity: default is 0.43	0.43	Unitless
Volumetric water content: default is 0.3	0.3	Unitless
Volumetric air content: default is 0.13	0.13	Unitless
Soil bulk density measured: default is 1.5	1.5	kg/l
Fraction Organic Carbon: default is 0.001	0.001	Unitless
Dilution Factor: default is 20	20	Unitless

Exposure Pathway	Pass or Fail?	HI	RISK
Soil Direct Contact	Unrestricted Land use	Pass	6.71E-01 1.13E-07
	Industrial Land use	Pass	5.19E-02 2.80E-08
Method B Potable Ground Water Protection	Pass	3.47E-02	1.75E-11

**Warning!!!**

\*Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required based on site-specific conditions and type of fuel (see WAC 173-340-7490-7494).  
\*Check Soil Residual Saturation Evaluation specified in WAC 173-340-747(10).

**Note:**

- All data must be numeric values. Use of alphabetical characters (i.e., "ND", "NA", "<", ">", or "=") will cause an error.
- Try to avoid double counting: The Petroleum Equivalent Carbon (EC) fractions include many individual substances that must be analyzed separately. When entering the concentration of petroleum EC fraction into the data entry cell, make sure you subtract the concentration of individual substances from the appropriate EC fraction. (See User's Guide)
- For the values of soil measurement below the method detection limit, substitute one-half the method detection limit as required by WAC173-340 740-(7). For the values for soil measurement above the method detection limit but below the practical quantitation limit, substitute the method detection limit. However, for a hazardous substance or petroleum fraction which has never been detected in any sample at a site and these substances are not suspected of being present at the site based on site history and other knowledge, enter "0" for that hazardous substances or petroleum fraction for further calculation. Refer to WAC173-340-740(7) for detail.
- For detail analytical testing requirements for petroleum contaminated sites, refer to WAC 173-340-820, 830 and 840, and Table 830-1.
- For detail information on site-specific hydrogeological conditions, refer to WAC 173-340-747.

REMARK:

**Soil Cleanup Levels: Worksheet for Data Entry**

Refer to WAC 173-340-720, 740,745, 747, 750

Date: 02/03/06

Site Name: Precision Engineering, Inc.

Sample Name: HA-2 at 0.5 feet below ground surface

**1. Enter Soil Concentration Measured**

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc dry basis mg/kg	Composition Ratio %
<b>Petroleum EC Fraction</b>		
AL_EC >5-6	0	0.00%
AL_EC >6-8	0	0.00%
AL_EC >8-10	4.45	9.98%
AL_EC >10-12	4.45	9.98%
AL_EC >12-16	4.45	9.98%
AL_EC >16-21	4.45	9.98%
AL_EC >21-34	4.45	9.98%
AR_EC >8-10	4.45	9.98%
AR_EC >10-12	4.45	9.98%
AR_EC >12-16	4.45	9.98%
AR_EC >16-21	4.45	9.98%
AR_EC >21-34	4.45	9.98%
Benzene	0	0.00%
Toluene	0	0.00%
Ethylbenzene	0	0.00%
Total Xylenes	0	0.00%
Total Naphthalenes	0.0088	0.02%
n-Hexane	0	0.00%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.00625	0.01%
Benzo(b)fluoranthene	0.0204	0.05%
Benzo(k)fluoranthene	0.0151	0.03%
Benzo(a)pyrene	0.00625	0.01%
Chrysene	0.0179	0.04%
Dibenzo(a,h)anthracene	0.00625	0.01%
Indeno(1,2,3-cd)pyrene	0.00625	0.01%
<b>Sum</b>	<b>44.5872</b>	<b>100.00%</b>

**2. Enter Site-Specific Hydrogeological Data**

Total soil porosity: default is 0.43	0.43	Unitless
Volumetric water content: default is 0.3	0.3	Unitless
Volumetric air content: default is 0.13	0.13	Unitless
Soil bulk density measured: default is 1.5	1.5	kg/l
Fraction Organic Carbon: default is 0.001	0.001	Unitless
Dilution Factor: default is 20	20	Unitless

Exposure Pathway	Pass or Fail?	HI	RISK
Soil Direct Contact	Unrestricted Land use	Pass	1.61E-02 1.32E-07
	Industrial Land use	Pass	1.13E-03 3.29E-08
Method B Potable Ground Water Protection	Pass	4.79E-01	2.91E-09

**Note:**

- All data must be numeric values. Use of alphabetical characters (i.e.; "ND", "NA", "<", ">", or "=") will cause an error.
- Try to avoid double counting: The Petroleum Equivalent Carbon (EC) fractions include many individual substances that must be analyzed separately. When entering the concentration of petroleum EC fraction into the data entry cell, make sure you subtract the concentration of individual substances from the appropriate EC fraction. (See User's Guide)
- For the values of soil measurement below the method detection limit, substitute one-half the method detection limit as required by WAC173-340 740-(7). For the values for soil measurement above the method detection limit but below the practical quantitation limit, substitute the method detection limit. However, for a hazardous substance or petroleum fraction which has never been detected in any sample at a site and these substances are not suspected of being present at the site based on site history and other knowledge, enter "0" for that hazardous substances or petroleum fraction for further calculation. Refer to WAC173-340-740(7) for detail.
- For detail analytical testing requirements for petroleum contaminated sites, refer to WAC 173-340-820, 830 and 840, and Table 830-1.
- For detail information on site-specific hydrogeological conditions, refer to WAC 173-340-747.

REMARK:

**Soil Cleanup Levels: Worksheet for Data Entry**

Refer to WAC 173-340-720, 740,745, 747, 750

Date: 02/03/06

Site Name: Precision Engineering, Inc.

Sample Name: HA-3 at 0.5 feet below ground surface

<b>1. Enter Soil Concentration Measured</b>		
Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc	Composition
	dry basis mg/kg	Ratio %
<b>Petroleum EC Fraction</b>		
AL_EC >5-6	0	0.00%
AL_EC >6-8	0	0.00%
AL_EC >8-10	3.27	1.00%
AL_EC >10-12	3.27	1.00%
AL_EC >12-16	3.27	1.00%
AL_EC >16-21	8.86	2.71%
AL_EC >21-34	246	75.22%
AR_EC >8-10	3.27	1.00%
AR_EC >10-12	3.27	1.00%
AR_EC >12-16	3.27	1.00%
AR_EC >16-21	3.27	1.00%
AR_EC >21-34	48.9	14.95%
Benzene	0	0.00%
Toluene	0	0.00%
Ethylbenzene	0	0.00%
Total Xylenes	0	0.00%
Total Naphthalenes	0.0065	0.00%
n-Hexane	0	0.00%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.034	0.01%
Benzo(b)fluoranthene	0.0982	0.03%
Benzo(k)fluoranthene	0.0706	0.02%
Benzo(a)pyrene	0.0525	0.02%
Chrysene	0.0804	0.02%
Dibenzo(a,h)anthracene	0.00665	0.00%
Indeno(1,2,3-cd)pyrene	0.0385	0.01%
<b>Sum</b>	<b>327.03735</b>	<b>100.00%</b>

<b>2. Enter Site-Specific Hydrogeological Data</b>		
Total soil porosity: default is 0.43	0.43	Unitless
Volumetric water content: default is 0.3	0.3	Unitless
Volumetric air content: default is 0.13	0.13	Unitless
Soil bulk density measured: default is 1.5	1.5	kg/l
Fraction Organic Carbon: default is 0.001	0.001	Unitless
Dilution Factor: default is 20	20	Unitless

Exposure Pathway	Pass or Fail?	HI	RISK
Soil Direct Contact	Unrestricted Land use	Pass	4.15E-02 7.73E-07
	Industrial Land use	Pass	3.30E-03 1.92E-07
Method B Potable Ground Water Protection	Pass	1.76E-01	2.50E-09

**Warning!!!**

\*Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required based on site-specific conditions and type of fuel (see WAC 173-340-7490-7494).

**Note:**

- All data must be numeric values. Use of alphabetical characters (i.e., "ND", "NA", "<", ">", or "=") will cause an error.
- Try to avoid double counting: The Petroleum Equivalent Carbon (EC) fractions include many individual substances that must be analyzed separately. When entering the concentration of petroleum EC fraction into the data entry cell, make sure you subtract the concentration of individual substances from the appropriate EC fraction. (See User's Guide)
- For the values of soil measurement below the method detection limit, substitute one-half the method detection limit as required by WAC173-340 740-(7). For the values for soil measurement above the method detection limit but below the practical quantitation limit, substitute the method detection limit. However, for a hazardous substance or petroleum fraction which has never been detected in any sample at a site and these substances are not suspected of being present at the site based on site history and other knowledge, enter "0" for that hazardous substances or petroleum fraction for further calculation. Refer to WAC173-340-740(7) for detail.
- For detail analytical testing requirements for petroleum contaminated sites, refer to WAC 173-340-820, 830 and 840, and Table 830-1.
- For detail information on site-specific hydrogeological conditions, refer to WAC 173-340-747.

REMARK:

**Soil Cleanup Levels: Worksheet for Data Entry**

Refer to WAC 173-340-720, 740,745, 747, 750

Date: 02/03/06

Site Name: Precision Engineering, Inc.

Sample Name: HA-4 at 0.5 feet below ground surface

**1. Enter Soil Concentration Measured**

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc dry basis mg/kg	Composition Ratio %
<b>Petroleum EC Fraction</b>		
AL_EC >5-6	0	0.00%
AL_EC >6-8	0	0.00%
AL_EC >8-10	17.3	0.43%
AL_EC >10-12	17.3	0.43%
AL_EC >12-16	87	2.18%
AL_EC >16-21	311	7.79%
AL_EC >21-34	3060	76.65%
AR_EC >8-10	17.3	0.43%
AR_EC >10-12	17.3	0.43%
AR_EC >12-16	17.3	0.43%
AR_EC >16-21	69.5	1.74%
AR_EC >21-34	374	9.37%
Benzene	0	0.00%
Toluene	0	0.00%
Ethylbenzene	0	0.00%
Total Xylenes	0	0.00%
Total Naphthalenes	0.17	0.00%
n-Hexane	0	0.00%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.554	0.01%
Benzo(b)fluoranthene	0.771	0.02%
Benzo(k)fluoranthene	0.749	0.02%
Benzo(a)pyrene	0.694	0.02%
Chrysene	0.899	0.02%
Dibenzo(a,h)anthracene	0.17	0.00%
Indeno(1,2,3-cd)pyrene	0.17	0.00%
<b>Sum</b>	<b>3992.177</b>	<b>100.00%</b>

**2. Enter Site-Specific Hydrogeological Data**

Total soil porosity: default is 0.43	0.43	Unitless
Volumetric water content: default is 0.3	0.3	Unitless
Volumetric air content: default is 0.13	0.13	Unitless
Soil bulk density measured: default is 1.5	1.5	kg/l
Fraction Organic Carbon: default is 0.001	0.001	Unitless
Dilution Factor: default is 20	20	Unitless

Exposure Pathway	Pass or Fail?	HI	RISK
Soil Direct Contact	Unrestricted Land use	Fail	3.80E-01 9.60E-06
	Industrial Land use	Pass	3.09E-02 2.38E-06
Method B Potable Ground Water Protection	Pass	1.33E-01	2.87E-09

**Warning!!!**

- \*Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required based on site-specific conditions and type of fuel (see WAC 173-340-7490~7494).
- \*Check Soil Residual Saturation Evaluation specified in WAC 173-340-747(10).

**Note:**

- All data must be numeric values. Use of alphabetical characters (i.e., "ND", "NA", "<", ">", or "=") will cause an error.
- Try to avoid double counting: The Petroleum Equivalent Carbon (EC) fractions include many individual substances that must be analyzed separately. When entering the concentration of petroleum EC fraction into the data entry cell, make sure you subtract the concentration of individual substances from the appropriate EC fraction. (See User's Guide)
- For the values of soil measurement below the method detection limit, substitute one-half the method detection limit as required by WAC173-340 740-(7). For the values for soil measurement above the method detection limit but below the practical quantitation limit, substitute the method detection limit. However, for a hazardous substance or petroleum fraction which has never been detected in any sample at a site and these substances are not suspected of being present at the site based on site history and other knowledge, enter "0" for that hazardous substances or petroleum fraction for further calculation. Refer to WAC173-340-740(7) for detail.
- For detail analytical testing requirements for petroleum contaminated sites, refer to WAC 173-340-820, 830 and 840, and Table 830-1.
- For detail information on site-specific hydrogeological conditions, refer to WAC 173-340-747.

REMARK: