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CLEANUP ACTION CLOSURE REPORT

6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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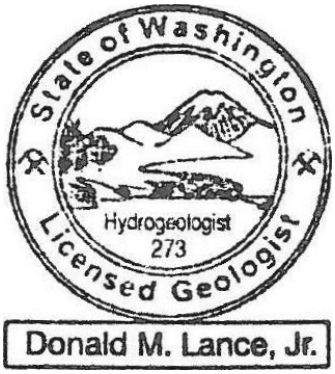

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ABBREVIATIONS AND ACRONYMS

ARARs	applicable or relevant and appropriate requirements
bgs	below ground surface
Barghausen	Barghausen Consulting Engineers, Inc.
Blymyer	Blymyer Engineers, Inc.
BTEX	benzene, ethylbenzene, toluene, and xylenes
Closure Report	*Cleanup Action Closure Report, 6050 East Marginal Way Property, Seattle, Washington* dated July 25, 2018, prepared by Farallon Consulting, L.L.C. (this report)
Consolidated Freightways	Consolidated Freightways Inc.
COCs	constituents of concern
cPAHs	carcinogenic polycyclic aromatic hydrocarbons
DRO	total petroleum hydrocarbons as diesel-range organics
Duwamish Reload Facility	Waste Management, Inc. Duwamish Reload Facility at 7400 8th Avenue South in Seattle, Washington
Ecology	Washington State Department of Ecology
Ecology Guidance	*Guidance for Remediation of Petroleum Contaminated Sites* dated June 2016, prepared by the Washington State Department of Ecology
EMMP	*Environmental Media Management Plan, 6050 East Marginal Way South Property, Seattle, Washington* dated February 11, 2016 prepared by Farallon Consulting, L.L.C.
EPH/VPH	extractable petroleum hydrocarbons/volatile petroleum hydrocarbons
Farallon	Farallon Consulting, L.L.C.
Fluor Daniel	Fluor Daniel GTI, Inc.
Golder	Golder Associates, Inc.
GRO	total petroleum hydrocarbons as gasoline-range organics
GTI	Groundwater Technology, Inc.
Hos	Hos Bros. Construction, Inc.
KCIWP	King County Industrial Waste Program
µg/l	micrograms per liter
mg/kg	milligrams per kilogram
MTCA	Washington State Model Toxics Control Act Cleanup Regulation

naphthalenes	combined concentrations of naphthalene, 2-methylnaphthalene, and 1-methylnaphthalene
ORO	total petroleum hydrocarbons as oil-range organics
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PQLs	practical quantitation limits
Prologis	Prologis, Inc.
Property	the property at 6050 East Marginal Way South in Seattle, Washington
RCW	Revised Code of Washington
RI/FFS/CAP Report	*Remedial Investigation, Focused Feasibility Study, and Cleanup Action Plan, 6050 East Marginal Way South Property, Seattle, Washington* dated February 11, 2016 prepared by Farallon Consulting, L.L.C.
Sierra	Sierra Construction Company, Inc.
Site	the area where constituents of concern have come to be located at concentrations exceeding applicable cleanup levels
TEE	terrestrial ecological evaluation
TPH	combined concentrations of total petroleum hydrocarbons as diesel-range organics, as oil-range organics, and as gasoline-range organics
UST	underground storage tank
UST Database	Washington State Department of Ecology Toxics Cleanup Program Web Reporting Underground Storage Tank System Database
VCP	Voluntary Cleanup Program
VOCs	volatile organic compounds
WAC	Washington Administrative Code
Wyser	Wyser Construction, Inc.

2003 Phase I ESA	Phase I Environmental Site Assessment for Consolidated Freightways, 6050 East Marginal Way South, Seattle, Washington 98108 dated January 2003, prepared by Phase One Inc.
3rd and Lander Transfer Station	Republic Services, Inc. 3rd and Lander Transfer Station at 2733 3rd Avenue South in Seattle, Washington

1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this Cleanup Action Closure Report (Closure Report) on behalf of Prologis, Inc. (Prologis) to document the cleanup action completed in conjunction with redevelopment of the property at 6050 East Marginal Way South in Seattle, Washington (herein referred to as the Property) (Figure 1). Previous subsurface investigations conducted on the Property by Farallon and others delineated the nature and extent of total petroleum hydrocarbons (TPH) as gasoline-range organics (GRO), diesel-range organics (DRO), and oil-range organics (ORO); and benzene, toluene, ethylbenzene, and xylenes (BTEX) (collectively referred to herein as the constituents of concern [COCs]) present at concentrations exceeding the Washington State Department of Ecology (Ecology) Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup levels in soil and groundwater on the Property.

COCs on the Property were the result of releases of petroleum products to the ground surface and releases of petroleum products from underground storage tank (UST) systems used by former tenant Consolidated Freightways Inc. (Consolidated Freightways) during truck transport and motor freight operations conducted on the Property from approximately 1960 to 2003 (Farallon 2015).

The total extent or area where concentrations of COCs in soil and groundwater exceeded MTCA cleanup levels is referred to as the Site, as defined under MTCA. The Site as it pertains to the cleanup action on the Property is fully contained within the boundaries of the Property. The approximate limits of the Site are shown on Figure 2.

The cleanup action was conducted as an independent remedial action under the Voluntary Cleanup Program (VCP) administered by Ecology. The Property was enrolled in the VCP in January 2017 under the name Consolidated Freightways Seattle and was assigned VCP Site Identification No. NW3050. Other Ecology identification numbers applicable to the Property include Facility/Site No. 54757868 and Cleanup Site No. 6262. Mr. Grant Yang was designated as the Ecology Site Manager.

The cleanup action was completed in accordance with:

- MTCA and its associated Cleanup Regulations, Chapter 173-340 of the Washington Administrative Code (WAC);
- *Remedial Investigation, Focused Feasibility Study, and Cleanup Action Plan, 6050 East Marginal Way South Property, Seattle, Washington* dated February 11, 2016, prepared by Farallon (2016b) (RI/FFS/CAP Report); and
- Environmental Media Management Plan, 6050 East Marginal Way South Property, Seattle, Washington dated February 11, 2016, prepared by Farallon (2016a) (EMMP).

Ecology (2017) reviewed the RI/FFS/CAP Report and EMMP and provided an advisory opinion approving the planned approach for the cleanup action.

Active cleanup of soil and groundwater on the Site is complete. Cleanup of soil has reduced concentrations of COCs to less than MTCA Method A cleanup levels throughout the Site. Residual DRO and ORO have been detected at concentrations exceeding MTCA Method A cleanup levels in groundwater samples collected from a limited part of the western portion of the Site. Concentrations of DRO and ORO in groundwater are expected to diminish over time as a consequence of the removal of the COC sources in soil during the cleanup action on the Site. Therefore, the cleanup action constitutes the final, permanent remedy for soil and meets the requirements for Ecology to issue a Partial Sufficiency opinion as an interim determination for the Site.

1.1 PURPOSE

The purpose of the cleanup action was to remediate and reduce COC concentrations to less than MTCA Method A cleanup levels in soil and groundwater at the Site. The cleanup action has been completed to the extent practicable. Requirements for substantial equivalence under WAC 173-340-545(2) have been met for soil and will be met for groundwater. The near-term objective of the cleanup action is to meet the requirements for obtaining a Site-wide Partial Sufficiency determination from Ecology for the cleanup of soil and the ultimate objective of the cleanup action is to obtain a Site-wide No Further Action determination from Ecology for the cleanup of soil and groundwater.

1.2 ORGANIZATION

This Closure Report is organized as follows:

- **Section 2, Background,** provides a description of the Property and a summary of the historical uses of the Property, a description of the local geology and hydrogeology, and summaries of the previous environmental investigations and remedial actions conducted on the Property;
- **Section 3, Cleanup Action Technical Elements,** presents the technical elements of the cleanup action, including the applicable or relevant and appropriate requirements (ARARs), cleanup action objectives, COCs and media of concern, cleanup standards, and terrestrial ecological evaluation (TEE);
- **Section 4, Cleanup Action,** describes the cleanup action completed for the Site and includes discussion of the pre-excavation preparation, excavation permitting, and source removal;
- **Section 5, Cleanup Action Results,** presents the cleanup action results, including confirmational soil sampling, soil transport and disposal off the Site, and groundwater cleanup;
- **Section 6, Conclusions and Request for Partial Sufficiency Opinion,** presents the conclusions and a request that Ecology issue a Partial Sufficiency Opinion for the Site;

- **Section 7, Bibliography,** provides a list of the documents used in preparing this Closure Report; and
- **Section 8, Limitations,** provides Farallon's standard limitations.

Information supporting this Closure Report is provided in Figures 1 through 10, Tables 1 through 15, and Appendices A through G.

2.0 BACKGROUND

This section provides a description of the Property, a summary of historical uses of the Property, and a description of local geology and hydrology.

2.1 PROPERTY DESCRIPTION AND HISTORY

The Property consists of 13.58 acres of land at 6050 East Marginal Way South in Seattle, King County, Washington, on King County Tax Parcel No. 536720-4646 at approximate Latitude North 47.547044 and Longitude West 122.33185 (Figure 1). The Property and surrounding vicinity are zoned Industrial General 2 Unlimited 85, which includes heavy and general manufacturing, and commercial, transportation, utility, salvage, and recycling services.

The Property was developed as part of a military barracks–type facility in 1943, which was no longer present on the Property by 1956 (Farallon 2015). Two structures referred to as the Transfer Dock Building and the Shop Building were present on the Property by 1958, and were used by Consolidated Freightways as a trucking terminal from at least 1960 until sometime prior to 2003. The buildings were demolished in 2005/2006. Locations of the former buildings and other features are depicted on Figure 2. During Consolidated Freightways operations, the portions of the Property not covered by buildings were covered entirely by asphaltic pavement and concrete surfaces.

Redevelopment of the Property began in June 2017 for construction of a three-floor industrial warehouse with a total of approximately 590,000 square feet of space, and associated ramps, driveways, loading/unloading areas, and parking. Completion of construction is scheduled for 2018.

2.2 GEOLOGY

The Puget Sound region is underlain by Quaternary sediments deposited by a number of glacial advances and retreats that created the existing subsurface conditions. Regional sediments consist primarily of interlayered and/or sequential deposits of alluvial clays, silts, and sands that typically are situated over deposits of glacial till consisting of silty sand to sandy silt with gravel. Outwash sediments consisting of sands, silts, clays, and gravels were deposited by rivers, streams, and post-glacial lakes during the glacial retreats. With the exception of the most-recent recessional deposits, the outwash sediments have been over-consolidated by the overriding ice sheets (Galster and Laprade 1991).

Subsurface stratigraphy encountered in borings advanced on the Property consists generally of silty sand and gravel fill 2 to 3 feet thick overlying loose to compact sand to silty sand, including an intermittent/discontinuous clayey to sandy silt unit 1 foot to 6 feet thick, to depths of 24 feet below ground surface (bgs), the maximum depth explored. Boring logs are provided in Appendix A.

2.3 HYDROLOGY

Depth to groundwater as measured in groundwater monitoring wells on the Property has varied between 6.25 and 9.44 feet bgs (Table 1). Daily groundwater level fluctuations up to 0.5 foot due to tidal cycle influences have been observed at the Property (Blymyer Engineers, Inc. [Blymyer] 1988b). Inferred groundwater flow direction in the unconfined aquifer is toward the west to southwest based on groundwater monitoring conducted between 1988 and 2003.

The nearest surface water body is the Lower Duwamish Waterway. Slip 1 of the Lower Duwamish Waterway is approximately 350 feet west of the Property, and the main channel of the Lower Duwamish Waterway is approximately 1,000 feet to the west (Figure 1). Historically, stormwater runoff collected in a network of catch basins and conveyance piping on the Property, and discharged to the combined sewer outfall beneath South Michigan Street to the south, where stormwater from the Property combined with stormwater from other properties in the area (Farallon 2015). After redevelopment, stormwater will be retained in an underground detention vault, then treated and discharged to the City of Seattle combined stormwater and sanitary sewer system.

2.4 PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

Subsurface investigations have been conducted periodically at the Property beginning in 1988. The investigations included advancing a large number of borings and collecting and analyzing soil and reconnaissance groundwater samples, installing groundwater monitoring wells and collecting and analyzing groundwater samples, and collecting groundwater monitoring data. Interim remedial actions completed on the Site included decommissioning of USTs and associated piping and dispensers, and excavation and treatment and/or disposal of contaminated soil. A summary of the subsurface investigations and interim remedial actions is provided in the following sections.

2.4.1 1988 Contamination Investigation—Blymyer Engineers, Inc.

Five USTs were decommissioned by removal under the direction of Blymyer (1988b) during two phases of excavation conducted in April and June 1988. An 8,000- and a 10,000-gallon diesel fuel UST and a 5,000-gallon motor oil UST were decommissioned in April 1988; and two 3,000-gallon waste oil USTs were decommissioned in June 1988. All five USTs were removed from the same tank hold adjacent to the western side of the Shop Building (Figure 2). Approximately 185 cubic yards of contaminated soil was removed from the excavation for ex-situ treatment on the Site. DRO and ORO were detected at concentrations exceeding MTCA Method A cleanup levels in confirmational soil samples collected from the western and southern portions of the excavation (Figure 4A; Table 2). This soil was left in-place, and the excavation was backfilled with clean imported soil.

Confirmational soil samples collected proximate to the waste oil USTs (i.e., in the southern portion of the UST hold) were analyzed additionally for purgeable halocarbons and Resource Conservation and Recovery Act metals (Tables 3b and 6). Halocarbons were not detected at concentrations exceeding laboratory detection limits. Metals either were not detected at

concentrations exceeding the laboratory detection limits or were detected at concentrations less than MTCA Method A cleanup levels.

Monitoring wells MW-1 and MW-2A through MW-5 were installed around the tank excavation area in late June 1988 to collect groundwater samples for analysis for DRO and ORO (Figure 3A). Based on groundwater levels measured in July 1988, the inferred groundwater flow directions were west to southwest, with a distinct tidal influence. The results from groundwater sampling and analyses are discussed in Section 2.4.2, 1988 – 1989 Groundwater Monitoring Results. Well installation logs are provided in Appendix A.

Although not discussed in the Blymyer (1988b) report, Blymyer (1988a) communications with Ecology in April 1988 indicated that a 10,000-gallon gasoline UST northwest of the former Office Building on the Site was decommissioned by removal concurrently with removal of the diesel fuel and motor oil USTs. GRO was detected at a concentration exceeding the MTCA Method A cleanup level in confirmational soil sample T-9, collected from the gasoline UST excavation (Figure 4C; Table 2). BTEX compounds were not detected at concentrations exceeding either the laboratory detection limits or the MTCA Method A cleanup level in the confirmational soil samples. Approximately 60 to 100 cubic yards of GRO-contaminated soil from the gasoline UST hold was combined with DRO- and ORO-contaminated soil removed from the diesel fuel/motor oil/waste oil UST excavation for treatment using aboveground enhanced biodegradation.

Groundwater Technology, Inc. (GTI) (1989a), under contract to Blymyer, constructed soil treatment piles in November 1988, with interior perforated piping and a vacuum blower to provide air flow. Nutrients were applied to the soil, and the soil piles were covered with plastic sheeting. The treatment piles were reconstructed in June 1989 to improve circulation. Periodic performance samples were collected through at least June 1989 (see Soil Treatment Mound sample results in Table 2). DRO, GRO, and BTEX either were not detected at concentrations exceeding MTCA Method A cleanup levels or were not detected at concentrations exceeding the laboratory reporting limits in soil samples collected from the treatment piles between March and June 1989. The final disposition and disposal of this soil is not known.

Laboratory reports for the soil and groundwater sample analyses discussed in this section are provided in Appendix B.

2.4.2 1988 – 1989 Groundwater Monitoring Results—Blymyer Engineers, Inc.

Five groundwater sampling and monitoring events were conducted by GTI on behalf of Blymyer (1988c, 1989a, 1989b, 1989c, 1989d) from October 1988 to December 1989. The groundwater samples were analyzed for DRO only, with the exception of the groundwater samples collected on October 6, 1988, which were analyzed also for chromium and lead. DRO was not detected at concentrations exceeding the laboratory detection limits in any of the groundwater samples analyzed (Table 8), although the laboratory detection limits were greater than the MTCA Method A cleanup level for all analyses. Lead was detected at a concentration exceeding the MTCA Method A cleanup level in one groundwater sample collected from monitoring well MW-2A. Chromium or lead was not detected at a concentration exceeding laboratory detection limits in the

other groundwater samples (Table 11), although the laboratory detection limits were greater than the MTCA Method A cleanup levels, as for the DRO results. The laboratory reports for the groundwater sample analyses are provided in Appendix B.

Based on the groundwater sampling results, Ecology provided authorization to decommission the monitoring wells. GTI (1990) decommissioned the monitoring wells in-place on January 10, 1990.

2.4.3 1997 Site Investigation—Shannon & Wilson, Inc.

During UST product line integrity testing conducted in March 1997, a leak was detected in the pressurized product line that ran from the two 20,000-gallon diesel fuel USTs to the Shop Building (Figure 3B). The piping was exposed and partially replaced with new single-walled steel pipe. A second line test indicated another leak in the pressurized product line. After the second leak was repaired, the piping was re-tested and determined to be tight.

In August 1997, soil borings P-1 through P-10 were advanced using a direct-push rig under the oversight of Shannon & Wilson, Inc. (1997) to evaluate the product line release (Figure 3B). Two soil samples and one reconnaissance groundwater sample were collected from each boring for analysis for DRO. The soil and groundwater analytical results are provided in Tables 2 and 8, respectively; soil analytical results are shown on Figure 4B.

DRO was detected at concentrations exceeding MTCA Method A cleanup levels in soil and reconnaissance groundwater samples collected from boring P-2, near the product line DRO release adjacent to the northern end of the Shop Building, and from boring P-4, adjacent to the diesel fuel UST hold northwest of the Shop Building. During sample collection, hydrocarbon odors and sheen were noted in soil samples collected from borings P-2, P-4, P-5, and P-7. A slight sheen was observed on the groundwater sample collected from boring P-2.

During the investigation, groundwater was encountered at a depth of approximately 7.5 feet bgs. Four temporary piezometers were installed to evaluate the direction of groundwater flow, which was inferred to be west to northwest (Shannon & Wilson, Inc. 1997).

2.4.4 1998 Site Investigation and Risk Assessment—Golder Associates Inc.

Petroleum-impacted soil encountered in the area of the diesel fuel product line release proximate to boring P-2 was excavated and stockpiled on the Site in March 1998 during installation of one new 20,000-gallon diesel UST in a previously unused location immediately north of the Shop Building (Figures 2 and 3B). The new diesel UST replaced the function of the two 20,000-gallon diesel USTs located northwest of the Shop Building. The impacted soil was removed from the Site in November 1998 for treatment by thermal desorption at the facilities of TPS Technologies Inc. in Tacoma, Washington. Soil disposal documentation is provided in Appendix G.

In April 1998, Golder Associates Inc. (Golder) (1998a) conducted a site investigation and risk assessment for the Site. The site investigation included soil sampling along the diesel fuel product line trench, installation of groundwater monitoring wells MW-1 through MW-3 and product

recovery wells RW-1 and RW-2 (Figure 3B), and analysis of collected soil and groundwater samples for DRO, ORO, GRO, BTEX, and polycyclic aromatic hydrocarbons (PAHs). Selected soil samples were analyzed also for extractable petroleum hydrocarbons/volatile petroleum hydrocarbons (EPH/VPH).

According to Golder (1998a), the highest concentrations of DRO, BTEX, PAHs, and EPH/VPH in soil were detected in the vicinity of well RW-2 and in trench sample CF-T1 (Figure 4B; Tables 2, 5, and 7). These areas were near the former UST hold northwest of the Shop Building and the diesel fuel release from the product line, respectively. PAH compounds were detected at concentrations less than MTCA cleanup levels in some soil samples collected from wells MW-2, RW-1, and RW-2 (Table 5); naphthalene was detected at concentrations exceeding the MTCA Method A cleanup level in soil samples collected from wells RW-1 and RW-2.

Petroleum hydrocarbons were not detected at concentrations exceeding MTCA Method A cleanup levels in soil samples collected at a depth less than approximately 2 feet bgs in the diesel fuel product line trench, with exception of sample CF-T1, collected in the area with visible petroleum staining and with an elevated EPH/VPH concentration (Table 7). No groundwater samples were collected in the product line trench area.

DRO and ORO were detected at concentrations exceeding MTCA Method A cleanup levels in groundwater samples collected from monitoring wells MW-2, MW-3, and well RW-2. DRO was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from monitoring well RW-1. Benzene was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from well RW-2. The only PAH detected at a concentration exceeding the MTCA Method A or B cleanup level was 2-methylnaphthalene, detected in the groundwater sample collected from well RW-2. Petroleum hydrocarbons were not detected at concentrations exceeding MTCA Method A cleanup levels in groundwater samples collected from up-gradient monitoring well MW-1. The petroleum hydrocarbon and PAH analytical results for groundwater are provided in Tables 8 and 10, respectively.

The well installation logs for monitoring wells MW-1 through MW-5 and wells RW-1 and RW-2 are provided in Appendix A. The laboratory reports for the groundwater sample analyses discussed above are provided in Appendix B.

Golder (1998a) conducted a risk assessment to determine whether petroleum hydrocarbons in soil and/or groundwater at the Site posed a risk to human health. The results from the risk assessment were used to develop Site-specific risk-based cleanup levels for petroleum hydrocarbons in soil. Golder concluded that petroleum hydrocarbons in soil at the Site did not exceed the risk-based screening levels calculated in accordance with the Ecology TPH Interim Interpretive Policy. However, concentrations of DRO and ORO exceeded MTCA Method A cleanup levels in groundwater, and benzene was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from well RW-2. Golder suggested additional groundwater investigation was warranted to define the extent of groundwater impacts at the Site.

2.4.5 1998 Permanent UST Decommissioning and Closure—Fluor Daniel GTI, Inc.

In July 1998, the two 20,000-gallon diesel fuel USTs northwest of the Shop Building were decommissioned by removal by Joe Hall Construction. Fluor Daniel was contracted by Joe Hall Construction to provide environmental oversight and site assessment sampling during removal of the two USTs.

Fluor Daniel (1998) observed pitting along the bottoms and western ends of the steel USTs. Concentrations of DRO were detected in soil and groundwater in the UST excavation, and contaminated soil subsequently was removed from the UST excavation. However, DRO was detected at concentrations exceeding the MTCA Method A cleanup level in the confirmational soil samples collected from the edges of the excavation along the northern and eastern sidewalls. Recovery well RW-1 was damaged and removed.

Contaminated soil excavated during removal of the USTs was stockpiled with contaminated soil excavated during preparations for the installation of the new 20,000-gallon diesel fuel UST north of the Shop Building. Approximately 800 tons of stockpiled soil was transported to TPS Technologies Inc. in Tacoma, Washington in November 1998 for treatment by thermal desorption (Golder 1998b). Disposal documentation is provided in Appendix G.

Following decommissioning of the two 20,000-gallon diesel fuel USTs, residual contaminated soil remained proximate to the former UST hold. The primary data gap noted by Fluor Daniel was the down-gradient extent of the petroleum hydrocarbon plume in groundwater.

2.4.6 2000 Groundwater Investigation and Groundwater Monitoring Work Plan—Golder Associates Inc.

On August 17 and 18, 1999, Golder (2000a) conducted a groundwater investigation at the Site that included collection of groundwater samples from the existing on-Site monitoring wells and collection of reconnaissance groundwater samples from borings GP-1 through GP-13, down-gradient of the TPH source areas, using direct-push sampling techniques (Figure 6). The objectives of the groundwater investigation were to:

- Define the approximate extent of the TPH plume identified during previous groundwater sampling events at the Site;
- Evaluate the TPH plume flow path to support installation of additional down-gradient monitoring wells; and
- Determine whether the TPH plume was migrating off the Property.

Groundwater samples collected from the four monitoring wells were analyzed for DRO, ORO, and BTEX. Reconnaissance groundwater samples collected from borings GP-1 through GP-13 were analyzed for DRO and ORO. The groundwater analytical results are presented in Table 8 and shown on Figure 6. The laboratory reports for the groundwater sample analyses are provided in Appendix B. Figure 6 shows the estimated extent of the TPH groundwater plume where DRO

and/or ORO were detected at concentrations exceeding MTCA Method A cleanup levels during the August 1999 sampling event.

The results of the groundwater investigation are summarized as follows:

- Leaking USTs and piping, considered the source of TPH, were removed, and contaminated soil was excavated and disposed of;
- TPH at concentrations exceeding MTCA Method A cleanup levels remained in soil and groundwater within the Property boundaries;
- DRO was the primary TPH contaminant in groundwater;
- The highest concentration of DRO in groundwater was detected proximate to the former 20,000-gallon diesel fuel USTs;
- Benzene was detected at a concentration exceeding the MTCA Method A cleanup level in groundwater proximate to well RW-2;
- The TPH plume extended from the former UST and product line source areas toward the west and southwest; and
- The area in which DRO and ORO were detected at concentrations exceeding MTCA Method A cleanup levels in groundwater did not extend beyond the western Property boundary.

2.4.7 2001 Results from Additional Groundwater and Soil Investigations—Golder Associates Inc.

Golder (2000b) prepared a strategy to provide additional data requested during a meeting with Ecology in August 2000 for consideration of a No Further Action determination for the Site. The strategy included installation of three additional groundwater monitoring wells, soil sampling in selected portions of the Site to further delineate areas of residual soil contamination, assessment of relevant exposure pathways associated with the residual soil contamination, and addition of analyses for volatile organic compounds (VOCs) for samples collected from the groundwater monitoring wells.

Golder (2001) initiated the data acquisition strategy in January 2001 by installing monitoring wells MW-4, MW-5, and MW-6 along the down-gradient Property boundary to assess the westward limit of the TPH plume on the Property (Figure 7). Logs for the monitoring wells are provided in Appendix A. On January 17, 2001, approximately 1 week following installation of the monitoring wells, groundwater samples were collected from monitoring wells MW-1 through MW-6 for analysis for DRO, ORO, VOCs, and PAHs.

The analytical results for the groundwater samples collected from the monitoring wells are summarized in Tables 8 through 10. The laboratory analytical reports are provided in Appendix B.

The DRO and ORO analytical results for the groundwater samples are shown on Figure 7 and summarized below:

- DRO and ORO were detected at concentrations exceeding MTCA Method A cleanup levels in monitoring wells MW-2 and MW-3, which was consistent with analytical results from sampling events conducted in 1998 and 1999 (Table 8).
- Analytical results for groundwater samples collected from monitoring wells MW-4 through MW-6 confirmed that DRO and ORO were not migrating off the Property at concentrations exceeding MTCA Method A cleanup levels (Figure 7).
- Several PAH compounds were detected at concentrations less than MTCA Method A cleanup levels in the groundwater sample collected from monitoring well MW-2. Carcinogenic PAHs (cPAHs) were not detected at concentrations exceeding laboratory reporting limits in any of the groundwater samples. These results were consistent with those from the groundwater sampling event conducted in 1998 (Golder 1998a) (Table 10).
- Various VOCs were detected at concentrations less than MTCA cleanup levels (Tables 9a and 9b) in groundwater samples. Vinyl chloride was detected at concentrations slightly exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring wells MW-4 and MW-6 (Table 9a).

Additional soil data were obtained to delineate the nature and extent of contamination in soil and to assess whether the contamination in soil posed a risk via relevant exposure pathways. Golder conducted a soil investigation focused on the three areas where releases occurred in the past and where contamination had been detected. These three investigation areas are shown on Figures 2, 3A, and 3B and include:

- The UST excavation area west of the Shop Building where five USTs were removed in 1988;
- The product line release area adjoining the northern end of the Shop Building; and
- The UST excavation area northwest of the Shop Building where two 20,000-gallon diesel fuel USTs were removed in 1998.

Soil samples were collected from borings SP-1 through SP-13 using a direct-push rig. At each boring location, soil samples were collected from depth intervals of 2 to 5, 5 to 8, and 8 to 11 feet bgs. Selected soil samples were analyzed for DRO and ORO, and six additional samples (i.e., at least one sample from each of the three investigation areas) were analyzed for BTEX, PAHs, and EPH/VPH to assess exposure pathways. The soil analytical results are presented in Tables 2, 5, and 7; laboratory analytical reports are provided in Appendix B.

Golder concluded that the nature and extent of TPH in soil on the Site were defined and bound on all sides. The distribution of TPH in soil is consistent with sources of releases at the two UST excavation areas and in the product line release area. DRO and ORO were the only constituents frequently detected in soil samples collected at the Site.

Benzene and xylenes were detected at concentrations exceeding MTCA Method A cleanup levels in soil samples collected from borings SP-8 and SP-9 within approximately 10 to 15 feet of the area of the former product line release (Table 2; Figure 3B). These results were consistent with those for aromatic hydrocarbons detected in soil and groundwater at nearby well RW-2 (Golder 1998a and 2000a).

PAHs and cPAHs were detected in soil samples at concentrations less than MTCA Method A cleanup levels, with the exception of naphthalene, which was detected at concentrations exceeding the MTCA Method A cleanup level in samples collected from borings SP-6 and SP-8 near the product line release area. These results were consistent with PAH and cPAH analytical data previously reported by Golder (1998a).

The laboratory reports for the groundwater and soil sample analyses discussed above are provided in Appendix B.

2.4.8 2004 Phase II Investigation—Golder Associates Inc.

In December 2003, Golder (2004) conducted a Phase II investigation to evaluate the environmental concerns presented in the *Phase I Environmental Site Assessment for Consolidated Freightways, 6050 East Marginal Way South, Seattle, Washington* dated January 2003 prepared by Phase One Inc. (2003) (2003 Phase I ESA). The environmental concerns identified in the 2003 Phase I ESA and the investigations conducted by Golder (2004) are discussed in the following sections.

2.4.8.1 Groundwater Monitoring

The 2003 Phase I ESA identified groundwater contamination as an environmental issue and recommended further groundwater monitoring using the existing monitoring wells until Ecology issues a No Further Action determination.

In December 2003, Golder (2004) conducted groundwater monitoring and sampling at monitoring wells MW-1 through MW-6 and well RW-2. Groundwater samples were analyzed for DRO, ORO, GRO, and VOCs.

DRO and ORO were not detected at concentrations exceeding laboratory reporting limits in groundwater samples collected from any of the monitoring wells. GRO was detected at a concentration exceeding the laboratory detection limit in the groundwater sample collected from well RW-2, but at a concentration less than the MTCA Method A cleanup level. GRO was not detected at a concentration exceeding the laboratory reporting limit in groundwater samples collected from any of the other monitoring wells.

Benzene was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from well RW-2. Several petroleum-related VOCs were detected at concentrations exceeding laboratory detection limits in the groundwater sample collected from well RW-2, but at concentrations less than MTCA cleanup levels. No other

VOCs were detected at concentrations exceeding laboratory detection limits in the groundwater samples collected from other monitoring wells on the Site.

Vinyl chloride was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring wells MW-4 and MW-6 during groundwater sampling events conducted in January and June 2001. However, the laboratory detection limits for vinyl chloride were elevated for groundwater samples collected during the December 2003 sampling event, and detections of vinyl chloride may have been masked.

Groundwater flow direction was toward the west-southwest during the December 2003 groundwater monitoring event. The groundwater flow direction was consistent with that determined during prior groundwater monitoring events. Groundwater elevation data for this sampling period and sampling events in January and June 2001 are presented in Table 1. Groundwater analytical results are presented in Tables 8, 9a, and 9b. TPH results and groundwater elevation contours are shown on Figures 7 and 8. Analytical reports are provided in Appendix B.

2.4.8.2 Subsurface Investigation

An oil-water separator known as the grease trap adjacent to the northern end of the Shop Building, and an oil-water separator known as the sand trap and a drainage trench associated with the former wash rack that adjoined the eastern side of the Shop Building were identified as potential sources of releases. The 2003 Phase I ESA recommended investigating subsurface conditions at the oil-water separators and drainage trench.

Because previous subsurface investigations evaluated soil and groundwater conditions in the area surrounding the grease trap, Golder (2004) did not conduct additional investigation in that area. Borings GP-6 through GP-8 were advanced on the eastern side of the Shop Building at the sand trap and drainage trench area. Soil and reconnaissance groundwater samples were collected for analysis for DRO, ORO, GRO, and VOCs.

Neither DRO, GRO, nor BTEX was detected at concentrations exceeding laboratory reporting limits in the soil samples collected during the December 2003 monitoring event from borings GP-6 through GP-8. ORO was detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring GP-6. ORO was not detected at concentrations exceeding the laboratory reporting limit in the soil samples collected from borings GP-7 or GP-8. One or more VOCs were detected at concentrations exceeding laboratory detection limits but not exceeding MTCA Method A or B cleanup levels in the soil samples collected from each boring.

Neither DRO, ORO, GRO, nor BTEX was detected at concentrations exceeding the laboratory reporting limits in the reconnaissance groundwater samples collected from borings GP-6 through GP-8. One or more VOCs were detected at concentrations less than MTCA Method A or B cleanup levels in the reconnaissance groundwater samples collected

from borings GP-7 and GP-8. No other VOCs were detected at concentrations exceeding laboratory detection limits.

Soil analytical results are presented in Tables 2, 3a, and 3b. TPH results are shown on Figure 4B. Groundwater analytical results are presented in Tables 8, 9a, and 9b. Analytical reports are provided in Appendix B.

2.4.8.3 UST Location Assessment

Two USTs with capacities of 500 and 5,000 gallons identified in historical documents for the Property were not accounted for and were suspected of remaining in-place on the Property. The 2003 Phase I ESA recommended conducting a geophysical survey and/or subsurface investigation to evaluate the potential presence of the USTs.

In its December 2003 investigation, Golder (2004) identified a 10,000-gallon gasoline and a 5,000-gallon lube oil UST in the area north of the Office Building from 1958 building plans (Figures 2 and 3C). This area had not been previously investigated. Golder (2004) therefore conducted the following activities:

- Performed a geophysical survey over the former UST area using magnetometer and ground-penetrating radar methods;
- Advanced borings GP-1 through GP-5 by direct-push methods at the former UST area; and
- Collected soil and reconnaissance groundwater samples from borings GP-1 through GP-5 for analyses for DRO, ORO, GRO, and VOCs.

The geophysical investigation conducted north of the Office Building did not identify evidence of the presence of USTs in this area.

Borings GP-1 through GP-5 were advanced at the locations where USTs were indicated on the 1958 building plans. DRO, GRO, and BTEX were not detected at concentrations exceeding laboratory reporting limits in the soil samples collected from borings GP-1 through GP-5. ORO was detected at a concentration less than the MTCA Method A cleanup level in the soil sample collected from boring GP-4 at a depth of 2 to 4 feet bgs. VOCs were detected at concentrations less than MTCA Method A or B cleanup levels in one or more of the soil samples collected from each boring.

Neither DRO, ORO, GRO, BTEX, nor other VOCs was detected at concentrations exceeding laboratory reporting limits in the reconnaissance groundwater samples collected from borings GP-1 through GP-5.

Soil analytical results are presented in Tables 2, 3a, and 3b. Groundwater analytical results are presented in Tables 8, 9a, and 9b. Soil analytical results for TPH are shown on Figure 4C. Analytical reports are provided in Appendix B.

2.4.9 2015 Environmental Due Diligence Assessment—Farallon Consulting, L.L.C.

Farallon (2015) conducted a combined Phase I Environmental Site Assessment, which identified recognized environmental conditions for the Property, and a Phase II subsurface investigation to evaluate those recognized environmental conditions. The recognized environmental conditions identified by Farallon (2015) were:

- The known release of hazardous substances on the Property from historical fuel and waste-oil USTs; and
- The potential migration of hazardous substances to the Property from current and historical operations on properties adjacent and proximate to the Property.

The purposes of the Phase II subsurface investigation conducted by Farallon (2015) were to:

- Conduct a survey to assess the status of three diesel-fuel USTs (with capacities of 500, 1,000, and 20,000 gallons) identified in the 2015 Phase Due Diligence Report as a data gap; and
- Conduct a subsurface soil and groundwater investigation to determine the extent of known or suspected releases of hazardous substances beneath the Property, and screen other portions of the Property for potential releases associated with historical activities both on and off the Property.

Activities conducted during the UST survey and the subsurface soil and groundwater investigation are discussed in the following sections.

2.4.9.1 Underground Storage Tank Survey

The scope of work for the UST survey consisted of using ground-penetrating radar proximate to the suspected UST locations. The UST survey did not identify evidence of USTs present at the suspected location of the potential 500-gallon diesel fuel UST near the former wash rack on the eastern side of the former Shop Building, or at the suspected location of the former diesel fuel/heating oil UST southeast of the former Office Building (Figure 2).

The location of the 20,000-gallon diesel fuel UST was confirmed north of the former Shop Building (Figure 2). Insufficient information was available to justify investigation of the potential in-place abandonment of a 10,000-gallon UST on the Property. No evidence of the 10,000-gallon UST was identified during the ground-penetrating radar survey for other USTs or during the field work conducted for the subsurface soil and groundwater investigation.

UST information from historical research and the findings of the UST survey at the Property are summarized below by area.

USTs formerly west of the former Shop Building (Figure 2) included:

- A 10,000-gallon diesel fuel UST installed in 1958 and removed in 1988;
- An 8,000-gallon diesel UST installed in 1958 and removed in 1988;
- A 5,000-gallon lube oil UST installed in 1958 and removed in 1988; and
- Two 3,000-gallon waste oil USTs installed in 1958 and removed in 1988.

USTs formerly northwest of the former Shop Building (Figure 2) included:

- Two 20,000-gallon diesel fuel USTs installed in 1981 and removed in 1998.

USTs in the former northwest UST area (Figure 2) included:

- A 10,000-gallon gasoline UST installed prior to 1958, removal date unknown, but assumed to be 1988 based on a Blymyer (1988a) memorandum; and
- A 5,000-gallon lube oil UST installed prior to 1958, removal date unknown, but assumed to have been removed concurrent with removal of the 10,000-gallon gasoline UST.

Other former USTs (Figure 2) included:

- A 1,000-gallon heating oil UST southeast of the former Office Building, installation and removal dates unknown; and
- A 500-gallon diesel fuel UST east of former Shop Building, near the northern end of the former wash rack area, installation and removal date unknown.

UST north of former Shop Building (Figure 2):

- A 20,000-gallon diesel fuel UST installed in 1998, which remained present on the Property at the time of Farallon's 2015 subsurface investigations.

2.4.9.2 Subsurface Soil and Groundwater Investigation

Sufficient information was collected during Farallon's 2015 investigations to address the data gap identified during Farallon's Phase I Environmental Site Assessment and investigate the areas of suspected contamination that had not been assessed in previous investigations. The analytical results for soil and groundwater samples were compared to MTCA Method A cleanup levels, or to MTCA Method B cleanup levels if there were no Method A cleanup levels.

During previous subsurface investigations conducted at the Site, DRO had been detected at concentrations exceeding the MTCA Method A cleanup level in soil and groundwater samples collected at the former UST areas and the former product line release area near the former Shop Building. Based on Farallon's review, additional assessment of DRO in soil proximate to the former UST areas was not deemed warranted because of the significant

set of existing analytical data from prior assessments in these areas. Soil samples collected by Farallon from this area were analyzed for polychlorinated biphenyl compounds (PCBs). The former product line release area was further assessed to the south. Contamination in soil or groundwater was not detected in the former northwest UST area (Figure 2) during previous investigations; therefore, further assessment was not warranted.

Farallon collected two soil samples and reconnaissance groundwater samples each from borings F-1 through F-8, and groundwater samples from existing wells RW-2, MW-2, MW-3, and MW-4 for laboratory analysis. After review of the analytical results for these samples, additional soil and reconnaissance groundwater samples were collected from borings F-9 through F-18, and additional groundwater samples were collected from existing monitoring wells MW-5 and MW-6 for laboratory analysis to further characterize areas of known or potential releases.

Soil borings were advanced using a direct-push rig; soil, groundwater, and reconnaissance groundwater samples were collected using industry-standard methodologies. Soil and reconnaissance groundwater samples were selectively analyzed for DRO, GRO, ORO, VOCs, PCBs, and PAHs. Soil sample depths were selected based on field observations for potential contamination. Groundwater was encountered during the investigation at depths of between approximately 7 and 10 feet bgs. Soil boring and monitoring well locations are shown on Figures 3A, 3B, 3C, and 9.

Analytical results are summarized in Tables 2, 3a, 4, 8, 9, and 10, and below by area:

Proximate to the Former Heating Oil UST:

- GRO was detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring F-5 at a depth of 6.7 feet bgs (Figure 4C; Table 2). GRO was not detected at a concentration exceeding the laboratory reporting limit in the reconnaissance groundwater sample collected from boring F-5 (Table 8).
- DRO was detected at a concentration exceeding the laboratory reporting limit but less than the MTCA Method A cleanup level in both the soil and reconnaissance groundwater samples collected from boring F-5.
- Neither GRO nor DRO was detected in soil or reconnaissance groundwater samples collected from borings F-9 through F-12, which surround boring F-5, indicating that residual GRO impact in the former heating oil UST area was bounded on all sides, and therefore very limited in extent.

Proximate to the 20,000-Gallon Diesel Fuel UST (North of the Former Shop Building):

- GRO was detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring F-8 at a depth of 5 feet bgs (Figure 4B; Table 2) proximate to the western end of the current 20,000-gallon diesel fuel UST.

- DRO and ORO were detected in the reconnaissance groundwater sample collected from boring F-8 (Table 8) at concentrations exceeding the MTCA Method A cleanup level.
- Neither GRO nor ORO was detected at concentrations exceeding laboratory detection limits in soil samples collected from soil borings F-15 through F-17, advanced proximate to the other three sides of the UST.
- DRO was detected at a concentration less than the MTCA Method A cleanup level in the soil sample collected from boring F-17.
- The cumulative analytical results suggest that petroleum impact in this area was related to the known release from the nearby product line, and not a release from the UST.

Proximate to the Former Product Line Release Area:

- DRO was detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring F-14 (Figure 4B; Table 2), proximate to the former product line release area.
- DRO was not detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring F-13, advanced west of boring F-14.

Proximate to the Former Shop Building UST Areas:

- PCBs were not detected at a concentration exceeding the laboratory reporting limit in the soil sample collected from boring F-18, within the area of residual impact from the former UST hold that contained five USTs for storage of diesel fuel, motor oil, and waste oil.
- DRO was detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring F-18, which was consistent with historical data.
- DRO and ORO were detected at concentrations exceeding MTCA Method A cleanup levels in groundwater samples collected from wells MW-2, MW-3, and RW-2, proximate to the former Shop Building UST areas (Table 8).
- The PAH compound 2-methylnaphthalene was detected at a concentration exceeding the MTCA Method B cleanup level in the groundwater sample collected from well RW-2 (Table 10).
- The groundwater analytical results for wells MW-4 through MW-6 suggested that petroleum constituents at concentrations exceeding MTCA Method A or Method B cleanup levels were not migrating off the Property.

Potential Migration of Chemicals from Off-Property Sources onto the Property:

- Vinyl chloride was detected at concentrations of 0.23 and 0.3 micrograms per liter (µg/l) in groundwater samples collected from monitoring wells MW-2 and MW-4 (Table 9a), respectively, which exceeded the MTCA Method A cleanup level of 0.2 µg/l and was less than the Ecology screening level of 0.35 µg/l for vapor intrusion.

Potential Presence of PCBs in Soil:

- PCBs were not detected at concentrations exceeding laboratory reporting limits in soil samples screened for PCBs.

The laboratory reports for the soil and groundwater sample analyses discussed above are provided in Appendix B.

Petroleum hydrocarbons were detected at concentrations exceeding MTCA Method A and/or Method B cleanup levels in soil and groundwater proximate to one or more of the following: the former heating oil UST; the former Shop Building UST areas; and the former product line release area.

The petroleum hydrocarbons detected in soil west of the 20,000-gallon diesel fuel UST appeared related to the former product line release area. The petroleum hydrocarbons detected in soil and groundwater proximate to the former heating oil UST were bound, and appeared very limited in extent. Groundwater sample analytical data suggested that petroleum constituents at concentrations exceeding MTCA Method A and/or Method B cleanup levels were not migrating off the Property.

The regional VOC plume associated with releases at the Capital Industries, Inc. property at 5801 3rd Avenue South (located directly north of the Property) was present in the Property vicinity. The presence of vinyl chloride detected in groundwater samples collected from wells MW-4 and MW-6 on the Property was associated with the regional VOC plume.

No other compounds were detected at concentrations exceeding MTCA cleanup levels during the 2015 subsurface soil and groundwater analysis conducted by Farallon.

2.4.10 2016 UST Decommissioning—Farallon Consulting, L.L.C.

Decommissioning and site assessment activities for the 20,000-gallon diesel fuel UST north of the former Shop Building were conducted by Farallon on September 6 through 9, 2016 (Figure 2). The UST was registered in the Ecology Toxics Cleanup Program Web Reporting Underground Storage Tanks, UST Site/Tank Data Summary (UST Database) as UST No. 11012.

Consolidated Freightways installed the diesel fuel UST in 1998 for use in refueling haul trucks. The UST and associated product supply lines were constructed of double-walled reinforced fiberglass, and included the most-current leak-detection, spill-prevention, and overfill-prevention features available at the time of installation. The UST Database identified the UST as temporarily

closed in 2003, which coincided with the time of cessation of Consolidated Freightways operations on the Property. The diesel dispenser for the UST, at the northern end of the former Shop Building, was decommissioned by others during demolition of the Shop Building in 2003. The approximate location of the former diesel dispenser is shown on Figure 3B.

The UST decommissioning services were provided by Wyser Construction Company, Inc. of Snohomish, Washington (Wyser). The decommissioning process included the following activities:

- Flushing the product lines to transfer any residual diesel fuel in the lines back into the UST;
- Breaking and removing the concrete pad and surrounding asphaltic pavement overlying the UST and transporting the material off the Property for recycling;
- Cleaning and triple-rinsing the UST interior and transporting the wash water off the Property for disposal;
- Obtaining a Decommissioning Permit from the Seattle Fire Department and arranging for Seattle Fire Department inspection to authorize removal of the UST;
- Testing the internal atmosphere of the UST by a Marine Chemist in preparation for removal;
- Uncovering the UST and excavating around the sides of the UST, removing all connections and hold-down straps, and lifting the UST from the excavation for inspection;
- Collecting site assessment soil samples from the four sidewalls of the UST excavation at a depth of 6.5 feet bgs, and from the bottom of the excavation at a depth of 13 feet bgs;
- Breaking up the UST into pieces of manageable size and disposing of the materials off the Property as solid waste; and
- Backfilling the excavation with the UST pea-gravel fill supplemented with imported structural fill material.

The site assessment soil samples were submitted for laboratory analysis for DRO, ORO, BTEX, cPAHs, and total naphthalenes. The analytical results for DRO, ORO, BTEX, and total naphthalenes are summarized in Table 2, and the analytical results for cPAHs are summarized in Table 5. The laboratory analytical report is provided in Attachment B.

DRO, BTEX, and cPAHs were not detected at concentrations exceeding laboratory practical quantitation limits (PQLs) in the soil samples analyzed. ORO was detected at a concentration exceeding the laboratory PQL, but less than the MTCA Method A cleanup level, in the sample collected from the west sidewall of the excavation. ORO was not detected at a concentration exceeding the laboratory PQL in the other soil samples collected from the excavation. Both 1-methynaphthalene and 2-methylnaphthalene were detected at concentrations exceeding the laboratory PQLs, but less than the MTCA Method A cleanup level for total naphthalenes, in the sample collected from the north sidewall of the excavation. Naphthalenes were not detected at concentrations exceeding laboratory PQLs in the other soil samples collected from the excavation.

Groundwater in the UST excavation stabilized at a level of 6.5 feet bgs. No petroleum-like sheen was observed on groundwater. Groundwater samples were not collected during the decommissioning of the UST because previous groundwater investigations identified the nature and extent of petroleum hydrocarbons in groundwater on the Site, as discussed above.

Documentation for the UST decommissioning process was submitted to Ecology and documented in the technical memorandum regarding Site Assessment for UST Decommissioning, 6050 East Marginal Way South, Seattle, Washington dated October 20, 2016, prepared by Farallon. The complete technical memorandum is presented in Appendix E.

2.4.11 2017 Pre-Excavation Contaminant Delineation—Farallon Consulting, L.L.C.

A total of 10 pre-excavation test pits were excavated on February 20 and 21, 2017 by Farallon to collect soil samples for analysis from the following areas to confirm the limits of soil contamination and/or refine the extent of soil planned for removal during the cleanup action on the Site (Figures 3A, 3B, and 3C):

- Test pits TP-1 and TP-2 were excavated north and south of the UST hold north of the former Office Building where a gasoline UST and a lube oil UST were decommissioned in 1988. Samples were analyzed for DRO, ORO, GRO, and BTEX.
- Test pit TP-3 was excavated northwest of the UST hold for the two 20,000-gallon diesel fuel USTs decommissioned in 1998. Samples were analyzed for DRO, ORO, GRO, and BTEX.
- Test pits TP-4 and TP-5 were excavated proximate to the southeastern portion of the UST hold west of the former Shop Building where five USTs were decommissioned in 1988. Samples were analyzed for DRO, ORO, GRO, BTEX, VOCs, PAHs, and metals.
- Test pits TP-6 and TP-7 were excavated south and east of boring F-14 near the northern end of the former Shop Building. Samples were analyzed for DRO, ORO, GRO, and BTEX.
- Test pits TP-8 through TP-10 were excavated north, east, and west of boring GP-6 near the former sand trap oil-water separator. Samples were analyzed for DRO, ORO, GRO, and VOCs.

DRO was detected at a concentration exceeding the MTCA Method A cleanup level in the soil samples collected from test pit TP-5 at a depth of 11 feet bgs and test pit TP-7 at a depth of 7 feet bgs. All other analytes either were not detected at concentrations exceeding their respective laboratory PQLs or were detected at concentrations less than applicable MTCA Method A cleanup levels in soil samples collected from the test pits.

The analytical results for DRO, ORO, and BTEX are summarized in Table 2; analytical results for VOCs are summarized in Table 3; analytical results for PAHs are summarized in Table 5; and analytical results for metals are summarized in Table 6. The DRO, ORO, and benzene results are shown on Figures 4A, 4B, and 4C. The laboratory analytical report is provided in Attachment B.

3.0 CLEANUP ACTION TECHNICAL ELEMENTS

This section summarizes the technical elements applicable to the cleanup action completed at the Site.

3.1 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Primary ARARs and guidance documents related to the cleanup action included:

- Model Toxics Control Act, Chapter 70.105D of the Revised Code of Washington (RCW 70.105);
- MTCA, WAC 173-340;
- Dangerous Waste Regulations, WAC 173-303; and
- *Guidance for Remediation of* Petroleum *Contaminated Sites* dated June 2016, prepared by Ecology (2016) (Ecology Guidance).

These primary ARARs are applicable to the cleanup action because they provide the framework for the cleanup action, including applicable and relevant regulatory guidelines, cleanup standards, waste disposal criteria, references for additional ARARs, and standards for documentation of the cleanup action.

Other applicable ARARs and guidance documents related to the cleanup action completed for the Site included:

- *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Ecology 1991);
- Minimum Standards for Construction and Maintenance of Wells, Standards for Decommissioning a Well, WAC 173-160-381;
- The Occupational Safety and Health Act, Part 1910 of Title 29 of the Code of Federal Regulations;
- Safety Standards for Construction Work, WAC 296-155;
- Washington State Solid Waste Management Laws and Regulations, RCW 70.95 and WAC 173-351 and 173-304;
- Draft *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action* (Ecology 2009); and
    - Accreditation of Environmental Laboratories, WAC 173-50.

3.2 CLEANUP ACTION OBJECTIVES

The cleanup action objectives were to:

- Protect human health and the environment by eliminating the risks posed by the COCs detected in soil at the Site;
- Meet applicable MTCA cleanup levels established for soil and groundwater at the points of compliance;
- Comply with all state and federal laws applicable to the cleanup action; and
- Obtain a No Further Action determination for the Site.

3.3 CONSTITUENTS AND MEDIA OF CONCERN

The COCs for the Site are defined as the compounds that have been detected in soil and groundwater samples collected at the Site at concentrations that exceed applicable MTCA Method A cleanup levels.

The COCs for soil were:

- DRO;
- ORO;
- GRO; and
- BTEX.

The COCs for groundwater were:

- DRO;
- ORO;
- GRO;
- Benzene;
- Naphthalenes; and
- Vinyl chloride.

3.4 MEDIA OF CONCERN

Soil and groundwater were confirmed as the affected media of concern at the Site based on results from the remedial investigation. DRO, ORO, GRO, and BTEX were detected in soil; and DRO, ORO, GRO, benzene, naphthalenes, and vinyl chloride were detected in groundwater at concentrations exceeding MTCA Method A cleanup levels.

Soil vapor was identified as a suspected medium of concern at the Site based on historical concentrations of GRO and BTEX in soil; and of GRO, benzene, naphthalenes, and vinyl chloride in groundwater. Concentrations of benzene and/or other volatile COCs detected in samples collected during the most recent groundwater monitoring event conducted at the Site by Farallon (2015) in 2014 do not exceed the 2015 groundwater screening levels protective of indoor air (Ecology 2009, 2015 update to Table B-1). The potential for vapor intrusion at the Site was mitigated by the excavation and removal of contaminated soil and the dewatering and disposal of contaminated groundwater from the Site.

3.5 CLEANUP STANDARDS

As defined in WAC 173-340-700, cleanup standards consist of cleanup levels and the points of compliance at which the cleanup levels are to be attained. The cleanup standards for the Site have been established in accordance with WAC 173-340-700 through 173-340-760 to be protective of human health and the environment.

3.5.1 Soil Cleanup Levels

The selected cleanup levels for COCs in soil at the Site were MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses (Table 740-1 in WAC 173-340-900), as follows:

- GRO: 100 milligrams per kilogram (mg/kg) (due to the general absence of benzene);
- DRO: 2,000 mg/kg;
- ORO: 2,000 mg/kg;
- Benzene: 0.03 mg/kg;
- Toluene: 7 mg/kg;
- Ethylbenzene: 6 mg/kg; and
- Xylenes: 9 mg/kg.

3.5.2 Groundwater Cleanup Levels

The selected cleanup levels for COCs in groundwater at the Site were MTCA Method A Cleanup Levels for Ground Water (Table 720-1 in WAC 173-340-900), as follows:

- GRO: 1,000 µg/l (due to the general absence of benzene);
- DRO: 500 µg/l;
- ORO: 500 µg/l;
- Benzene: 5 µg/l;
- Total naphthalenes: 160 µg/l; and

- Vinyl chloride: 0.2 µg/l.[1]

3.5.3 Points of Compliance

Points of compliance are the locations at which cleanup levels for the COCs must be attained to meet the requirements of MTCA. In accordance with WAC 173-340-740(6), the points of compliance for soil were defined as all soil at the Site where COCs have been detected at concentrations exceeding applicable MTCA soil cleanup levels. In accordance with WAC 173-340-720(8), the points of compliance for groundwater were defined as the uppermost level of the saturated zone extending vertically to the lowest depth at the Site that potentially could be impacted by COCs.

Groundwater samples collected from down-gradient monitoring wells MW-4, MW-5, and MW-6 indicated that groundwater meets the cleanup standards for petroleum-related COCs at these locations, and confirmed that COCs at concentrations exceeding MTCA Method A cleanup levels are contained on the Site within the Property boundaries (Figure 9). The points of compliance for groundwater will be new groundwater monitoring wells that will replace and be proximate to former monitoring wells MW-4 through MW-6 following completion of redevelopment construction.

3.6 TERRESTRIAL ECOLOGICAL EVALUATION

A TEE is required by WAC 173-340-7490 where there has been a release of hazardous substances to soil. Based on the criteria for TEE exclusion in WAC 173-340-7491(1)(c)(i), the Site was excluded from a TEE because there were less than 1.5 acres of contiguous undeveloped land on the Site or within 500 feet of any area of the Site, and the Site was not contaminated with any of the hazardous substances listed in WAC 173-340-7491(1)(c)(ii). In addition, following redevelopment construction, the entire Property will be covered with buildings and pavement, with the exception of minor landscaped areas. A TEE Form for the Site and a figure showing the 500-foot buffer around the Site is provided in Appendix C. No further consideration of ecological impacts is required under MTCA.

[1] Vinyl chloride detected in groundwater at the Property is part of a large regional VOC plume associated with releases from an up-gradient source off the Property identified as the Capital Industries, Inc. property at 5801 3rd Avenue South. Active cleanup of vinyl chloride was not practicable during the cleanup action for the Property. The presence of vinyl chloride from the regional VOC plume does not represent a human health or vapor intrusion risk to the Property.

4.0 CLEANUP ACTION

The cleanup action at the Site included source removal soil excavation and groundwater extraction and treatment completed in two phases. The first phase was conducted from March 13 through April 5, 2017 in accordance with the RI/FFS/CAP Report and the EMMP (Farallon 2016a, 2016b). The second phase was conducted from April 13 through May 3, 2017 as a part of a soil management response to clean up petroleum-contaminated soil not previously identified on the Site that was encountered during redevelopment grading. Soil with concentrations of COCs exceeding MTCA Method A cleanup levels and/or exhibiting other evidence of contamination such as visible staining, petroleum-like odors, or measurable volatile organic vapors was segregated from clean soil and transported off the Property for disposal at a regional landfill. Groundwater pumped from the open excavations during dewatering was treated and discharged to the sanitary sewer system under a Major Discharge Authorization from the King County Industrial Waste Program (KCIWP).

Implementation of the cleanup action and the field activities completed are summarized in the following sections.

4.1 PRE-EXCAVATION PREPARATION

Pre-excavation activities included decommissioning of the 20,000-gallon diesel fuel groundwater and conducting additional contaminant delineation. These activities are discussed in Sections 2.4.10, 2016 UST Decommissioning—Farallon Consulting, L.L.C., and 2.4.11, 2017 Pre-Excavation Contaminant Delineation—Farallon Consulting, L.L.C. Groundwater monitoring wells MW-1 through MW-6 and RW-2 (Figure 9) were decommissioned on September 6, 2016 by drilling contractor ESN Northwest, Inc. of Olympia, Washington. The monitoring wells were decommissioned in accordance with Minimum Standards for Construction and Maintenance of Wells (WAC 173-160). Specifically, according to WAC 173-160-381, the monitoring wells were decommissioned in-place by backfilling the total depth of each well casing with bentonite chips and hydrating the chips to seal the casings. Documentation for decommissioning of the monitoring wells, provided in Appendix F, includes a Notice of Intent to Decommission a Well and a Resource Protection Well Report for each well.

4.2 EXCAVATION PERMITTING

Development permits for the Property were applied for by Barghausen Consulting Engineers, Inc. of Kent, Washington (Barghausen) and obtained from the City of Seattle Department of Construction and Inspections. The department issued Site Work Permit No. 6556259 on February 28, 2017 and a Grading Season Extension on March 7, 2017, which provided authorization to proceed with grading of the Property, including the remedial excavation activities.

Dewatering was required to lower groundwater levels for soil removal during the remedial excavations. Extracted groundwater was treated and then discharged to the combined stormwater/sanitary sewer system in accordance with the requirements of the KCIWP. KCIWP

issued Major Discharge Authorization No. 4408-01 on February 22, 2017 to authorize discharge of wastewater generated during construction dewatering operations.

4.3 SOURCE REMOVAL

Soil sample analytical results from the subsurface investigations and interim remedial actions conducted on the Site were used to develop estimates of the expected distribution of COCs in soil in source areas requiring excavation, transport, and disposal at a permitted disposal facility. The test pit soil sample analytical results discussed in Section 2.4.11, 2017 Pre-Excavation Contaminant Delineation—Farallon Consulting, L.L.C., further defined the extent of the source areas.

The approximate initial extent of COCs was divided into four separate source areas, as shown on EMMP Figures 9 through 14, provided in Appendix D. During the remedial excavations on the Site, the four source areas subsequently were designated as Excavations 1 through 4. The final configurations of Excavations 1 through 4 are shown on Figures 3A, 3B, and 3C. A fifth source area, designated Excavation 5, which was encountered unexpectedly during redevelopment grading, is shown on Figure 3A.

Excavated soil containing COCs at concentrations exceeding MTCA Method A cleanup levels and/or exhibiting other evidence of contamination such as visible staining, petroleum-like odors, or elevated volatile organic vapors was classified for disposal based on the Ecology Guidance and the disposal criteria for the selected disposal facilities. Based on Category (i.e., Category 2 through 4), contaminated soil was managed as nonhazardous waste and transported to facilities permitted to receive the soil for disposal. The criteria for soil categorization and disposal are provided in Tables 12.1 and 12.2 of the Ecology Guidance and are summarized below:

- Category 1 soil has no detectable petroleum hydrocarbons, no odor, and no visual or other evidence of contamination (e.g., staining, sheen, elevated VOC measurements using a photoionization detector). Category 1 soil is not a threat to human health or the environment as indicated by the Ecology Guidance, and can be placed at any location where allowed under other regulations.
- Category 2 soil contains residual petroleum hydrocarbons at concentrations within the ranges referenced in Table 12.1 of the Ecology Guidance; or may not contain detectable concentrations of petroleum hydrocarbons, but has a petroleum-like odor or visual or other evidence of contamination; and meets the disposal criteria for direct disposal at a permitted disposal facility.
- Category 3 and 4 soil contains petroleum hydrocarbons at concentrations exceeding the ranges referenced in the Ecology Guidance, and requires treatment and/or disposal off the Property.

Category 1 soil, including clean overburden generated during excavation activities, was segregated and used for backfilling the excavations on the Site.

Most Category 2 soil and all Category 3 and 4 soil generated during source area excavations was loaded into trucks and transported off the Property to two disposal facilities: the Columbia Ridge Landfill in Arlington, Oregon operated by Waste Management, Inc., and the Roosevelt Regional Landfill in rural Klickitat County, Washington operated by Republic Services, Inc.

The source area soil excavations were conducted under two phases of work as discussed in the following sections.

4.3.1 First Phase Soil Excavation

First phase soil excavation activities were conducted from March 13 through April 5, 2017 and consisted of the removal of soil from source areas at Excavations 1 through 3 proximate to the former Shop Building (Figures 3A and 3B), and at Excavation 4 proximate to the former Office Building (Figure 3C). The excavations were conducted to remove the following sources of residual COCs:

- Excavation 1 – Residual COCs related to releases from the former UST area west of the former Shop Building where five USTs were decommissioned by removal in 1988, and residual COCs related to releases from the former UST area northwest of the former Shop Building where two 20,000-gallon diesel fuel USTs were decommissioned by removal in 1998;
- Excavation 2 – Residual COCs related to a release from the former diesel UST product line that adjoined the northern end of the former Shop Building;
- Excavation 3 – Residual COCs related to former operation of the sand trap oil-water separator north of the former wash rack at the eastern side of the former the Shop Building; and
- Excavation 4 – Residual COCs related to releases from the former heating oil UST adjacent to the southeastern corner of the former Office Building.

Wyser conducted the first phase soil excavation activities and provided transportation services. Cleanup actions conducted during the first phase soil excavation included:

- Completing a subsurface utility line location survey to identify and mark utility lines and substructures within the excavation areas.
- Removing concrete slabs and asphaltic pavement overlying the excavation areas.
- Excavating and stockpiling on the Site the clean overburden soil removed from shallow depths overlying soil containing residual COCs.
- Excavating, loading into haul trucks, and transporting soil containing residual COCs to two local waste intermodal facilities for disposal:
    - Waste Management, Inc. Duwamish Reload Facility at 7400 8th Avenue South in Seattle, Washington (Duwamish Reload Facility); and

- Republic Services, Inc. 3rd and Lander Transfer Station at 2733 3rd Avenue South in Seattle, Washington (3rd and Lander Transfer Station).

- Conducting dewatering operations to lower groundwater levels to facilitate soil removal at Excavations 1 and 2.
- Decommissioning by removal one orphan heating oil UST encountered during soil removal at Excavation 3.
- Collecting confirmational soil samples from the sidewalls and bottoms of the excavations for laboratory analysis to confirm that soil containing COCs at concentrations exceeding MTCA Method A cleanup levels was removed from the excavations.
- Spreading oxygen release compound across the bottoms of Excavations 1 and 2 below the groundwater table prior to backfilling, to enhance the biodegradation of COCs in groundwater down-gradient of Excavations 1 and 2.
- Backfilling the excavations with imported structural fill and stockpiled overburden soil, and compacting the fill to meet project soil-density requirements.

Each of these cleanup action activities is discussed below.

4.3.1.1 Subsurface Utility Line Survey

Subsurface utility lines within and proximate to the excavation areas were identified on February 16, 2017 by APS, Inc. of North Bend, Washington. Several identified stormwater lines were intersected and temporarily removed during the soil excavation activities. Unused lines were capped and other lines repaired or replaced prior to backfilling of the excavations.

4.3.1.2 Removal of Concrete Slabs and Asphaltic Pavement

The delineated excavation areas approximately represented on the EMMP lift maps (Appendix D, Figures 10 through 14) were identified and marked with spray paint for removal of concrete and asphalt surfaces. These hard surfaces were broken and removed in stages prior to the start of soil excavation at each excavation area. The broken materials were stockpiled on the Property for crushing and reuse as fill during Property redevelopment.

4.3.1.3 Soil Excavation and Removal

Soil excavation and removal was conducted between approximately March 14 and 31, 2017, and was based on the results from previous subsurface investigations, pre-excavation test pit sampling, and soil field-screening during excavation (Table 2). A trackhoe excavator removed up to 4 feet of uncontaminated overburden soil overlying soil containing residual COCs within the excavation areas. The excavated overburden soil was arranged in covered stockpiles west of Excavation 1 for use as excavation backfill. The trackhoe excavator directly loaded contaminated soil into haul trucks for transport to the

Duwamish Reload Facility and the 3rd and Lander Transfer Station for disposal. On days when the disposal facilities were unable to accept additional volumes of solid waste, the excavated soil was temporarily stockpiled on plastic sheeting and later loaded and transported off the Property for disposal.

Approximately 2,995 tons of soil was removed from the excavation areas for disposal. The approximate tonnages by excavation area were as follows:

- Excavation 1 – 1,535 tons;
- Excavation 2 – 1,310 tons;
- Excavation 3 – 85 tons; and
- Excavation 4 – 65 tons.

4.3.1.4 Excavation Dewatering

Groundwater was encountered in the excavation areas at depths between approximately 8 and 9 feet bgs. Dewatering was required to reach maximum excavation depths up to 13 feet bgs in Excavation 1 and 9 feet bgs in Excavation 2. Dewatering was accomplished by pumping directly from the open excavations to a water treatment system provided by Baker Corporation, Inc. of Seal Beach, California. Water treatment consisted of the following sequential steps:

- Pumping untreated water into a 20,000-gallon weir tank to remove settleable solids (i.e., particulates);
- Filtering the water using a 20-micron bag filter system to remove fine suspended solids;
- Using activated carbon media to remove organic COCs; and
- Temporarily storing the treated water in two 20,000-gallon holding tanks prior to discharge.

The treated water was metered and discharged to the local combined stormwater/sanitary sewer system authorized under KCIWP Discharge Authorization No. 4408-01 for construction dewatering operations, as discussed in Section 4.2, Excavation Permitting. Approximately 305,000 gallons of treated water was discharged to the combined stormwater/sanitary sewer system during excavation dewatering conducted in March 2017.

4.3.1.5 Heating Oil UST Decommissioning

A 500-gallon heating oil UST was encountered on March 23, 2017 during soil removal at Excavation 3. The UST decommissioning activities were conducted on March 27, 2017 and consisted of the following activities:

- Wyser obtained a Decommissioning Permit from the Seattle Fire Department.

- A Marine Chemist from Sound Testing, Inc. of Seattle, Washington evaluated the UST atmosphere and determined the UST was safe for removal and opening. An inspector from the Seattle Fire Department authorized removal of the UST.
- Wyser removed and inspected the UST, finding several small corrosion holes, and opened the UST for cleaning.
- Marine Vacuum Service, Inc. of Seattle, Washington washed the UST interior and disposed of the rinsate water.
- The UST was loaded on a truck and transported to Schnitzer Steel Industries in Woodinville, Washington for metal recycling.
- Soil adjacent to the UST showed staining and other evidence of a release of heating oil. The affected soil was removed in conjunction with the Excavation 3 soil excavation activities. Documentation for the UST decommissioning is provided in Appendix E.

4.3.1.6 Confirmational Monitoring

Confirmational soil samples were collected from the excavation areas to confirm that applicable cleanup levels were attained at the points of compliance. Confirmational monitoring consisted of collecting and analyzing in-situ soil samples from the limits of the completed excavation areas, and included the analytical results for soil samples from the RI, as reported in the RI/FFS/CAP; pre-excavation test pits, as discussed in Section 2.4.11, 2017 Pre-Excavation Contaminant Delineation—Farallon Consulting, L.L.C.; and other subsurface investigations where the analytical results confirmed that MTCA cleanup levels were attained.

The confirmational soil samples collected from Excavations 1, 2, and 3 were tracked using a grid system based on 20-foot by 20-foot grid areas. Each excavation grid was assigned a unique alphanumeric identifier based on columns ranging from A to L, and rows ranging from 1 to 11 (Figures 5A and 5B). A grid number was assigned to each confirmational soil sample collected within that grid. A mobile laboratory operated on the Property by Libby Environmental, Inc. of Olympia, Washington provided same-day analytical turnaround times for analysis of soil samples for DRO, ORO, GRO, and BTEX. Soil samples requiring analysis for other analytes were submitted for analysis to OnSite Environmental, Inc. of Redmond, Washington. Confirmational soil samples collected proximate to the former waste oil USTs in Excavation 1 and the former sand trap oil-water separator in Excavation 3 were analyzed for halogenated volatile organic compounds, cPAHs, and MTCA metals, as summarized in Tables 13 through 15, to assess the potential release of these contaminants during historical operations on the Property.

COCs were not detected at concentrations exceeding MTCA Method A cleanup levels in the confirmational soil samples collected from the limits of the excavation areas. Figures 5A, 5B, and 5C depict the locations and COC analytical results for the confirmational soil

samples. Analytical results for the confirmational soil samples also are summarized in Tables 12 through 15. The laboratory analytical reports are provided in Appendix B.

4.3.1.7 Oxygen Release Compound Application

Prior to backfilling, approximately 2,500 pounds of oxygen release compound were spread across the completed bottoms of Excavations 1 and 2 below the water table to promote in-situ aerobic biodegradation of residual petroleum hydrocarbon COCs in groundwater. The oxygen release compound is expected to provide controlled release of oxygen to the groundwater for up to 12 months following application.

4.3.1.8 Excavation Backfilling

As approved by the project geotechnical engineer, GeoEngineers Inc. of Redmond, Washington, Excavations 1 and 2, the only excavations with soil removal below the water table, were backfilled by Wyser to approximately one foot above the water table with imported City of Seattle Type 17 soil and covered with imported recycled crushed concrete. Overburden soil was placed over the crushed concrete up to the subgrade elevation. Excavations 3 and 4 were backfilled by Wyser with imported recycled crushed concrete and covered with overburden soil to the subgrade elevation. The backfill materials were placed in lifts of approximately 24 inches and mechanically compacted to a minimum of 95 percent maximum dry density.

4.3.2 Second Phase Soil Excavation

Second phase soil excavation activities were conducted from April 17 through May 3, 2017 as a part of a soil management response during redevelopment grading. Petroleum-stained soil was observed west of the former Shop Building and southwest of Excavation 1 during pavement removal on April 13, 2017 (Figure 3A). The stained soil, initially visible over a limited area of approximately 10 feet by 30 feet directly underlying the pavement, suggested a release to the ground surface during historical trucking operations on the Property. A grab sample of the stained soil collected for petroleum hydrocarbon identification analysis by Northwest Method TPH-HCID confirmed the presence of petroleum hydrocarbons within the range of DRO, ORO, and GRO.

Sierra Construction Company, Inc. of Woodinville, Washington (Sierra) was retained by Prologis as the General Contractor for redevelopment of the Property. Sierra retained Hos Bros. Construction, Inc. of Woodinville, Washington (Hos) to conduct the earthworks activities for the redevelopment.

Excavation and removal of the stained soil was initiated by Hos on April 17, 2017. The excavation was designated as Excavation 5. Similar to the previous excavation activities, a trackhoe excavator was used to excavate and load the contaminated soil directly into haul trucks for transport to the Duwamish Reload Facility and the 3rd and Lander Transfer Station for disposal. Soil was temporarily stockpiled on days when haul trucks were not available. Excavation 5 expanded laterally with depth. Excavation dewatering was implemented to reach excavation depths up to 14 feet bgs. The dewatering and water treatment processes were essentially the same as that employed

during dewatering of Excavations 1 and 2, as described in Section 4.3.1.4, Excavation Dewatering. Approximately 15,600 gallons of treated water was discharged to the combined stormwater/sanitary sewer system during Excavation 5 dewatering conducted in April 2017.

A total of 28 confirmational soil samples were collected from the bottom and sidewalls of Excavation 5 and analyzed to demonstrate that the cleanup levels for the soil COCs were attained at the excavation limits. COCs were not detected at concentrations exceeding MTCA Method A cleanup levels in the confirmational soil samples collected from the limits of the excavation area. The analytical results for the confirmational soil samples are summarized in Table 12; the laboratory analytical reports are provided in Appendix B. The confirmational sample locations and summary analytical results are shown on Figure 5A.

Approximately 3,485 tons of soil was removed from Excavation 5 and transported off the Site for disposal at the Duwamish Reload Facility and 3rd and Lander Transfer Station. Summary disposal documentation is provided in Appendix G.

5.0 CLEANUP ACTION RESULTS

The results of the cleanup action are summarized below for the confirmational soil sampling, soil transport and disposal, and groundwater cleanup activities.

5.1 CONFIRMATIONAL SOIL SAMPLING

The laboratory analytical results for confirmational soil samples collected from the limits of the soil excavations confirm that the contaminant source areas have been removed and the applicable MTCA soil cleanup levels established for the Site have been met at the points of compliance (Tables 12 through 15). The final limits of Excavations 1 through 5, distribution of confirmational soil samples, and summary of soil sample analytical results for selected COCs are provided on Figures 5A through 5C.

5.2 SOIL TRANSPORT AND DISPOSAL

During the cleanup action activities conducted between March 13 and May 3, 2017, a total of approximately 6,480 tons of petroleum-contaminated soil was excavated and removed from Excavations 1 through 5 and transported by truck off the Property for disposal. Approximately 3,400 tons of soil was transported to the Duwamish Reload Facility and approximately 3,080 tons of soil was transported to the 3rd and Lander Transfer Station.

Summaries providing the transport dates, trucking company identification, disposal facility identification, and disposal tonnage for each load of soil are presented in Appendix G.

5.3 GROUNDWATER CLEANUP

Approximately 320,000 gallons of groundwater was extracted, treated, and disposed of during the cleanup action, which provided effective removal of the highest concentrations of contaminated groundwater surrounding and within the main COC source areas. The complete removal and disposal of soil from Excavations 1, 2, and 5 eliminated the sources of COCs that previously provided continuous diffusion of COCs into groundwater. In addition, the application of oxygen release compound to groundwater at the base of Excavations 1 and 2 will enhance the aerobic degradation of residual COCs in groundwater down-gradient of these former source areas.

Following completion of redevelopment construction, new groundwater monitoring wells will be installed up-gradient, approximately within, and down-gradient of the original groundwater plume for implementation of groundwater monitoring to determine compliance with MTCA Method A cleanup levels (Figure 10).

6.0 CONCLUSIONS AND REQUEST FOR PARTIAL SUFFICIENCY OPINION

This Closure Report documents the cleanup action implemented for the Site. The cleanup action was conducted as an independent remedial action under the VCP in accordance with MTCA, the RI/FFS/CAP, and the EMMP. The results from the remedial investigation conducted by Farallon and others were consistent with the confirmed source areas related to releases during former Consolidated Freightways operations on the Property. The laboratory analytical results for confirmational soil samples collected from the final limits of the excavations demonstrate that soil containing COCs at concentrations exceeding MTCA Method A cleanup levels has been excavated and removed from the Site for landfill disposal. Therefore, the cleanup action meets the substantive requirements of MTCA for characterizing and mitigating COCs in soil, resulting in the permanent reduction of COCs in soil to concentrations less than MTCA Method A cleanup levels. No further remedial action is necessary for soil on the Site.

During the cleanup action, approximately 6,480 tons of petroleum-contaminated soil was removed from Excavations 1 through 5 and transported from the Site to the Duwamish Reload Facility and the 3rd and Lander Transfer Station for disposal at the Columbia Ridge Landfill and Roosevelt Regional Landfill, respectively.

Dewatering operations required for completing Excavations 1, 2, and 5 generated approximately 320,000 gallons of groundwater, which was treated and discharged to the local combined sewer system. The dewatering removed groundwater containing the highest COC concentrations from within and proximate to the former primary source areas on the Site. Oxygen release compound applied as a groundwater amendment to the bottoms of Excavations 1 and 2 will promote the biological degradation of residual COCs in groundwater down-gradient of the former primary source areas. Compliance groundwater monitoring implemented following completion of redevelopment is expected to confirm decreases in groundwater COCs until MTCA Method A and B cleanup levels are achieved.

The cleanup action included permanent decommissioning by removal of one 20,000-gallon diesel UST north of the former Shop Building and one 500-gallon heating oil UST proximate to the eastern side of the former Shop Building. The USTs were decommissioned in accordance with Ecology Underground Storage Tank Regulations, as established in WAC 173-360, and the Ecology Guidance for Site Checks and Site Assessments for Underground Storage Tanks. No impacted soil associated with the 20,000-gallon diesel UST was encountered. Impacted soil proximate to the heating oil UST was removed during the Excavation 3 cleanup.

No additional remedial action is necessary for soil on the Site. Groundwater monitoring will be implemented to assess compliance with applicable groundwater cleanup levels on the Site. Based on the results of the cleanup action, Farallon requests that Ecology issue a Partial Sufficiency Opinion for the Site. A request for a No Further Action determination for the Site will be submitted to Ecology following confirmation that groundwater cleanup levels have been attained.

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8.0 LIMITATIONS

8.1 GENERAL LIMITATIONS

The conclusions contained in this Closure Report are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained in this Closure Report are subject to the following limitations:

- **Accuracy of Information**. Farallon obtained, reviewed, and evaluated certain information used in this Closure Report from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

Farallon cannot and does not warrant or guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of this Closure Report.

This Closure Report has been prepared in accordance with the contract for services between Farallon and Prologis, Inc., and currently accepted industry standards. No other warranties, representations, or certifications are made.

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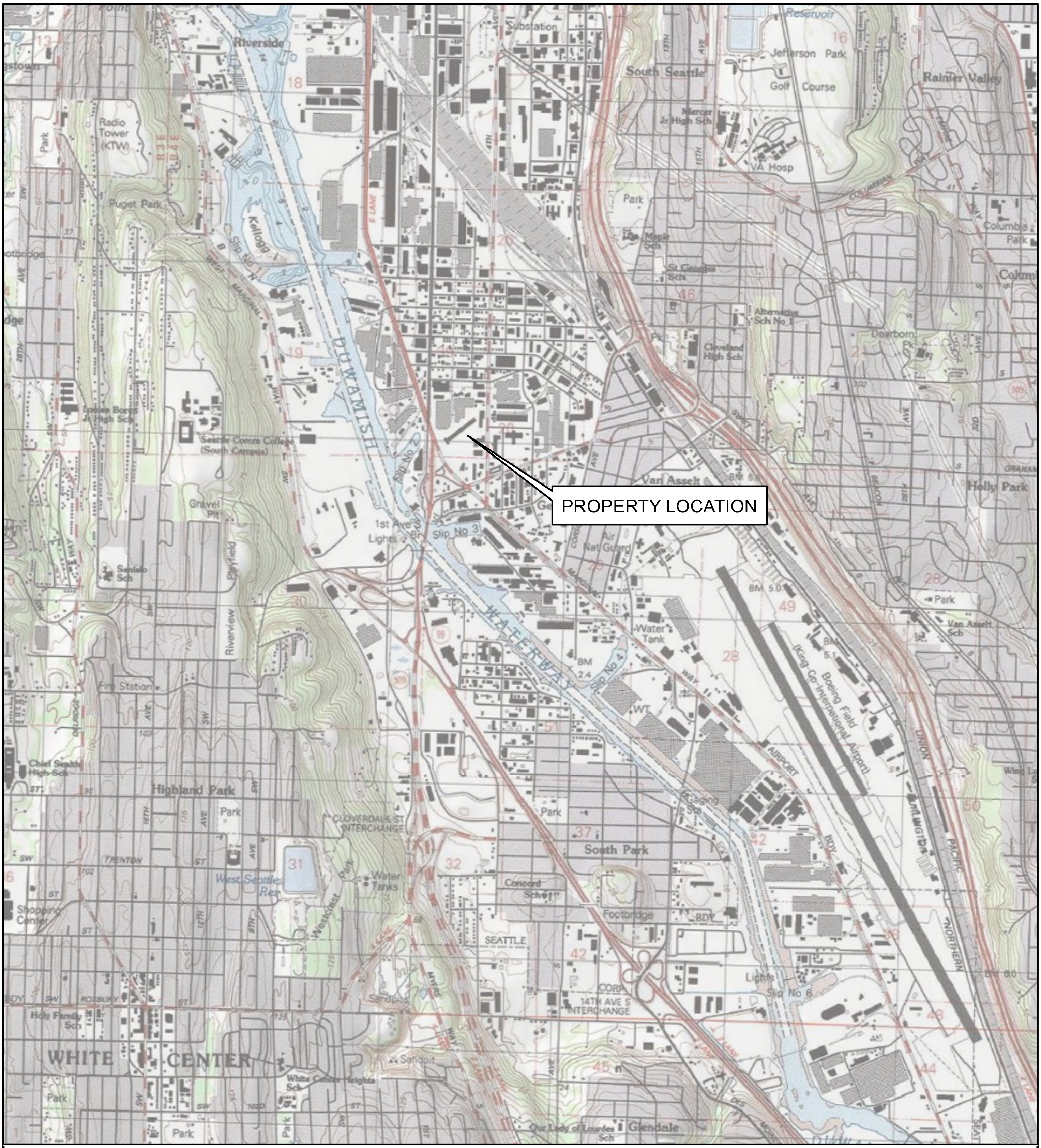
- It was not prepared for your project;
- It was not prepared for your specific site; or
- It was not prepared under an approved scope of work for which you are under contract with Farallon.

FIGURES

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010



REFERENCE: 7.5 MINUTE USGS QUADRANGLE NORTH SEATTLE, WASHINGTON, DATED 2011

0 2,500

SCALE IN FEET

N

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FIGURE 1

PROPERTY VICINITY MAP
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: jjones Checked By: DML Date: 8/29/2017 Disc Reference:

Document Path: Q:\Projects\1071 Prologis\010 EMarginalWay\Figure_1_.mxd

OPEN SQUARE WAREHOUSE

OPEN SQUARE WAREHOUSE

FITTINGS INC.

APPROXIMATE EXTENT OF FIGURES 3C, 4C, AND 5C

FORMER UST:
1 - 5,000-GALLON LUBE OIL
1 - 10,000-GALLON GASOLINE
(DECOMMISSIONED 1988)

FORMER NORTHWEST UST AREA

FORMER TRANSFER DOCK BUILDING

SOUTH FRONT STREET

FORMER UST:
1 - 1,000-GALLON HEATING OIL
(DECOMMISSIONING DATE NOT KNOWN)

FORMER OFFICE BUILDING

LES SCHWAB TIRE AND SERVICE CENTER

APPROXIMATE EXTENT OF FIGURES 3B and 4B

BEARINGS AND DRIVES STORE

APPROXIMATE EXTENT OF FIGURES 3A, 4A, AND 5A

FORMER UST:
1 - 20,000-GALLON DIESEL
(DECOMMISSIONED 2017)

APPROXIMATE EXTENT OF FIGURE 5B

RESTAURANT

4TH AVENUE SOUTH

FORMER USTs:
2 - 20,000-GALLON DIESEL
(DECOMMISSIONED 1998)

FORMER USTs:
2 - 3,000-GALLON WASTE OIL
1 - 5,000-GALLON LUBE OIL
1 - 8,000 GALLON DIESEL
1 - 10,000-GALLON DIESEL
(DECOMMISSIONED 1988)

FORMER SHOP BUILDING

FORMER WASH RACK

FORMER DYNAMOMETER SHED

FORMER UST:
1 - 500-GALLON DIESEL
(DECOMMISSIONED 2017)

BUILDING

WAREHOUSE AND COMMERCIAL STORE

RESTAURANT

EAST MARGINAL WAY SOUTH

SOUTH MICHIGAN STREET

0 100
Scale in feet

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE SITE BOUNDARY
- PUBLIC ROAD RIGHT-OF-WAY
- FORMER UNDERGROUND STORAGE TANK (UST) AREA
- FORMER UST
- CONCRETE SURFACES
- EXTENT OF SUBSEQUENT FIGURES

ALL LOCATIONS ARE APPROXIMATE

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FIGURE 2

FORMER PROPERTY AND VICINITY FEATURES
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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F-7
GP-8
GP-13
GP-9
EXCAVATION 2
P-9
GP-2
P-8
SW-1
GP-7
EX5-NE
EX5-NW
B3-SE-SW
C3-NE
GP-9
B3-SE-B
D3-SE
EX5-NNW
SP-11
PRODUCT LINE TRENCH
P-3
TP3
SP-4
C4-NE
EX5-NEB
RW-1
GP-1
TPB-1
SW-4
SP-10
SW-3
SP-12
D4-NE
E4-SW
GP-10/GP-14
TPB-3
MW-3
EX5-NWW
C4-SE
CF-T3
PL-3
SW-2
P-4
C5-NW
D5/E5-SE
MW-5
C5/D5-SW
E5-SW
MW-3
EX5-B10
T-3
SP-3
T-2
P-5
EX5-N2-SW
C6-NW
P-6
EX5-N1-SW
EX5-N-SW
C6-SE
E6-SE
D6/E6-SE
GP-3
GP-11
T-4
T-5
MW-4
C7-NW
SP-2
MW-1
EX5-NW-SW
EX5-B1
T-11
T-10
SP-5
TP4
EX5-B2
EX5-NE-SW
F-18
C7/D7-SE
D7/E7-SE
EX5-B3
EX5-B5
S-2F
S-2V
C8-NW
C8-NE
EX5-W3-SW
EX5-B4
D8/E8-SW
E7-SE
SP-13
EX5-B6
SP-1
S-1F
S-1V
TP5
EX5-B9
F8/E8-SW
F8-NE
EX5-B8
EX5-E-SW
MW-2
EX5-W1-SW
GP-11
MW-2A
G8-NE
D9/E9-SW
MW-2
EX5-E1-SW
G8/F8-SE
EX5-W4-SW
C9-NE
F9/E9-SW
G9-SE
EX5-SW1-SW
EX5-B7
P-10
E9-SE
F9-SE
G9/F9-SW
GP-4
EX5-W2-SW
EX5-SE-SW
EX5-SE1-SW
EAST MARGINAL WAY SOUTH
EXCAVATION 5
EXCAVATION 1
GP-5
FORMER SHOP BUILDING

LEGEND

- PROPERTY BOUNDARY
- FORMER BUILDING FOOTPRINT
- LIMIT OF EXCAVATION - TOP OF SLOPE
- FORMER UNDERGROUND STORAGE TANK AREA
- MW-4 — MONITORING WELL (BLYMER ENGINEERS 1988)
- MW-1 — MONITORING WELL (GOLDER ASSOCIATES 1998)
- EX5-B1 — EXCAVATION SOIL SAMPLE (FARALLON 2017)
- TP3 — TEST PIT (FARALLON 2017)
- F-13 — BORING (FARALLON 2014)
- SP2 — BORING (SHANNON & WILSON 1997)
- T-3 — TRENCH SAMPLING LOCATION (GOLDER ASSOCIATES 1998)
- SW-3 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF THE DIESEL USTs (FLUOR DANIEL GTI 1998)
- CF-T-4 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- P-3 — BORING (GOLDER ASSOCIATES 2001)
- GP-13 — BORING (GOLDER ASSOCIATES 2003)
- EXCAVATION SIDEWALL SLOPE

0 30
SCALE IN FEET

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FIGURE 3A

SOIL SAMPLE LOCATIONS PROXIMATE TO
EXCAVATIONS 1 AND 5
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: JJ | Checked By: DML/DEW | Date: 8/30/17 | Disk Reference: 1071-010_T03H

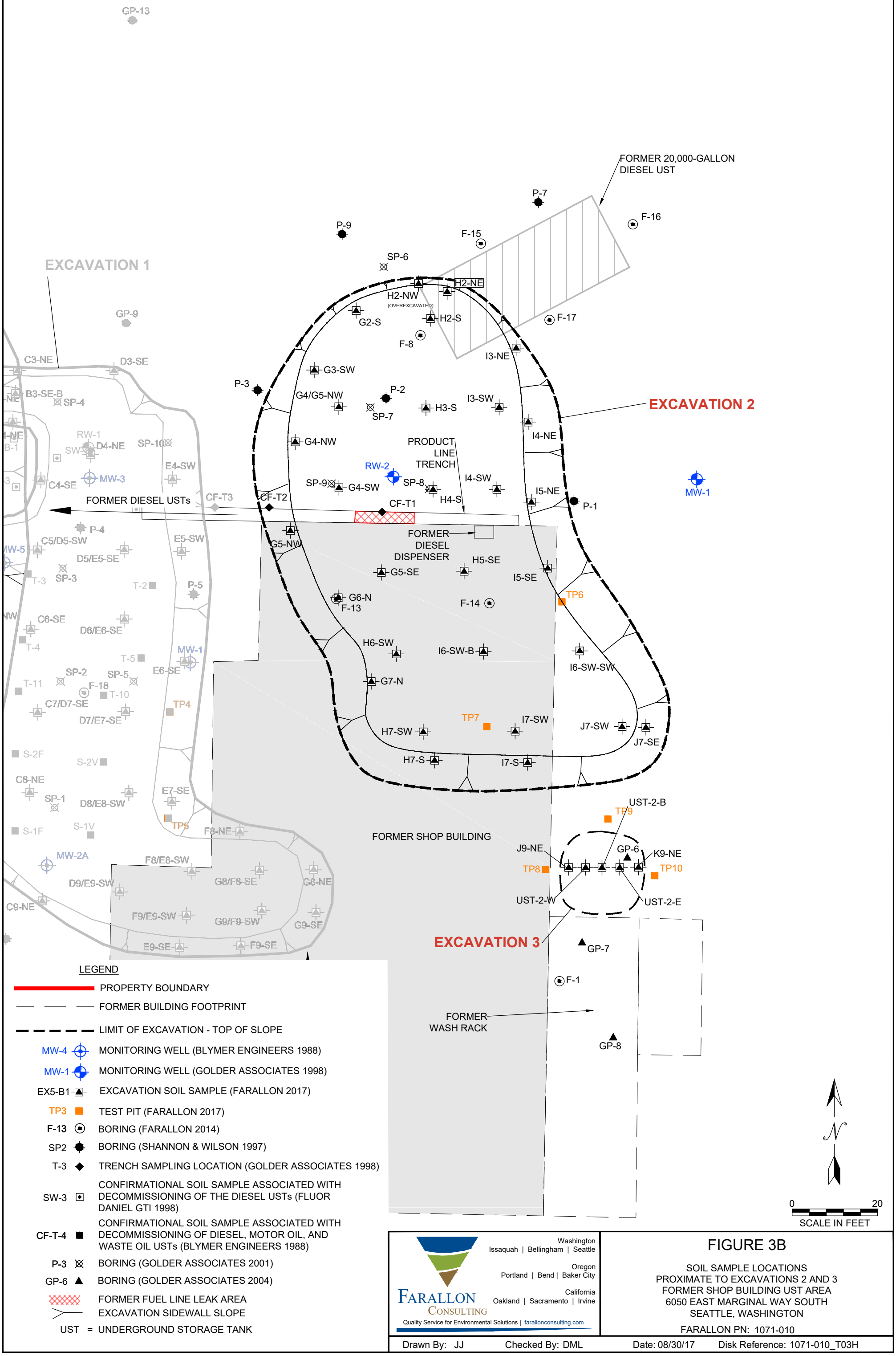

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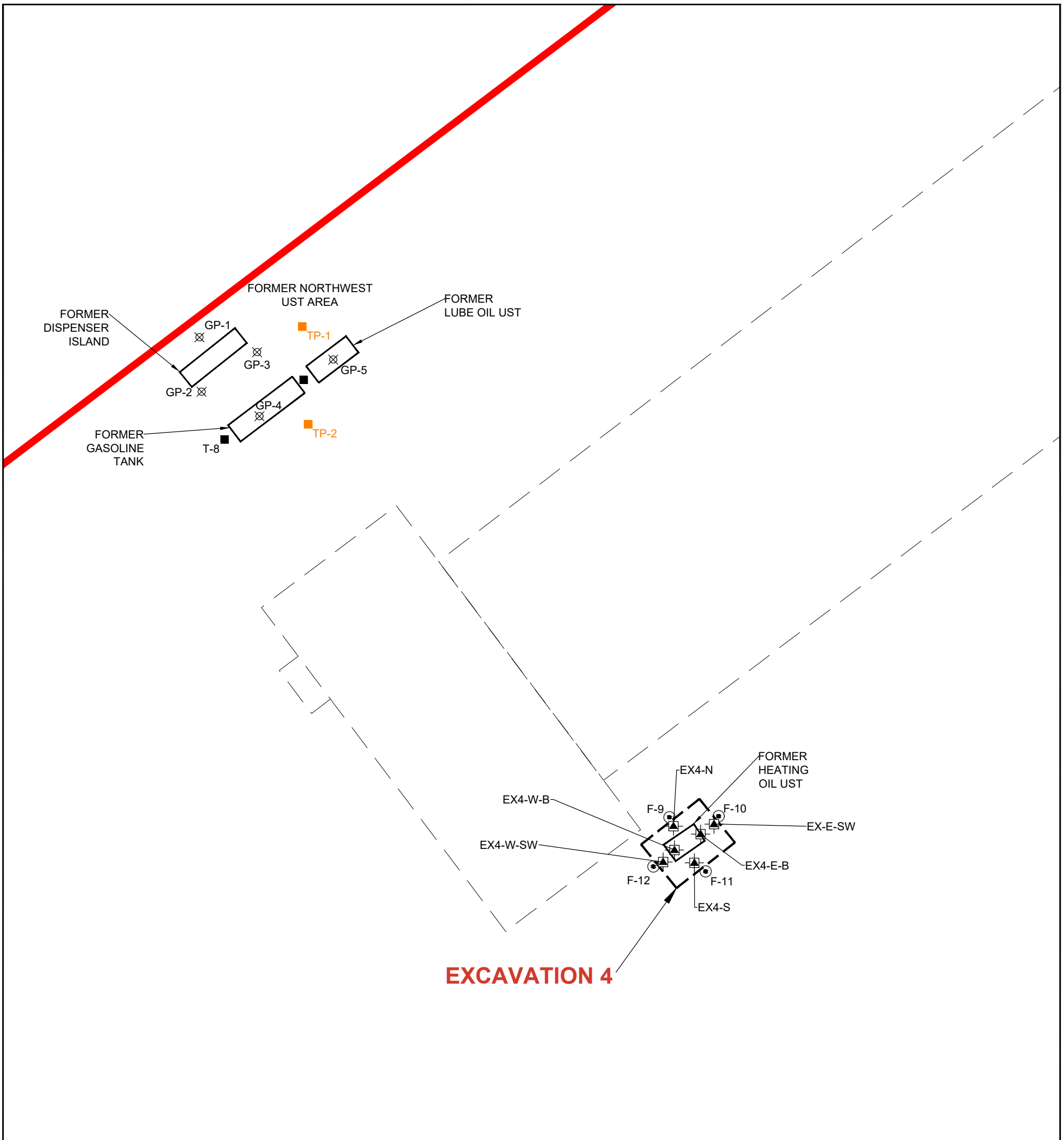
FIGURE 3B

SOIL SAMPLE LOCATIONS
PROXIMATE TO EXCAVATIONS 2 AND 3
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: JJ | Checked By: DML | Date: 08/30/17 | Disk Reference: 1071-010_T03H



LEGEND

- PROPERTY BOUNDARY
- FORMER BUILDING FOOTPRINT
- LIMIT OF EXCAVATION - TOP OF SLOPE
- EX5-B1 — EXCAVATION SOIL SAMPLE (FARALLON 2017)
- TP3 — TEST PIT (FARALLON 2017)
- F-13 — BORING (FARALLON 2014)
- GP-2 — BORING (GOLDER ASSOCIATES 2004)
- T-8 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- UST = UNDERGROUND STORAGE TANK

0 30
SCALE IN FEET

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FIGURE 3C

SOIL SAMPLE LOCATIONS PROXIMATE TO
FORMER NORTHWEST UST AREA AND EXCAVATION 4
FORMER NORTHWEST UST AND HEATING OIL UST AREAS
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: JJ | Checked By: DML/DEW | Date: 8/30/17 | Disk Reference: 1071-010_T03H

EXCAVATION 2

SP-11
[5 - 8'/1,100/66/--/<0.025]

SW-1
[8 - 10'/**28,700**/--/--/--]

P-8
[6 - 7.5'/<20/--/--/--]
[7.5 - 9'/<20/--/--/--]

TPB-1
[13'/72.1/--/--/--]

SP-4
[5 - 8'/<35/<70/--/--]

SW-4
[8 - 10'/**2,700**/--/--/--]

TP-3
[7'/<35/<70/<9.7/<0.020]
[11'/<33/<66/<7.2/<0.020]

MW-3_88
[4 - 4.5'/<10/--/--/--]
[9 - 9.5'/160/--/--/--]
[14 - 14.5'/<10/--/--/--]

P-3

SP-12
[10-12'/560/45/--/--]

SP-10
[5 - 8'/19/120/--/--]

SW-3
[8 - 10'/<10/--/--/--]

PL-3
[3'/<10/--/--/--]

TPB-3
[13'/<10/--/--/--]

SP-9

SW-2
[8 - 10'/<10/--/--/--]

CF-T3
[2.0 - 2.5'/20/53/--/--]

PL-2

P-4

T-2
[*/438/--/--/--]

[3.5 - 5'/<20/--/--/--]
[5 - 8'/**3,500**/--/--/--]

SP-3
[5 - 8'/1,800/190/--/--]

MW-3
[5 - 6.5'/<17/32/--/--]
[6.5 - 8.0'/<19/48/--/--]

MW-5_88
[5'/**4,797**/--/--/--]
[10'/15/--/--/--]
[15'/<10/--/--/--]

P-5
[6 - 7.5'/<20/--/--/--]
[7.5 - 9'/180/--/--/--]

T-5
[*/238/--/--/--]

P-6
[6 - 7.5'/96/--/--/--]
[7.5 - 9'/<20/--/--/--]

SP-2
[5-8'/45/45/--/--]

MW-1_88
[4 - 4.5'/12/--/--/--]
[9 - 9.5'/<10/--/--/--]
[14 - 14.5'/11/--/--/--]

SP-5
[5 - 8'/**7,300**/500/--/<0.019]
[8 - 11'/1,000/240/--/--]

MW-4_88
[5'/<10/--/--/--]
[10'/<10/--/--/--]
[15'/102/--/--/--]

T-3
[*/**43,602**/--/--/--]

T-4
[*/**27,812**/--/--/--]

TP-4
[7'/1,100/<70/<8.9/<0.0014]
[11'/<34/98/<9.4/<0.0012]

T-11
[*/**12,643**/**11,970**/--/--]

T-10
[*/**4,446**/**2,045**/--/--]

S-2F
[*/**3,187**/**4,072**/--/--]

F-18
[8'/**9,700**/<580/--/--]

SP-13
[5 - 8'/<33/<65/--/--]

S-1F
[*/**2,939**/**3,383**/--/--]

TP-5
[7'/1,100/540/<14/<0.0010]
[11'/**6,800**/1,300/<13/<0.065]

S-2V
[*/98/193/--/--]

MW-2
[1.5 - 2.0'/--/--/--/<0.48]
[5.5 - 7.0'/18/<34/--/--]

SP-1
[5 - 8'/**2,300**/350/--/--]
[8-11'/**2,700**/82/--/<0.023]

S-1V
[*/**3,389**/**4,274**/--/--]

MW-2A_88
[4 - 4.5'/13/--/--/--]
[9 - 9.5'/<10/--/--/--]
[13.5 - 14'/<10/--/--/--]

EXCAVATION 5

P-10
[6 - 7.5'/<10/--/--/--]
[7.5 - 9'/<10/--/--/--]

EXCAVATION 1

FORMER SHOP BUILDING

LEGEND

- LIMIT OF EXCAVATION - TOP OF SLOPE
- FORMER BUILDING FOOTPRINT
- MW-4 MONITORING WELL (BLYMER ENGINEERS 1988)
- MW-1 MONITORING WELL (GOLDER ASSOCIATES 1998)
- TP3 TEST PIT (FARALLON 2017)
- F-13 BORING (FARALLON 2014)
- SP2 BORING (SHANNON & WILSON 1997)
- T-3 TRENCH SAMPLING LOCATION (GOLDER ASSOCIATES 1998)
- SW-3 CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF THE DIESEL USTs (FLUOR DANIEL GTI 1998)
- CF-T-4 CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- P-3 BORING (GOLDER ASSOCIATES 2001)
- GP-6 BORING (GOLDER ASSOCIATES 2004)
- EXCAVATION SIDEWALL SLOPE

RI = REMEDIAL INVESTIGATION

[7'/<38/<76/<9.8/<0.020] = DEPTH / DRO / ORO / GRO / BENZENE

SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM

SAMPLE DEPTH IN FEET BELOW GROUND SURFACE

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

GRO = TPH AS GASOLINE RANGE ORGANICS

BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS

< ANALYTE NOT DETECTED AT OR EXCEEDING LABORATORY REPORTING LIMIT

-- = SAMPLE NOT ANALYZED

* = SAMPLE DEPTH UNKNOWN

0 20
SCALE IN FEET

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FIGURE 4A

RI, TEST PIT, AND HISTORICAL PERFORMANCE SOIL ANALYTICAL RESULTS FOR PETROLEUM HYDROCARBONS PROXIMATE TO EXCAVATIONS 1 AND 5
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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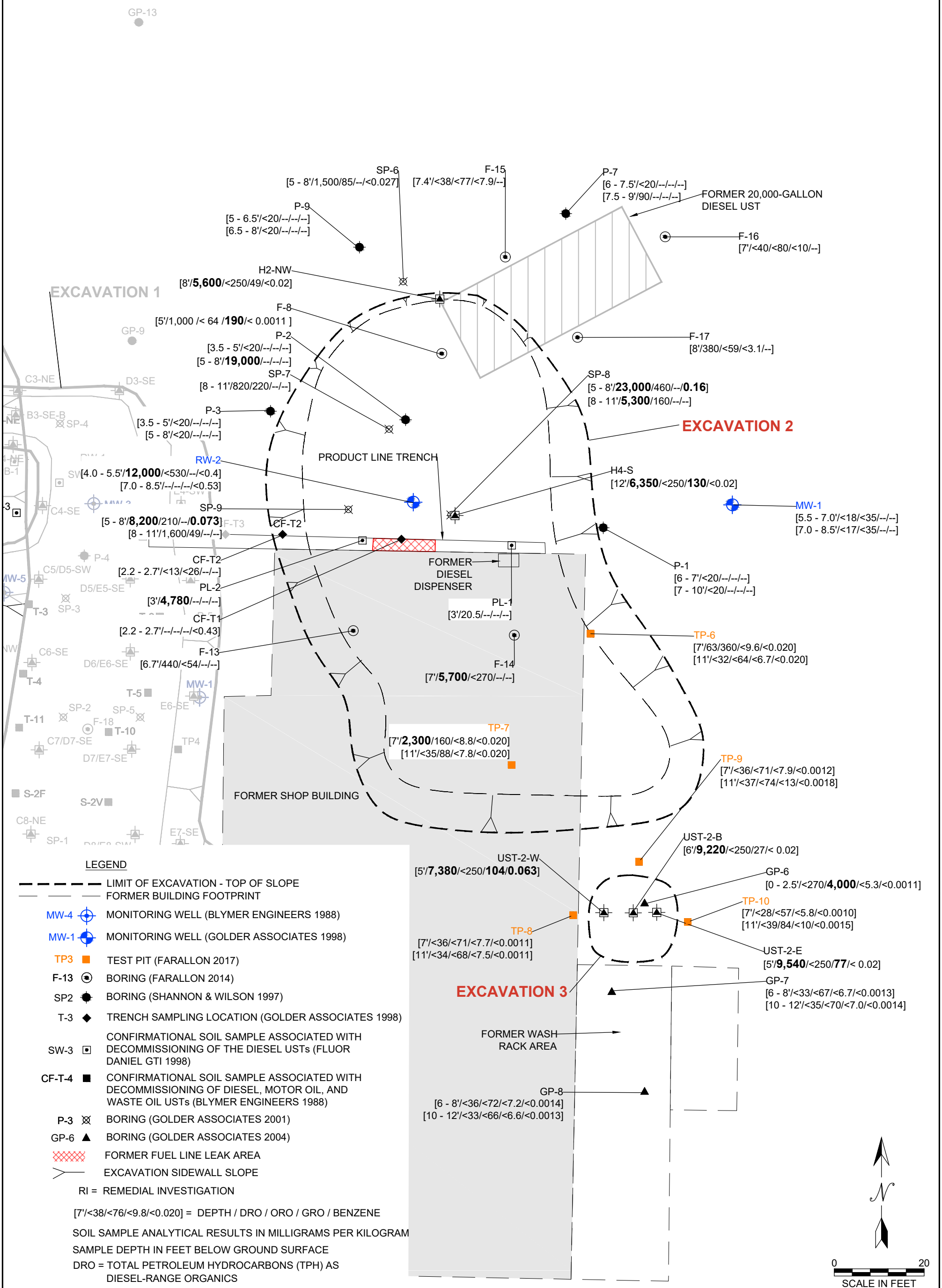

LEGEND

- LIMIT OF EXCAVATION - TOP OF SLOPE
- FORMER BUILDING FOOTPRINT
- MW-4 — MONITORING WELL (BLYMER ENGINEERS 1988)
- MW-1 — MONITORING WELL (GOLDER ASSOCIATES 1998)
- TP3 — TEST PIT (FARALLON 2017)
- F-13 — BORING (FARALLON 2014)
- SP2 — BORING (SHANNON & WILSON 1997)
- T-3 — TRENCH SAMPLING LOCATION (GOLDER ASSOCIATES 1998)
- SW-3 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF THE DIESEL USTs (FLUOR DANIEL GTI 1998)
- CF-T-4 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- P-3 — BORING (GOLDER ASSOCIATES 2001)
- GP-6 — BORING (GOLDER ASSOCIATES 2004)
- FORMER FUEL LINE LEAK AREA
- EXCAVATION SIDEWALL SLOPE

RI = REMEDIAL INVESTIGATION

[7'/<38/<76/<9.8/<0.020] = DEPTH / DRO / ORO / GRO / BENZENE

SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM

SAMPLE DEPTH IN FEET BELOW GROUND SURFACE

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

GRO = TPH AS GASOLINE-RANGE ORGANICS

BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS

< = ANALYTE NOT DETECTED AT OR EXCEEDING LABORATORY REPORTING LIMIT

-- = SAMPLE NOT ANALYZED

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FIGURE 4B

RI AND TEST PIT SOIL
ANALYTICAL RESULTS FOR PETROLEUM HYDROCARBONS
PROXIMATE TO EXCAVATIONS 2 AND 3
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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FORMER NORTHWEST UST AREA

GP-3
[6 - 8'/<26/<53/<5.3/<0.0011]
[10 - 12'/<35/<70/<7.0/<0.0014]

GP-1
[6 - 8'/<36/<71/<7.1/<0.0014]
[10 - 12'/<34/<68/<6.8/<0.0014]

GP-2
[6 - 8'/<28/<57/<5.7/<0.0011]
[10 - 12'/<35/<70/<7.0/<0.0014]

TP-1
[7'/<38/<76/<9.8/<0.020]
[11'/<37/<74/<9.7/<0.020]

GP-5
[6 - 8'/<28/<55/<5.5/<0.0011]
[10 - 12'/<36/<71/<7.1/<0.0014]

FORMER DISPENSER ISLAND

FORMER LUBE OIL UST

T-9
[*/--/--/**319**/ND]

FORMER GASOLINE TANK

T-8
[*/--/--/50/ND]

TP-2
[7'/<35/<69/<8.7/<0.020]
[11'/<35/<69/<9.2/<0.020]

GP-4
[2 - 4'/<130/1,300/<5.4/<0.0011]
[6 - 8'/<28/<55/<5.5/<0.0011]
[10 - 12'/<35/<70/<7.0/<0.0014]

FORMER HEATING OIL UST

F-9
[9'/<120/1,400/<4.7/--]

F-10
[12'/<40/<81/<9.4/--]

EXCAVATION 4

F-12
[7'/<27/<55/<4.5/--]

F-5
[6.7'/590/<73/**130**/<0.0011]

F-11
[12'/<38/<77/<8.6/--]

LEGEND

- PROPERTY BOUNDARY
- LIMIT OF EXCAVATION - TOP OF SLOPE
- FORMER BUILDING FOOTPRINT
- TP3 — TEST PIT (FARALLON 2017)
- F-13 — BORING (FARALLON 2014)
- P-3 — BORING (GOLDER ASSOCIATES 2001)
- CF-T-4 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)

[7'/<38/<76/<9.8/<0.020] = DEPTH / DRO / ORO / GRO / BENZENE

SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM

SAMPLE DEPTH IN FEET BELOW GROUND SURFACE

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

GRO = TPH AS GASOLINE RANGE ORGANICS

BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS

< = ANALYTE NOT DETECTED AT OR EXCEEDING LABORATORY REPORTING LIMIT

-- = SAMPLE NOT ANALYZED

ND = ANALYTE NOT DETECTED AT OR EXCEEDING LABORATORY REPORTING LIMIT

* = SAMPLE DEPTH UNKNOWN

RI = REMEDIAL INVESTIGATION

UST = UNDERGROUND STORAGE TANK

0 30
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FIGURE 4C

RI AND TEST PIT SOIL ANALYTICAL RESULTS
FOR PETROLEUM HYDROCARBONS PROXIMATE TO
FORMER NORTHWEST UST AREA AND EXCAVATION 4
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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A B C D E F G

1 2 3 4 5 6 7 8 9 10 11

B3-SE-B
[13'/<50/<250/<10/<0.02]

C4-NE
[12'/<50/<250/<10/<0.02]

C3-NE
[12'/<50/<250/<10/<0.02]

EXCAVATION 2

EX5-NW
[9'/<32/<64/<7.5/<0.0013]

P-9

D3-SE
[9'/<50/<250/<10/<0.02]

B3-SE-SW
[12'/<50/<250/<10/<0.02]

EX5-NNW
[8.5'/<33/<66/<7.4/<0.0011]

EX5-NEB
[12'/<30/<60/<6.6/<0.0011]

C3-NE

D4-NE
[9'/<50/<250/<10/<0.02]

P-3

B3-SE-B

EX5-NWW
[8.5'/<39/<77/<9.3/<0.0017]

EX5-NE
[9.5'/<29/<58/<6.2/<0.0010]

EX5-N-SW
[8'/<29/<58/<6.0/<0.0010]

C5-NW
[8'/<50/<250/<10/<0.02]

C4-SE
[8'/<50/<250/<10/<0.02]

E4-SW
[8'/<50/<250/<10/<0.02]

EX5-B10
[13'/<36/130/<9.4/<0.0014]

D5/E5-SE
[8'/<50/<250/<10/<0.02]

EX5-N1-SW
[8'/<33/<66/<8.1/<0.0013]

E5-SW
[8'/<50/<250/<10/<0.02]

EX5-N2-SW
[8'/<36/<72/<9.7/<0.0018]

C5/D5-SW
[8'/<50/1,530/<10/<0.02]

D6/E6-SE
[11'/<50/<250/<10/<0.02]

EX5-B1
[9'/<35/<70/<7.7/<0.0011]

C6-SE
[13'/<50/<250/<10/<0.02]

E6-SE
[10'/<50/<250/<10/<0.02]

C7-NW
[12'/<50/<250/<10/<0.02]

EX5-NW-SW
[8'/<37/100/<9.4/<0.0018]

EX5-B2
[9'/<35/<70/<7.9/<0.0011]

C6-NW
[13'/<50/<250/<10/<0.02]

D7/E7-SE
[13'/<50/<250/<10/<0.02]

EX5-NE-SW
[8'/<28/130/<5.1/<0.00087]

EX5-B3
[9'/<33/<66/<6.8/<0.0011]

E7-SE
[12'/<50/<250/<10/<0.02]

EX5-B5
[12'/<34/<68/<8.1/0.0013]

C7/D7-SE
[14'/<50/<250/<10/<0.02]

F8-NE
[8'/<50/<250/<10/<0.02]

EX5-B4
[9'/<34/<68/<8.1/<0.0011]

C8-NW
[9'/<50/<250/<10/<0.02]

G8/F8-SE
[11'/<50/<250/<10/<0.02]

EX5-W3-SW
[8'/<31/<62/<5.8/<0.0010]

C8-NE
[10'/<50/<250/<10/<0.02]

G8-NE
[9'/<50/<250/<10/<0.02]

EX5-B6
[12'/<34/<68/<8.2/<0.0013]

D8/E8-SW
[11'/<50/<250/<10/<0.02]

EX5-B8
[12'/110/110/<7.6/<0.0013]

F8/E8-SW
[11'/<50/<250/<10/<0.02]

EX5-B9
[11.5'/<35/<69/<8.8/<0.0014]

EX5-W1-SW
[9'/<33/<66/<7.3/<0.0013]

D9/E9-SW
[8'/<50/<250/<10/<0.02]

F9/E9-SW
[11'/<50/<250/<10/<0.02]

EX5-E-SW
[8'/<27/<53/<5.1/<0.00092]

C9-NE
[8'/<50/<250/<10/<0.02]

G9-SE
[9'/<50/<250/<10/<0.02]

EX5-W4-SW
[8'/<36/<71/<7.9/<0.0012]

G9/F9-SW
[11'/<50/<250/<10/<0.02]

EX5-SW1-SW
[8'/<39/<77/<10/<0.0013]

EX5-E1-SW
[8'/<34/<68/<7.3/<0.0012]

E9-SE
[8'/<50/<250/<10/<0.02]

F9-SE
[8'/<50/<250/<10/<0.02]

EXCAVATION 5

EX5-SE-SW
[8'/<29/<58/<5.9/<0.0012]

EX5-SE1-SW
[8'/<34/<68/<7.8/<0.0011]

EXCAVATION 1

EX5-B7
[11.5'/100/500/<7.0/<0.0010]

FORMER SHOP BUILDING

LEGEND

- FORMER BUILDING FOOTPRINT
- LIMIT OF EXCAVATION - TOP OF SLOPE
- EX5-B1 EXCAVATION SOIL SAMPLE
- TP3 TEST PIT (FARALLON 2017)
- GP-6 BORING (GOLDER ASSOCIATES 2004)
- EXCAVATION SIDEWALL SLOPE
- F G / 1 2 SAMPLING GRID

[7'/<38/<76/<9.8/<0.020] = DEPTH / DRO / ORO / GRO / BENZENE

SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM

SAMPLE DEPTH IN FEET BELOW GROUND SURFACE

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

GRO = TPH AS GASOLINE-RANGE ORGANICS

< = ANALYTE NOT DETECTED AT OR EXCEEDING LABORATORY REPORTING LIMIT

UST = UNDERGROUND STORAGE TANK

0 20

SCALE IN FEET

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FIGURE 5A

EXCAVATIONS 1 AND 5
FINAL LIMITS OF EXCAVATION AND CONFIRMATIONAL SOIL ANALYTICAL RESULTS FOR PETROLEUM HYDROCARBONS
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

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F G H I J K

2 3 4 5 6 7 8 9

H2-NE
[8'/<50/<250/<10/<0.02]

G2-S
[8'/<50/<250/<10/<0.02]

H2-S
[12'/<50/<250/<10/<0.02]

FORMER 20,000-GALLON
DIESEL UST

I3-NE
[8'/<50/<250/<10/<0.02]

G3-SW
[8'/<50/<250/<10/<0.02]

H3-S
[12.5'/<50/<250/<10/<0.02]

G4/G5-NW
[9'/<50/<250/<10/<0.02]

I3-SW
[10'/<50/<250/<10/<0.02]

I4-NE
[8'/<50/<250/<10/<0.02]

G4-NW
[8'/<50/<250/<10/<0.02]

H4-S
[13'/<50/<250/<10/<0.02]

G4-SW
[9'/<50/<250/<10/<0.02]

I4-SW
[10'/711/<250/<10/<0.02]

I5-NE
[8'/<50/<250/<10/<0.02]

G5-NW
[8'/<50/<250/<10/<0.02]

FORMER
DIESEL
DISPENSER

PRODUCT
LINE
TRENCH

G5-SE
[9'/<50/<250/<10/<0.02]

H5-SE
[9'/<50/<250/<10/<0.02]

I5-SE
[8'/<50/<250/<10/<0.02]

G6-N
[9'/<50/<250/<10/<0.02]

I6-SW-SW
[8'/<50/<250/<10/<0.02]

H6-SW
[9'/<50/<250/<10/<0.02]

I6-SW-B
[9'/<50/<250/<10/<0.02]

G7-N
[9'/<50/<250/<10/<0.02]

FORMER SHOP BUILDING

EXCAVATION 2

H7-SW
[9'/<50/<250/14/<0.02]

I7-SW
[9'/<50/<250/<10/<0.02]

J7-SW
[9'/<50/<250/<10/<0.02]

H7-S
[8'/<50/<250/<10/<0.02]

I7-S
[8'/<50/<250/<10/<0.02]

J7-SE
[8'/<50/<250/<10/<0.02]

0 10
SCALE IN FEET

TP-10
[7'/<28/<57/<5.8/<0.0010]
[11'/<39/84/<10/<0.0015]

TP-9
[7'/<36/<71/<7.9/<0.0012]
[11'/<37/<74/<13/<0.0018]

EXCAVATION 3

TP-8
[7'/<36/<71/<7.7/<0.0011]
[11'/<34/<68/<7.5/<0.0011]

J9-NE
[9'/<50/<250/<10/<0.02]

K9-NE
[10'/<50/<250/<10/<0.02]

GP-7
[6 - 8'/<33/<67/<6.7/<0.0013]
[10 - 12'/<35/<70/<7.0/<0.0014]
NOTE: GP-7 LOCATED APPROXIMATELY 6 FEET SOUTH OF POSITION ON FIGURE 5B

LEGEND

- FORMER BUILDING FOOTPRINT
- LIMIT OF EXCAVATION - TOP OF SLOPE
- EX5-B1 EXCAVATION SOIL SAMPLE
- TP3 TEST PIT (FARALLON 2017)
- GP-6 BORING (GOLDER ASSOCIATES 2004)
- EXCAVATION SIDEWALL SLOPE

F G
1 2 SAMPLING GRID

[7'/<38/<76/<9.8/<0.020] = DEPTH / DRO / ORO / GRO / BENZENE

SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
GRO = TPH AS GASOLINE-RANGE ORGANICS
< = ANALYTE NOT DETECTED AT OR EXCEEDING LABORATORY REPORTING LIMIT
UST = UNDERGROUND STORAGE TANK

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FIGURE 5B

EXCAVATIONS 2 AND 3
FINAL LIMITS OF EXCAVATION AND CONFIRMATIONAL SOIL ANALYTICAL RESULTS FOR PETROLEUM HYDROCARBONS
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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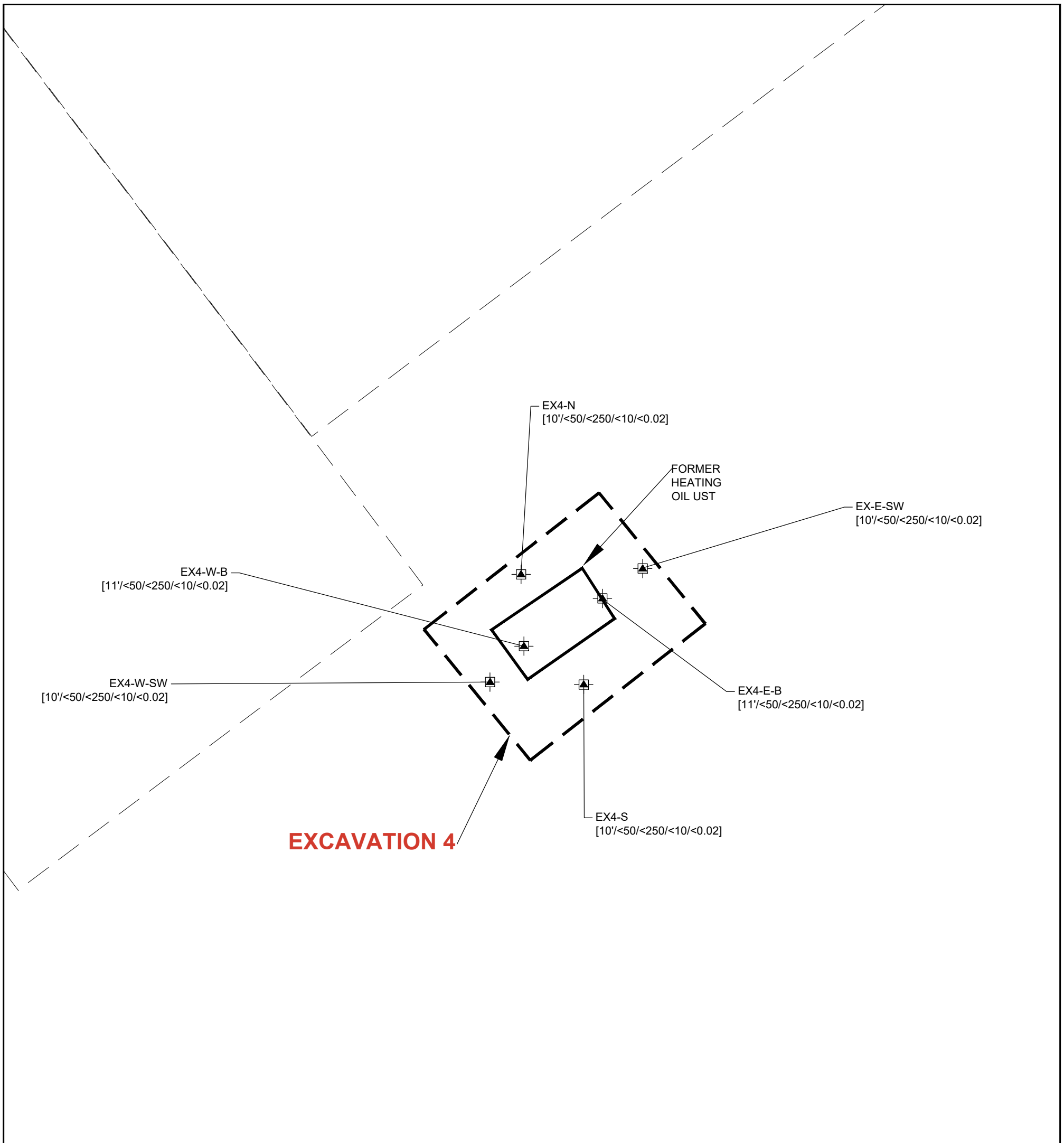

LEGEND

- FORMER BUILDING FOOTPRINT
- LIMIT OF EXCAVATION - TOP OF SLOPE
- EX5-B1 EXCAVATION CONFIRMATIONAL SOIL SAMPLE
- [7'/<38/<76/<9.8/<0.020] = DEPTH / DRO / ORO / GRO / BENZENE
- SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
- SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
- DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL RANGE ORGANICS
- ORO = TPH AS OIL-RANGE ORGANICS
- GRO = TPH AS GASOLINE-RANGE ORGANICS
- < = ANALYTE NOT DETECTED AT OR EXCEEDING LABORATORY REPORTING LIMIT
- UST = UNDERGROUND STORAGE TANK

N

0 10
SCALE IN FEET

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FIGURE 5C

EXCAVATION 4
FINAL LIMITS OF EXCAVATION AND CONFIRMATIONAL SOIL ANALYTICAL RESULTS FOR PETROLEUM HYDROCARBONS
FORMER HEATING OIL UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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LEGEND

- PROPERTY BOUNDARY
- FORMER BUILDING FOOTPRINT
- PUBLIC ROAD RIGHT-OF-WAY
- ESTIMATED EXTENT OF TOTAL PETROLEUM HYDROCARBONS (TPH) IN SOIL EXCEEDING THE MTCA METHOD A CLEANUP LEVELS, DASHED WHERE INFERRED
- MW-1 MONITORING WELL (GOLDER ASSOCIATES 1998 AND 2001)
- GP-1 RECONNAISSANCE GROUNDWATER SAMPLE (GOLDER ASSOCIATES 2000)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- 260/300/--/-- GROUNDWATER SAMPLE ANALYTICAL RESULTS IN MICROGRAMS PER LITER FOR [DRO/ORO/GRO/BENZENE]

GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
DRO = TPH AS DIESEL-RANGE ORGANICS
BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT
-- = NOT ANALYZED
ALL LOCATIONS ARE APPROXIMATE

EAST MARGINAL WAY SOUTH

GP-1 **1,200/690**/--/--
GP-2 400/280/--/--
GP-3 260/**590**/--/--
GP-4 **800**/490/--/--
MW-3 **1,500/1,800**/--/<1.0
GP-5 **980**/470/--/--
MW-2 **1,900/580**/--/<1.0
2,500/860/--/--
GP-11
GP-11 **1,400/1,800**/--/--
GP-7 **720**/360/--/--
GP-8 260/300/--/--
GP-10/GP-14 **2,900/2,100**/--/--
GP-9 **1,200**/280/--/--
GP-9 160/390/--/--
GP-13 **580**/330/--/--
FORMER PRODUCT LINE TRENCH
RW-2 **1,500**/450/--/**83**
FORMER SHOP BUILDING
FORMER OIL-WATER SEPARATOR
FORMER WASH RACK
FORMER 20,000 GALLON DIESEL UST
MW-1 160/250/--/<1.0

0 50
Scale in feet

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FIGURE 6

GROUNDWATER ANALYTICAL RESULTS FOR
AUGUST 17 AND 18, 1999
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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LEGEND

- PROPERTY BOUNDARY
- FORMER BUILDING FOOTPRINT
- PUBLIC ROAD RIGHT-OF-WAY
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- MW-1 — MONITORING WELL (GOLDER ASSOCIATES 1998 AND 2001)
- (3.07) — GROUNDWATER LEVEL ELEVATION
- 2.9 — GROUNDWATER SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- 230/300/--/0.3 — GROUNDWATER SAMPLE ANALYTICAL RESULTS IN MICROGRAMS PER LITER FOR [DRO/ORO/GRO/BENZENE]

GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
DRO = TPH AS DIESEL-RANGE ORGANICS
BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT
-- = NOT ANALYZED
ALL LOCATIONS ARE APPROXIMATE

EAST MARGINAL WAY SOUTH

MW-6 (2.69) 230/380/--/0.3
MW-5 (2.58) 330/360/--/<0.4
MW-3 (2.90) **1,800**/**1,800**/--/0.24
MW-4 (2.68) 160/330/--/<0.4
MW-2 (2.94) **1,500**/**640**/--/<0.4
MW-1 (3.07)
RW-2 (3.07) NOT SAMPLED

2.7
2.8
2.9
3.0

FORMER SHOP BUILDING
FORMER WASH RACK
FORMER OIL-WATER SEPARATOR
FORMER PRODUCT LINE TRENCH
FORMER 20,000 GALLON DIESEL UST

0 50
Scale in feet

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FIGURE 7

GROUNDWATER ELEVATION CONTOUR MAP
AND GROUNDWATER ANALYTICAL RESULTS FOR
JANUARY 17, 2001
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

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EAST MARGINAL WAY SOUTH

MW-6 (2.88)
<260/<410/<100/<1.0

MW-5 (2.97)
<250/<400/<100/<1.0

MW-3 (3.11)
<250/<400/<100/<1.0

MW-4 (3.04)
<250/<400/<100/<1.0

MW-2 (3.23)
<250/<400/<100/<1.0

2.9
3.0
3.1
3.2
3.3
3.4
3.5

FORMER SHOP BUILDING

FORMER PRODUCT LINE TRENCH

RW-2 (3.41)
<250/<400/450/**5.31**

FORMER OIL-WATER SEPARATOR

FORMER WASH RACK

FORMER 20,000 GALLON DIESEL UST

MW-1 (3.51)
<250/<400/<100/<1.0

LEGEND

- PROPERTY BOUNDARY
- FORMER BUILDING FOOTPRINT
- PUBLIC ROAD RIGHT-OF-WAY
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- MW-1 — MONITORING WELL (GOLDER ASSOCIATES 1998 AND 2001)
- (3.51) — GROUNDWATER LEVEL ELEVATION
- 2.9 — GROUNDWATER SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- <250/<400/<100/<1.0 — GROUNDWATER SAMPLE ANALYTICAL RESULTS IN MICROGRAMS PER LITER FOR [DRO/ORO/GRO/BENZENE]

GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
DRO = TPH AS DIESEL-RANGE ORGANICS
BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS
< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT
ALL LOCATIONS ARE APPROXIMATE

0 50
Scale in feet

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FIGURE 8

GROUNDWATER ELEVATION CONTOUR MAP
AND GROUNDWATER ANALYTICAL RESULTS FOR
DECEMBER 2, 2003
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

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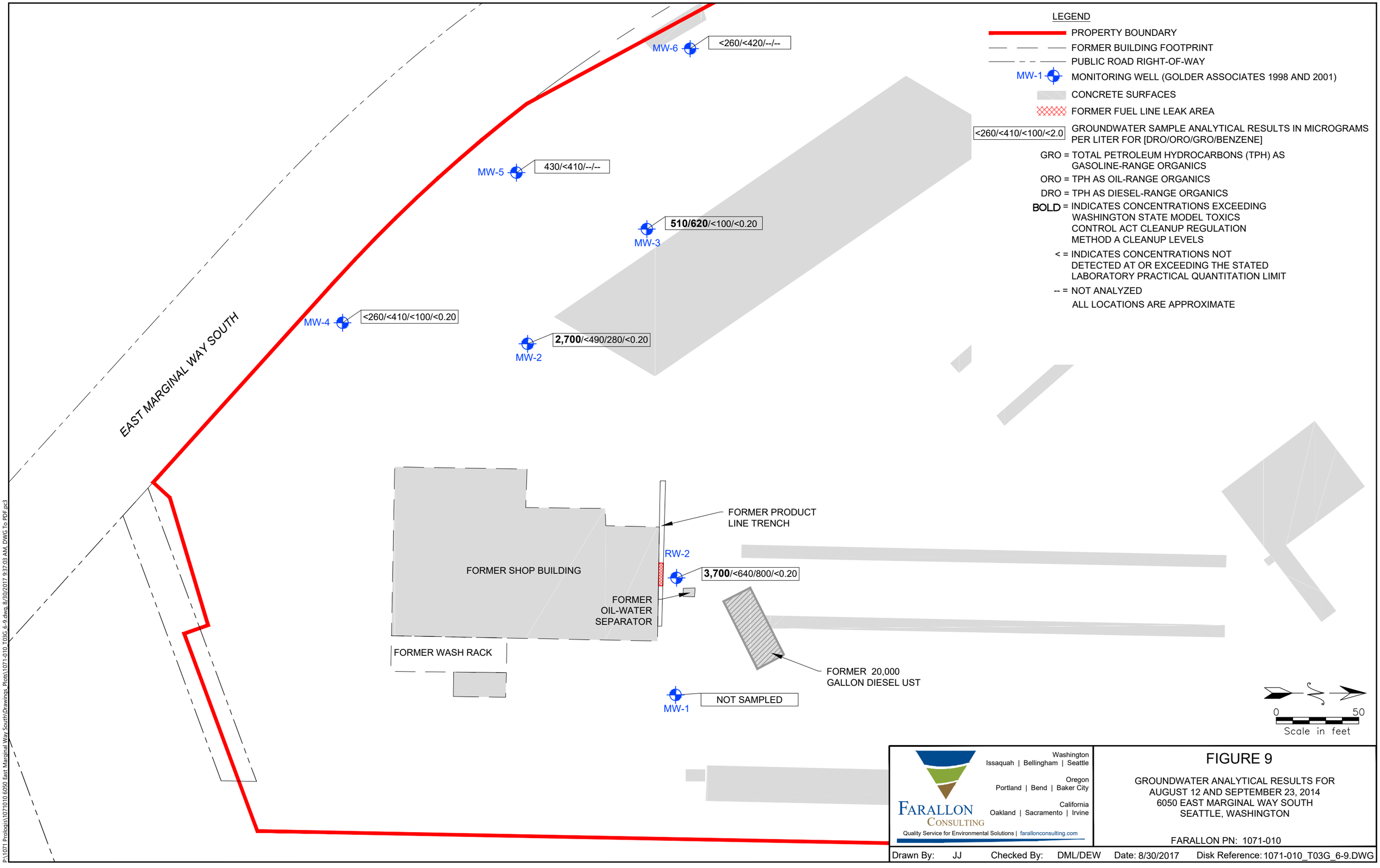

LEGEND

- PROPERTY BOUNDARY
- FORMER BUILDING FOOTPRINT
- PUBLIC ROAD RIGHT-OF-WAY
- MW-1 MONITORING WELL (GOLDER ASSOCIATES 1998 AND 2001)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- <260/<410/<100/<2.0 GROUNDWATER SAMPLE ANALYTICAL RESULTS IN MICROGRAMS PER LITER FOR [DRO/ORO/GRO/BENZENE]

GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

DRO = TPH AS DIESEL-RANGE ORGANICS

BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS

< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

-- = NOT ANALYZED

ALL LOCATIONS ARE APPROXIMATE

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FIGURE 9

GROUNDWATER ANALYTICAL RESULTS FOR
AUGUST 12 AND SEPTEMBER 23, 2014
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

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FORMER 20,000 GALLON UST

FORMER
SHOP
BUILDING

FORMER
DYNAMOMETER
SHED

FORMER
WASH RACK

EAST MARGINAL WAY SOUTH

RESTAURANT

0 50
Scale in feet

LEGEND

- PROPERTY BOUNDARY
- PUBLIC ROAD RIGHT-OF-WAY
- FORMER BUILDING FOOTPRINT
- PROPOSED COMPLIANCE GROUNDWATER MONITORING WELL
- FORMER UST
- CONCRETE SURFACES

UST = UNDERGROUND STORAGE TANK

ALL LOCATIONS ARE APPROXIMATE

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FIGURE 10

APPROXIMATE LOCATION OF POST-REDEVELOPMENT
COMPLIANCE GROUNDWATER MONITORING WELLS
RELATIVE TO HISTORICAL PROPERTY FEATURES
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

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TABLES

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

Table 1
Summary of Groundwater Elevation Data
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Monitoring Well Location	Date Measured	Top of Casing Elevation (feet)[1,2]	Depth to Water (feet)[3]	Groundwater Elevation (feet)[4]
MW-1_88 (Decommissioned 1/10/1990)	7/7/1988	99.23	7.78	91.45
	7/12/1988		8.02	91.21
	7/13/1988		7.79	91.44
	7/14/1988		8.39	90.84
	10/6/1988		8.41	90.82
	2/8/1989		7.58	91.65
	5/3/1989		7.23	92.00
	8/3/1989		7.51	91.72
	11/1/1989		7.54	91.69
MW-2A_88 (Decommissioned 1/10/1990)	7/7/1988	98.96	7.64	91.32
	7/12/1988		7.92	91.04
	7/13/1988		7.62	91.34
	7/14/1988		8.32	90.64
	10/6/1988		8.31	90.65
	2/8/1989		7.44	91.52
	5/3/1989		7.12	91.84
	8/3/1989		7.36	91.60
	11/1/1989		7.35	91.61
MW-3_88 (Decommissioned 1/10/1990)	7/7/1988	98.42	6.98	91.44
	7/12/1988		7.32	91.10
	7/13/1988		6.95	91.47
	7/14/1988		7.65	90.77
	10/6/1988		7.64	90.78
	2/8/1989		6.79	91.63
	5/3/1989		6.52	91.90
	8/3/1989		6.75	91.67
	11/1/1989		6.73	91.69
MW-4_88 (Decommissioned 1/10/1990)	7/7/1988	98.31	6.93	91.38
	7/12/1988		7.28	91.03
	7/13/1988		8.67*	89.64
	7/14/1988		7.64	90.67
	10/6/1988		7.63	90.68
	2/8/1989		6.90	91.41
	5/3/1989		6.40	91.91
	8/3/1989		6.71	91.60
	11/1/1989		6.68	91.63
MW-5_88 (Decommissioned 1/10/1990)	7/7/1988	98.73	7.31	91.42
	7/12/1988		7.66	91.07
	7/13/1988		7.25	91.48
	7/14/1988		8.01	90.72
	10/6/1988		7.98	90.75
	2/8/1989		7.14	91.59
	5/3/1989		6.82	91.91
	8/3/1989		7.10	91.63
	11/1/1989		7.08	91.65

Table 1
Summary of Groundwater Elevation Data
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Monitoring Well Location	Date Measured	Top of Casing Elevation (feet)[1,2]	Depth to Water (feet)[3]	Groundwater Elevation (feet)[4]
MW-1 (Decommissioned 9/6/2016)	8/17/1999	9.76	6.63	3.13
	1/17/2001		6.69	3.07
	6/7/2001		6.39	3.37
	12/3/2003		6.25	3.51
MW-2 (Decommissioned 9/6/2016)	8/17/1999	10.28	7.46	2.82
	1/17/2001		7.34	2.94
	6/7/2001		7.01	3.27
	12/3/2003		7.05	3.23
	8/12/2014		6.58	3.7
MW-3 (Decommissioned 9/6/2016)	8/17/1999	10.36	7.60	2.76
	1/17/2001		7.46	2.90
	6/7/2001		7.18	3.18
	12/3/2003		7.25	3.11
	8/12/2014		6.65	3.71
MW-4 (Decommissioned 9/6/2016)	1/17/2001	10.97	8.29	2.68
	6/7/2001		7.84	3.13
	12/3/2003		7.93	3.04
	8/12/2014		7.39	3.58
MW-5 (Decommissioned 9/6/2016)	1/17/2001	12.12	9.44	2.68
	6/7/2001		9.02	3.10
	12/3/2003		9.15	2.97
	9/23/2014		8.65	3.47
MW-6 (Decommissioned 9/6/2016)	1/17/2001	11.68	8.99	2.69
	6/7/2001		8.62	3.06
	12/3/2003		8.80	2.88
	9/23/2014		8.17	3.51
RW-2 (Decommissioned 9/6/2016)	8/17/1999	11.16	8.11	3.05
	1/17/2001		8.09	3.07
	6/7/2001		7.85	3.31
	12/3/2003		7.75	3.41
	8/12/2014		7.49	3.67

NOTES:

* Reported measurement appears to be inaccurate.

[1]Elevation relative to an elevation datum of 100.00 feet for MW-1_88, MW-2A_88, MW-3_88, MW-4_88, and MW-5_88.

[2]Elevations based on National Geodetic Vertical Datum of 1929 for MW-1 through MW-6 and RW-2.

[3]In feet below top of well casing.

[4]Groundwater elevation = top of casing elevation - depth to water.

Table 2
Summary of RI and Performance Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)								
					DRO[3]	ORO[3]	GRO[2]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Total Xylenes[4]	m,p-Xylene	o-Xylene
RI Investigation													
T-1	T-1	Soil Pile Composite	04/25/1988	Blymyer	**41,294** [a]	---	---	---	---	---	---	---	---
T-2	T-2	Diesel Tank Excavation	04/25/1988	Blymyer	438 [a]	---	---	---	---	---	---	---	---
T-3	T-3	Diesel Tank Excavation	04/25/1988	Blymyer	**43,602** [a]	---	---	---	---	---	---	---	---
T-4	T-4	Diesel Tank Excavation	04/25/1988	Blymyer	**27,812** [a]	---	---	---	---	---	---	---	---
T-5	T-5	Diesel Tank Excavation	04/25/1988	Blymyer	238 [a]	---	---	---	---	---	---	---	---
T-6	T-6	Soil Pile Composite	04/25/1988	Blymyer	---	---	80 [a]	N/D [b]	0.42 [b]	0.07 [b]	0.5 [b]	0.5 [b]	N/D [b]
T-7	T-7	Soil Pile Composite	04/25/1988	Blymyer	---	---	**731** [a]	N/D [b]	0.64 [b]	1.8 [b]	**12.72** [b]	8.67 [b]	4.05 [b]
T-8	T-8	Gas Tank Excavation	04/25/1988	Blymyer	---	---	50 [a]	N/D [b]	0.18 [b]	N/D [b]	N/D [b]	N/D [b]	N/D [b]
T-9	T-9	Gas Tank Excavation	04/25/1988	Blymyer	---	---	**319** [a]	N/D [b]	0.08 [b]	0.09 [b]	1.02 [b]	0.5 [b]	0.52 [b]
T-10	T-10	Diesel Tank Excavation	04/25/1988	Blymyer	**4,446** [a]	**2,045** [c]	---	---	---	---	---	---	---
T-11	T-11	Diesel Tank Excavation	04/25/1988	Blymyer	**12,643** [a]	**11,970** [c]	---	---	---	---	---	---	---
S-1V	S-1V	Waste Oil Tank Excavation	06/29/1988	Blymyer	**3,389** [a]	**4,274** [c]	---	---	---	---	---	---	---
S-1F	S-1F	Waste Oil Tank Excavation	06/29/1988	Blymyer	**2,939** [a]	**3,383** [c]	---	---	---	---	---	---	---
S-2F	S-2F	Waste Oil Tank Excavation	06/29/1988	Blymyer	**3,187** [a]	**4,072** [c]	---	---	---	---	---	---	---
S-2V	S-2V	Waste Oil Tank Excavation	06/29/1988	Blymyer	98 [a]	193 [c]	---	---	---	---	---	---	---
MW-1_88	MW-1A	4 - 4.5	06/27/1988	Blymyer	12 [a]	---	---	---	---	---	---	---	---
	MW-1B	9 - 9.5	06/27/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
	MW-1C	14 - 14.5	06/27/1988	Blymyer	11 [a]	---	---	---	---	---	---	---	---
MW-2A_88	MW-2A	4 - 4.5	06/27/1988	Blymyer	13 [a]	---	---	---	---	---	---	---	---
	MW-2B	9 - 9.5	06/27/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
	MW-2C	13.5 - 14	06/27/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
MW-3_88	MW-3A	4 - 4.5	06/27/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
	MW-3B	9 - 9.5	06/27/1988	Blymyer	160 [a]	---	---	---	---	---	---	---	---
	MW-3C	14 - 14.5	06/27/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
MW-4_88	MW-4A	5	06/28/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
	MW-4B	10	06/28/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
	MW-4C	15	06/28/1988	Blymyer	102 [a]	---	---	---	---	---	---	---	---
MW-5_88	MW-5A	5	06/28/1988	Blymyer	**4,797** [a]	---	---	---	---	---	---	---	---
	MW-5B	10	06/28/1988	Blymyer	15 [a]	---	---	---	---	---	---	---	---
	MW-5C	15	06/28/1988	Blymyer	<10 [a]	---	---	---	---	---	---	---	---
Soil Treatment Mound	MW-1122-A	Soil Pile	11/22/1988	GTI	500 [a]	---	**170** [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-1122-B	Soil Pile	11/22/1988	GTI	350 [a]	---	88 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-1122-C	Soil Pile	11/22/1988	GTI	150 [a]	---	46 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-1122-D	Soil Pile	11/22/1988	GTI	120 [a]	---	78 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-1122-E	Soil Pile	11/22/1988	GTI	<10 [a]	---	11 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-1122-F	Soil Pile	11/22/1988	GTI	82 [a]	---	58 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW23A	Soil Pile	2/3/1989	GTI	170 [a]	---	52 [a]	<0.025 [b]	<1.0 [b]	<1.0 [b]	<1.0 [b]	---	---
Soil Treatment Mound	MW23B	Soil Pile	2/3/1989	GTI	260 [a]	---	78 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW23C	Soil Pile	2/3/1989	GTI	79 [a]	---	18 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW23D	Soil Pile	2/3/1989	GTI	<10 [a]	---	18 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW23E	Soil Pile	2/3/1989	GTI	120 [a]	---	**110** [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW23F	Soil Pile	2/3/1989	GTI	330 [a]	---	41 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
MTCA Method A Cleanup Levels[5]					**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**	**NE**	**NE**

Table 2
Summary of RI and Performance Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)								
					DRO[3]	ORO[3]	GRO[2]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Total Xylenes[4]	m,p-Xylene	o-Xylene
Soil Treatment Mound	MW-36A	Soil Pile	3/6/1989	GTI	320 [a]	---	<1 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-36B	Soil Pile	3/6/1989	GTI	280 [a]	---	<1 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-36C	Soil Pile	3/6/1989	GTI	430 [a]	---	<1 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-36D	Soil Pile	3/6/1989	GTI	210 [a]	---	<1 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-36E	Soil Pile	3/6/1989	GTI	190 [a]	---	<1 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	MW-36F	Soil Pile	3/6/1989	GTI	150 [a]	---	<1 [a]	<0.025 [b]	<0.5 [b]	<0.5 [b]	<0.5 [b]	---	---
Soil Treatment Mound	DH52A	Soil Pile	5/2/1989	GTI	170 [a]	---	---	---	---	---	---	---	---
Soil Treatment Mound	DH52C	Soil Pile	5/2/1989	GTI	630 [a]	---	---	---	---	---	---	---	---
Soil Treatment Mound	DH52E	Soil Pile	5/2/1989	GTI	100 [a]	---	---	---	---	---	---	---	---
Soil Treatment Mound	JD681/JD2	"Clean" Soil Pile Composite	6/8/1989	GTI	21 [a]	---	---	---	---	---	---	---	---
Soil Treatment Mound	JD683/JD4	"Clean" Soil Pile Composite	6/8/1989	GTI	520 [a]	---	---	---	---	---	---	---	---
Soil Treatment Mound	JD685/JD6	"Clean" Soil Pile Composite	6/8/1989	GTI	<10 [a]	---	---	---	---	---	---	---	---
P-1	1764-P1-S-4	6 - 7	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P1-S-7	7 - 10	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
P-2	1764-P2-S-2	3.5 - 5	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P2-S-5	5 - 8	8/8/1997	S&W	**19,000** [d]	---	---	---	---	---	---	---	---
P-3	1764-P3-S-2	3.5 - 5	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P3-S-5	5 - 8	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
P-4	1764-P4-S-2	3.5 - 5	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P4-S-5	5 - 8	8/8/1997	S&W	**3,500** [d]	---	---	---	---	---	---	---	---
P-5	1764-P5-S-6	6 - 7.5	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P5-S-7.5	7.5 - 9	8/8/1997	S&W	180 [d]	---	---	---	---	---	---	---	---
P-6	1764-P6-S-6	6 - 7.5	8/8/1997	S&W	96 [d]	---	---	---	---	---	---	---	---
	1764-P6-S-7.5	7.5 - 9	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
P-7	1764-P7-S-6	6 - 7.5	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P7-S-7.5	7.5 - 9	8/8/1997	S&W	90 [d]	---	---	---	---	---	---	---	---
P-8	1764-P8-S-6	6 - 7.5	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P8-S-7.5	7.5 - 9	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
P-9	1764-P9-S-5	5 - 6.5	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
	1764-P9-S-6.5	6.5 - 8	8/8/1997	S&W	<20 [d]	---	---	---	---	---	---	---	---
P-10	1764-P10-S-6	6 - 7.5	8/8/1997	S&W	<10 [d]	---	---	---	---	---	---	---	---
	1764-P10-S-7.5	7.5 - 9	8/8/1997	S&W	<10 [d]	---	---	---	---	---	---	---	---
Product PipingTrench	CF-T1	2.2 - 2.7	4/7/1998	Golder	---	---	---	<0.43 [b]	<0.43 [b]	<0.43 [b]	<1.29 [b]	<0.86 [b]	<0.43 [b]
Product PipingTrench	CF-T2	2.2 - 2.7	4/7/1998	Golder	<13 [d]	<26 [d]	---	---	---	---	---	---	---
Product PipingTrench	CF-T3	2.0 - 2.5	4/7/1998	Golder	20 [d]	53 [d]	---	---	---	---	---	---	---
MW-1	MW1-5.5	5.5 - 7.0	4/7/1998	Golder	<18 [d]	<35 [d]	---	---	---	---	---	---	---
	MW1-7.0	7.0 - 8.5	4/7/1998	Golder	<17 [d]	<35 [d]	---	---	---	---	---	---	---
MW-2	MW2-2.0	1.5 - 2.0	4/7/1998	Golder	---	---	---	<0.48 [b]	<0.48 [b]	<0.48 [b]	<1.43 [b]	<0.95 [b]	<0.48 [b]
	MW2-5.5	5.5 - 7.0	4/7/1998	Golder	18 [d]	<34 [d]	---	---	---	---	---	---	---
MW-3	MW3-5.0	5 - 6.5	4/7/1998	Golder	<17 [d]	32 [d]	---	---	---	---	---	---	---
	MW3-6.5	6.5 - 8.0	4/7/1998	Golder	<19 [d]	48 [d]	---	---	---	---	---	---	---
MTCA Method A Cleanup Levels[5]					**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**	**NE**	**NE**

Table 2
Summary of RI and Performance Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)								
					DRO[3]	ORO[3]	GRO[2]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Total Xylenes[4]	m,p-Xylene	o-Xylene
RW-1	RW1-7.0	7.0 - 8.5	4/7/1998	Golder	**13,000** [d]	520 [d]	---	<0.54 [b]	<0.54 [b]	<0.54 [b]	<1.64 [b]	<1.1 [b]	<0.54 [b]
	RW1-7.0D	7.0 - 8.5	4/7/1998	Golder	**8,800** [d]	<400 [d]	---	---	---	---	---	---	---
	RW1-13	13 - 14.5	4/7/1998	Golder	18 [d]	<31 [d]	---	---	---	---	---	---	---
RW-2	RW2-4.0	4.0 - 5.5	4/8/1998	Golder	**12,000** [d]	<530 [d]	---	<0.4 [b]	4.4 [b]	**7.4** [b]	**48** [b]	30 [b]	18 [b]
	RW2-7.0	7.0 - 8.5	4/8/1998	Golder	---	---	---	<0.53 [b]	<0.53 [b]	4.4 [b]	**55** [b]	29 [b]	26 [b]
Diesel Tank Excavation North Sidewall	SW-1	8 - 10	7/27/1998	Fluor Daniel	**28,700** [d]	---	---	---	---	---	---	---	---
Diesel Tank Excavation South Sidewall	SW-2	8 - 10	7/27/1998	Fluor Daniel	<10 [d]	---	---	---	---	---	---	---	---
Diesel Tank Excavation East Sidewall	SW-3	8 - 10	7/27/1998	Fluor Daniel	<10 [d]	---	---	---	---	---	---	---	---
Diesel Tank Excavation West Sidewall	SW-4	8 - 10	7/27/1998	Fluor Daniel	**2,700** [d]	---	---	---	---	---	---	---	---
Diesel Tank Excavation Base - NE Corner	TPB-1	13	7/27/1998	Fluor Daniel	72.1 [d]	---	---	---	---	---	---	---	---
Diesel Tank Excavation Base - SE Corner	TPB-3	13	7/27/1998	Fluor Daniel	<10 [d]	---	---	---	---	---	---	---	---
East End of Product Lines	PL-1	3	7/29/1998	Fluor Daniel	20.5 [d]	---	---	---	---	---	---	---	---
Center of Product Lines	PL-2	3	7/29/1998	Fluor Daniel	**4,780** [d]	---	---	---	---	---	---	---	---
West End of Product Lines	PL-3	3	7/29/1998	Fluor Daniel	<10 [d]	---	---	---	---	---	---	---	---
SP-1	SP1-(5-8')	5 - 8	1/11/2001	Golder	**2,300**	350	---	---	---	---	---	---	---
	SP1-(8-11')	8-11	1/11/2001	Golder	**2,700**	82	---	<0.023	0.094	0.22	0.82	0.39	0.43
SP-2	SP2-(5-8')	5-8	1/11/2001	Golder	45	45	---	---	---	---	---	---	---
SP-3	SP3-(5-8')	5 - 8	1/11/2001	Golder	1,800	190	---	---	---	---	---	---	---
SP-4	SP4-(5-8')	5 - 8	1/11/2001	Golder	<35	<70	---	---	---	---	---	---	---
SP-5	SP5-(5-8')	5 - 8	1/11/2001	Golder	**7,300**	500	---	<0.019	0.25	2.9	6.1	3.8	2.3
	SP5-(8-11')	8 - 11	1/11/2001	Golder	1,000	240	---	---	---	---	---	---	---
SP-6	SP6-(5-8')	5 - 8	1/11/2001	Golder	1,500	85	---	<0.027	0.09	0.76	1.98	1.1	0.88
SP-7	SP7-(8-11')	8 - 11	1/11/2001	Golder	820	220	---	---	---	---	---	---	---
SP-8	SP8-(5-8')	5 - 8	1/11/2001	Golder	**23,000**	460	---	**0.16**	1.5	**18**	**43**	24	19
	SP8-(8-11')	8 - 11	1/11/2001	Golder	**5,300**	160	---	---	---	---	---	---	---
SP-9	SP9-(5-8')	5 - 8	1/11/2001	Golder	**8,200**	210	---	**0.073**	0.44	5.8	**9.7**	8.1	1.6
	SP9-(8-11')	8 - 11	1/11/2001	Golder	1,600	49	---	---	---	---	---	---	---
SP-10	SP10-(5-8')	5 - 8	1/11/2001	Golder	19	120	---	---	---	---	---	---	---
SP-11	SP11-(5-8')	5 - 8	1/11/2001	Golder	1,100	66	---	<0.025	<0.05	<0.05	0.28	0.17	0.11
SP-12	SP12-(10-12')	10-12	1/11/2001	Golder	560	45	---	---	---	---	---	---	---
SP-13	SP13-(5-8')	5 - 8	1/11/2001	Golder	<33	<65	---	---	---	---	---	---	---
GP-1	GP-1 (6-8')	6 - 8	12/2/2003	Golder	<36	<71	<7.1	<0.0014	0.0020	<0.0014	<0.0043	<0.0029	<0.0014
	GP-1 (10-12')	10 - 12	12/2/2003	Golder	<34	<68	<6.8	<0.0014	<0.0014	<0.0014	<0.0041	<0.0027	<0.0014
GP-2	GP-2 (6-8')	6 - 8	12/2/2003	Golder	<28	<57	<5.7	<0.0011	<0.0011	<0.0011	<0.0034	<0.0023	<0.0011
	GP-2 (10-12')	10 - 12	12/2/2003	Golder	<35	<70	<7.0	<0.0014	<0.0014	<0.0014	<0.0042	<0.0028	<0.0014
GP-3	GP-3 (6-8')	6 - 8	12/2/2003	Golder	<26	<53	<5.3	<0.0011	<0.0011	<0.0011	<0.0032	<0.0021	<0.0011
	GP-3 (10-12')	10 - 12	12/2/2003	Golder	<35	<70	<7.0	<0.0014	<0.0014	<0.0014	<0.0042	<0.0028	<0.0014
GP-4	GP-4 (2-4')	2 - 4	12/2/2003	Golder	<130	1,300	<5.4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0022	<0.0011
	GP-44 (2-4')	2 - 4 (duplicate)	12/2/2003	Golder	<130	800	<5.4	<0.0011	0.0011	<0.0011	<0.0033	<0.0022	<0.0011
	GP-4 (6-8')	6 - 8	12/2/2003	Golder	<28	<55	<5.5	<0.0011	<0.0011	<0.0011	<0.0033	<0.0022	<0.0011
	GP-4 (10-12')	10 - 12	12/2/2003	Golder	<35	<70	<7.0	<0.0014	<0.0014	<0.0014	<0.0042	<0.0028	<0.0014
MTCA Method A Cleanup Levels[5]					**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**	**NE**	**NE**

Table 2
Summary of RI and Performance Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)								
					DRO[3]	ORO[3]	GRO[2]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Total Xylenes[4]	m,p-Xylene	o-Xylene
GP-5	GP-5 (6-8')	6 - 8	12/2/2003	Golder	<28	<55	<5.5	<0.0011	<0.0011	<0.0011	<0.0033	<0.0022	<0.0011
	GP-5 (10-12')	10 - 12	12/2/2003	Golder	<36	<71	<7.1	<0.0014	<0.0014	<0.0014	<0.0042	<0.0028	<0.0014
GP-6	GP-6 (0-2.5')	0 - 2.5	12/2/2003	Golder	<270	**4,000**	<5.3	<0.0011	<0.0011	<0.0011	<0.0032	<0.0021	<0.0011
GP-7	GP-7 (6-8')	6 - 8	12/2/2003	Golder	<33	<67	<6.7	<0.0013	<0.0013	<0.0013	<0.0040	<0.0027	<0.0013
	GP-7 (10-12')	10 - 12	12/2/2003	Golder	<35	<70	<7.0	<0.0014	<0.0014	<0.0014	<0.0043	<0.0029	<0.0014
GP-8	GP-8 (6-8')	6 - 8	12/2/2003	Golder	<36	<72	<7.2	<0.0014	0.0016	<0.0014	<0.0043	<0.0029	<0.0014
	GP-8 (10-12')	10 - 12	12/2/2003	Golder	<33	<66	<6.6	<0.0013	<0.0013	<0.0013	<0.0039	<0.0026	<0.0013
F-5	F5-6.7-081314	6.7	08/13/2014	Farallon	590	< 73	**130**	< 0.0011	< 0.0056	0.010	0.0069	---	---
F-8	F8-5.0-081314	5	08/13/2014	Farallon	1,000	< 64	**190**	< 0.0011	< 0.0054	0.0039	0.014	0.014	< 0.0011
F-9	F9-9.0-092214	9	09/22/2014	Farallon	<120	1,400	<4.7	---	---	---	---	---	---
F-10	F10-12.0-092214	12	09/22/2014	Farallon	<40	<81	<9.4	---	---	---	---	---	---
F-11	F11-12.0-092214	12	09/22/2014	Farallon	<38	<77	<8.6	---	---	---	---	---	---
F-12	F12-7.0-092214	7	09/22/2014	Farallon	<27	<55	<4.5	---	---	---	---	---	---
F-13	F13-6.7-092214	6.7	09/22/2014	Farallon	440	<54	---	---	---	---	---	---	---
F-14	F14-7.0-092214	7	09/22/2014	Farallon	**5,700**	<270	---	---	---	---	---	---	---
F-15	F15-7.4-092214	7.4	09/22/2014	Farallon	<38	<77	<7.9	---	---	---	---	---	---
F-16	F16-7.0-092214	7	09/22/2014	Farallon	<40	<80	<10	---	---	---	---	---	---
F-17	F17-8.0-092214	8	09/22/2014	Farallon	380	<59	<3.1	---	---	---	---	---	---
F-18	F18-8.0-092214	8	09/22/2014	Farallon	**9,700**	<580	---	---	---	---	---	---	---
2017 Test Pit Investigation													
TP-1	TP1-7.0-022217	7	2/22/2017	Farallon	<38	<76	<9.8	<0.020	<0.098	<0.098	<0.196	<0.098	<0.098
	TP1-11.0-022217	11	2/22/2017	Farallon	<37	<74	<9.7	<0.020	<0.097	<0.097	<0.194	<0.097	<0.097
TP-2	TP2-7.0-022217	7	2/22/2017	Farallon	<35	<69	<8.7	<0.020	<0.087	<0.087	<0.174	<0.087	<0.087
	TP2-11.0-022217	11	2/22/2017	Farallon	<35	<69	<9.2	<0.020	<0.092	<0.092	<0.184	<0.092	<0.092
TP-3	TP3-7.0-022217	7	2/22/2017	Farallon	<35	<70	<9.7	<0.020	<0.097	<0.097	<0.194	<0.097	<0.097
	TP3-11.0-022217	11	2/22/2017	Farallon	<33	<66	<7.2	<0.020	<0.072	<0.072	<0.144	<0.072	<0.072
TP-4	TP4-7.0-022217	7	2/22/2017	Farallon	1,100	<70	<8.9	<0.0014	0.012	<0.0014	<0.0043	<0.0029	<0.0014
	TP4-11.0-022217	11	2/22/2017	Farallon	<34	98	<9.4	<0.0012	0.011	<0.0012	<0.0036	<0.0024	<0.0012
TP-5	TP5-7.0-022117	7	2/21/2017	Farallon	1,100	540 N	<14	<0.0010	0.011	<0.0010	<0.003	<0.0020	<0.0010
	TP5-11.0-022117	11	2/21/2017	Farallon	**6,800**	1,300 N	<13	<0.065	<0.32	<0.065	<0.195	<0.13	<0.065
TP-6	TP6-7.0-022117	7	2/21/2017	Farallon	63	360	<9.6	<0.020	<0.096	<0.096	<0.192	<0.096	<0.096
	TP6-11.0-022117	11	2/21/2017	Farallon	<32	<64	<6.7	<0.020	<0.067	<0.067	<0.134	<0.067	<0.067
TP-7	TP7-7.0-022117	7	2/21/2017	Farallon	**2,300**	160 N	<8.8	<0.020	<0.088	0.18	0.13	0.13	<0.088
	TP7-11.0-022117	11	2/21/2017	Farallon	<35	88	<7.8	<0.020	<0.078	<0.078	<0.156	<0.078	<0.078
TP-8	TP8-7.0-022117	7	2/21/2017	Farallon	<36	<71	<7.7	<0.0011	0.0061	<0.0011	<0.0033	<0.0022	<0.0011
	TP8-11.0-022117	11	2/21/2017	Farallon	<34	<68	<7.5	<0.0011	<0.0055	<0.0011	<0.0033	<0.0022	<0.0011
TP-9	TP9-7.0-022117	7	2/21/2017	Farallon	<36	<71	<7.9	<0.0012	0.0086	<0.0012	<0.0035	<0.0023	<0.0012
	TP9-11.0-022117	11	2/21/2017	Farallon	<37	<74	<13	<0.0018	0.018	<0.0018	<0.0055	<0.0037	<0.0018
TP-10	TP10-7.0-022117	7	2/21/2017	Farallon	<28	<57	<5.8	<0.0010	0.0065	<0.0010	<0.0031	<0.0021	<0.0010
	TP10-11.0-022117	11	2/21/2017	Farallon	<39	84	<10	<0.0015	0.014	<0.0015	<0.0044	<0.0029	<0.0015
TP-11	TP11-7.0-030817	7	3/8/2017	Farallon	<35	<70	<8.9	<0.020	<0.089	<0.089	<0.178	<0.089	<0.089
	TP11-11.0-030817	11	3/8/2017	Farallon	<33	<67	<9.3	<0.020	<0.093	<0.093	<0.186	<0.093	<0.093
TP-12	TP12-7.0-030817	7	3/8/2017	Farallon	<34	<67	<8.8	<0.020	<0.088	<0.088	<0.176	<0.088	<0.088
	TP12-11.0-030817	11	3/8/2017	Farallon	<36	<71	<8.9	<0.020	<0.089	<0.089	<0.178	<0.089	<0.089
TP-13	TP13-7.0-030817	7	3/8/2017	Farallon	330	<72	<8.7	<0.020	<0.087	0.17	<0.174	<0.087	<0.087
	TP13-11.0-030817	11	3/8/2017	Farallon	<37	<73	<9.8	<0.020	<0.098	<0.098	<0.196	<0.098	<0.098
MTCA Method A Cleanup Levels[5]					**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**	**NE**	**NE**

Table 2
Summary of RI and Performance Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)								
					DRO[3]	ORO[3]	GRO[2]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Total Xylenes[4]	m,p-Xylene	o-Xylene
2017 Excavation Performance Samples													
Excavation 2													
Sidewall H2-NW	H2-NW-8.0-SW	8	3/24/2017	Farallon	**5,600 E**	<250	49	<0.02	<0.10	<0.05	<0.15	---	---
Bottom H4-S	H4-S-12.0-B	12	3/24/2017	Farallon	**6,350 E**	<250	**130**	<0.02	<0.10	<0.05	<0.15	---	---
Excavation 3													
Bottom UST-2-B	UST2-6.0-B	6	3/27/2017	Farallon	**9,220 E**	<250	27	< 0.02	0.35	0.39	5.03	---	---
East Sidewall UST-2-E	UST2-E-5.0-SW	5	3/27/2017	Farallon	**9,540 E**	<250	**77**	< 0.02	0.78	1.04	**12.9**	---	---
West Sidewall UST-2-W	UST2-W-5.0-SW	5	3/27/2017	Farallon	**7,380 E**	<250	**104**	**0.063**	1.89	1.27	**14.7**	---	---
Excavation 5													
West Sidewall EX5-W2-SW	W2-SW-042117-9.0	9	4/21/2017	Farallon	1,700	**2,800**	<6.3	<0.0012	<0.0058	<0.0012	<0.0035	<0.0023	<0.0012
MTCA Method A Cleanup Levels[5]					**2,000**	**2,000**	**30/100[11]**	**0.03**	**7**	**6**	**9**	**NE**	**NE**

NOTES:

Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

--- denotes sample not analyzed.

[1]Depth in feet below ground surface.

[2]Analyzed by Northwest Method NWTPH-Gx, unless otherwise noted.

[3]Analyzed by Northwest Method NWTPH-Dx, unless otherwise noted.

[4]Analyzed by U.S. Environmental Protection Agency (EPA) Methods 8260B or 8260C, unless otherwise noted.

[5]MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses,Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[6]Cleanup level is 30 milligrams per kilogram if benzene is detected and 100 milligrams per kilogram if benzene is not detected.

[a]Analyzed by EPA Method 8015 Modified.

[b]Analyzed by EPA Method 8020.

[c]Analyzed by EPA Method 418.1.

[d]Analyzed by Washington Total Petroleum Hydrocarbons as Diesel (WTPH-D) Method

Blymer = Blymyer Engineers, Inc.

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

E = analyte concentration exceeds the calibration range of the instrument

Farallon = Farallon. L.L.C.

Fluor Daniel = Fluor Daniel GTI, Inc.

Golder = Golder Associates Inc.

GRO = TPH as gasoline-range organics

GTI = Groundwater Technology, Inc.

N = hydrocarbons in the diesel-range are impacting the oil-range results

N/D = not detected and historical reporting limit is unknown

ORO = TPH as oil-range organics

RI = remedial investigation

S&W = Shannon & Wilson, Inc.

Table 3a
Summary of RI and Performance Soil Analytical Results for VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Depth (feet)[3]	Sample Date	Sampled By	Analytical Results[1,2] (milligrams per kilogram)																	
					1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (Methyl ethyl ketone)	Acetone	Carbon Disulfide	cis-1,2-Dichloroethene	Isopropylbenzene	Methyl tertiary butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	Sec-Butylbenzene	Tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
RI Investigation																						
S-1V	S-1V[a]	Waste Oil Tank Excavation	06/29/1988	Blymyer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1	< 1	< 1	--
S-1F	S-1F[a]	Waste Oil Tank Excavation	06/29/1988	Blymyer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1	< 1	< 1	--
Product PipingTrench	CF-T1[b]	2.2 - 2.7	4/7/1998	Golder	--	--	--	--	--	--	--	--	<0.43	--	--	--	--	--	--	--	--	--	--
MW-2	MW2-2.0[b]	1.5 - 2.0	4/7/1998	Golder	--	--	--	--	--	--	--	--	<0.48	--	--	--	--	--	--	--	--	--	--
RW-1	RW1-7.0[b]	7.0 - 8.5	4/7/1998	Golder	--	--	--	--	--	--	--	--	<0.54	--	--	--	--	--	--	--	--	--	--
RW-2	RW2-4.0[b]	4.0 - 5.5	4/8/1998	Golder	--	--	--	--	--	--	--	--	<0.4	--	--	--	--	--	--	--	--	--	--
	RW2-7.0[b]	7.0 - 8.5	4/8/1998	Golder	--	--	--	--	--	--	--	--	<0.53	--	--	--	--	--	--	--	--	--	--
SP-1	SP1-(8-11')	8 - 11	1/11/2001	Golder	--	--	--	--	--	--	--	--	<0.23	--	--	--	--	--	--	--	--	--	--
SP-5	SP5-(5-8')	5 - 8	1/11/2001	Golder	--	--	--	--	--	--	--	--	<0.19	--	--	--	--	--	--	--	--	--	--
SP-6	SP6-(5-8')	5 - 8	1/11/2001	Golder	--	--	--	--	--	--	--	--	<0.27	--	--	--	--	--	--	--	--	--	--
SP-8	SP8-(5-8')	5 - 8	1/11/2001	Golder	--	--	--	--	--	--	--	--	<0.21	--	--	--	--	--	--	--	--	--	--
SP-9	SP9-(5-8')	5 - 8	1/11/2001	Golder	--	--	--	--	--	--	--	--	<0.22	--	--	--	--	--	--	--	--	--	--
SP-11	SP11-(5-8')	5 - 8	1/11/2001	Golder	--	--	--	--	--	--	--	--	<0.25	--	--	--	--	--	--	--	--	--	--
GP-1	GP-1 (6-8')	6 - 8	12/2/2003	Golder	--	<0.0014	<0.0014	<0.0071	<0.0071	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	GP-1 (10-12')	10 - 12	12/2/2003	Golder	--	<0.0014	<0.0014	0.0084	0.036	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-2	GP-2 (6-8')	6 - 8	12/2/2003	Golder	--	<0.0011	<0.0011	<0.0057	<0.0057	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-2 (10-12')	10 - 12	12/2/2003	Golder	--	<0.0014	<0.0014	<0.0070	0.094	0.0026	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-3	GP-3 (6-8')	6 - 8	12/2/2003	Golder	--	<0.0011	<0.0011	<0.0053	<0.0053	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-3 (10-12')	10 - 12	12/2/2003	Golder	--	<0.0014	<0.0014	0.034	0.15	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-4	GP-4 (2-4')	2 - 4	12/2/2003	Golder	--	<0.0011	<0.0011	<0.0054	<0.0054	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-44 (2-4')	2 - 4 (duplicate)	12/2/2003	Golder	--	<0.0011	<0.0011	<0.0054	<0.0054	<0.0011	<0.0011	<0.0011	<0.0011	0.0013	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-4 (6-8')	6 - 8	12/2/2003	Golder	--	<0.0011	<0.0011	<0.0055	<0.0055	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-4 (10-12')	10 - 12	12/2/2003	Golder	--	<0.0014	<0.0014	0.017	0.090	0.0027	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-5	GP-5 (6-8')	6 - 8	12/2/2003	Golder	--	<0.0011	<0.0011	<0.0055	<0.0055	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-5 (10-12')	10 - 12	12/2/2003	Golder	--	<0.0014	<0.0014	0.048	0.23	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-6	GP-6 (0-2.5')	0 - 2.5	12/2/2003	Golder	--	0.0012	<0.0011	<0.0053	<0.0053	<0.0011	<0.0011	<0.0011	<0.0011	0.0015	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0052	<0.0011	<0.0011	<0.0011
GP-7	GP-7 (6-8')	6 - 8	12/2/2003	Golder	--	<0.0013	<0.0013	<0.0067	0.012	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	GP-7 (10-12')	10 - 12	12/2/2003	Golder	--	<0.0014	<0.0014	0.015	0.076	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-8	GP-8 (6-8')	6 - 8	12/2/2003	Golder	--	<0.0014	<0.0014	<0.0072	<0.0072	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.0096	<0.0014	<0.0014	<0.0014
	GP-8 (10-12')	10 - 12	12/2/2003	Golder	--	<0.0013	<0.0013	0.011	0.040	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
F-5	F5-6.7-081314	6.7	08/13/2014	Farallon	< 0.0011	0.027	< 0.0011	0.026	0.077	0.0021	< 0.0011	0.016	< 0.0011	0.12	0.19	0.049	0.052	0.062	0.0020	< 0.0011	< 0.0011	< 0.0011	< 0.0011
F-8	F8-5.0-081314	5	08/13/2014	Farallon	< 0.0011	0.026	0.0082	0.0096	0.029	< 0.0011	< 0.0011	0.011	< 0.0011	0.017	0.032	0.013	0.0066	0.042	0.0017	< 0.0011	< 0.0011	< 0.0011	< 0.0011
2017 Test Pit Investigation																							
TP-4	TP4-7.0-022217	7	2/22/2017	Farallon	<0.091	<0.091	<0.091	0.071	0.32	0.008	<0.0014	0.034	<0.0014	<0.091	0.22	0.17	<0.091	<0.091	<0.091	<0.0014	<0.0014	<0.0014	<0.0014
	TP4-11.0-022217	11	2/22/2017	Farallon	<0.0012	<0.0012	<0.0012	0.022	0.12	<0.0015	<0.0012	0.076	<0.0012	<0.0012	0.095	0.16	0.0023	0.11	0.0028	<0.0012	<0.0012	<0.0012	<0.0012
TP-5	TP5-7.0-022117	7	2/21/2017	Farallon	<0.069	<0.069	<0.069	0.0051	0.05	<0.0010	<0.0010	<0.0010	<0.0010	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	0.012	<0.0010	<0.0010	<0.0010
	TP5-11.0-022117	11	2/21/2017	Farallon	0.28	<0.065	<0.065	<0.32	<0.32	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065
TP-8	TP8-7.0-022117	7	2/21/2017	Farallon	<0.0011	<0.0011	<0.0011	0.031	0.18	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	TP8-11.0-022117	11	2/21/2017	Farallon	<0.0011	<0.0011	<0.0011	0.02	0.12	0.003	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
TP-9	TP9-7.0-022117	7	2/21/2017	Farallon	<0.0012	<0.0012	<0.0012	0.07	0.4	0.0018	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	TP9-11.0-022117	11	2/21/2017	Farallon	<0.0018	<0.0018	<0.0018	0.075	0.4	0.0025	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
TP-10	TP10-7.0-022117	7	2/21/2017	Farallon	<0.0010	<0.0010	<0.0010	<0.0052	0.008	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	TP10-11.0-022117	11	2/21/2017	Farallon	<0.0015	<0.0015	<0.0015	0.038	0.22	0.0047	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
TP-11	TP11-7.0-030817	7	3/8/2017	Farallon	<0.0012	---	---	---	---	---	<0.0012	---	---	---	---	---	---	---	---	<0.0012	<0.0012	<0.0012	<0.0012
	TP11-11.0-030817	11	3/8/2017	Farallon	<0.0013	---	---	---	---	---	<0.0013	---	---	---	---	---	---	---	---	<0.0013	<0.0013	<0.0013	<0.0013
MTCA Method A Cleanup Levels[4]					**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.1**	**5**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.05**	**NE**	**0.03**	**NE**
MTCA Method B Cleanup Levels (Direct Contact and Ingestion Pathway)[5]					**NE**	**NE**	**800**	**48,000**	**72,000**	**8,000**	**720**	**8,000**	**556**	**1,600**	**4,000**	**8,000**	**NE**	**8,000**	**8,000**	**476**	**1,600**	**12**	**0.67**
MTCA Method B Cleanup Levels (Protection of Groundwater, Vadose/Saturated Zones)[5]					**NE**	**NE**	**NE**	**NE**	**28.9/2.07**	**NE**	**NE**	**NE**	**0.103/0.00723**	**5**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.0499/0.00276**	**0.543/0.0325**	**0.0252/0.00152**	**0.00167/0.0000885**

Table 3a
Summary of RI and Performance Soil Analytical Results for VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Depth (feet)[3]	Sample Date	Sampled By	Analytical Results[1,2] (milligrams per kilogram)																	
					1,2,3-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (Methyl ethyl ketone)	Acetone	Carbon Disulfide	cis-1,2-Dichloroethene	Isopropylbenzene	Methyl tertiary butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	Sec-Butylbenzene	Tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
TP-12	TP12-7.0-030817	7	3/8/2017	Farallon	<0.0014	---	---	---	---	---	<0.0014	---	---	---	---	---	---	---	---	<0.0014	<0.0014	<0.0014	<0.0014
	TP12-11.0-030817	11	3/8/2017	Farallon	<0.0015	---	---	---	---	---	<0.0015	---	---	---	---	---	---	---	---	<0.0015	<0.0015	<0.0015	<0.0015
TP-13	TP13-7.0-030817	7	3/8/2017	Farallon	<0.0014	---	---	---	---	---	<0.0014	---	---	---	---	---	---	---	---	<0.0014	<0.0014	<0.0014	<0.0014
	TP13-11.0-030817	11	3/8/2017	Farallon	<0.0014	---	---	---	---	---	<0.0014	---	---	---	---	---	---	---	---	<0.0014	<0.0014	<0.0014	<0.0014
MTCA Method A Cleanup Levels[3]					**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.1**	**5**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.05**	**NE**	**0.03**	**NE**
MTCA Method B Cleanup Levels (Direct Contact and Ingestion Pathway)[4]					**NE**	**NE**	**800**	**48,000**	**72,000**	**8,000**	**720**	**8,000**	**556**	**1,600**	**4,000**	**8,000**	**NE**	**8,000**	**8,000**	**476**	**1,600**	**12**	**0.67**
MTCA Method B Cleanup Levels (Protection of Groundwater, Vadose/Saturated Zones)[4]					**NE**	**NE**	**NE**	**NE**	**28.9/2.07**	**NE**	**NE**	**NE**	**0.103/0.00723**	**5**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.0499/0.00276**	**0.543/0.0325**	**0.0252/0.00152**	**0.00167/0.0000885**

NOTES:
Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Action Cleanup Regulation (MTCA) Method A or B cleanup levels.
< denotes analyte not detected at or exceeding the reporting limit listed.
--- denotes sample not analyzed.
[1]Only select analytes and analytes with detections exceeding the laboratory reporting limit are shown.
[2]Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260C, unless otherwise noted.
[3]Depth in feet below ground surface.
[4]MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses,Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.
[5]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Soil from
CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx
[a]Analyzed by EPA Method 601.
[b]Analyzed by EPA Method 8020.

Blymeyer = Blymyer Engineers, Inc.
Farallon = Farallon Consulting, L.L.C.
Golder = Golder Associates Inc.
NE = cleanup level not established
RI = remedial investigation
VOCs = volatile organic compounds

Table 3b
Summary of RI and Performance Soil Analytical Results for Other VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Depth (feet)[2]	Sample Date	Sampled By	Analytical Results[1] (milligrams per kilogram)															
					Methylene Chloride	1,1-Dichloroethene	1,2-Dichloroethane	Chloroform	Freon	1,1,1-Trichloroethane	Bromodichloromethane	Carbon Tetrachloride	1,2-Dichloropropane	trans-1,3-dichloropropene	cis-1,3-Dichloropropene	1,1,2-Trichloroethane	Chlorodibromomethane	Bromoform	1,1,2,2-Tetrachloroethane	Chlorobenzene
RI Investigation																				
S-1V	S-1V[a]	Waste Oil Tank Excavation	06/29/1988	Blymyer	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
S-1F	S-1F[a]	Waste Oil Tank Excavation	06/29/1988	Blymyer	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-1	GP-1 (6-8')	6 - 8	12/2/2003	Golder	<0.0071	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	GP-1 (10-12')	10 - 12	12/2/2003	Golder	<0.0068	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-2	GP-2 (6-8')	6 - 8	12/2/2003	Golder	<0.0057	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-2 (10-12')	10 - 12	12/2/2003	Golder	<0.0070	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-3	GP-3 (6-8')	6 - 8	12/2/2003	Golder	<0.0053	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-3 (10-12')	10 - 12	12/2/2003	Golder	<0.0070	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-4	GP-4 (2-4')	2 - 4	12/2/2003	Golder	<0.0054	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-44 (2-4')	2 - 4 (duplicate)	12/2/2003	Golder	<0.0054	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-4 (6-8')	6 - 8	12/2/2003	Golder	<0.0055	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-4 (10-12')	10 - 12	12/2/2003	Golder	<0.0070	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-5	GP-5 (6-8')	6 - 8	12/2/2003	Golder	<0.0055	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	GP-5 (10-12')	10 - 12	12/2/2003	Golder	<0.0071	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-6	GP-6 (0-2.5')	0 - 2.5	12/2/2003	Golder	<0.0053	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
GP-7	GP-7 (6-8')	6 - 8	12/2/2003	Golder	<0.0067	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	GP-7 (10-12')	10 - 12	12/2/2003	Golder	<0.0070	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
GP-8	GP-8 (6-8')	6 - 8	12/2/2003	Golder	<0.0072	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	GP-8 (10-12')	10 - 12	12/2/2003	Golder	<0.0066	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
2017 Test Pit Investigation																				
TP-4	TP4-7.0-022217	7	42788.34028	Farallon	<0.0072	<0.0014	<0.0014	<0.0014	---	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.091	<0.0014
	TP4-11.0-022217	11	42788.35764	Farallon	<0.0059	<0.0012	<0.0012	<0.0012	---	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
TP-5	TP5-7.0-022117	7	42787.60069	Farallon	<0.0050	<0.0010	<0.0010	<0.0010	---	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.069	<0.0010
	TP5-11.0-022117	11	42787.61111	Farallon	<0.32	<0.065	<0.065	<0.065	---	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065
TP-8	TP8-7.0-022117	7	42787.51042	Farallon	<0.0056	<0.0011	<0.0011	<0.0011	---	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	TP8-11.0-022117	11	42787.52431	Farallon	<0.0055	<0.0011	<0.0011	<0.0011	---	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
TP-9	TP9-7.0-022117	7	42787.46875	Farallon	<0.0058	<0.0012	<0.0012	<0.0012	---	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	TP9-11.0-022117	11	42787.47917	Farallon	<0.0092	<0.0018	<0.0018	<0.0018	---	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
TP-10	TP10-7.0-022117	7	42787.54514	Farallon	<0.0052	<0.0010	<0.0010	<0.0010	---	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	TP10-11.0-022117	11	42787.55903	Farallon	<0.0073	<0.0015	<0.0015	<0.0015	---	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
TP-11	TP11-7.0-030817	7	42802.36806	Farallon	<0.0062	<0.0012	<0.0012	<0.0012	---	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	TP11-11.0-030817	11	42802.38194	Farallon	<0.0066	<0.0013	<0.0013	<0.0013	---	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
TP-12	TP12-7.0-030817	7	42802.43403	Farallon	<0.0068	<0.0014	<0.0014	<0.0014	---	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	TP12-11.0-030817	11	42802.45139	Farallon	<0.0074	<0.0015	<0.0015	<0.0015	---	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
TP-13	TP13-7.0-030817	7	42802.47917	Farallon	<0.0068	<0.0014	<0.0014	<0.0014	---	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	TP13-11.0-030817	11	42802.49653	Farallon	<0.0070	<0.0014	<0.0014	<0.0014	---	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
MTCA Method A Cleanup Levels[3]					**0.02**	**NE**	**NE**	**NE**	**NE**	**2**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
MTCA Method B Cleanup Levels (Direct Contact and Ingestion Pathway)[4]					**500**	**4,000**	**11**	**32.3**	**NE**	**160,000**	**16.1**	**14.3**	**27.8**	**NE**	**NE**	**17.5**	**11.9**	**127**	**5**	**1,600**
MTCA Method B Cleanup Levels (Protection of Groundwater, Vadose/Saturated Zones)[4]					**0.0215/0.00148**	**0.0457/0.00246**	**0.0231/0.00156**	**0.0736/0.00479**	**NE**	**1.49/0.0843**	**0.0392/0.0026**	**0.0416/0.00219**	**0.0253/0.00167**	**NE**	**NE**	**0.0277/0.00181**	**0.0276/0.00182**	**0.362/0.0229**	**0.00122/0.00008**	**0.862/0.0511**

NOTES:

Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Action Cleanup Regulation (MTCA) Method A or B cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

--- denotes sample not analyzed.

[a]Analyzed by U.S. Environmental Protection Agency (EPA) Method 601.

[1]Analyzed by EPA Method 8260B, unless otherwise noted.

[2]Depth in feet below ground surface, if known.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[4]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

Blymyer = Blymyer Engineers, Inc.

Farallon = Farallon Consulting, L.L.C.

Golder = Golder Associates Inc.

NE = cleanup level not established

RI = remedial investigation

VOCs = volatile organic compounds

Table 4
Summary of RI Soil Analytical Results for PCBs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results[2] (milligrams per kilogram)						
					Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
RI Investigation											
F-5	F5-6.7-081314	6.7	08/13/2014	Farallon	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069
F-8	F8-5.0-081314	5.0	08/13/2014	Farallon	<0.064	<0.064	<0.064	<0.064	<0.064	<0.064	<0.064
F-13	F13-6.7-092214	6.7	09/22/2014	Farallon	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
F-18	F18-8.0-092214	8.0	09/22/2014	Farallon	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method 8082A.

Farallon = Farallon Consulting, L.L.C.

PCBs = polychlorinated biphenyl compounds

RI = remedial investigation

Table 5
Summary of RI and Performance Soil Analytical Results for PAHs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Depth (feet)[3]	Sample Date	Sampled By	Analytical Results[1,2] (milligrams per kilogram)																			
					Polycyclic Aromatic Hydrocarbons (PAHs)											Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)							
					Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Naphthalenes[4]	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Total cPAHs TTEC
RI Investigation																								
Product Piping Trench	CF-T1	2.2 - 2.7	4/7/1998	Golder	<0.015	---	<0.013	<0.028	0.21	<0.014	<0.012	<0.0092	0.21	0.21	<0.01	0.68	0.052	0.097	<0.0077	<0.012	<0.0061	<0.012	<0.0083	0.01122
MW-2	MW2-2.0	1.5 - 2.0	4/7/1998	Golder	0.049	---	0.14	0.189	0.071	<0.015	0.12	0.033	0.18	0.15	0.22	0.19	0.06	0.17	0.063	0.047	0.049	<0.012	<0.0088	0.06874
RW-1	RW1-7.0	7.0 - 8.5	4/7/1998	Golder	6.2	---	34	**40.2**	1.8	<0.017	2.2	<0.011	<0.011	2.5	7	0.62	0.094	<0.0098	<0.0094	<0.015	<0.0074	<0.014	<0.01	0.015569
RW-2	RW2-4.0	4.0 - 5.5	4/8/1998	Golder	8.1	---	16	**24.1**	1.1	<0.014	<0.012	<0.011	<0.0085	1.9	4.9	0.7	<0.0065	<0.0079	<0.0076	<0.012	<0.006	<0.012	<0.0082	0.0053545
	RW2-7.0	7.0 - 8.5	4/8/1998	Golder	6.5	---	11	**17.5**	0.93	<0.017	<0.015	<0.011	<0.011	2	3.6	0.63	<0.008	<0.0098	<0.0094	<0.015	<0.0074	<0.014	<0.01	0.006569
SP-1	SP1-(8-11')	8 - 11	1/11/2001	Golder	0.23	---	6.5	**6.73**	0.41	0.51	<0.022	<0.022	<0.022	0.87	1.3	0.07	<0.022	0.037	<0.022	<0.022	<0.022	<0.022	<0.022	0.00697
SP-5	SP5-(5-8')	5 - 8	1/11/2001	Golder	3.7	---	3.7	**7.4**	0.69	0.48	<0.018	<0.018	<0.018	1.3	2.6	0.78	0.11	0.097	<0.018	<0.018	<0.018	<0.018	<0.018	0.02457
SP-6	SP6-(5-8')	5 - 8	1/11/2001	Golder	1.7	---	4.1	**5.8**	0.26	<0.027	<0.027	<0.027	<0.027	0.55	0.92	0.16	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	0.020385
SP-8	SP8-(5-8')	5 - 8	1/11/2001	Golder	19	**---**	50	**69**	5.7	1.3	<0.1	<0.1	<0.1	6	10	2.3	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	0.0772
SP-9	SP9-(5-8')	5 - 8	1/11/2001	Golder	7.4	**---**	23	**30.4**	3.8	<0.1	<0.1	<0.1	<0.1	4.1	4.7	0.94	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.0755
SP-11	SP11-(5-8')	5 - 8	1/11/2001	Golder	0.97	---	3	3.97	<0.023	0.29	<0.023	<0.023	0.054	0.39	0.67	0.035	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.017365
2017 Test Pit Investigation																								
TP-4	TP4-7.0-022217	7	2/22/2017	Farallon	0.23	0.66	0.95	1.84	---	---	---	---	---	---	---	---	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	0.0067
	TP4-11.0-022217	11	2/22/2017	Farallon	0.037	0.14	0.064	0.241	---	---	---	---	---	---	---	---	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0068
TP-5	TP5-7.0-022117	7	2/21/2017	Farallon	<0.0088	<0.0088	<0.0088	<0.0264	---	---	---	---	---	---	---	---	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	0.0066
	TP5-11.0-022117	11	2/21/2017	Farallon	<0.0085	<0.031	<0.030	<0.0695	---	---	---	---	---	---	---	---	0.012	0.012	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	0.0073
MTCA Method A Cleanup Levels[5]								**5**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**								**0.1**
MTCA Method B Cleanup Levels (Direct Contact and Leaching Pathway)[6]					**1,600**	**34.5**	**320**	**NE**	**4,800**	**NE**	**24,000**	**NE**	**3,200**	**3,200**	**NE**	**2,400**								**0.137**
TCA Method B Cleanup Levels (Protection of Groundwater, Vadose/Saturated Zones)[6]					**4.45/0.236**	**NE**	**NE**	**NE**	**97.9/4.98**	**NE**	**2,270/114**	**NE**	**631/31.6**	**101/5.12**	**NE**	**655/32.8**								**2.33/0.116**

NOTES:

Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Action Cleanup Regulation (MTCA) Method A or B cleanup levels.
< denotes analyte not detected at or exceeding the reporting limit listed.
--- denotes sample not analyzed.

[1]Only select analytes and analytes with detections exceeding the laboratory reporting limit are shown.
[2]Analyzed by U.S. Environmental Protection Agency Method 8270 unless otherwise noted.
[3]Depth in feet below ground surface.
[4]Sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.
[5]MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses,
Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.
[6]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Soil from
CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

Farallon = Farallon Consulting, L.L.C.
Golder = Golder Associates Inc.
NE = cleanup level not established
RI = remedial investigation
TTEC = total toxicity equivalent concentration

Table 6
Summary of RI and Performance Soil Analytical Results for Metals
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Depth (feet bgs)[1]	Sampled By	Analytical Results (milligrams per kilogram)[2]								
					Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver
RI Investigation													
S-1V	S-1V	06/29/1988	Waste Oil Tank Excavation	Blymyer	<0.1	<2	<0.1	9.1	---	14.2	<0.05	<0.1	<0.1
S-1F	S-1F	06/29/1988	Waste Oil Tank Excavation	Blymyer	<0.1	<2	<0.1	7.2	---	9.9	<0.05	<0.1	<0.1
S-2F	S-2F	06/29/1988	Waste Oil Tank Excavation	Blymyer	<0.1	<2	<0.1	9.9	---	11.0	<0.05	<0.1	<0.1
S-2V	S-2V	06/29/1988	Waste Oil Tank Excavation	Blymyer	<0.1	<2	<0.1	11.3	---	8.6	<0.05	<0.1	<0.1
2017 Test Pit Investigation													
TP-4	TP4-7.0-022217	2/22/2017	7	Farallon	<13	---	<0.67	18	22	< 6.7	<0.33	---	---
	TP4-11.0-022217	2/22/2017	11	Farallon	<13	---	<0.67	16	17	< 6.7	<0.34	---	---
TP-5	TP5-7.0-022117	2/21/2017	7	Farallon	<13	---	<0.66	7.0	6.3	< 6.6	<0.33	---	---
	TP5-11.0-022117	2/21/2017	11	Farallon	<13	---	<0.63	7.9	7.2	< 6.3	<0.32	---	---
MTCA Method A Soil Cleanup Levels, Unrestricted Land Use[3]					**20**	**NE**	**2**	**2,000**	**NE**	**250**	**2**	**NE**	**NE**
MTCA Method B Cleanup Levels (Direct Contact and Leaching Pathway)[4]					**0.0667**	**16,000**	**80**	**120,000**	**3,200**	**NE**	**NE**	**400**	**400**
MTCA Method B Cleanup Levels (Protection of Groundwater, Vadose/Saturated Zones)[4]					**2.92/0.146**	**1,650/82.6**	**0.69/0.0349**	**480,000/24,000**	**284/14.3**	**3,000/150**	**2.09/0.105**	**5.2/0.264**	**13.6/0.687**

NOTES:

Results in **bold** denote concentrations exceed regulatory screening level.

< denotes analyte not detected at or exceeding the reporting limit listed.

--- denotes sample not analyzed.

[1]Depth in feet below ground surface (bgs) or general location, if unknown.

[2]Analysis method unknown.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[4]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

Blymyer = Blymyer Engineers, Inc.

Farallon = Farallon Consulting, L.L.C.

NE = cleanup level not established

RI = remedial investigation

Table 7
Summary of RI Soil Analytical Results for Volatile and Extractable Petroleum Hydrocarbons
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sample Depth (feet)[2]	Sampled By	Analytical Results (milligrams per kilogram)[1]												
					Volatile Petroleum Hydrocarbons (VPH)				Extractable Petroleum Hydrocarbons (EPH)								
					Aliphatic Fractions			Aromatic Fraction	Aliphatic Fractions					Aromatic Fractions			
					EC 5-6	EC >6-8	EC >8-10	EC >8-10	C8-C10	C10-C12	C12-C16	C16-C21	C21-C34	C10-C12	C12-C16	C16-C21	C21-C34
Product Piping Trench	CF-T1	4/7/1998	2.2 - 2.7	Golder	<1.3	<1.7	3.2	7.4	10	130	1,000	1,100	110	25	270	630	48
MW-2	MW2-2.0	4/7/1998	1.5 - 2.0	Golder	<1.4	<1.9	<2.9	<2.4	6	32	270	310	410	2.7	22	120	120
RW-1	RW1-7.0	4/7/1998	7.0 - 8.5	Golder	<1.6	<2.2	20	16	180	1,200	5,600	4,200	750	110	980	2,200	350
RW-2	RW2-4.0	4/8/1998	4.0 - 5.5	Golder	<1.2	34	<48	630	330	840	2,400	2,100	250	250	920	1,200	100
	RW2-7.0	4/8/1998	7.0 - 8.5	Golder	<1.6	61	<64	490	280	670	1,900	1,700	240	180	680	1,000	88
SP-1	SP1-(8-11')	1/11/2001	8 - 11	Golder	<0.7	1.6	17	15	76	380	940	320	37	46	250	200	22
SP-5	SP5-(5-8')	1/11/2001	5 - 8	Golder	<0.58	5.2	98	98	200	660	2,000	1,700	300	180	710	750	120
SP-6	SP6-(5-8')	1/11/2001	5 - 8	Golder	<0.82	3.9	18	19	<6.6	30	98	87	27	10	38	48	20
SP-8	SP8-(5-8')	1/11/2001	5 - 8	Golder	0.86	44	310	350	830	2,400	8,700	6,500	730	110	530	870	100
SP-9	SP9-(5-8')	1/11/2001	5 - 8	Golder	0.83	12	190	190	220	670	3,200	2,700	210	260	970	1,100	96
SP-11	SP11-(5-8')	1/11/2001	5 - 8	Golder	<0.75	<0.5	3.8	4.4	<5.9	30	170	130	40	<5.9	18	35	10

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

[1] Samples collected in 1998 analyzed by Washington TPH Interim Policy Method VPH/EPH. Samples collected in 2001 analyzed by Washington State Department of Ecology Method for Determination of VPH/EPH Modified.

[2]Depth in feet below ground surface.

Golder = Golder Associates, Inc.

RI = remedial investigation

Table 8
Summary of RI Groundwater Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1] (micrograms per liter)								
				DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	m,p-Xylene	o-Xylene
Diesel Tank Excavation	W-1	04/1988	Blymyer	**2,538,000** [a]	---	---	---	---	---	---	---	---
Gas Tank Excavation	W-2	04/1988	Blymyer	---	---	**158,000** [a]	**13** [b]	9 [b]	317 [b]	**2,054** [b]	1,790 [b]	264 [b]
Oil Tank Excavation	W-1	6/29/1988	Blymyer	**2,862,000** [a]	**3,812,000** [c]	---	---	---	---	---	---	---
MW-1_88	MW-1	07/12/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-1	10/6/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-1	2/8/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW-1	5/2/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW1	8/3/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW1	11/1/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
MW-2A_88	MW-2A	06/29/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-2A	10/6/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-2A	2/8/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW-2A	5/2/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW2A	8/3/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW2A	11/1/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
MW-3_88	MW-3	06/29/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-3	10/6/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-3	2/8/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW-3	5/2/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW3	8/3/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW3	11/1/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
MW-4_88	MW-4	06/29/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-4	10/6/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-4	2/8/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW-4	5/2/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW4	8/3/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW4	11/1/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
MW-5_88	MW-5	06/29/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-5	10/6/1988	Blymyer	< 1,000 [a]	---	---	---	---	---	---	---	---
	MW-5	2/8/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW-5	5/2/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW5	8/3/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
	MW5	11/1/1989	Blymyer	< 10,000 [a]	---	---	---	---	---	---	---	---
P-1	1764-P1-W	8/8/1997	S&W	< 200 [d]	---	---	---	---	---	---	---	---
P-2	1764-P2-W	8/8/1997	S&W	**2,200,000** [d]	---	---	---	---	---	---	---	---
P-3	1764-P3-W	8/8/1997	S&W	< 200 [d]	---	---	---	---	---	---	---	---
P-4	1764-P4-W	8/8/1997	S&W	**1,700** [d]	---	---	---	---	---	---	---	---
MTCA Method A Cleanup Levels[4]				**500**	**500**	**1,000**	**5**	**1,000**	**700**	**1,000**	**NE**	**NE**

Table 8
Summary of RI Groundwater Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1] (micrograms per liter)								
				DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	m,p-Xylene	o-Xylene
P-5	1764-P5-W	8/8/1997	S&W	< 200 [d]	---	---	---	---	---	---	---	---
P-6	1764-P6-W	8/8/1997	S&W	< 200 [d]	---	---	---	---	---	---	---	---
P-7	1764-P7-W	8/8/1997	S&W	400 [d]	---	---	---	---	---	---	---	---
P-8	1764-P8-W	8/8/1997	S&W	< 200 [d]	---	---	---	---	---	---	---	---
P-9	1764-P9-W	8/8/1997	S&W	< 200 [d]	---	---	---	---	---	---	---	---
P-10	1764-P10-W	8/8/1997	S&W	< 100 [d]	---	---	---	---	---	---	---	---
MW-1	MW-1	4/8/1998	Golder	< 240 [d]	<470 [d]	---	< 1 [b]	< 1 [b]	< 1 [b]	---	< 2 [b]	<1 [b]
	MW-1D	4/8/1998	Golder	---	---	---	< 1 [b]	< 1 [b]	< 1 [b]	---	< 2 [b]	<1 [b]
	MW-1	8/17/1999	Golder	160	250	---	< 1 [e]	< 1 [e]	< 1 [e]	< 2 [e]	---	---
	MW-1	1/17/2001	Golder	110	290	---	<0.4 [f]	<0.4 [f]	<0.4 [f]	<1.2 [f]	<0.8 [f]	<0.4 [f]
	MW-1	6/7/2001	Golder	120	360	---	ND	---	---	---	---	---
	MW-1	12/3/2003	Golder	<250	<400	<100	<1.0	<1.0	<1.0	<1.0	---	---
MW-2	MW-2	4/8/1998	Golder	**2,200** [d]	**660** [d]	---	< 1 [b]	< 1 [b]	< 1 [b]	---	< 2 [b]	<1 [b]
	MW-2	8/17/1999	Golder	**1,900**	**580**	---	< 1 [e]	< 1 [e]	< 1 [e]	< 2 [e]	---	---
	MW-2	1/17/2001	Golder	**1,500**	**640**	---	<0.4 [f]	<0.4 [f]	<0.4 [f]	0.069 [f]	<0.8 [f]	0.069 [f]
	MW-2	6/7/2001	Golder	**1,100**	**670**	---	ND	---	---	---	---	---
	MW-2	12/3/2003	Golder	<250	<400	<100	<1.0	<1.0	<1.0	<1.0	---	---
	MW-2-081214	08/12/2014	Farallon	**2,700**	< 490	280	< 0.20	< 1.0	< 0.20	< 0.60	---	---
MW-3	MW-3	4/8/1998	Golder	**1,000** [d]	**1,100** [d]	---	< 1 [b]	< 1 [b]	< 1 [b]	---	< 2 [b]	<1 [b]
	MW-3	8/17/1999	Golder	**1,500**	**1,800**	---	< 1 [e]	< 1 [e]	< 1 [e]	< 2 [e]	---	---
	MW-3	1/17/2001	Golder	**1,800**	**1,800**	---	0.24 [f]	<0.4 [f]	<0.4 [f]	0.048 [f]	<0.8 [f]	0.048 [f]
	MW-3	6/7/2001	Golder	**1,400**	**1,600**	---	0.2	---	---	---	---	---
	MW-3	12/3/2003	Golder	<250	<400	<100	<1.0	<1.0	<1.0	<1.0	---	---
	MW-3-081214	08/12/2014	Farallon	**510**	**620**	< 100	< 0.20	< 1.0	< 0.20	< 0.60	---	---
RW-1	RW-1	4/8/1998	Golder	**1,400** [d]	<470 [d]	---	< 1 [b]	< 1 [b]	< 1 [b]	---	< 2 [b]	<1 [b]
RW-2	RW-2	4/8/1998	Golder	**5,400** [d]	**680** [d]	---	**210** [b]	13 [b]	100 [b]	---	220 [b]	88 [b]
	RW-2	8/17/1999	Golder	**1,500**	450	---	**83** [e]	< 1 [e]	20 [e]	45 [e]	---	---
	RW-2	12/3/2003	Golder	<250	<400	450	**5.31**	<1.0	<1.0	<1.0	---	---
	RW-2-081214	08/12/2014	Farallon	**3,700**	< 640	800	< 0.20	< 1.0	< 0.20	< 0.60	---	---
Bottom of Diesel Tank Excavation	TP-1	7/27/1998	GTI	**138,000** [d]	---	---	---	---	---	---	---	---
GP-1	GP-1	8/18/1999	Golder	**1,200**	**690**	---	---	---	---	---	---	---
GP-2	GP-2	8/18/1999	Golder	400	280	---	---	---	---	---	---	---
GP-3	GP-3	8/18/1999	Golder	260	**590**	---	---	---	---	---	---	---
GP-4	GP-4	8/18/1999	Golder	**800**	490	---	---	---	---	---	---	---
GP-5	GP-5	8/18/1999	Golder	**980**	< 470	---	---	---	---	---	---	---
GP-6	GP-6	8/18/1999	Golder	**1,400**	**1,800**	---	---	---	---	---	---	---
GP-7	GP-7	8/18/1999	Golder	**720**	360	---	---	---	---	---	---	---
MTCA Method A Cleanup Levels[4]				**500**	**500**	**1,000**	**5**	**1,000**	**700**	**1,000**	**NE**	**NE**

Table 8
Summary of RI Groundwater Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1] (micrograms per liter)								
				DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	m,p-Xylene	o-Xylene
GP-8	GP-8	8/18/1999	Golder	260	300	---	---	---	---	---	---	---
GP-9	GP-9	8/18/1999	Golder	**1,200**	280	---	---	---	---	---	---	---
GP-10	GP-10	8/18/1999	Golder	**29,000**	**2,100**	---	---	---	---	---	---	---
GP-10	GP-14 (duplicate of GP-10)	8/18/1999	Golder	**34,000**	**2,500**	---	---	---	---	---	---	---
GP-11	GP-11	8/18/1999	Golder	**2,500**	**860**	---	---	---	---	---	---	---
GP-12	GP-12	8/18/1999	Golder	160	390	---	---	---	---	---	---	---
GP-13	GP-13	8/18/1999	Golder	**580**	330	---	---	---	---	---	---	---
MW-4	MW-4	1/17/2001	Golder	160	330	---	<0.4 [f]	<0.4 [f]	<0.4 [f]	<1.2 [f]	<0.8 [f]	<0.4 [f]
	MW-4	6/7/2001	Golder	140	330	---	ND	---	---	---	---	---
	MW-4	12/3/2003	Golder	<250	<400	<100	<1.0	<1.0	<1.0	<1.0	---	---
	MW-4-081214	08/12/2014	Farallon	<260	<410	<100	<0.20	<1.0	<0.20	<0.60	---	---
MW-5	MW-5	1/17/2001	Golder	330	360	---	<0.4 [f]	<0.4 [f]	<0.4 [f]	<1.2 [f]	<0.8 [f]	<0.4 [f]
	MW-5	6/7/2001	Golder	200	250	---	ND	---	---	---	---	---
	MW-5	12/3/2003	Golder	<250	<400	<100	<1.0	<1.0	<1.0	<1.0	---	---
	MW-5-092314	09/23/2014	Farallon	430	<410	---	---	---	---	---	---	---
MW-6	MW-6	1/17/2001	Golder	230	380	---	0.3 [f]	<0.4 [f]	<0.4 [f]	<1.2 [f]	<0.8 [f]	<0.4 [f]
	MW-6	6/7/2001	Golder	180	320	---	0.32	---	---	---	---	---
	MW-6	12/3/2003	Golder	<260	<410	<100	<1.0	<1.0	<1.0	<1.0	---	---
	MW-6-092314	09/23/2014	Farallon	<260	<420	---	---	---	---	---	---	---
GP-1A	GP-1	12/2/2003	Golder	<250	<400	<100	<1 [f]	<1 [f]	<1 [f]	<3 [f]	<2 [f]	<1 [f]
GP-2A	GP-2	12/2/2003	Golder	<260	<410	<100	<1 [f]	<1 [f]	<1 [f]	<3 [f]	<2 [f]	<1 [f]
GP-3A	GP-3	12/2/2003	Golder	<260	<420	<100	<1 [f]	<1 [f]	<1 [f]	<3 [f]	<2 [f]	<1 [f]
GP-4A	GP-4	12/2/2003	Golder	<260	<420	<100	<1 [f]	<1 [f]	<1 [f]	<3 [f]	<2 [f]	<1 [f]
GP-5A	GP-5	12/2/2003	Golder	<260	<410	<100	<1 [f]	<1 [f]	<1 [f]	<3 [f]	<2 [f]	<1 [f]
GP-7A	GP-7	12/2/2003	Golder	<280	<440	<100	<1 [f]	<1 [f]	<1 [f]	<3 [f]	<2 [f]	<1 [f]
GP-8A	GP-8	12/2/2003	Golder	<250	<400	<100	<1 [f]	<1 [f]	<1 [f]	<3 [f]	<2 [f]	<1 [f]
F-1	F1-GW-081314	08/13/2014	Farallon	340	< 420	< 100	< 0.20	< 1.0	< 0.20	< 0.60	---	---
F-2	F2-GW-081314	08/13/2014	Farallon	< 290	< 460	< 100	< 0.20	< 1.0	< 0.20	< 0.60	---	---
F-3	F3-GW-081314	08/13/2014	Farallon	< 260	< 420	< 100	< 0.20	3.9	< 0.20	< 0.60	---	---
F-4	F4-GW-081314	08/13/2014	Farallon	< 260	< 410	< 100	< 0.20	< 1.0	< 0.20	< 0.60	---	---
F-5	F5-GW-081314	08/13/2014	Farallon	340	< 460	< 100	< 0.20	< 1.0	< 0.20	< 0.60	---	---
F-6	F6-GW-081314	08/13/2014	Farallon	< 270	< 440	< 100	< 0.20	< 1.0	< 0.20	< 0.60	---	---
F-7	F7-GW-081314	08/13/2014	Farallon	< 260	< 410	< 100	< 0.20	< 1.0	< 0.20	< 0.60	---	---
MTCA Method A Cleanup Levels[4]				**500**	**500**	**1,000**	**5**	**1,000**	**700**	**1,000**		

Table 8
Summary of RI Groundwater Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1] (micrograms per liter)								
				DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	m,p-Xylene	o-Xylene
F-8	F8-GW-081314	08/13/2014	Farallon	**5,700**	< 790	790	< 0.20	< 1.0	0.30	< 0.60	---	---
F-10	F10-GW-092214	09/22/14	Farallon	<250	<400	<100	---	---	---	---	---	---
F-11	F11-GW-092214	09/22/14	Farallon	<260	<420	<100	---	---	---	---	---	---
MTCA Method A Cleanup Levels[4]				**500**	**500**	**1,000**	**5**	**1,000**	**700**	**1,000**	**NE**	**NE**

NOTES:

Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Action Cleanup Regulation (MTCA) Method A cleanup levels.
< denotes analyte not detected at or exceeding the reporting limit listed.
--- Denotes sample not analyzed.
[1]Analyzed by Northwest Method NWTPH-Dx, unless otherwise noted.
[2]Analyzed by Northwest Method NWTPH-Gx, unless otherwise noted.
[3]Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260C, unless otherwise noted.
[4]MTCA Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.
[a]Analyzed by EPA Method 8015.
[b]Analyzed by EPA Method 8020.
[c] Analyzed by EPA Method 418.1.
[d]Analyzed by Washington Total Petroleum Hydrocarbons as Diesel (WTPH-D) Method.
[e]Analyzed by EPA Method 8021B/5030B Modified.
[f]Analyzed by EPA Method 8260B.

BTEX = benzene, toluene, ethylbenzene, and xylenes
Blymer = Bymer Engineers, Inc.
Farallon = Farallon Consulting, L.L.C.
DRO = total petroleum hydrocarbons (TPH) as diesel-range organics
Golder = Golder Associates Inc.
GRO = TPH as gasoline-range organics
GTI = Fluor Daniel GTI, Inc.
ND = not detected and reporting limit is unknown
NE = cleanup level not established
ORO = TPH as oil-range organics
RI = remedial investigation
S&W = Shannon & Wilson, Inc.

Table 9a
Summary of RI Groundwater Analytical Results for VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1,2] (micrograms per liter)															
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	cis-1,2-Dichloroethene	Isopropylbenzene	Methyl tertiary butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	Sec-Butylbenzene	Tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
W-1	Waste Oil Tank Excavation[a]	6/29/1988	Blymyer	--		--	--	--	--	--	--	--	--	--	<1,000	<1,000	--	--
MW-1	MW-1	1/17/2001	Golder	<0.4	<0.4	<0.4	<0.4	--	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-1	6/7/2001	Golder	--	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
	MW-1	12/3/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-2	MW-2	1/17/2001	Golder	<0.4	<0.4	<0.4	<0.4	--	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.056
	MW-2	6/7/2001	Golder	--	ND	0.061	ND	--	--	--	--	--	--	--	--	--	--	ND
	MW-2	12/3/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
	MW-2-081214	08/12/2014	Farallon	< 0.20	< 0.20	< 0.20	0.42	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.28	0.30	< 0.20	< 0.20	< 0.20	**0.23**
MW-3	MW-3	1/17/2001	Golder	<0.4	0.064	0.085	0.064	--	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.084
	MW-3	6/7/2001	Golder	--	ND	0.11	ND	--	--	--	--	--	--	--	--	--	--	ND
	MW-3	12/3/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
	MW-3-081214	08/12/2014	Farallon	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-4	MW-4	1/17/2001	Golder	<0.4	<0.4	0.13	<0.4	--	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	**0.48**
	MW-4	6/7/2001	Golder	--	ND	0.15	ND	--	--	--	--	--	--	--	--	--	--	**0.24**
	MW-4	12/3/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
	MW-4-081214	08/12/2014	Farallon	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.30**
MW-5	MW-5	1/17/2001	Golder	<0.4	<0.4	<0.4	<0.4	--	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-5	6/7/2001	Golder	--	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
	MW-5	12/3/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-6	MW-6	1/17/2001	Golder	<0.4	<0.4	<0.4	<0.4	--	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	**0.38**
	MW-6	6/7/2001	Golder	--	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	**0.4**
	MW-6	12/3/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
RW-2	RW-2	12/3/2003	Golder	0.589	<1	<1	5.26	--	<2	<1	5.5	<1	3.29	<1	<1	<1	<1	<1
	RW-2-081214	08/12/2014	Farallon	< 0.20	< 0.20	0.21	13	< 0.20	< 1.0	6.6	19	< 0.20	7.6	0.26	< 0.20	< 0.20	< 0.20	< 0.20
GP-1A	GP-1	12/2/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-2A	GP-2	12/2/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-3A	GP-3	12/2/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-4A	GP-4	12/2/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-5A	GP-5	12/2/2003	Golder	<1	<1	<1	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-7A	GP-7	12/2/2003	Golder	<1	<1	10.2	<1	--	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-8A	GP-8	12/2/2003	Golder	<1	<1	1.69	<1	--	<2	<1	<1	<1	<1	<1	0.554	<1	<1	<1
F1	F1-GW-081314	08/13/2014	Farallon	< 0.20	< 0.20	0.21	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
F2	F2-GW-081314	08/13/2014	Farallon	< 0.20	< 0.20	0.80	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
F3	F3-GW-081314	08/13/2014	Farallon	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	0.74	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
F4	F4-GW-081314	08/13/2014	Farallon	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
F5	F5-GW-081314	08/13/2014	Farallon	< 0.20	< 0.20	< 0.20	< 0.20	0.66	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
F6	F6-GW-081314	08/13/2014	Farallon	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MTCA Method A Cleanup Levels[2]				**NE**	**NE**	**NE**	**NE**	**20**	**160**	**NE**	**NE**	**NE**	**NE**	**NE**	**5**	**NE**	**5**	**0.2**
MTCA Method B Cleanup Levels[3]				**NE**	**80**	**16**	**800**	**24.3**	**160**	**400**	**800**	**NE**	**800**	**800**	**20.8**	**160**	**0.54**	**24**

Table 9a
Summary of RI Groundwater Analytical Results for VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1,2] (micrograms per liter)														
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	cis-1,2-Dichloroethene	Isopropylbenzene	Methyl tertiary butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	Sec-Butylbenzene	Tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
F7	F7-GW-081314	08/13/2014	Farallon	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
F8	F8-GW-081314	08/13/2014	Farallon	0.80	< 0.20	< 0.20	15	< 0.20	2.8	4.6	19	0.23	6.8	0.29	< 0.20	< 0.20	< 0.20	< 0.20
MTCA Method A Cleanup Levels[3]				**NE**	**NE**	**NE**	**NE**	**20**	**160**	**NE**	**NE**	**NE**	**NE**	**NE**	**5**	**NE**	**5**	**0.2**
MTCA Method B Cleanup Levels[4]				**NE**	**80**	**16**	**800**	**24.3**	**160**	**400**	**800**	**NE**	**800**	**800**	**20.8**	**160**	**0.54**	**24**

NOTES:

Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Action Cleanup Regulation (MTCA) Method A or B cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Only select analytes and analytes with detections exceeding the laboratory reporting limit are shown.

[2]Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260 B or 8260C, unless otherwise noted.

[3]MTCA Method A Groundwater Cleanup Levels,Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[4]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

[a]Analyzed by EPA Method 601.

Blymyer = Blymyer Engineers, Inc.

Farallon = Farallon Consulting, L.L.C.

Golder = Golder Associates Inc.

ND = not detected and reporting limit is unknown

NE = cleanup level not established

RI = remedial investigation

VOCs = volatile organic compounds

Table 9b
Summary of RI Groundwater Analytical Results for Other VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1,2] (micrograms per liter)																		
				Methylene Chloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	trans-1,2-Dichloroethene	Chloroform	Chloromethane	Freon	1,1,1-Trichloroethane	Bromodichloromethane	Carbon Tetrachloride	1,2-Dichloropropane	trans-1,3-dichloropropene	cis-1,3-Dichloropropene	1,1,2-Trichloroethane	Chlorodibromomethane	Bromoform	1,1,2,2-Tetrachloroethane	Chlorobenzene
W-1	Waste Oil Tank Excavation[a]	6/29/1988	Blymyer	<1,000	--	<1,000	<1,000	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
MW-1	MW-1	1/17/2001	Golder	0.065	0.062	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-1	6/7/2001	Golder	ND	ND	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
	MW-1	12/3/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-2	MW-2	1/17/2001	Golder	0.089	0.11	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-2	6/7/2001	Golder	ND	ND	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
	MW-2	12/3/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-3	MW-3	1/17/2001	Golder	0.064	<0.4	<0.4	0.053	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-3	6/7/2001	Golder	ND	ND	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
	MW-3	12/3/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-4	MW-4	1/17/2001	Golder	0.087	0.12	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-4	6/7/2001	Golder	ND	0.13	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
	MW-4	12/3/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-5	MW-5	1/17/2001	Golder	0.08	0.23	<0.4	<0.4	<0.4	0.088	0.096	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-5	6/7/2001	Golder	ND	0.25	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
	MW-5	12/3/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-6	MW-6	1/17/2001	Golder	0.1	0.097	<0.4	<0.4	<0.4	<0.4	0.055	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	MW-6	6/7/2001	Golder	ND	0.078	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--
	MW-6	12/3/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
RW-2	RW-2	12/3/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-1A	GP-1	12/2/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-2A	GP-2	12/2/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-3A	GP-3	12/2/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-4A	GP-4	12/2/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-5A	GP-5	12/2/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-7A	GP-7	12/2/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GP-8A	GP-8	12/2/2003	Golder	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MTCA Method A Cleanup Levels[3]				**5**	**NE**	**NE**	**5**	**NE**	**NE**	**NE**	**NE**	**200**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
MTCA Method B Cleanup Levels[4]				**21.9**	**7.68**	**400**	**0.481**	**160**	**1.41**	**NE**	**NE**	**16,000**	**0.706**	**0.625**	**1.22**	**NE**	**NE**	**0.768**	**0.521**	**5.54**	**0.219**	**160**

NOTES:
Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Action Cleanup Regulation (MTCA) Method A or B cleanup levels.
-- denotes sample not reported.
< denotes analyte not detected at or exceeding the reporting limit listed.
[1]Only select analytes and analytes with detections exceeding the laboratory reporting limit are shown.
[2]Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260C,unless otherwise noted.
[3]MTCA Method A Groundwater Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.
[4]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Groundwater from CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx
[a]Analyzed by EPA Method 601.

Blymyer = Blymyer Engineers, Inc.
Golder = Golder Associates Inc.
ND = not detected and reporting limit is unknown
NE = cleanup level not established
RI = remedial investigation
VOCs = volatile organic compounds

Table 10
Summary of RI Groundwater Analytical Results for PAHs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1,2] (micrograms per liter)																			
				Polycyclic Aromatic Hydrocarbons												Carcinogenic Polycyclic Aromatic Hydrocarbons							
				1-Methylnaphthalene	2-Chloronaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)Perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(j,k)Fluoranthene	Benzo(k)Fluoranthene	Chrysene	Dibenzo(a,h)Anthracene	Indeno(1,2,3-cd)Pyrene	Total cPAHs TTEC
MW-1	MW-1[a]	4/8/1998	Golder	--	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	--	< 0.094	< 0.094	< 0.094	< 0.094	0.07
	MW-1	1/17/2001	Golder	--	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	--	<0.08	<0.08	<0.08	<0.08	0.06
MW-2	MW-2[a]	4/8/1998	Golder	--	< 0.1	0.18	0.84	< 0.1	< 0.1	< 0.1	< 0.1	0.8	< 0.1	0.72	< 0.1	< 0.1	< 0.1	< 0.1	--	< 0.1	< 0.1	< 0.1	< 0.1	0.08
	MW-2	1/17/2001	Golder	--	<0.08	<0.08	0.32	<0.08	<0.08	<0.08	<0.08	0.32	0.22	0.47	<0.08	<0.08	<0.08	<0.08	--	<0.08	<0.08	<0.08	<0.08	0.06
	MW-2-081214	08/12/2014	Farallon	0.60	--	< 0.094	0.33	< 0.094	< 0.094	< 0.0094	< 0.094	0.18	0.17	< 0.094	< 0.094	<0.0094	< 0.0094	< 0.0094	< 0.0094	--	< 0.0094	< 0.0094	< 0.0094	0.01
MW-3	MW-3[a]	4/8/1998	Golder	--	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	--	< 0.96	< 0.96	< 0.96	< 0.96	0.72
	MW-3	1/17/2001	Golder	--	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	--	<0.08	<0.08	<0.08	<0.08	0.06
MW-4	MW-4	1/17/2001	Golder	--	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	--	<0.08	<0.08	<0.08	<0.08	0.06
MW-5	MW-5	1/17/2001	Golder	--	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	--	<0.08	<0.08	<0.08	<0.08	0.06
	MW-5-092314	09/23/14	Farallon	< 0.095	--	< 0.095	< 0.095	< 0.095	< 0.095	< 0.0095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	0.01
MW-6	MW-6	1/17/2001	Golder	--	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	--	<0.08	<0.08	<0.08	<0.08	0.06
	MW-6-092315	09/23/14	Farallon	< 0.096	--	< 0.096	< 0.096	< 0.096	< 0.096	< 0.0096	< 0.096	< 0.096	< 0.096	< 0.096	< 0.096	0.01	< 0.0096	< 0.0096	< 0.0096	--	< 0.0096	< 0.0096	< 0.0096	0.01
RW-1	RW-1[a]	4/8/1998	Golder	--	<0.093	26	1.1	<0.093	0.15	<0.093	<0.093	2.9	11	2.5	<0.093	<0.093	<0.093	<0.093	--	<0.093	<0.093	<0.093	<0.093	0.07
RW-2	RW-2[a]	4/8/1998	Golder	--	<0.098	**39**	1.3	<0.098	<0.098	<0.098	<0.098	2.1	43	2.3	0.27	<0.098	<0.098	<0.098	--	<0.098	<0.098	<0.098	<0.098	0.07
	RW-2-081214	08/12/2014	Farallon	**39**	--	**38**	1.2	0.17	0.14	< 0.0094	< 0.094	3.9	1.3	1.5	< 0.094	<0.0094	< 0.0094	< 0.0094	< 0.0094	--	< 0.0094	< 0.0094	< 0.0094	0.01
F-7	F7-GW-081314	08/13/2014	Farallon	< 0.099	--	< 0.099	< 0.099	< 0.099	< 0.099	< 0.0099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	<0.0099	< 0.0099	< 0.0099	< 0.0099	--	< 0.0099	< 0.0099	< 0.0099	0.01
MTCA Method A Cleanup Levels[3]				**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**160**	**NE**	**NE**								**0.1**
MTCA Method B Cleanup Levels[4]				**1.51**	**NE**	**32**	**960**	**NE**	**4,800**	**NE**	**640**	**640**	**NE**	**160**	**NE**	**480**								**0.012**

NOTES:

Results in **bold** denote concentrations exceed applicable Washington State Model Toxics Control Action Cleanup Regulation (MTCA) Method A or B cleanup levels.

-- denotes sample not reported.

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Only select analytes and analytes with detections exceeding the laboratory reporting limit are shown.

[2]Analyzed by U.S. Environmental Protection Agency (EPA) Method 8270 or 8270D.

[3]MTCA Method A Groundwater Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[4]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Groundwater from CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

[a]Analyzed by EPA Method 8270.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons (PAHs)

Farallon = Farallon Consulting, L.L.C.

Golder = Golder Associates Inc.

NE = cleanup level not established

RI = remedial investigation

TTEC = total toxicity equivalent concentration

Table 11
Summary of RI Groundwater Analytical Results for Metals
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Sample Location	Sample Identification	Sample Date	Sampled By	Analytical Results[1] (micrograms per liter)							
				Arsenic	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Mercury**	**Selenium**	**Silver**
Oil Tank Excavation	W-1	6/29/1988	Blymyer	<100	<2,000	<100	800	**1,900**	<50	<100	<100
MW-1_88	MW-1	10/6/1988	Blymyer	--	--	--	<100	<100	--	--	--
MW-2A_88	MW-2A	10/6/1988	Blymyer	--	--	--	<100	**100**	--	--	--
MW-3_88	MW-3	10/6/1988	Blymyer	--	--	--	<100	<100	--	--	--
MW-4_88	MW-4	10/6/1988	Blymyer	--	--	--	<100	<100	--	--	--
MW-5_88	MW-5	10/6/1988	Blymyer	--	--	--	<100	<100	--	--	--
MTCA Method A Cleanup Levels[2]				**5**	**NE**	**5**	**50**	**15**	**2**	**NE**	**NE**
MTCA Method B Cleanup Levels[3]				**0.0583**	**3,200**	**8**	**NE**	**NE**	**NE**	**80**	**80**

NOTES:

-- denotes sample not reported.

< denotes analyte not detected at or exceeding the reporting limit listed.

Results in **bold** denote concentrations exceed regulatory screening level.

Blymyer = Blymyer Engineers, Inc.

NE = cleanup level not established

RI = remedial investigation

[1]Method of analysis unknown.

[2]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Groundwater Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[3]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Groundwater from CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

Table 12
Summary of Confirmational Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)						
							DRO[2]	ORO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes[4]
2017 Excavations													
Excavation 1													
B3	B3-SE-SW	B3-SE-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	B3-SE-B	B3-SE-13.0-B	Bottom	13.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C3	C3-NE	C3-NE-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C4	C4-NE	C4-NE-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	C4-SE	C4-SE-8.0-SW	Sidewall	8.0	3/21/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C5	C5-NW	C5-NW-8.0-SW	Sidewall	8.0	3/21/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C5/D5	C5/D5-SW	C5/D5-SW-8.0-B	Bottom	8.0	3/21/2017	Farallon	< 50	1,530	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C6	C6-NW	C6-NW-13.0-SW	Sidewall	13.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	C6-SE	C6-SE-13.0-B	Bottom	13.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C7	C7-NW	C7-NW-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C7/D7	C7/D7-SE	C7/D7-SE-14.0-B	Bottom	14.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C8	C8-NE	C8-NE-10.0-B	Bottom	10.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	C8-NW	C8-NW-9-SW	Sidewall	9.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
C9	C9-NE	C9-NE-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
D3	D3-SE	D3-SE-9.0-SW	Sidewall	9.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
D4	D4-NE	D4-NE-9.0-B	Bottom	9.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
D5/E5	D5/E5-SE	D5/E5-SE-8.0-B	Bottom	8.0	3/21/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
D6/E6	D6/E6-SE	D6/E6-SE-11.0-B	Bottom	11.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
D7/E7	D7/E7-SE	D7/E7-SE-13.0-B	Bottom	13.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
D8/E8-SW	D8/E8-SW	D8/E8-SW-10.0-B	Bottom	10.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	D8/E8-SW	D8/E8-SW-11-B	Bottom	11.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
D9/E9	D9/E9-SW	D9/E9-SW-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
E4	E4-SW	E4-SW-8.0-B	Bottom	8.0	3/21/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
E5	E5-SW	E5-SW-8.0-SW	Sidewall	8.0	3/21/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
E6	E6-SE	E6-SE-10.0-SW	Sidewall	10.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
E7	E7-SE	E7-SE-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
MTCA Method A Cleanup Levels for Soil[5]							**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**

Table 12
Summary of Confirmational Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)						
							DRO[2]	ORO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes[4]
E9	E9-SE	E9-SE-8.0-SW	Sidewall	8.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
F8	F8-NE	F8-NE-8.0-SW	Sidewall	8.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
F8/E8	F8/E8-SW	F8/E8-SW-11-B	Bottom	11.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
F9/E9	F9/E9-SW	F9/E9-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
F9	F9-SE	F9-SE-8.0-SW	Sidewall	8.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G8	G8-NE	G8-NE-9-SW	Sidewall	9.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G8/F8	G8/F8-SE	G8/F8-SE-11-B	Bottom	11.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G9	G9-SE	G9-SE-9-SW	Sidewall	9.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G9/F9	G9/F9-SW	G9/F9-SW-11-B	Bottom	11.0	3/20/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
Excavation 2													
G2	G2-S	G2-S-8.0-SW	Sidewall	8.0	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G3	G3-SW	G3-SW-8.0-SW	Sidewall	8.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G4	G4-NW	G4-NW-8.0-SW	Sidewall	8.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	G4-SW	G4-SW-9.0-B	Bottom	9.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G4/G5	G4/G5-NW	G4/G5-NW-9.0-B	Bottom	9.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G5	G5-NW	G5-NW-8.0-SW	Sidewall	8.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	G5-SE	G5-SE-9.0-B	Bottom	9.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
G6	G6-N	G6-N-9.0-B	Bottom	9.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	0.15
G7	G7-N	G7-N-9.0-B	Bottom	9.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	0.094	0.38
H2	H2-NE	H2-NE-8.0-SW	Sidewall	8.0	3/28/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	H2-S	H2-S-12.0-B	Bottom	12.0	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
H3	H3-S	H3-S-12.5-B	Bottom	12.5	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	H4-S	H4-5-13.0-B	Bottom	13.0	3/28/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
H5	H5-SE	H5-SE-9.0-B	Bottom	9.0	3/23/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
H6	H6-SW	H6-SW-9.0-B	Bottom	9.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	0.091	0.38
MTCA Method A Cleanup Levels for Soil[5]							**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**

Table 12
Summary of Confirmational Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)						
							DRO[2]	ORO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes[4]
H7	H7-S	H7-S-8.0-SW	Sidewall	8.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	H7-SW	H7-SW-9.0-B	Bottom	9.0	3/16/2017	Farallon	< 50	< 250	14	< 0.02	< 0.10	0.081	0.37
I3	I3-NE	I3-NE-8.0-SW	Sidewall	8.0	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	I3-SW	I3-SW-10.0-B	Bottom	10.0	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
I4	I4-NE	I4-NE-8.0-SW	Sidewall	8.0	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	I4-SW	I4-SW-10.0-B	Bottom	10.0	3/24/2017	Farallon	711	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
I5	I5-NE	I5-NE-8.0-SW	Sidewall	8.0	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	I5-SE	I5-SE-8.0-SW	Sidewall	8.0	3/24/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
I6	I6-SW-SW	I6-SW-8.0-SW	Sidewall	8.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	I6-SW-B	I6-SW-9.0-B	Bottom	9.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
I7	I7-S	I7-S-8.0-SW	Sidewall	8.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	I7-SW	I7-SW-9.0-B	Bottom	9.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
J7	J7-SE	J7-SE-8.0-SW	Sidewall	8.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	J7-SW	J7-SW-9.0-B	Bottom	9.0	3/16/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
Excavation 3													
J9	J9-NE	J9-NE-9.0-B	Bottom	9.0	3/27/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
K9	K9-NE	K9-NE-10.0-B	Bottom	10.0	3/27/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
MTCA Method A Cleanup Levels for Soil[5]							**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**
Excavation 4													
EX4 North	EX4-N	EX4-N-10.0-SW	Sidewall	10.0	3/29/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
EX4 East	EX4-E-SW	EX4-E-10.0-SW	Sidewall	10.0	3/29/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	EX4-E-B	EX4-E-11.0-B	Bottom	11.0	3/29/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
EX4 South	EX4-S	EX4-S-10.0-SW	Sidewall	10.0	3/29/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
EX4 West	EX4-W-SW	EX4-W-10.0-SW	Sidewall	10.0	3/29/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
	EX4-W-B	EX4-W-11.0-B	Bottom	11.0	3/29/2017	Farallon	< 50	< 250	< 10	< 0.02	< 0.10	< 0.05	< 0.15
MTCA Method A Cleanup Levels for Soil[5]							**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**

Table 12
Summary of Confirmational Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)						
							DRO[2]	ORO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes[4]
Excavation 5													
EX5 Bottom	EX5-B1	B1-042717	Bottom	9.0	4/27/2017	Farallon	< 35	< 70	< 7.7	< 0.0011	< 0.0054	< 0.0011	< 0.0032
	EX5-B2	B2-042717	Bottom	9.0	4/27/2017	Farallon	< 35	< 70	< 7.9	< 0.0011	< 0.0055	< 0.0011	< 0.0033
	EX5-B3	B3-042717	Bottom	9.0	4/27/2017	Farallon	< 33	< 66	< 6.8	< 0.0011	< 0.0055	< 0.0011	< 0.0033
	EX5-B4	B4-042717	Bottom	9.0	4/27/2017	Farallon	< 34	< 68	< 8.1	< 0.0011	< 0.0055	< 0.0011	< 0.0033
	EX5-B5	B5-042817-12.0	Bottom	12.0	4/28/2017	Farallon	< 34	< 68	< 8.1	0.0013	< 0.0061	< 0.0012	< 0.0037
	EX5-B6	B6-042817-12.0	Bottom	12.0	4/28/2017	Farallon	< 34	< 68	< 8.2	< 0.0013	< 0.0064	< 0.0013	< 0.0039
	EX5-B7	B7-050117-11.5	Bottom	11.5	5/1/2017	Farallon	100 N	500	< 7.0	< 0.0010	< 0.0052	0.0011	0.0072
	EX5-B8	B8-050117-12.0	Bottom	12.0	5/1/2017	Farallon	110	110	< 7.6	< 0.0013	< 0.0067	< 0.0013	< 0.0040
	EX5-B9	B9-050117-11.5	Bottom	11.5	5/1/2017	Farallon	< 35	< 69	< 8.8	< 0.0014	< 0.0068	< 0.0014	< 0.0041
	EX5-B10	B10-050117-13.0	Bottom	13.0	5/1/2017	Farallon	< 36	130	< 9.4	< 0.0014	< 0.0070	< 0.0014	< 0.0042
	EX5-NEB	NEB-050317-12.0	Bottom	12.0	5/3/2017	Farallon	< 30	< 60	< 6.6	< 0.0011	< 0.0056	< 0.0011	< 0.0033
EX 5 North Sidewall	EX5-N1-SW	N1-SW-042117-8.0	Sidewall	8.0	4/21/2017	Farallon	< 33	< 66	< 8.1	< 0.0013	< 0.0066	< 0.0013	< 0.0039
	EX5-N2-SW	N2-SW-042117-8.0	Sidewall	8.0	4/21/2017	Farallon	< 36	< 72	< 9.7	< 0.0018	< 0.0089	< 0.0018	< 0.0054
	EX5-NE	NE-050317-9.5	Sidewall	9.5	5/3/2017	Farallon	< 29	< 58	< 6.2	< 0.0010	< 0.0051	< 0.0010	< 0.003
	EX5-NE-SW	NE-SW-8.0	Sidewall	8.0	4/20/2017	Farallon	< 28	130	< 5.1	< 0.00087	< 0.0044	< 0.00087	< 0.00257
	EX5-NNW	NNW-050317-8.5	Sidewall	8.5	5/3/2017	Farallon	< 33	< 66	< 7.4	< 0.0011	< 0.0056	< 0.0011	< 0.0034
	EX5-N-SW	N-SW-8.0	Sidewall	8.0	4/20/2017	Farallon	< 29	< 58	< 6.0	< 0.0010	< 0.0052	< 0.0010	< 0.0031
	EX5-NW	NW-050317-9.0	Sidewall	9.0	5/3/2017	Farallon	< 32	< 64	< 7.5	< 0.0013	< 0.0064	< 0.0013	< 0.0038
	EX5-NW-SW	NW-SW-042117-8.0	Sidewall	8.0	4/21/2017	Farallon	< 37	100	< 9.4	< 0.0018	< 0.0092	< 0.0018	< 0.0055
	EX5-NWW	NWW-050317-8.5	Sidewall	8.5	5/3/2017	Farallon	< 39	< 77	< 9.3	< 0.0017	< 0.0085	< 0.0017	< 0.0051
EX5 East Sidewall	EX5-E1-SW	E1-SW-042717	Sidewall	8.0	4/27/2017	Farallon	< 34	< 68	< 7.3	< 0.0012	< 0.0058	< 0.0012	< 0.0035
	EX5-E-SW	E-SW-8.0	Sidewall	8.0	4/20/2017	Farallon	< 27	< 53	< 5.1	< 0.00092	< 0.0046	< 0.00092	< 0.00272
MTCA Method A Cleanup Levels for Soil[5]							**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**

Table 12
Summary of Confirmational Soil Analytical Results for TPH and BTEX
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)						
							DRO[2]	ORO[2]	GRO[3]	Benzene[4]	Toluene[4]	Ethylbenzene[4]	Xylenes[4]
EX5 South Sidewall	EX5-SE1-SW	SE1-SW-042717	Sidewall	8.0	4/27/2017	Farallon	< 34	< 68	< 7.8	< 0.0011	< 0.0057	< 0.0011	< 0.0034
	EX5-SE-SW	SE-SW-042117-8.0	Sidewall	8.0	4/21/2017	Farallon	< 29	< 58	< 5.9	< 0.0012	< 0.0059	< 0.0012	< 0.0036
	EX5-SW1-SW	SW1-SW-042717	Sidewall	8.0	4/27/2017	Farallon	< 39	< 77	< 10	< 0.0013	< 0.0067	< 0.0013	< 0.0040
EX5 West Sidewall	EX5-W1-SW	W1-SW-042117-9.0	Sidewall	9.0	4/21/2017	Farallon	< 33	< 66	< 7.3	< 0.0013	< 0.0064	< 0.0013	< 0.0038
	EX5-W3-SW	W3-SW-042717	Sidewall	8.0	4/27/2017	Farallon	< 31	< 62	< 5.8	< 0.0010	< 0.0052	< 0.0010	< 0.0031
	EX5-W4-SW	W4-SW-042717	Sidewall	8.0	4/27/2017	Farallon	< 36	< 71	< 7.9	< 0.0012	< 0.0060	< 0.0012	< 0.0036
MTCA Method A Cleanup Levels for Soil[5]							**2,000**	**2,000**	**30/100[6]**	**0.03**	**7**	**6**	**9**

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by Northwest Method NWTPH-Dx.

[3]Analyzed by Northwest Method NWTPH-Gx.

[4]Analyzed by U.S. Environmental Protection Agency Method 8021B.

[5]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[6]Cleanup level is 30 milligrams per kilogram if benzene is detected and 100 milligrams per kilogram if benzene is not detected.

BTEX = benzene, toluene, ethylbenzene and xylenes

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

Farallon = Farallon Consulting, L.L.C.

GRO = TPH as gasoline-range organics

N = hydrocarbons in the oil-range are impacting the diesel-range result

ORO = TPH as oil-range organics

Table 13
Summary of Confirmational Soil Analytical Results for Halogenated VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)[2]				
							PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
RI Investigation											
NA	S-1V	S-1V[a]	Waste Oil Tank Excavation	NA	06/29/1988	Blymyer	< 1	< 1	--	< 1	--
NA	S-1F	S-1F[a]	Waste Oil Tank Excavation	NA	06/29/1988	Blymyer	< 1	< 1	--	< 1	--
NA	GP-1	GP-1 (6-8')	NA	6 - 8	12/2/2003	Golder	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
		GP-1 (10-12')	NA	10 - 12	12/2/2003	Golder	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
NA	GP-2	GP-2 (6-8')	NA	6 - 8	12/2/2003	Golder	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		GP-2 (10-12')	NA	10 - 12	12/2/2003	Golder	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
NA	GP-3	GP-3 (6-8')	NA	6 - 8	12/2/2003	Golder	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		GP-3 (10-12')	NA	10 - 12	12/2/2003	Golder	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
NA	GP-4	GP-4 (2-4')	NA	2 - 4	12/2/2003	Golder	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		GP-44 (2-4')	NA	2 - 4 (duplicate)	12/2/2003	Golder	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		GP-4 (6-8')	NA	6 - 8	12/2/2003	Golder	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		GP-4 (10-12')	NA	10 - 12	12/2/2003	Golder	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
NA	GP-5	GP-5 (6-8')	NA	6 - 8	12/2/2003	Golder	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		GP-5 (10-12')	NA	10 - 12	12/2/2003	Golder	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
NA	GP-6	GP-6 (0-2.5')	NA	0 - 2.5	12/2/2003	Golder	0.0052	<0.0011	<0.0011	<0.0011	<0.0011
NA	GP-7	GP-7 (6-8')	NA	6 - 8	12/2/2003	Golder	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
		GP-7 (10-12')	NA	10 - 12	12/2/2003	Golder	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
NA	GP-8	GP-8 (6-8')	NA	6 - 8	12/2/2003	Golder	0.0096	<0.0014	<0.0014	<0.0014	<0.0014
		GP-8 (10-12')	NA	10 - 12	12/2/2003	Golder	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
NA	F-5	F5-6.7-081314	NA	6.7	08/13/2014	Farallon	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
NA	F-8	F8-5.0-081314	NA	5	08/13/2014	Farallon	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
2017 Test Pit Investigation											
NA	TP-4	TP4-7.0-022217	NA	7	2/22/2017	Farallon	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
		TP4-11.0-022217	NA	11	2/22/2017	Farallon	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
NA	TP-5	TP5-7.0-022117	NA	7	2/21/2017	Farallon	0.012	<0.0010	<0.0010	<0.0010	<0.0010
		TP5-11.0-022117	NA	11	2/21/2017	Farallon	<0.065	<0.065	<0.065	<0.065	<0.065
NA	TP-8	TP8-7.0-022117	NA	7	2/21/2017	Farallon	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
		TP8-11.0-022117	NA	11	2/21/2017	Farallon	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
NA	TP-9	TP9-7.0-022117	NA	7	2/21/2017	Farallon	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
		TP9-11.0-022117	NA	11	2/21/2017	Farallon	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
NA	TP-10	TP10-7.0-022117	NA	7	2/21/2017	Farallon	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
		TP10-11.0-022117	NA	11	2/21/2017	Farallon	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
NA	TP-11	TP11-7.0-030817	NA	7	3/8/2017	Farallon	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
		TP11-11.0-030817	NA	11	3/8/2017	Farallon	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013

Table 13
Summary of Confirmational Soil Analytical Results for Halogenated VOCs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)[2]				
							PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
NA	TP-12	TP12-7.0-030817	NA	7	3/8/2017	Farallon	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
		TP12-11.0-030817	NA	11	3/8/2017	Farallon	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
NA	TP-13	TP13-7.0-030817	NA	7	3/8/2017	Farallon	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
		TP13-11.0-030817	NA	11	3/8/2017	Farallon	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
2017 Excavations											
Excavation 1											
C7	C7-NW	C7-NW-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
C7/D7	C7/D7-SE	C7/D7-SE-14.0-B	Bottom	14.0	3/22/2017	Farallon	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
C8	C8-NE	C8-NE-10.0-B	Bottom	10.0	3/20/2017	Farallon	0.0018	< 0.0015	< 0.0015	< 0.0015	< 0.0015
	C8-NW	C8-NW-9.0-SW	Sidewall	9.0	3/20/2017	Farallon	0.0095	< 0.0020	< 0.0020	< 0.0020	< 0.0020
C9	C9-NE	C9-NE-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	0.020	< 0.0023	< 0.0023	< 0.0023	< 0.0023
	C9-NW	C9-NW-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 0.0017	< 0.0017	< 0.0017	< 0.0017	< 0.0017
D7/E7	D7/E7-SE	D7/E7-SE-13.0-B	Bottom	13.0	3/22/2017	Farallon	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
D8/E8	D8/E8-SW	D8/E8-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	0.0092	< 0.0028	< 0.0028	< 0.0028	< 0.0028
D9/E9	D9/E9-SW	D9/E9-SW-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	0.0075	< 0.0022	< 0.0022	< 0.0022	< 0.0022
E7	E7-SE	E7-SE-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 0.0017	< 0.0017	< 0.0017	< 0.0017	< 0.0017
F8/E8	F8/E8-SW	F8/E8-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035
F9/E9	F9/E9-SW	F9/E9-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
Excavation 3											
J9	J9-NE	J9-NE-9.0-B	Bottom	9.0	3/27/2017	Farallon	< 0.0017	< 0.0017	< 0.0017	< 0.0017	< 0.0017
K9	K9-NE	K9-NE-10.0-B	Bottom	10.0	3/27/2017	Farallon	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
MTCA Method A Cleanup Levels for Soil[3]							**0.05**	**0.03**	**NE**	**NE**	**NE**
MTCA Method B Cleanup Levels (Direct Contact and Ingestion Pathway)[4]							**476**	**12**	**160**	**1,600**	**0.67**
MTCA Method B Cleanup Levels (Protection of Groundwater, Vadose/Saturated Zones)[4]							**0.053/0.0499**	**0.0264/0.00152**	**0.0781/0.00515**	**0.518/0.0325**	**0.00167/0.0000885**

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method 8260C.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013, unless otherwise noted.

[4]Washington State Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx

[a]Analyzed by EPA Method 8270.

Blymer = Blymyer Engineers, Inc.
Farallon = Farallon Consulting, L.L.C.
Golder = Golder Associates Inc.
NA = not applicable
NE = cleanup level not established
PCE = tetrachloroethene
TCE = trichloroethene
VOCs = volatile organic compounds

Table 14
Summary of Confirmational Soil Analytical Results for cPAHs
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)[2]							Total cPAHs TEC[3,4]
							Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)Pyrene	
RI Investigation														
NA	Product Piping Trench	CF-T1	NA	2.2 - 2.7	4/7/1998	Golder	<0.0061	0.052	<0.0077	<0.012	0.097	<0.0083	<0.012	0.011
NA	MW-2	MW2-2.0	NA	1.5 - 2.0	4/7/1998	Golder	0.049	0.06	0.063	0.047	0.17	<0.0088	<0.012	0.069
NA	RW-1	RW1-7.0	NA	7.0 - 8.5	4/7/1998	Golder	<0.0074	0.094	<0.0094	<0.015	<0.0098	<0.01	<0.014	0.016
NA	RW-2	RW2-4.0	NA	4.0 - 5.5	4/8/1998	Golder	<0.006	<0.0065	<0.0076	<0.012	<0.0079	<0.0082	<0.012	0.005
		RW2-7.0	NA	7.0 - 8.5	4/8/1998	Golder	<0.0074	<0.008	<0.0094	<0.015	<0.0098	<0.01	<0.014	0.007
NA	SP-1	SP1-(8-11')	NA	8 - 11	1/11/2001	Golder	<0.022	<0.022	<0.022	<0.022	0.037	<0.022	<0.022	0.007
NA	SP-5	SP5-(5-8')	NA	5 - 8	1/11/2001	Golder	<0.018	0.11	<0.018	<0.018	0.097	<0.018	<0.018	0.025
NA	SP-6	SP6-(5-8')	NA	5 - 8	1/11/2001	Golder	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	0.020
NA	SP-8	SP8-(5-8')	NA	5 - 8	1/11/2001	Golder	<0.1	<0.1	<0.1	<0.1	0.22	<0.1	<0.1	0.08
NA	SP-9	SP9-(5-8')	NA	5 - 8	1/11/2001	Golder	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.08
NA	SP-11	SP11-(5-8')	NA	5 - 8	1/11/2001	Golder	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.017
2017 Test Pit Investigation														
NA	TP-4	TP4-7.0-022217	NA	7	2/22/2017	Farallon	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	0.0067
		TP4-11.0-022217	NA	11	2/22/2017	Farallon	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0068
NA	TP-5	TP5-7.0-022117	NA	7	2/21/2017	Farallon	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	<0.0088	0.0066
		TP5-11.0-022117	NA	11	2/21/2017	Farallon	<0.0085	0.012	<0.0085	<0.0085	0.012	<0.0085	<0.0085	0.0073
2017 Excavations														
Excavation 1														
C7	C7-NW	C7-NW-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	< 0.0091	0.0069
C7/D7	C7/D7-SE	C7/D7-SE-14.0-B	Bottom	14.0	3/22/2017	Farallon	< 0.0085	< 0.0085	< 0.0085	< 0.0085	< 0.0085	< 0.0085	< 0.0085	0.0064
C8	C8-NE	C8-NE-10.0-B	Bottom	10.0	3/20/2017	Farallon	< 0.0089	< 0.0089	< 0.0089	< 0.0089	< 0.0089	< 0.0089	< 0.0089	0.0067
	C8-NW	C8-NW-9.0-SW	Sidewall	9.0	3/20/2017	Farallon	< 0.0092	< 0.0092	< 0.0092	< 0.0092	< 0.0092	< 0.0092	< 0.0092	0.0069
C9	C9-NE	C9-NE-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	< 0.0096	0.0072
	C9-NW	C9-NW-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 0.0092	< 0.0092	< 0.0092	< 0.0092	< 0.0092	< 0.0092	< 0.0092	0.0069
D7/E7	D7/E7	D7/E7-SE-13.0-B	Bottom	13.0	3/22/2017	Farallon	< 0.0089	< 0.0089	< 0.0089	< 0.0089	< 0.0089	< 0.0089	< 0.0089	0.0067
D8/E8	D8/E8	D8/E8-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	< 0.0098	< 0.0098	< 0.0098	< 0.0098	< 0.0098	< 0.0098	< 0.0098	0.0074
D9/E9	D9/E9	D9/E9-SW-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	0.0075
E7	E7	E7-SE-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 0.0095	< 0.0095	0.015	< 0.0095	0.015	< 0.0095	< 0.0095	0.0083
F8/E8	F8/E8	F8/E8-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	0.010
F9/E9	F9/E9	F9/E9-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	0.011
Excavation 3														
J9	J9-NE	J9-NE-9.0-B	Bottom	9.0	3/27/2017	Farallon	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	0.0075
K9	K9-NE	K9-NE-10.0-B	Bottom	10.0	3/27/2017	Farallon	< 0.0097	< 0.0097	< 0.0097	< 0.0097	< 0.0097	< 0.0097	< 0.0097	0.0073
MTCA Method A Cleanup Level for Soil[5]														**0.1**

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method 8270D/SIM.

[3]Total cPAHs derived using the total toxicity equivalency method in Section 708(8) of Chapter 173-340 of the Washington Administrative Code.

[4]For concentrations reported at less than the laboratory reporting limit, half the reporting limit was used to calculate the TEC.

[5]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons
Farallon = Farallon Consulting, L.L.C.
Golder = Golder Associates Inc.
NA = not applicable
TEC = toxic equivalent concentration

Table 15
Summary of Confirmational Soil Analytical Results for Metals
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Grid	Sample Location	Sample Identification	Excavation Sample Type	Sample Depth (feet)[1]	Sample Date	Sampled By	Analytical Results (milligrams per kilogram)[2]								
							Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver
RI Investigation															
NA	S-1V	S-1V	Waste Oil Tank Excavation	NA	06/29/1988	Blymyer	<0.1	<2	<0.1	9.1	---	14.2	<0.05	<0.1	<0.1
NA	S-1F	S-1F	Waste Oil Tank Excavation	NA	06/29/1988	Blymyer	<0.1	<2	<0.1	7.2	---	9.9	<0.05	<0.1	<0.1
NA	S-2F	S-2F	Waste Oil Tank Excavation	NA	06/29/1988	Blymyer	<0.1	<2	<0.1	9.9	---	11.0	<0.05	<0.1	<0.1
NA	S-2V	S-2V	Waste Oil Tank Excavation	NA	06/29/1988	Blymyer	<0.1	<2	<0.1	11.3	---	8.6	<0.05	<0.1	<0.1
2017 Test Pit Investigation															
NA	TP-4	TP4-7.0-022217	NA	7.0	2/22/2017	Farallon	<13	---	<0.67	18	22	< 6.7	<0.33	---	---
		TP4-11.0-022217	NA	11.0	2/22/2017	Farallon	<13	---	<0.67	16	17	< 6.7	<0.34	---	---
NA	TP-5	TP5-7.0-022117	NA	7.0	2/21/2017	Farallon	<13	---	<0.66	7.0	6.3	< 6.6	<0.33	---	---
		TP5-11.0-022117	NA	11.0	2/21/2017	Farallon	<13	---	<0.63	7.9	7.2	< 6.3	<0.32	---	---
2017 Excavations															
Excavation 1															
C7	C7-NW	C7-NW-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 14	---	< 0.68	17	---	< 6.8	< 0.34	---	---
C7/D7	C7/D7-SE	C7/D7-SE-14.0-B	Bottom	14.0	3/22/2017	Farallon	< 13	---	< 0.64	16	---	< 6.4	< 0.32	---	---
C8	C8-NE	C8-NE-10.0-B	Bottom	10.0	3/20/2017	Farallon	< 13	---	< 0.67	11	---	< 6.7	< 0.33	---	---
	C8-NW	C8-NW-9.0-SW	Sidewall	9.0	3/20/2017	Farallon	< 14	---	< 0.69	13	---	< 6.9	< 0.34	---	---
C9	C9-NE	C9-NE-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 14	---	< 0.72	16	---	< 7.2	< 0.36	---	---
	C9-NW	C9-NW-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 14	---	< 0.69	15	---	< 6.9	< 0.35	---	---
D7/E7	D7/E7-SE	D7/E7-SE-13.0-B	Bottom	13.0	3/22/2017	Farallon	< 13	---	< 0.66	18	---	< 6.6	< 0.33	---	---
D8/E8	D8/E8-SW	D8/E8-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	< 15	---	< 0.73	14	---	< 7.3	< 0.37	---	---
D9/E9	D9/E9-SW	D9/E9-SW-8.0-SW	Sidewall	8.0	3/20/2017	Farallon	< 15	---	< 0.75	20	---	< 7.5	< 0.37	---	---
E7	E7-SE	E7-SE-12.0-SW	Sidewall	12.0	3/22/2017	Farallon	< 14	---	< 0.71	17	---	< 7.1	< 0.36	---	---
F8/E8	F8/E8-SW	F8/E8-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	12	---	< 1.0	22	---	12	< 0.51	---	---
F9/E9	F9/E9-SW	F9/E9-SW-11.0-B	Bottom	11.0	3/20/2017	Farallon	14	---	< 1.1	23	---	20	< 0.53	---	---
Excavation 3															
J9	J9-NE	J9-NE-9.0-B	Bottom	9.0	3/27/2017	Farallon	< 15	---	< 0.75	21	---	< 7.5	< 0.37	---	---
K9	K9-NE	K9-NE-10.0-B	Bottom	10.0	3/27/2017	Farallon	< 14	---	< 0.72	22	---	< 7.2	< 0.36	---	---
MTCA Method A Soil Cleanup Levels, Unrestricted Land Use[3]							**20**	**NE**	**2**	**2,000**	**NE**	**250**	**2**	**NE**	**NE**
MTCA Method B Cleanup Levels (Direct Contact and Leaching Pathway)[4]							**0.0667**	**16,000**	**80**	**120,000**	**3,200**	**NE**	**NE**	**400**	**400**
MTCA Method B Cleanup Levels (Protection of Groundwater, Vadose/Saturated Zones)[4]							**2.92/0.146**	**1,650/82.6**	**0.69/0.0349**	**480,000/24,000**	**284/14.3**	**3,000/150**	**2.09/0.105**	**5.2/0.264**	**13.6/0.687**

NOTES:
< denotes analyte not detected at or exceeding the laboratory reporting limit listed.
--- denotes sample not analyzed.
[1]Depth in feet below ground surface.
[2]Analyzed by U.S. Environmental Protection Agency Methods 6010C/7471B.
[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended 2013, unless otherwise noted.
[4]Washington State Cleanup Levels and Risk Calculations under MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet downloaded on 9/24/2015 from https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

Blymer = Blymyer Engineers, Inc.
Farallon = Farallon Consulting, L.L.C.
NA = not applicable
NE = not established

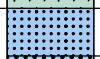
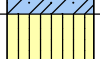
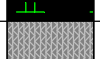
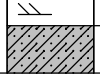
APPENDIX A
BORING LOGS

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

FARALLON CONSULTING

USCS Classification and Graphic Legend

Major Divisions			USCS Graphic Symbol	USCS Letter Symbol	Lithologic Description
Coarse-Grained Soil (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		GW	Well graded GRAVEL, well graded GRAVEL with sand
				GP	Poorly graded GRAVEL, GRAVEL with sand
		GRAVEL WITH FINES (Appreciable amount of fines)		GP-GM	Poorly graded GRAVEL - GRAVEL with sand and silt
				GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOIL (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		SW	Well graded SAND
				SP	Poorly graded SAND
		SAND WITH FINES (Appreciable amount of fines)		SP-SM	Poorly graded SAND - silty SAND
				SM	Silty SAND
				SC	Clayey SAND
				SM-ML	SILT - Silty SAND
Fine-Grained Soil (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid limit less than 50)			ML	SILT
				CL	CLAY
				OL	Organic SILT
	SILT AND CLAY (Liquid limit greater than 50)			MH	Inorganic SILT
				CH	Inorganic CLAY
				OH	Organic CLAY
		Highly Organic Soil		PT	Peat
OTHER MATERIALS	PAVEMENT			AC	Asphalt concrete
				CO	Concrete
	OTHER			RK	Bedrock
				WD	Wood Debris
				DB	Debris (Miscellaneous)
				PC	Portland cement

Legend

- Sample Interval
- G — Grab Sample Interval
- Water level at time of drilling
- Water level at time of sampling
- Blank Casing
- Screened Casing
- Cement Grout
- Bentonite
- Sand Pack
- Well Cap

_____ Solid line indicates sharp contact between units well defined.

- - - - - - - Dashed line indicates gradational contact between units.

feet bgs = feet below ground surface
NE = Not Encountered
NA = Not Applicable
PID = Photoionization Detector
PN = Project Number
*ppm = parts per million total organic vapors in isobutylene equivalents using a 10.6 electron volt lamp
USCS = Unified Soil Classification System

GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

1

Drilling Log

MONITORING WELL

Project Blymyer/Seattle Owner Conosolidated Freightways

Location Seattle, WA Project Number 201-799-5012

Date Drilled 6/27/88 Total Depth of Hole 24 ft Diameter 7.5in.

Surface Elevation ____ Water Level, Initial 9 ft 24-hrs. ____

Screen: Dia. 2 in. Length 20 ft. Slot Size .020 in.

Casing: Dia. 4 in. Length 4 ft. Type PVC

Drilling Company Soil Sampling Drilling Method Hollow Stem Auger

Driller C. Ketvirtis Log by M. Winters

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Asphalt ± 2 inches over base coarse, ±4 inches
2			A 19 12 12		Brown fine to medium sand with some gravel (medium dense, moist, no hydrocarbon odor)
4					(grades, dark gray-brown, no gravel)
6				SP	Dark gray-brown, clayey silt with some fine sand (soft, moist to wet, no hydrocarbon odor)
8			B 1 1 1		Encountered water 6/27/88 (0945 hr.)
10				ML	(grades more sand, wet)
12					Dark gray-brown fine to medium sand
14			C 2 2 2		(medium dense, wet, no hydrocarbon odor)
16				SP	
18			2 4 6		
20					
22					
24					Drilled to 24 feet, installed monitoring well

02100144

GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

2

Drilling Log

MONITORING WELL

Project: Blymyer/Seattle — Owner: Consolidated Freightwys
Location: Seattle, WA — Project Number: 201-799-5012
Date Drilled: 6/27/88 — Total Depth of Hole: 14.5ft — Diameter: 7.5 in.
Surface Elevation: — Water Level, Initial: 8.5 ft — 24-hrs.
Screen: Dia. — Length — Slot Size
Casing: Dia. — Length — Type
Drilling Company: Soil Sampling — Drilling Method: Hollow Stem Auger
Driller: C. Kervirtis — Log by: M. Winters

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Asphalt ± 2 inches over base coarse, ± 4 inches
2					Brown fine to medium sand with some gravel (medium dense, moist, no hydrocarbon odor)
2			A 12		
4			10		(grades no gravel)
4			8	SP	
6					
8			B 2		Encountered water 6/27/88 (1145 hr.)
8			2		
10			3		Dark gray-brown fine sandy silt with some clay (soft, wet, no hydrocarbon odor)
12			C 2	ML	
12			2		
14			28	SP	Dark gray-brown fine to medium sand (medium dense, wet, no hydrocarbon odor)
16					Drilled to 14.5 feet, rig refusal on wood, backfilled boring with bentonite and concrete
18					
20					
22					
24					

GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Drilling Log

2A

MONITORING WELL

Project Blymyer/Seattle Owner Consolidated Freightways

Location Seattle, WA Project Number 201-799-5012

Date Drilled 6/27/88 Total Depth of Hole 24 ft. Diameter 7.5 in.

Surface Elevation ____ Water Level, Initial 8.5 ft. 24-hrs. ____

Screen: Dia. 2 in. Length 20 ft. Slot Size .020 in.

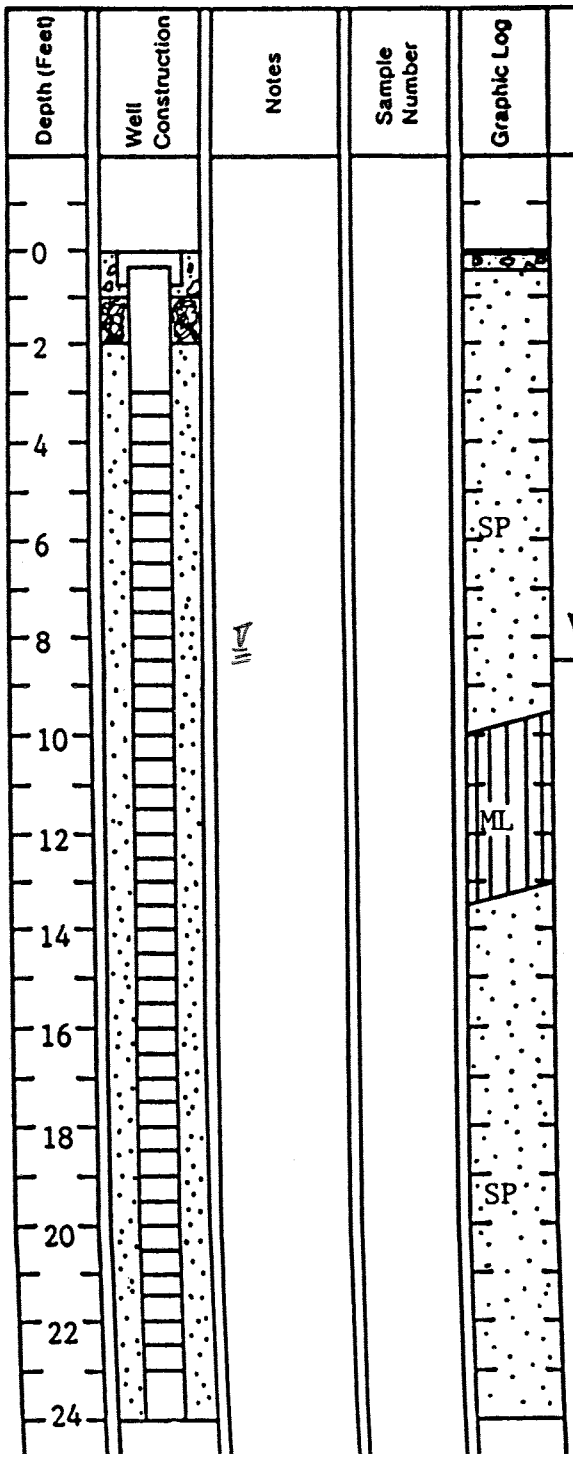
Casing: Dia. 2 in. Length 4 ft. Type PVC

Drilling Company Soil Sampling Drilling Method Hollow Stem Auger

Driller C. Ketvirtis Log by M. Winters

Sketch Map

Notes



Description/Soil Classification (Color, Texture, Structures)

Asphalt ± 2 inches over base coarse, ± 4 inches

Brown fine to medium sand with some gravel (medium dense, moist, no hydrocarbon odor)

(grades no gravel)

Encountered water 6/27/88 (1215 hr.)

Dark gray-brown fine sandy silt with some clay (soft, wet, no hydrocarbon odor)

Dark gray-brown fine to medium sand (medium dense, wet, no hydrocarbon odor)

Drilled to 24 feet, installed monitoring well

GROUNDWATER TECHNOLOGY

Division of Oil Recovery Systems, Inc.

Drilling Log

MONITORING WELL 3

Project Blymyer/Seattle Owner Consolidated Freightways

Location Seattle, WA Project Number 201-799-5012

Date Drilled 6/27/88 Total Depth of Hole 24ft. Diameter 7.5in.

Surface Elevation ____ Water Level, Initial 9 ft. 24-hrs. ____

Screen: Dia. 2 in. Length 20 ft. Slot Size .020 in.

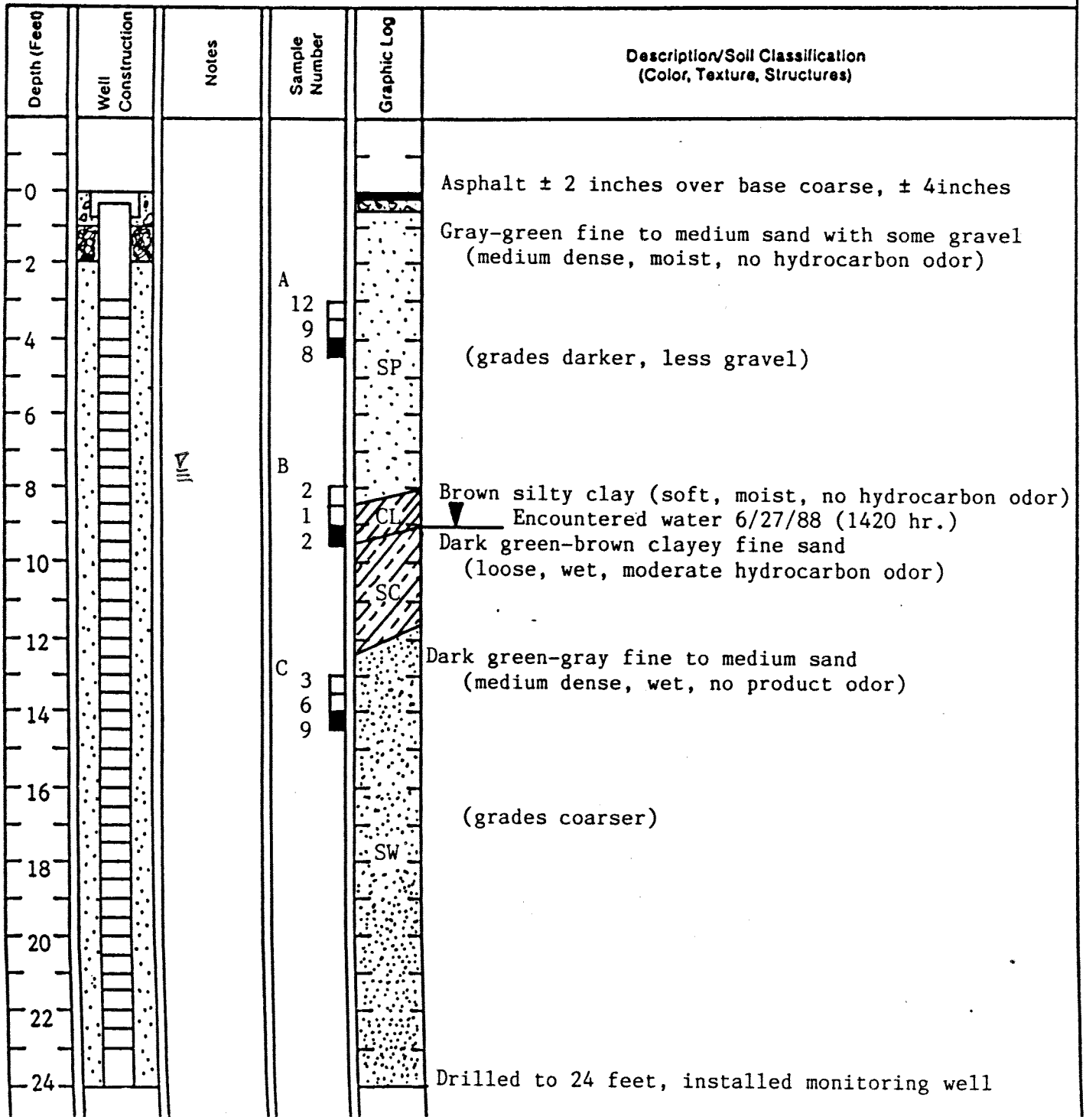
Casing: Dia. 2 in. Length 4 ft Type PVC

Drilling Company Soil Sampling Drilling Method Hollow Stem Auger

Driller C. Ketvirtis Log by M. Winters

Sketch Map

Notes



GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

Drilling Log

4

MONITORING WELL

Project Blymyer/Seattle — Owner Consolidated Freightways
Location Seattle, WA — Project Number 201-799-5012
Date Drilled 6/28/88 — Total Depth of Hole 24ft. — Diameter 7.5 in.
Surface Elevation — Water Level, Initial 9 ft. — 24-hrs.
Screen: Dia. 2 in. — Length 20 ft. — Slot Size .020 in.
Casing: Dia. 2 in. — Length 4 ft. — Type PVC
Drilling Company Soil Sampling — Drilling Method Hollow Stem Auger
Driller C. Ketvirtis — Log by M. Winters

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
0					Asphalt ± 2 inches over base, coarse, ± 4 inches (slight hydrocarbon odor)
2			A 7 4 4		Brown fine to medium sand with some gravel (medium dense, moist, no product odor)
4				SP	
6					(grades dark gray-brown, finer, no gravel)
8					(slight hydrocarbon odor)
10			B 1 1 1	ML	Encountered water 6/28/88 (0840 hr.) Dark gray-brown clayey silt with sand (soft, wet, no product odor)
12			C		
14			3 3 3		Gray-brown fine to medium sand (loose, wet, no product odor)
16					
18				SP	
20					
22					
24					Drilled to 24 feet, installed monitoring well

GROUNDWATER TECHNOLOGY
Division of Oil Recovery Systems, Inc.

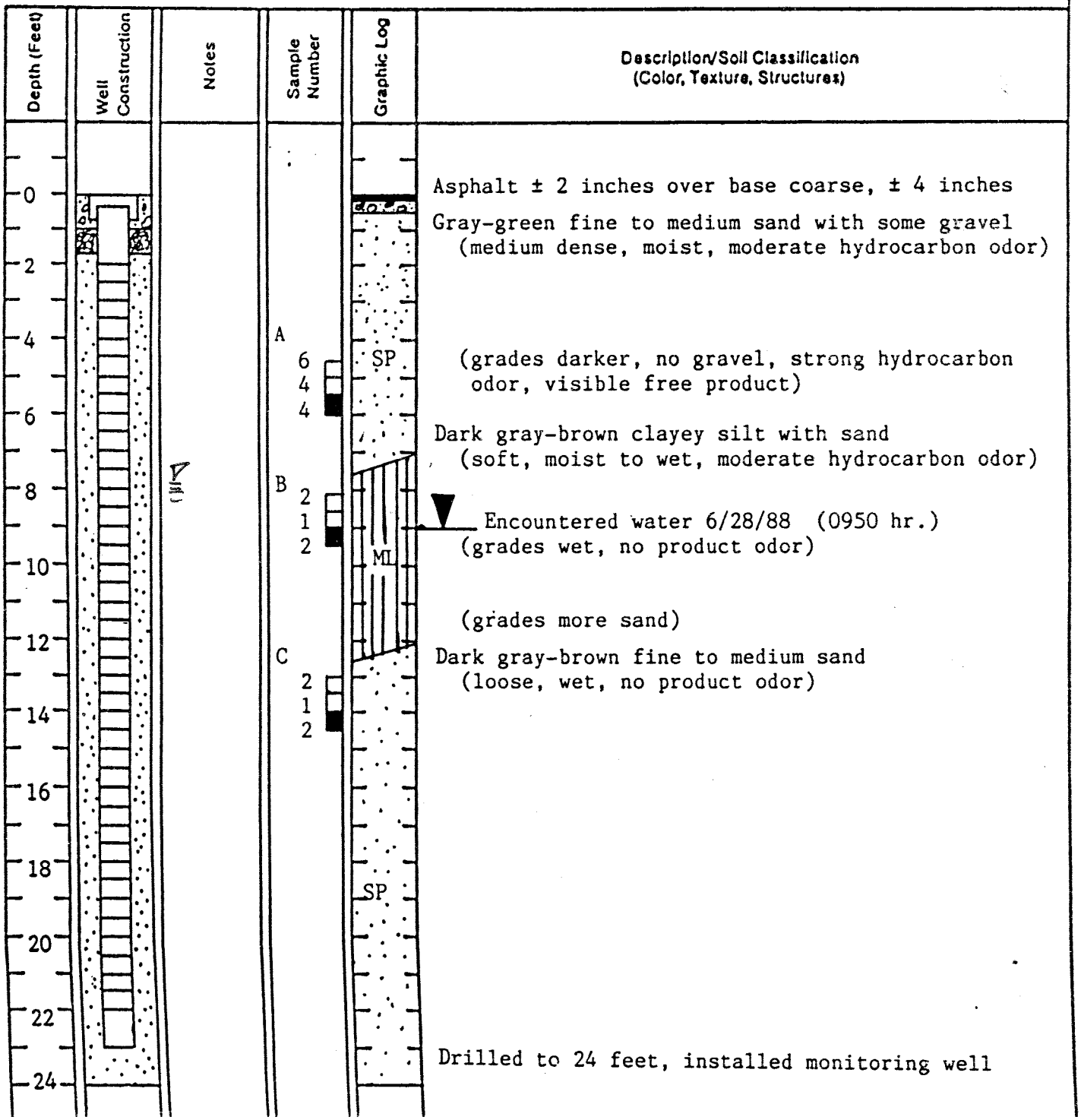
Drilling Log

MONITORING WELL 5

Project Blymyer/Seattle Owner Consolidated Freightways
Location Seattle, WA Project Number 201-799-5012
Date Drilled 6/28/88 Total Depth of Hole 24 ft. Diameter 10.5 in.
Surface Elevation ____ Water Level, Initial 9 ft. 24-hrs. ____
Screen: Dia. 4 in. Length 20 ft. Slot Size .020 in.
Casing: Dia. 4 in. Length 3 ft. Type PVC
Drilling Company Soil Sampling Drilling Method Hollow Stem Auger
Driller C. Ketvirtis Log by M. Winters

Sketch Map

Notes



ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways			Project Number: T-1768-01	Well Number: P1	
Logged By: A. Tirao			Surface Elevation: —	Well Location: 24N Twnshp 4E Range 20-29 Section 1/4, 1/4	
Drilling Method: Strataprobe	Hole Diameter: 2"		Casing Size/Type: —	Depth to Water: ~7 Encountered / 7.46 Static	
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd			Methods of Decontamination Prior to Drilling: Alconox, water rinse	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1								
2								
3								
4		4'-7'	0835	0		67	GM	Gray, silty, fine to medium sandy, fine GRAVEL; dry.
5								
6							SP	Black and tan, fine to medium SAND; moist to wet.
7		7'-10'	0843	0		83	SP/SM	Black, fine to medium SAND, grading to brown and gray, silty, fine to medium SAND; wet; stratified with black, fine to medium sand; wood piece at 9 feet.
8								
9								
10								BOTTOM OF PROBE 10 FEET
11								
12								
13								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways	Project Number: T-1768-01	Well Number: P2	
Logged By: A. Tirao	Surface Elevation: —	Well Location: 24N Twnshp 4E Range 20 Section 29 1/4, 1/4	
Drilling Method: Stratoprobe	Hole Diameter: 2"	Casing Size/Type: —	Depth to Water: ~7.5 Encountered / Static
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd	Methods of Decontamination Prior to Drilling: Alconox, water rinse	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1								
2		2'-5'	0910	0		100	GM/SP-SM	Gray and brown, silty, sandy, fine GRAVEL and slightly silty, fine to medium SAND; dry to moist.
3								
4							SP	Brown, fine to medium SAND; moist.
5		5'-8'	0915	232		83	ML/SP	Gray, slightly clayey SILT and brown, fine to medium SAND; moist to wet; strong hydrocarbon odor and sheen on soil.
6								
7								
8								BOTTOM OF PROBE 8 FEET
9								
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways	Project Number: T-1768-01	Well Number: P3	
Logged By: A. Tirao	Surface Elevation: —	Well Location: 24N Twnshp 4E Range 20;29 Section 1/4, 1/4	
Drilling Method: Stratoprobe / Hole Diameter: 2"	Casing Size/Type: —	Depth to Water: ~6.5 Encountered / Static	
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd	Methods of Decontamination Prior to Drilling: Alconox, water rinse	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
2		2'-5'	0947	0		100	GM	Gray, silty, fine to medium, sandy, fine GRAVEL; dry.
3							SP	Brown, fine to medium SAND; dry to moist.
4								
5		5'-8'	0951	0		83	SP	Brown, fine to medium SAND; moist.
6							ML	Grayish brown, slightly clayey SILT; moist to wet.
7								
8							SP	Dark gray, fine to medium SAND; wet, BOTTOM OF PROBE 8 FEET
9								
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways	Project Number: T-1768-01	Well Number: P4
Logged By: A Tirao	Surface Elevation: —	Well Location: 24N 4E 20 1/4 29 (Twnshp Range Section 1/4, 1/4)
Drilling Method: Stratoprobe; Hole Diameter: 2"	Casing Size/Type: —	Depth to Water: ~8 Encountered / Static
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd	Methods of Decontamination Prior to Drilling: Alconox, water rinse

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1								
2		2'-5'	1033	0		83	GM/SP	Gray, silty, fine to medium, sandy, fine GRAVEL and tan fine to medium SAND; dry.
3								
4							SP/ML	Brown fine to medium SAND and SILT; dry to moist.
5		5'-8'	1040	17.6		50	GM/ML	Brown and gray, silty, fine to medium sandy, fine GRAVEL, slightly clayey SILT, and fine to medium SAND; moist to wet; hydrocarbon odor, slight sheen on soil.
6								
7								
8								BOTTOM OF PROBE 8 FEET
9								
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways	Project Number: T-1768-01	Well Number: P5	
Logged By: A Tirao	Surface Elevation: —	Well Location: 24N Twnshp 4E Range 20;29 Section 1/4, 1/4	
Drilling Method: Stratoprobe / Hole Diameter: 2"	Casing Size/Type: —	Depth to Water: ~7.5 Encountered / 8.05 Static	
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd	Methods of Decontamination Prior to Drilling: Alconox, water rinse	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1		0'-3'	1123	0		100	GM	Gray, silty, fine to medium sandy, fine GRAVEL; dry.
2							SP-SM	Dark brown, slightly silty, fine to medium SAND; dry to moist.
3							SP	Tan, fine to medium SAND; dry to moist.
4		3'-6'	1129	0		83	SP	Dark brown, medium SAND; dry to moist.
5								
6				7.3			ML	Tan and gray, slightly fine sandy to clean, SILT; moist to wet; slight hydrocarbon odor, sheen.
7								
8								
9								BOTTOM OF PROBE 9 FEET
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways			Project Number: T-1768-01	Well Number: P6	
Logged By: A Tirao			Surface Elevation: —	Well Location: 24N 4E 20;29 Twnshp Range Section 1/4, 1/4	
Drilling Method: Stratoprobe	Hole Diameter: 2"		Casing Size/Type: —	Depth to Water: ~7 Encountered / 7.89 Static	
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd			Methods of Decontamination Prior to Drilling: Alconox, water rinse	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1								
2								
3								
4								
5								
6		6'-9'	1225	10.3		100	SP	Dark brown, fine to medium SAND; dry.
7								
8			1230	0.4			ML	Dark gray, slightly clayey SILT; moist to wet.
9								BOTTOM OF PROBE 9 FEET
10								

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	LOG OF BORING	FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways	Project Number: T-1768-01	Well Number: P7	
Logged By: A. Tirao	Surface Elevation: —	Well Location: 24N Twnshp 4E Range 20 & 29 Section 1/4, 1/4	
Drilling Method: Stratoprobe / Hole Diameter: 2"	Casing Size/Type: —	Depth to Water: ~7.5 Encountered / 7.00 Static	
Date Started: 8/8/91 Date Completed:	Drilling Company: TEG / Driller: Todd	Methods of Decontamination Prior to Drilling: Alconox, water rinse	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1								
2								
3								
4								
5								
6		6'-9'	1305	0		100	GM/ML	Brown and gray, silty, sandy GRAVEL, slightly clayey SILT, and fine to medium SAND; dry to wet; slight hydrocarbon odor (7.5 feet)
7								
8			1312	0				
9								BOTTOM OF PROBE 9 FEET
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways		Project Number: T-1768-01	Well Number: P8
Logged By: A. Tirao		Surface Elevation: —	Well Location: 24N Twnshp 4E Range 20 & 29 Section 1/4, 1/4
Drilling Method: Stratoprobe	Hole Diameter: 2"	Casing Size/Type: —	Depth to Water: ~7.2 Encountered / Static
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd		Methods of Decontamination Prior to Drilling: Alconox, water rinse

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
6		6'-9'	1345	0		100	SP/ML	Tan and gray, fine to medium SAND, SILT, and fine sandy SILT; dry to wet.
8			1352	0				
9								BOTTOM OF PROBE 9 FEET
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways	Project Number: T-1768-01	Well Number: P9	
Logged By: A. Tirao	Surface Elevation: —	Well Location: 24N 4E 20+29 Twnshp Range Section 1/4, 1/4	
Drilling Method: Stratoprobe	Hole Diameter: 2"	Casing Size/Type: —	Depth to Water: ~7 Encountered / Static
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd	Methods of Decontamination Prior to Drilling: Alconox, water rinse	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1								
2								
3								
4								
5		5'-6'	1415	0		100		Brown and gray, silty, sandy GRAVEL, slightly clayey SILT, and fine to medium SAND; dry to wet.
6								
7			1420	0				
8								BOTTOM OF PROBE 8 FEET.
9								
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

ENVIRONMENTAL FIELD DRILLING LOG

Project Name: Consolidated Freightways			Project Number: T-1768-01	Well Number: P10	
Logged By: A. Tirao			Surface Elevation: —	Well Location: 24N Twnshp 4E Range 20 & 29 Section 1/4, 1/4	
Drilling Method: Stratoprobe	Hole Diameter: 2"		Casing Size/Type: —	Depth to Water: ~7' Encountered / Static	
Date Started: 8/8/97 Date Completed:	Drilling Company: TEG Driller: Todd			Methods of Decontamination Prior to Drilling: Alconox, rinse water	

Depth in Feet	Sample Type & No.	Sample Depth Interval	Time	Concentration	Blow Count	Recovery Length / %	USCS	Soil Description
								Ground Surface
1								
2								
3								
4								
5								
6		6'-9'	1509	0		100	SP	Brown, fine to medium SAND; moist.
7							ML	Grayish brown, slightly clayey SILT; moist to wet.
8			1515	0			SP	Dark gray, fine to medium SAND; wet.
9								BOTTOM OF PROBE 9 FEET
10								

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Name of Job
Location of Job

LOG OF BORING

Date
Job No.
FIG. NO.

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE MW-1

SHEET 1 **OF** 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES: NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	4-inch I.D. Hollow Stem Auger	Moderate brown, silty fine to coarse SAND and fine GRAVEL, dry (FILL)	SP							0.6		Locking Well Cap; Flush Monument cemented in place; Medium Bentonite Chips
		Loose, moderate brown and olive gray, silty fine to coarse SAND, becoming wet below ~6 ft bgs, trace wood pieces at ~8.0 ft bgs	SM			1	SS	6-10-7	17	0.7		Monterey #2/12 Sand
5						2	SS	11-20-12	32	0.7		ATD
						3	SS	6-9-10	19	2.2		~8-inch Borehole
10		Compact, olive gray, silty fine to medium SAND, wet	SM-SP			4	SS	9-19-20	39	1.8		2-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
						5	SS	?	?	2.0		
15		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE MW-2

SHEET 1 **OF** 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	4-inch I.D. Hollow Stem Auger	Moderate brown and gray, silty medium to coarse SAND and fine GRAVEL, petroleum odor (FILL)								35		Locking Well Cap; Flush Monument cemented in place; Medium Bentonite Chips
5		Loose, olive gray, fine to medium sandy SILT, trace stratified layers clayey SILT, wet below 6.0 ft, petroleum odor	SM			1	SS	7-7-10	17	4.6		Monterey #2/12 Sand; ATD; 8-inch Borehole
						2	SS	6-7-8	15	4.3		
						3	SS	4-7-8	15	2.1		
10		Compact, dark gray, unstratified, silty fine to medium SAND, wet, no odor	SM-SP			4	SS	10-13-16	29	2.4		2-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
		Increase in grain size of sand to fine to coarse SAND				5	SS	4-7-8	15	1.3		
15		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE MW-3

SHEET 1 **OF** 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES: NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	4-inch I.D. Hollow Stem Auger	Gray, silty fine to coarse SAND and fine GRAVEL, dry (FILL)								3.3		Locking Well Cap; Flush Monument cemented in place; Medium Bentonite Chips
5		Compact, dark gray, silty fine to medium SAND, stratified layers of clayey silt, trace wood pieces, becoming wet below 6.5 ft	SM			1	SS	14-13-16	29	1.0		Monterey #2/12 Sand; ATD
						2	SS	10-12-12	24	1.1		
						3	SS	8-15-20	35	1.3		~8-inch Borehole
10		Compact, dark gray, unstratified, silty fine to medium SAND, wet	SM-SP			4	SS	8-14-21	36	1.1		2-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
15						5	SS	?	?	1.2		
		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE RW-1

SHEET 1 **OF** 1

DATUM:

PROJECT NUMBER: 983 1065

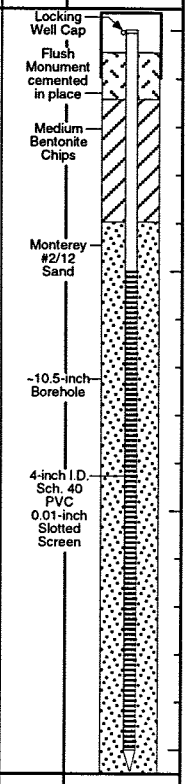
BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID
0	6-inch I.D. Hollow Stem Auger	Moderate yellowish brown, silty fine to medium SAND, some fine gravel, dry (FILL)								0.6
		Compact, moderate yellowish brown and medium gray, silty fine to medium SAND, damp	SM			1	SS	11-11-10	21	32
5						2	SS	6-5-7	12	120
						3	SS	7-5-7	12	125
		Loose, olive gray, clayey SILT, some wood pieces, little fine to medium sand, wet Potential free product observed in sample	SM-ML							
10		Compact, dark gray, silty fine to medium SAND, wet	SM-SP			4	SS	7-9-12	21	28
						5	SS	7-15-22	37	17
15		Total depth 15.5 ft bgs								
20										
25										
30										

PENETRATION RESISTANCE BLOWS/FT. ■
0 10 20 30 40 50
WATER CONTENT, PERCENT
Wp W Wl

MONITORING WELL GRAPHIC / WATER LEVEL



DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE RW-2

SHEET 1 **OF** 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES: NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	6-inch I.D. Hollow Stem Auger	Moderate yellowish brown, silty fine to coarse SAND and fine GRAVEL, dry, petroleum odor (FILL)								404		Locking Well Cap; Flush Monument cemented in place
		Compact, olive gray, silty fine to coarse SAND, unstratified, strong petroleum odor, becoming wet below ~6 ft	SM			1	SS	40-32-50	82	512		Medium Bentonite Chips
5						2	SS	17-15-14	29	450		Monterey #2/12 Sand
		Olive gray, clayey SILT				3	SS	6-10-15	25	412		~10.5-inch Borehole
		Loose to compact, dark gray, silty fine to medium SAND, wet, petroleum odor in sample	SM-SP			4	SS	10-8-8	16	368		4-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
10						5	SS	5-10-15	25	189		
15		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

RECORD OF BOREHOLE MW-4

SHEET 1 of 1

PROJECT: CF-Seattle
PROJECT NUMBER: 983-1065.810
LOCATION: CF- Seattle

DRILLING METHOD: 4" HSA
DRILLING DATE: 01/10/2001
DRILL RIG: CME-75

DATUM: MSL
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS GRAPHIC
0	4" ID Hollow Stem Auger woth 140lb drop hammer	0.0 - 0.5 Asphalt 0.5 - 3.0 Gravel,sand,red brick with metal debris (FILL)			0.5							Well cap and flush mount monument locked
		3.0 - 17.0 Compact to Dense, dusky yellowish brown to dark grey weekly stratified fine sandy SILT, silt fine sand, moist to wet (ALLUVIUM)			3.0							Bentonite seal
5						1	MC	13-13-13	26	1.5/1.5	■	Filter pack with silica sand
						2	MC	4-5-5	10	1.5/1.5	■	
10		Wet below 8.5 ft	SM-ML			3	MC	7-8-8	16	1.5/1.5	■	2" PVC .01"Slotted pipe
		Becoming dense in fine sands				4	MC	11-20-21	41	1.5/1.5	■	
15												bottom of hole
		Boring completed at 17.0 ft.			17.0							ATD
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR: Cascade
DRILLER: Cody

LOGGED: GLZ
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD 9831065.GPJ GLDR_WA.GDT 2/15/01

RECORD OF BOREHOLE MW-5

SHEET 1 of 1

PROJECT: CF-Seattle
PROJECT NUMBER: 983-1065.810
LOCATION: CF- Seattle

DRILLING METHOD: 4" HSA
DRILLING DATE: 01/10/2001
DRILL RIG: CME-75

DATUM: MSL
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS / GRAPHIC
0	4" ID Hollow Stem Auger woth 140lb drop hammer	0.0 - 0.5 Asphalt 0.5 - 6.0 Loose, medium light gray, fine to corse SAND and gravel (FILL)			0.5							Well cap and flush mount monument locked Bentonite seal
5						1	MC	15-17-17	34	1.5 / 1.5		Filter pack with silica sand
		6.0 - 7.0 Compact,dark gray, Silty fine SAND, damp to wet (ALLUVIUM)	SM		6.0							
		7.0 - 13.0 Firm, Olive gray, nonstratfied SILT, damp to wet (ALLUVIUM)			7.0	2	MC	2-3-5	8	1.5 / 1.5		
10			ML			3	MC	3-3-3	6	1.5 / 1.5		2" PVC .01"Slotted pipe
		Increase in fine SAND										
		13.0 - 17.0 Compact, grayish black, nonstratfied, silty fine SAND, wet (ALLUVIUM)			13.0	4	MC	4-4-11	15	1.3 / 1.5		
15			SP-SM			5	MC	10-18-17	35	1.5 / 1.5		bottom of hole
		Boring completed at 17.0 ft.			17.0							
20												
25												
30												
35												
40												

ATD

1 in to 5 ft
DRILLING CONTRACTOR: Cascade
DRILLER: Cody

LOGGED: GLZ
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD 9831065.GPJ GLDR_WA.GDT 2/15/01

RECORD OF BOREHOLE MW-6

SHEET 1 of 1

PROJECT: CF-Seattle
PROJECT NUMBER: 983-1065.810
LOCATION: CF- Seattle

DRILLING METHOD: 4" HSA
DRILLING DATE: 01/10/2001
DRILL RIG: CME-75

DATUM: MSL
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS GRAPHIC
0	4" ID Hollow Stem Auger wolth 140lb drop hammer	0.0 - 3.0 Fine to medium SAND and Gravel (CLEAN FILL)										Well cap and flush mount monument locked
		3.0 - 8.5 Compact, dusky yellowish brown, non-stratified silty fine sand, moist to wet (ALLUVIUM)	SM		3.0	1	MC	9-9-9	18	1.5/1.5		Bentonite seal
5						2	MC	3-3-3	6	1.5/1.5		Filter pack with silica sand
		8.5 - 10.0 Loose, olive gray, weakly stratified, fine sandy SILT, wet (ALLUVIUM)	ML		8.5							
10		10.0 - 17.0 Loose, dark gray, non-stratified, silty fine SAND, wet (ALLUVIUM)			10.0	3	MC	3-4-4	8	1.5/1.5		2" PVC .01"Slotted pipe
		Becoming compact	SM			4	MC	4-5-17	22	1.5/1.5		
15												bottom of hole
		Boring completed at 17.0 ft.			17.0							ATD
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR: Cascade
DRILLER: Cody

LOGGED: GLZ
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD 9831065.GPJ GLDR_WA.GDT 2/15/01

RECORD OF BOREHOLE GP-1

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 2.0 Fill material, concrete, asphalt, gravel, brown and light gray, loose, dry										
		2.0 - 5.0 SW-Sandy with some silt, Brown, Loose, Dry	SW		2.0							
5		5.0 - 9.1 Cl-Low Plasticity Clay, Light Brown, Medium Firm, Moist	CL		5.0	GP-1	GRAB					Sample GP-1(6'-8') collected at 0850 Water sample GP-1 collected at 0910 ▼ Water Level
		9.1 - 12.0 SC-Clayey Sand, Dark Gray to Brown, Loose, Wet	SC		9.1	GP-1	GRAB					Sample GP-1(10'-12') collected at 0900
10		Continued as cored hole. See Drillhole log report.										

1 in to 2 ft
DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP1.GPJ GLDR_WA.GDT 1/21/04

RECORD OF BOREHOLE GP-2

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES NUMBER	SAMPLES TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 1.2 Fill material, concrete, asphalt, gravel, brown and light gray, loose, dry										
		1.2 - 8.0 SW-Sandy with some silt, brown, loose, dry	SW		1.2							
5						GP-2	GRAB					Sample GP-2(6'-8') collected at 0940
		8.0 - 12.0 SC-Clayey sand, dark gray to brown, loose, wet			8.0							Water sample GP-2 collected at 1030 ▼ Water Level
10			SC			GP-2	GRAB					Sample GP-1(10'-12') collected at 0950
		Continued as cored hole. See Drillhole log report.										

1 in to 2 ft

DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP2.GPJ GLDR_WA.GDT 1/21/04

RECORD OF BOREHOLE GP-3

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40); WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 1.6 Fill material, concrete, asphalt, gravel, brown and light gray, loose, dry										
		1.6 - 8.0 SW-Sandy with some silt, brown, loose, dry	SW		1.6							
5						GP-3	GRAB					Sample GP-3(6'-8') collected at 1050
												Water Level ▼
		8.0 - 12.0 SC-Clayey sand, dark gray to brown, loose, (wet at 8.4)	SC		8.0							Water sample GP-3 collected at 1130
10						GP-3	GRAB					Sample GP-3(10'-12') collected at 1055
		Continued as cored hole. See Drillhole log report.										

1 in to 2 ft

DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP3.GPJ GLDR_WA.GDT 1/21/04

RECORD OF BOREHOLE GP-4

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES NUMBER	SAMPLES TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 1.2 Fill material, concrete, asphalt, loose gravel, light to dark brown, loose, dry										
		1.2 - 4.0 SW-Sandy with some silt, brown, Loose, dry	SW		1.2							
5		4.0 - 8.7 Cl-Low Plasticity clay, light brown, medium firm, moist	CL		4.0	GP-2	GRAB					Sample GP-1(6'-8') collected at 1050
		8.7 - 12.0 SC-Clayey sand, dark gray to brown, loose, wet	SC		8.7							Water sample GP-4 collected at 1100 ▼ Water Level
10						GP-2	GRAB					Sample GP-1(10'-12') collected at 1055
		Continued as cored hole. See Drillhole log report.										

1 in to 2 ft
DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP4.GPJ GLDR_WA.GDT 1/21/04

RECORD OF BOREHOLE GP-5

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 1.6 Fill material, concrete, asphalt, gravel, brown and light gray, loose, dry										
		1.6 - 8.9 SW-Sandy with some silt, Brown, Loose, Dry	SW		1.6							
5						GP-2	GRAB					Sample GP-1(6'-8') collected at 1200
		8.9 - 12.0 SC-Clayey Sand, Dark Gray to Brown, Loose, Wet	SC		8.9							Water sample GP-5 collected at 1230
10						GP-2	GRAB					Sample GP-5(10'-12') collected at 1205
		Continued as cored hole. See Drillhole log report.										

Water Level

1 in to 2 ft

DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP5.GPJ GLDR_WA.GDT 1/21/04

RECORD OF BOREHOLE GP-6

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p — W — W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 2.5 Fill material, concrete, asphalt, gravel, brown and light gray, loose, dry. Concrete hit at the end of boring (2.5')			2.5	GP-2	GRAB					Sample GP-6(0'-2.5") collected at 1310. Refusal at 2.5' below ground surface.
5												
10		Continued as cored hole. See Drillhole log report.										

1 in to 2 ft
DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP6.GPJ GLDR_WA.GDT 1/21/04

RECORD OF BOREHOLE GP-7

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES NUMBER	SAMPLES TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 0.5 Concrete										
		0.5 - 4.0 No recovery, rock blocked discrete sampler			0.5							
		4.0 - 8.1 SW-Silty Sand , Brown, light to dark brown, loose to medium, Dry	SM		4.0	GP-7	GRAB					Sample GP-1(6'-8') collected at 1435
						GP-7	GRAB					Water sample collected at 1455 ▼ Water Level
		8.1 - 12.0 SC- Clayey sand , dark gray, loose to medium, wet	SC		8.1							
10						GP-7	GRAB					Sample GP-1(10'-12') collected at 1440
		Continued as cored hole. See Drillhole log report.										

1 in to 2 ft
DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP7.GPJ GLDR_WA.GDT 1/21/04

RECORD OF BOREHOLE GP-8

SHEET 1 of 1

PROJECT: Consolidated Freightways
PROJECT NUMBER: 033-1000.000
LOCATION: Seattle, WA

DRILLING METHOD: Direct Push
DRILLING DATE: 12-02-03
DRILL RIG:

DATUM:
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40); WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS
0	Direct Push	0.0 - 0.5 Concrete										
		0.5 - 7.8 SM-Silty sand, light to dark brown, medium stiff, dry	SM		0.5	GP-2	GRAB					Sample GP-8(6'-8') collected at 1350
												Water sample GP-8 collected at 1410 ▼
		7.8 - 12.0 SC-Clayey Sand, Dark Gray to Brown, Loose, Wet			7.8							
5												
10			SC			GP-2	GRAB					Sample GP-8(10'-12') collected at 1355
		Continued as cored hole. See Drillhole log report.										

Water Level

1 in to 2 ft
DRILLING CONTRACTOR: Cascade Drilling
DRILLER: Cascade Drilling

LOGGED: JK
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD GP8.GPJ GLDR_WA.GDT 1/21/04

APPENDIX B
LABORATORY ANALYTICAL REPORTS

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

July 1988 to October 2014 – Historical Laboratory Reports

Laboratory Analytical Reports
1988-1989

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14 • TACOMA, WASHINGTON 98424 • TELEPHONE (206) 922-2310

Report To: Blymyer Engineers Date: July 14, 1988

Report On: Analysis of Soil & Water Lab No.: A 3593

IDENTIFICATION:

CF/Puget Sound project no. 8818.
Samples submitted on 6-27 & 6-29-88.

ANALYSIS:

Soil Samples:

Lab No.	Client Identification	Total Petroleum Fuel Hydrocarbons (mg/kg)
1	MW-1A 4 - 4.5'	12
2	MW-1B 9 - 9.5'	< 10
3	MW-1C 14 - 14.5'	11
4	MW-2A 4 - 4.5'	13
5	MW-2B 9 - 9.5'	< 10
6	MW-2C 13.5 - 14'	< 10
7	MW-3A 4 - 4.5'	< 10
8	MW-3B 9 - 9.5'	160
9	MW-3C 14 - 14.5'	< 10
10	MW-4A 5'	< 10
11	MW-4B 10'	< 10
12	MW-4C 15'	102
13	MW-5A 5'	4,797
14	MW-5B 10'	15
15	MW-5C 15'	< 10

SOUND ANALYTICAL SERVICES, INC.

Blymyer Engineers
Lab No: A 3593
Page 2
July 14. 1988

Water Samples:

Lab No.	Client Identification	Total Petroleum Fuel Hydrocarbons (mg/l)
16	MW-1 1:35	Bottle broken. no sample
17	MW-2A 1:40	< 1
18	MW-3 1:45	< 1
19	MW-4 1:50	< 1
20	MW-5 1:55	< 1

Lab No.	Client Identification	Total Petroleum Fuel Hydrocarbons (mg/kg)	Oil & Grease (mg/kg)
21	S-1V Soil	3,389	4,274
22	S-1F Soil	2,939	3,383
23	W-1 Water	2,862*	3,812*
24	S-2F Soil	3,187	4,072
25	S-2V Soil	98	193

* - Units are mg/l for water samples.

SOUND ANALYTICAL SERVICES, INC.

Blymyer Engineers
Lab No: A 3593
Page 3
July 14, 1988

Purgeable Halocarbons per Method 601, 40 CFR, Part 136

Contaminant	Concentration (mg/kg) (ppm)		
Lab Sample No. / Client ID	21 S-1V	22 S-1F	23 W-1**
Methylene chloride	< 1	< 1	< 1
1,1-dichloroethylene	< 1	< 1	< 1
1,2-dichloroethane	< 1	< 1	< 1
1,2-transdichloroethylene	< 1	< 1	< 1
Chloroform	< 1	< 1	< 1
1,2-dichloroethane*	< 1	< 1	< 1
Freon	< 1	< 1	< 1
1,1,1-trichloroethane	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1
Carbon Tetrachloride	< 1	< 1	< 1
1,2-dichloropropane	< 1	< 1	< 1
Trans-1,3-dichloropropene	< 1	< 1	< 1
Trichlorethylene	< 1	< 1	< 1
Cis-1,3-dichloropropene*	< 1	< 1	< 1
1,1,2-trichloroethane	< 1	< 1	< 1
Chlorodibromomethane	< 1	< 1	< 1
Bromoform	< 1	< 1	< 1
Tetrachloroethylene	< 1	< 1	< 1
1,1,2,2-tetrachloroethane	< 1	< 1	< 1
Chlorobenzene	< 1	< 1	< 1

* - These halocarbons coelute
** - Units are mg/l for water samples.

SOUND ANALYTICAL SERVICES, INC.

Blymyer Engineers
Lab No: A 3593
Page 4
July 14, 1988

Purgeable Halocarbons per Method 601, 40 CFR, Part 136

Contaminant	Concentration (mg/kg) (ppm)	
Lab Sample No.	24	25
Client ID	S-2F	S-2V
Methylene chloride	< 1	< 1
1,1-dichloroethylene	< 1	< 1
1,2-dichloroethane	< 1	< 1
1,2-transdichloroethylene	< 1	< 1
Chloroform	< 1	< 1
1,2-dichloroethane*	< 1	< 1
Freon	< 1	< 1
1,1,1-trichloroethane	< 1	< 1
Bromodichloromethane	< 1	< 1
Carbon Tetrachloride	< 1	< 1
1,2-dichloropropane	< 1	< 1
Trans-1,3-dichloropropene	< 1	< 1
Trichlorethylene	< 1	< 1
Cis-1,3-dichloropropene*	< 1	< 1
1,1,2-trichloroethane	< 1	< 1
Chlorodibromomethane	< 1	< 1
Bromoform	< 1	< 1
Tetrachloroethylene	< 1	< 1
1,1,2,2-tetrachloroethane	< 1	< 1
Chlorobenzene	< 1	< 1

* - These halocarbons coelute

SOUND ANALYTICAL SERVICES, INC.

Blymyer Engineers
Lab No: A 3593
Page 5
July 14, 1988

Total Metals:

Contaminant — Concentration (mg/kg)

Lab Sample No. / Client ID	21 S-1V	22 S-1F	23 W-1*	24 S-2F	25 S-2V
Arsenic	<0.1	<0.1	<0.1	<0.1	<0.1
Barium	<2	<2	<2	<2	<2
Cadmium	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	9.1	7.2	0.8	9.9	11.3
Lead	14.2	9.9	1.9	11.0	8.6
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	<0.1	<0.1	<0.1	<0.1	<0.1

* - Units are mg/l for water samples.

SOUND ANALYTICAL SERVICES

Brent A Hepner

BRENT HEPNER

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

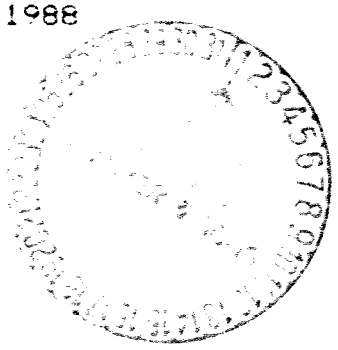
4630 PACIFIC HIGHWAY EAST, SUITE B-14 • TACOMA, WASHINGTON 98424 • TELEPHONE (206) 922 2310

Report To: Blymyer Engineers

Date: July 18, 1988

Report On: Analysis of Water

Lab No: A 3679



IDENTIFICATION:

Samples submitted on 7-12-88
Project No. 8818
CF/Puget Sound, WA
Sample ID: MW-1

ANALYSIS:

Total Petroleum Hydrocarbons, mg/l	< 1.0

Note: Detection limit is 1.0 mg/l.

SOUND ANALYTICAL SERVICES

Brent Hepner

BRENT HEPNER

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

PROJ NO.: 2818
PROJECT NAME: CF-Puget Sound, WA
SAMPLERS: (Signature) Michael S. Lee

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH as diesel	EPA 418.1	EPA 8010 (601)	EPA 8 Metals	on ice	REMARKS
1	6/24/88	11:40		X	S-1V (soil)	1	X	X	X	X	X	
2		11:40		X	S-1F (soil)	1	X	X	X	X	X	
3		11:45		X	W-1 (water)	3	X	X	X	X	X	1 qt., 2-40 ml VOA vials
4		12:05		X	S-2F (soil)	1	X	X	X	X	X	
5	↓	12:05		X	S-2V (soil)	1	X	X	X	X	X	Invoices + reports to:
												Consolidated Freightways c/o Blymyer Engineers 1829 Clement Ave. Alameda, CA 94501

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Michael S. Lee	6/29/88 300 PM	Brent Hepner			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

GT Environmental Laboratories
A division of Groundwater Technology, Inc.

Western Region
4080-C Pike Ln., Concord, CA 94520
(415) 685-7852
In CA: (800) 544-3422
Outside CA: (800) 423-7143

PROJ. NO.: 8818

PROJECT NAME: BCF / Puget Sound, WA

SAMPLERS: (Signature) Mark B. Winters

ANALYSIS TYPE REQUESTED: TPH as Diesel; Oil & ...

I.D. NO.	DATE	TIME	COMP	GRAB	STATION & LOCATION	NO. OF CONTAINERS	TPH as Diesel	Oil ...						REMARKS
MW-1A	6/27/88	9:35		X	Monitor Well 1 (4-4.5')	1	X	X						
MW-1B	↓	9:45		X	Monitor Well 1 (9-9.5')	1	↓	↓						
MW-1C	↓	9:55		X	" " " (14-14.5')	1	↓	↓						
~~MW-1D~~	↓	~~10:05~~		~~X~~	~~—~~	~~1~~								
MW-2A	↓	11:40		X	Monitor Well 2 (4-4.5')	1	↓	↓						
MW-2B	↓	11:50		X	" " " (9-9.5')	1	↓	↓						
MW-2C	↓	12:00		X	" " " (13.5-14')	1	↓	↓						
MW-3A		2:10		X	Monitor Well 3 (4-4.5')	1	↓	↓						
MW-3B		2:20		X	" " " (9-9.5')	1	↓	↓						
MW-3C		2:30		X	" " " (14-14.5')	1	↓	↓						Bill to: Consolidated Freightways c/o Blymyer Engineers 1829 Clement Avenue Alameda, CA 94501

Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
Mark B. Winters	6/27/88	3:25 PM	Michael [illegible]		6/27/88		Brent [illegible]
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:

Relinquished by:	Date	Time	Received by laboratory:	Date	Time	Remarks (Shipping Related):
[illegible]	[illegible]	[illegible]				

GTEL Environmental Laboratories

4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Lewis

Phone #:

Address:

FAX #:

Project Number: 8818

Project Name: CF/Puget Sound, WA

Project Location: 6000 East Marginal Way S., Seattle, WA

Sampler Signature: Mike B. Whitten

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	Matrix: SOIL	Matrix: AIR	Matrix: SLUDGE	Matrix: OTHER	Method Preserved: HCl	Method Preserved: HNO_3	Method Preserved: ICE	Method Preserved: NONE	Method Preserved: OTHER	Sampling: DATE	Sampling: TIME
MW-4A	[illegible]	1			X						X			6/22/88	8:30
MW-4B	[illegible]	1			X						X			↓	8:40
MW-4C	[illegible]	1			X						X			↓	8:50
MW-5A	[illegible]	1			X						X			↓	9:40
MW-5B	[illegible]	1			X						X			↓	9:50
MW-5C	[illegible]	1			X						X			↓	10:00

Sample ID	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	OTHER					PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS
MW-4A			X																									
MW-4B			X																									
MW-4C			X																									
MW-5A			X																									
MW-5B			X																									
MW-5C			X																									

Relinquished by:	Date	Time	Received by:
Mike B. Whitten	6/22/88	[illegible]	[illegible]
Relinquished by: [illegible]	[illegible]	[illegible]	Received by: Brent Kramer
Relinquished by:			Received by Laboratory:

Remarks:

Forward Reports to [illegible] [illegible] [illegible] Engineers [illegible] Ave. [illegible], A [illegible]

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

PROJ NO.	PROJECT NAME
8918	CF / Puget Sound, WA

SAMPLERS: (Signature) Mark B. Winters

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH diesel	REMARKS
~~MW-1~~	~~6/29/88~~	~~1:35~~		X	~~Water~~	1	X	
MW-2A		1:40		X	Water	1	X	
MW-3		1:45		X	Water	1	X	
MW 4		1:50		X	Water	1	X	
MW-5	↓	1:55		X	Water	1	X	
								Invoices & Reports to:
								Consolidated Freightways
								c/o Blymyer Engineers
								1827 Clement Ave
								Alameda CA 94501

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark B. Winters	6/29/88 2:15 PM	Michael S. Lee	~~Brant Nepmer~~		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Michael S. Lee	6/29/88 3:00 PM	Brant Nepmer			
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3– 0605

GTEL Environmental Laboratories

4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Lewis
Phone #: (415) 521-3773

Address: Blymyer Engineers, Inc.
1829 Clement Ave.
Alameda, CA
FAX #: (415) 865-2594

Project Number: 8818
Project Name: CF / Puget Sound, WA

Project Location: 5060 East Marginal Way, Seattle, WA
Sampler Signature:

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	ICE	NONE	OTHER	Sampling: DATE	TIME
MW-1		1		X							X			7/12/00	

ANALYSIS REQUEST

BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD
		X															

OTHER

SPECIAL HANDLING

PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS

Relinquished by	Date	Time	Received by:
[signature]	7/12	12:10	
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:
			[signature] 7/13 10:00

Remarks:

GTEL Environmental Laboratories

4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Lewis
Phone #: (415) 521-3773

Address: Clymer Engineers, Inc. 1829 Clement Ave. Alameda, CA 94501
FAX #: (415) 865-2594

Project Number: 8818
Project Name: CF / Puget Sound, WA

Project Location: 5460 E. Marginal Way S. Seattle, WA
Sampler Signature:

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	ICE	NONE	OTHER	Sampling: DATE	TIME
MW-1		1	1L	X							X			[illegible]	
MW-2A		1	"	X							X			"	
MW-3		1	"	X							X			"	
MW-4		1	"	X							X			"	
MW-5		1	"	X							X			"	
														10/6	

ANALYSIS REQUEST

BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD
		X															
		X															
		X															
		X															
		X															

OTHER

SPECIAL HANDLING

PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS

Relinquished by:	Date	Time	Received by:
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:

Remarks:

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14 • TACOMA, WASHINGTON 98424 • TELEPHONE (206) 922-2310

Report To: Blymyer Engineers

Date: October 1988

Report On: Analysis of Liquids

Lab No: A 4221

IDENTIFICATION:

Project Name: CF/Puget Sound, WA
Project Number: 8818

Samples submitted on 10-12-88

ANALYSIS:

Laboratory Sample No.	Client Identification	Total Petroleum Hydrocarbons, mg/l	Chromium, ppm	Lead, ppm
1	MW-1	< 1	< 0.1	< 0.1
2	MW-2A	< 1	< 0.1	0.1
3	MW-3	< 1	< 0.1	< 0.1
4	MW-4	< 1	< 0.1	< 0.1
5	MW-5	< 1	< 0.1	< 0.1

SOUND ANALYTICAL SERVICES

Brent Hepner

BRENT HEPNER

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

12/08/88 jp Page 1 of 2

WORK ORD#: 8811286
CLIENT: Mark Winters
Groundwater Technology, Inc.
213 S.W. 41st Street
Renton, WA 98055
PROJECT#: 201-710-8000-2
LOCATION: Seattle, WA

SAMPLED: 11/22/88 BY: M. Winters
RECEIVED: 11/23/88 BY: E. Larsen
ANALYZED: 11/28/88 BY: R. Condit
MATRIX: Soil
UNITS: mg/kg (ppm)

TEST RESULTS

COMPOUNDS	MDL	LAB # I.D.#	01A MW-1122-A	02A MW-1122-B	03A MW-1122-C	04A MW-1122-D	05A MW-1122-E
Benzene	0.025		<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Total BTEX	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Misc. Hydrocarbons (C4-C12)	1		170	88	46	78	11
Total Petroleum Hydrocarbons as Gasoline	1		170*	88*	46*	78*	11*

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD:
Modified EPA Method 5030/8020/8015
*Hydrocarbon pattern indicates the presence of diesel fuel.

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#: 8811286
CLIENT: Mark Winters
PROJECT#: 201-710-8000-2
LOCATION: Seattle, WA

MATRIX: Soil
UNITS: mg/kg (ppm)

TEST RESULTS

COMPOUNDS	MDL	LAB # I.D.#	06A MW-1122-F
Benzene	0.025		<0.025
Toluene	0.5		<0.5
Ethylbenzene	0.5		<0.5
Xylenes	0.5		<0.5
Total BTEX	0.5		<0.5
Misc. Hydrocarbons (C4-C12)	1		58
Total Petroleum Hydrocarbons as Gasoline	1		58*

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA Method 5030/8020/8015
*Hydrocarbon pattern indicates the presence of diesel fuel.

Emma P. Popek

EMMA P. POPEK, Director

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

12/05/88 jp

WORK ORD#: 8811287
CLIENT: Mark Winters
Groundwater Technology, Inc.
213 S.W. 41st Street
Renton, WA 98055
PROJECT#: 201-710-8000-3
LOCATION: Seattle, WA

SAMPLED: 11/22/88 BY: M. Winters
RECEIVED: 11/23/88 BY: E. Larsen
ANALYZED: 11/30/88 BY: R. Condit
MATRIX: Soil
UNITS: mg/kg (ppm)

TEST RESULTS

COMPOUNDS	MDL	LAB # I.D.#	01A MW-1122-A	02A MW-1122-B	03A MW-1122-C	04A MW-1122-D	05A MW-1122-E
Total Petroleum Hydrocarbons as Diesel	10		500	350	150	120	<10

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD:
Modified EPA Method 8015

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#:8811287
CLIENT: Mark Winters
PROJECT#: 201-710-8000-3
LOCATION: Seattle, WA

MATRIX: Soil
TEST RESULTS UNITS: mg/kg (ppm)

COMPOUNDS	MDL	LAB # I.D.#	06A MW-1122-F
Total Petroleum Hydrocarbons as Diesel	10		82

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD:
Modified EPA Method 8015

Emma P. Popek

EMMA P. POPEK, Director

GTEL Environmental Laboratories

4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Lewis
Phone #: (415) 521-3773

Address: Brymyer Engineers, Inc. 1829 Clement Ave. Alameda, CA 94501
FAX #: (415) 865-2594

Project Number: 8818
Project Name: CF / Puget Sound, WA

Project Location: 5060 E. Marginal Way S. Seattle, WA
Sampler Signature: Mark Winters

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO3	ICE	NONE	OTHER	Sampling: DATE	TIME
MW-1		2		X							X			2/6/89	
MW-2A		2		X							X				
MW-3		2		X							X				
MW-4		2		X							X				
MW-5		2		X							X				

ANALYSIS REQUEST

BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD
		X															
		X															
		X															
		X															
		X															

OTHER

SPECIAL HANDLING

PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS

Relinquished by:	Date	Time	Received by:
Mark Winters	2/9/89	8:00	
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:
	2/9/89	10:25	

Remarks:
Modified 8015
CC Method - discrimination

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4639 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Blymer Engineers Date: February 17, 1989

Report On: Analysis of Water Lab No.: A 5204

IDENTIFICATION:
Samples Received on 2-9-89
Project Name: CF/Puget Sound, WA
Project Number: 8818

ANALYSIS:

Contaminant Concentration, mg/l

Lab Sample No.	1	2	3	4	5
Client ID	MW-1 #4	MW-2A #2	MW-3 #2	MW-4 #2	MW-5 #2
Total Petroleum Hydrocarbons	< 10	< 10	< 10	< 10	< 10

Analysis Procedures: TPH by SW-846 Method 8015.

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

FEB 16 REC'D

GTEL ENVIRONMENTAL LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

02/13/89 jp

WORK ORD#: 8902112
CLIENT: MARK WINTERS
GROUNDWATER TECHNOLOGY, INC.
19226-66TH AVE.S. SUITE L-109
KENT, WA 98032
PROJECT#: 201-710-8000-4
LOCATION: SEATTLE, WA

SAMPLED: 02/03/89 BY: M. WINTERS
RECEIVED: 02/06/89
ANALYZED: 02/07/89 BY: P. HANNERS

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 MW23A	02 MW23B	03 MW23C	04 MW23D	05 MW23E
Benzene	0.025		<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	0.5		<1.0	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		<1.0	<0.5	<0.5	<0.5	<0.5
Xylenes	0.5		<1.0	<0.5	<0.5	<0.5	<0.5
Total BTEX	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Misc. Hydrocarbons (C4-C12)	1		52	78	18	18	110
Total Petroleum Hydrocarbons as Gasoline	1		52	78	18	18	110

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#: 8902112

CLIENT: MARK WINTERS
PROJECT#: 201-710-8000-4
LOCATION: SEATTLE, WA

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	06 MW23F
Benzene	0.025		<0.025
Toluene	0.5		<0.5
Ethylbenzene	0.5		<0.5
Xylenes	0.5		<0.5
Total BTEX	0.5		<0.5
Misc. Hydrocarbons (C4-C12)	1		41
Total Petroleum Hydrocarbons as Gasoline	1		41

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

Emma P. Popek
EMMA P. POPEK, Laboratory Director

GTEL ENVIRONMENTAL LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

02/08/89MT

FEB 16 REC'D

WORK ORD#: 8902113
CLIENT: MARK WINTERS
GROUNDWATER TECHNOLOGY, INC.
19226-66TH AVE.S. SUITE L-109
KENT, WA 98032
PROJECT#: 201-710-8000-5
LOCATION: SEATTLE, WA

SAMPLED: 02/03/89 BY: M. WINTERS
RECEIVED: 02/06/89
ANALYZED: 02/06/89 BY: C. MANUEL

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 MW23A	02 MW23B	03 MW23C	04 MW23D	05 MW23E
Total Petroleum Hydrocarbons as Diesel	10		170	260	79	<10	120

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 8015

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#: 8902113

CLIENT: MARK WINTERS
PROJECT#: 201-710-8000-5
LOCATION: SEATTLE, WA

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	06 MW23F
Total Petroleum Hydrocarbons as Diesel	10		330

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 8015

Emma P. Popek

EMMA P. POPEK, Laboratory Director

GTEL ENVIRONMENTAL LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#: C903113
CLIENT: MARK WINTERS
GROUNDWATER TECHNOLOGY, INC.
19226-66TH AVE.S. SUITE L-109
KENT, WA 98032
PROJECT#: 201-710-8000-6
LOCATION: 6050 E. MARGINAL WAY, SEATTLE

SAMPLED: 03/06/89 BY: M. WINTERS
RECEIVED: 03/07/89
ANALYZED: 03/08/89 BY: P.HANNERS

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 MW-36A	02 MW-36B	03 MW-36C	04 MW-36D	05 MW-36E
Benzene	0.5		<0.25	<0.025	<0.025	<0.025	<0.025
Toluene	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Total BTEX	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Misc. Hydrocarbons (C4-C12)	1		<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons as Gasoline	1		<1	<1	<1	<1	<1

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#: C903113

CLIENT: MARK WINTERS
PROJECT#: 201-710-8000.
LOCATION: 6050 E. MARGINAL WAY, SEATTLE

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	06 MW-36F
Benzene	0.025		<0.025
Toluene	0.5		<0.5
Ethylbenzene	0.5		<0.5
Xylenes	0.5		<0.5
Total BTEX	0.5		<0.5
Misc. Hydrocarbons (C4-C12)	1		<1
Total Petroleum Hydrocarbons as Gasoline	1		<1

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

Emma P. Popek

EMMA P. POPEK, Laboratory Director

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

MAR 2 2 RECD

03/16/89MT Page 1 of 2

WORK ORD#: C903114
CLIENT: MARK WINTERS
GROUNDWATER TECHNOLOGY, INC.
19226-66TH AVE.S. SUITE L-109
KENT, WA 98032
PROJECT#: 201-710-8000-7
LOCATION: 6050 E. MARGINAL WAY, SEATTLE

SAMPLED: 03/06/89 BY: M. WINTERS
RECEIVED: 03/07/89
ANALYZED: 03/14/89 BY: C. MANUEL

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 MW-36A	02 MW-36B	03 MW-36C	04 MW-36D	05 MW-36E
Total Petroleum Hydrocarbons as Diesel	10		320	280	430	210	190

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 8015

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#: C903114

CLIENT: MARK WINTERS
PROJECT#: 201-710-8000-7
LOCATION: 6050 E. MARGINAL WAY, SEATTLE

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	06 MW-36F
Total Petroleum Hydrocarbons as Diesel	10		150

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 8015

Emma P. Popek

EMMA P. POPEK, Laboratory Director

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

12/06/88mt
CLIENT: Mark Winters
Groundwater Technology, Inc.
213 SW 41st Street
Renton, WA 98055
PROJECT#: 201-710-8000-1
LOCATION: Seattle, WA

SAMPLED: 11/08/88 BY:J. Deschenes
RECEIVED: 11/09/88 BY:K. Fillinger
ANALYZED: 11/22,28,29/88 BY:T. Alusi
MATRIX: Soil

TEST RESULTS

PARAMETER	UNITS	MDL	LAB # / I.D.#	34786 SPB-2	34787 SPB-3		
Ammonium	mg/Kg	0.02		6.3	1.4		
Nitrate	mg/Kg	1		4	1		
Nitrite	mg/Kg	1		<1	<1		
Phosphate	mg/Kg	1		<1	<1		
pH				7.5	4.8		

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD:
Ammonia by SM417E
Nitrate by SM429
Nitrite by SM429
Phosphate by SM429
pH by EPA 9045

Emma P. Popek

EMMA P. POPEK, Director

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

04/10/89 JP PAGE 1 OF 2

WORK ORD#: C903615
CLIENT: MARK WINTERS
GROUNDWATER TECHNOLOGY, INC.
19226-66TH AVE.S. STE.L-109
KENT, WA 98032
PROJECT#: 201-710-8000-8
LOCATION: 6050 MARGINAL WAY S.
SEATTLE, WA
SAMPLED: 03/06/89 BY: M. WINTERS
RECEIVED: 03/07/89* BY: E. LARSEN
ANALYZED: 04/06/89 BY: M. LY
MATRIX: SOIL

TEST RESULTS

PARAMETER	SAMPLE # I.D.	01A MW 36A	02A MW 36B	03A MW 36C	04A MW 36D	05A MW 36E
pH		7.1	7.4	6.6	6.1	7.5

METHOD: EPA 9045

* This additional test was requested by the client on 03/27/89.

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Western Region
4080-C Pike Lane, Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

WORK ORD#:C903615

CLIENT: MARK WINTERS
PROJECT#: 201-710-8000-8
LOCATION: 6050 MARGINAL WAY S.

MATRIX: SOIL

TEST RESULTS

PARAMETER	SAMPLE # I.D.	06A MW 36F
pH		7.2

METHOD: EPA 9045

* This additional test was requested by the client on 03/27/89.

Emma P. Popek.
EMMA P. POPEK, Director

GTEL Environmental Laboratories

4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Lewis
Phone #: 415 521-3773

Address: Blymyer Engineering Inc
1829 Clement Ave
Alameda, CA
FAX #: 415 865-2594

Project Number: 8818
Project Name: CF/Puget Sound, Wa

Project Location: 5060 East Marginal Way, Seattle, Wa.
Sampler Signature: David Blakesley

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO3	ICE	NONE	OTHER	Sampling: DATE	TIME
MW1		1		X							X			5/2	1115
MW2A		1		X							X			5/2	1125
MW3		1		X							X			5/2	1135
MW4		1		X							X			5/2	1145
MW5		1		X							X			5/2	1155

ANALYSIS REQUEST

BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD
		X															
		X															
		X															
		X															
		X															

OTHER

SPECIAL HANDLING

PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS

Relinquished by:	Date	Time	Received by:
David Blakesley	5/2		
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:
			Greg Boem 5/3/89 10:30 AM

Remarks:

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922- 5047

Report To: Blymer Engineers, Inc. Date: May 8, 1989

Report On: Analysis of Water Lab No.: A 6109

IDENTIFICATION:
Samples Received on 5-3-89
Project: 8818 CF/Puget Sound, WA

ANALYSIS:

Laboratory Sample No.	1	2	3
Client Identification	MW 1	MW 2A	MW 3
Total Petroleum Hydrocarbons, mg/l	< 10	< 10	< 10

Laboratory Sample No.	4	5	
Client Identification	MW 4	MW 5	
Total Petroleum Hydrocarbons, mg/l	< 10	< 10	

Analysis Procedures: TPH by EPA Modified Method 8015

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

MAY 17 RECD

GTEL ENVIRONMENTAL LABORATORIES, INC.

Western Region
4080-C Pike Ln., Concord, CA 94520
(415) 685-7852
In CA: (800) 544-3422
Outside CA: (800) 423-7143

05/10/89 jp PAGE 1 OF 1

WORK ORD#:C905093
CLIENT: MARK WINTERS
GROUNDWATER TECHNOLOGY, INC.
19226-66TH AVE.S. SUITE L-109
KENT, WA 98032
PROJECT#: 201-710-8000-9
LOCATION: 6050 E. MARGINAL WY. SEATTLE

SAMPLED: 05/02/89 BY: D. HRABORSKY
RECEIVED: 05/03/89
ANALYZED: 05/08/89 BY: D. VLAHOGIANI

MATRIX: SOIL
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 DH52A	02 DH52C	03 DH52E		
Total Petroleum Hydrocarbons as Diesel	10		170	630	100		

MDL = Method Detection Limit - compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 8015

Emma P. Popek

EMMA P. POPEK, Laboratory Director

GTEL ENVIRONMENTAL LABORATORIES, INC.

Northwest Region
4080 Pike Lane
Concord, CA 94520
(415) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*

JUN 2 2 RECD

06/17/89 JP Page 1 of 1

WORK ORD#: C906188
CLIENT: MARK WINTERS
GROUNDWATER TECHNOLOGY, INC.
19226-68TH AVE.S. SUITE L-109
KENT, WA 98032
PROJECT#: 201-710-000-10
LOCATION: SEATTLE, WA

SAMPLED: 06/08/89 BY: J. DESCHENES
RECEIVED: 06/09/89
ANALYZED: 06/14/89 BY: D. VLAHOGIANI

MATRIX: Soil
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 JD681/JD2	02 JD683/JD	03 JD685/JD6		
Total Petroleum Hydrocarbons as Diesel	10		21	520	<10		

MDL = Method Detection Limit; compound below this level could not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 8015

Emma P. Popek

EMMA P. POPEK, Laboratory Director

GTEL Environmental Laboratories

4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Lewis
Phone #: 415 521-3773

Address: Blymyer Engineering Inc. 1829 Clement Ave Alameda, CA
FAX #: 415 865-2594

Project Number: 8818
Project Name: CF/Puget Sound, Wa

Project Location: 5080 E. Marginal Way Seattle, Wa
Sampler Signature: David Blakesley

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	ICE	NONE	OTHER	Sampling: DATE	TIME
MW 1		1		X							X			8/3	12:40
MW 2A		1		X							X			8/3	12:35
MW 3		1		X							X			8/3	12:55
MW 4		1		X							X			8/3	12:45
MW 5		1		X							X			8/3	12:50

ANALYSIS REQUEST

BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD
		X															
		X															
		X															
		X															
		X															

OTHER

SPECIAL HANDLING

- PRIORITY ONE SERVICE (24 hr)
- EXPEDITED SERVICE (2-4 days)
- VERBALS/FAX
- SPECIAL DETECTION LIMITS (SPECIFY)
- SPECIAL REPORTING REQUIREMENTS

Relinquished by:	Date	Time	Received by:
David Blakesley	8/3		
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:

Remarks:

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922- 5047

Report To: Consolidated Freightways
% Blymer Engineers

Date: August 8, 1989

Report On: Analysis of Liquid

Lab No.: A 7127

IDENTIFICATION:
Samples Received on 8-4-89
Project: 8818, CF/Puget Sound, WA 5060 E. Marginal Way
Seattle, WA

ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Hydrocarbons, mg/l	As Gasoline or Diesel
1	MW1	< 10	----
2	MW2A	< 10	----
3	MW3	< 10	----
4	MW4	< 10	----
5	MW5	< 10	----

SOUND ANALYTICAL SERVICES

C. LARRY ZURAW

GTEL Environmental Laboratories

4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mike Lewis

Phone #: 415 521-3770 3

Address: Blymyer Engineering 1829 Clement Ave, Alameda CA

FAX #: 415 865-2594

Project Number: 8818

Project Name: CF/Seattle

Project Location: 5060 E. Marginal Way Seattle WA

Sampler Signature: David Hrabovsky

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	ICE	NONE	OTHER	Sampling: DATE	TIME
MW1		1		X							X			11/1	
MW2A		1		X							X			11/1	
MW3		1		X							X			11/1	
MW4		1		X							X			11/1	
MW5		1		X							X			11/1	

ANALYSIS REQUEST

BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD
		X															
		X															
		X															
		X															
		X															

OTHER

SPECIAL HANDLING

PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS

Relinquished by:	Date	Time	Received by:
David Hrabovsky	11/2	9:??	SR Giang
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:

Remarks:

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922- 5047

Report To: Consolidated Freightways
% Blymer Engineers

Date: November 6, 1989

Report On: Analysis of Water

Lab No.: 8359

IDENTIFICATION:
Samples Received on 11-02-89
Project: 8818 CF/Seattle, 5060 E. Marginal Way, Seattle, WA

ANALYSIS:

Lab Sample No.	Client ID	Total Petroleum Fuel Hydrocarbons, mg/kg
1	MW1	< 10
2	MW2A	< 10
3	MW3	< 10
4	MW4	< 10
5	MW5	< 10

(TPH by EPA SW-846 Modified Method 8015)

SOUND ANALYTICAL SERVICES

Brent Hepner

BRENT HEPNER

Laboratory Analytical Reports
1998-2003

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East • Tacoma, WA 98424
(253) 922-2310 • FAX (253) 922-5047
e-mail: SoundL@aol.com

TRANSMITTAL MEMORANDUM

DATE: April 23, 1998

TO: Rob Long
Golder Associates
4104 - 148th Avenue N.E.
Redmond, WA 98052

PROJECT: CF/Risk Assessment

REPORT NUMBER: 71921

Enclosed are the test results for twenty-one samples received at Sound Analytical Services on April 9, 1998.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Analytical Narrative: The percent recovery for aromatics (C8-C10) in the VPH blank spike analysis associated with this sample batch exceeded advisory limits. No action was taken based on this outlier. The percent recovery for aliphatics (nC21 - nC34) in the EPH blank spike and matrix spike analyses associated with this sample batch were outside QC limits. The relative percent difference value for aromatics (nC21 - nC34) in the duplicate analysis for sample 71784-1 (batch QC) exceeded QC limits. These outliers may have caused by a baseline anomaly which is inherent to the method. The percent recovery for diesel range organics in the WTPH-D Ext. blank spike analysis was slightly above QC limits. No action was taken based on the acceptable matrix spike and matrix spike duplicate recoveries for this sample set.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Tom Watson
Project Manager

SOUND ANALYTICAL EPH / VPH

VOLATILE PETROLEUM HYDROCARBONS

ALIPHATIC AND AROMATIC FRACTIONS
TARGET INDICATOR COMPOUNDS

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	CF-T1
Lab ID:	71921-01
Date Received:	4/9/98
Date Prepared:	4/20/98
Date Analyzed:	4/20/98
% Solids	89.02

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
a.a.a.-Trifluorotoluene	95		60	140

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
EC 5-6 Aliphatics	ND	1.3	
EC >6-8 Aliphatics	ND	1.7	
EC >8-10 Aliphatics	3.2	2.6	
EC >8-10 Aromatics	7.4	2.1	
MTBE	ND	0.43	
Benzene	ND	0.43	
Toluene	ND	0.43	
Ethylbenzene	ND	0.43	
m- & p-Xylene	ND	0.86	
o-Xylene	ND	0.43	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW2-2.0
Lab ID:	71921-06
Date Received:	4/9/98
Date Prepared:	4/20/98
Date Analyzed:	4/21/98
% Solids	81.3

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
a.a.a.-Trifluorotoluene	68		60	140

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
EC 5-6 Aliphatics	ND	1.4	
EC >6-8 Aliphatics	ND	1.9	
EC >8-10 Aliphatics	ND	2.9	
EC >8-10 Aromatics	ND	2.4	
MTBE	ND	0.48	
Benzene	ND	0.48	
Toluene	ND	0.48	
Ethylbenzene	ND	0.48	
m- & p-Xylene	ND	0.95	
o-Xylene	ND	0.48	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW1-7.0
Lab ID:	71921-08
Date Received:	4/9/98
Date Prepared:	4/20/98
Date Analyzed:	4/21/98
% Solids	73.03

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
a.a.a.-Trifluorotoluene	68		60	140

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
EC 5-6 Aliphatics	ND	1.6	
EC >6-8 Aliphatics	ND	2.2	
EC >8-10 Aliphatics	20	3.2	
EC >8-10 Aromatics	16	2.7	
MTBE	ND	0.54	
Benzene	ND	0.54	
Toluene	ND	0.54	
Ethylbenzene	ND	0.54	
m- & p-Xylene	ND	1.1	
o-Xylene	ND	0.54	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW2-4.0
Lab ID:	71921-13
Date Received:	4/9/98
Date Prepared:	4/20/98
Date Analyzed:	4/21/98
% Solids	93.5

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
a.a.a.-Trifluorotoluene	118		60	140

Sample results are on a dry weight basis.

	Result		
Analyte	**(mg/kg)**	**PQL**	**Flags**
EC 5-6 Aliphatics	ND	1.2	
EC >6-8 Aliphatics	34	1.6	
EC >8-10 Aliphatics	ND	48	D
EC >8-10 Aromatics	630	40	D
MTBE	ND	0.4	
Benzene	ND	0.4	
Toluene	4.4	0.4	
Ethylbenzene	7.4	0.4	
m- & p-Xylene	30	16	D
o-Xylene	18	8	D

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW2-7.0
Lab ID:	71921-14
Date Received:	4/9/98
Date Prepared:	4/20/98
Date Analyzed:	4/21/98
% Solids	72.43

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
a.a.a.-Trifluorotoluene	126		60	140

Sample results are on a dry weight basis.

	Result		
Analyte	**(mg/kg)**	**PQL**	**Flags**
EC 5-6 Aliphatics	ND	1.6	
EC >6-8 Aliphatics	61	2.1	
EC >8-10 Aliphatics	ND	64	D
EC >8-10 Aromatics	490	53	D
MTBE	ND	0.53	
Benzene	ND	0.53	
Toluene	ND	0.53	
Ethylbenzene	4.4	0.53	
m- & p-Xylene	29	21	D
o-Xylene	26	11	D

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB1412
Date Received:	-
Date Prepared:	4/20/98
Date Analyzed:	4/20/98
% Solids	

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
a.a.a.-Trifluorotoluene	78		60	140

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
EC 5-6 Aliphatics	ND	1.2	
EC >6-8 Aliphatics	ND	1.6	
EC >8-10 Aliphatics	ND	2.4	
EC >8-10 Aromatics	ND	2	
MTBE	ND	0.4	
Benzene	ND	0.4	
Toluene	ND	0.4	
Ethylbenzene	ND	0.4	
m- & p-Xylene	ND	0.8	
o-Xylene	ND	0.4	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	MW2-2.0
Lab ID:	71921-06
Date Prepared:	4/20/98
Date Analyzed:	4/21/98
QC Batch ID:	GB1412

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
EC 5-6 Aliphatics	0	0	NC	
EC >6-8 Aliphatics	0	0	NC	
EC >8-10 Aliphatics	0	0	NC	
EC >8-10 Aromatics	0	0	NC	
MTBE	0	0	NC	
Benzene	0	0	NC	
Toluene	0	0	NC	
Ethylbenzene	0	0	NC	
m- & p-Xylene	0	0	NC	
o-Xylene	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID:	MW2-2.0
Lab ID:	71921-06
Date Prepared:	4/20/98
Date Analyzed:	4/20/98
QC Batch ID:	GB1412

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
EC 5-6 Aliphatics	0	9.4	7.5	79	
EC >6-8 Aliphatics	0	4.7	3.9	84	
EC >8-10 Aromatics	0	4.7	6	128	
MTBE	0	4.7	4.7	100	
Benzene	0	4.7	4.7	100	
Toluene	0	4.7	5.2	111	
Ethylbenzene	0	4.7	5.2	110	
m- & p-Xylene	0	9.4	10	109	
o-Xylene	0	4.7	4.6	97	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike Report

Lab ID:	GB1412
Date Prepared:	4/20/98
Date Analyzed:	4/20/98
QC Batch ID:	GB1412

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Parameter Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	Flag
EC 5-6 Aliphatics	0	8	8.1	102	
EC >6-8 Aliphatics	0	4	5.2	130	
EC >8-10 Aromatics	0	4	5.5	137	N
MTBE	0	4	3.9	97	
Benzene	0	4	4.3	107	
Toluene	0	4	4.4	109	
Ethylbenzene	0	4	4.5	113	
m- & p-Xylene	0	8	8.9	111	
o-Xylene	0	4	3.9	98	

SOUND ANALYTICAL EPH / VPH

EXTRACTABLE PETROLEUM HYDROCARBONS

ALIPHATIC AND AROMATIC FRACTIONS

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	CF-T1
Lab ID:	71921-01
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	89.02

Extractable Petroleum Hydrocarbons (EPH)

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Chloro-octadecane	66		60	140
Ortho-terphenyl	77		60	140

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
C8-C10 Aliphatics	10	1.9	
C10-C12 Aliphatics	130	1.9	
C12-C16 Aliphatics	1000	1.9	
C16-C21 Aliphatics	1100	1.9	
C21-C34 Aliphatics	110	3.7	
C10-C12 Aromatics	25	1.9	
C12-C16 Aromatics	270	1.9	
C16-C21 Aromatics	630	3.7	
C21-C34 Aromatics	48	3.7	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW2-2.0
Lab ID:	71921-06
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	81.3

Extractable Petroleum Hydrocarbons (EPH)

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Chloro-octadecane	67		60	140
Ortho-terphenyl	83		60	140

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
C8-C10 Aliphatics	6.3	2	
C10-C12 Aliphatics	32	2	
C12-C16 Aliphatics	270	2	
C16-C21 Aliphatics	310	2	
C21-C34 Aliphatics	410	3.9	
C10-C12 Aromatics	2.7	2	
C12-C16 Aromatics	22	2	
C16-C21 Aromatics	120	3.9	
C21-C34 Aromatics	120	3.9	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW1-7.0
Lab ID:	71921-08
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	73.03

Extractable Petroleum Hydrocarbons (EPH)

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Chloro-octadecane	65		60	140
Ortho-terphenyl	75		60	140

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
C8-C10 Aliphatics	180	2.3	
C10-C12 Aliphatics	1200	2.3	
C12-C16 Aliphatics	5600	2.3	
C16-C21 Aliphatics	4200	2.3	
C21-C34 Aliphatics	750	4.5	
C10-C12 Aromatics	110	2.3	
C12-C16 Aromatics	980	2.3	
C16-C21 Aromatics	2200	4.5	
C21-C34 Aromatics	350	4.5	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW2-4.0
Lab ID:	71921-13
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	93.5

Extractable Petroleum Hydrocarbons (EPH)

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Chloro-octadecane	61		60	140
Ortho-terphenyl	62		60	140

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
C8-C10 Aliphatics	330	1.8	
C10-C12 Aliphatics	840	1.8	
C12-C16 Aliphatics	2400	1.8	
C16-C21 Aliphatics	2100	1.8	
C21-C34 Aliphatics	250	3.7	
C10-C12 Aromatics	250	1.8	
C12-C16 Aromatics	920	1.8	
C16-C21 Aromatics	1200	3.7	
C21-C34 Aromatics	100	3.7	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW2-7.0
Lab ID:	71921-14
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	72.43

Extractable Petroleum Hydrocarbons (EPH)

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
Chloro-octadecane	67		60	140
Ortho-terphenyl	69		60	140

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
C8-C10 Aliphatics	280	2.3	
C10-C12 Aliphatics	670	2.3	
C12-C16 Aliphatics	1900	2.3	
C16-C21 Aliphatics	1700	2.3	
C21-C34 Aliphatics	240	4.5	
C10-C12 Aromatics	180	2.3	
C12-C16 Aromatics	680	2.3	
C16-C21 Aromatics	1000	4.5	
C21-C34 Aromatics	88	4.5	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - EP044
Date Received:	-
Date Prepared:	4/14/98
Date Analyzed:	4/21/98
% Solids	

Extractable Petroleum Hydrocarbons (EPH)

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Chloro-octadecane	79		60	140
Ortho-terphenyl	101		60	140

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
C8-C10 Aliphatics	ND	2.5	
C10-C12 Aliphatics	ND	2.5	
C12-C16 Aliphatics	ND	2.5	
C16-C21 Aliphatics	ND	2.5	
C21-C34 Aliphatics	ND	5	
C10-C12 Aromatics	ND	2.5	
C12-C16 Aromatics	ND	2.5	
C16-C21 Aromatics	ND	5	
C21-C34 Aromatics	ND	5	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike Report

Lab ID:	EP044
Date Prepared:	4/14/98
Date Analyzed:	4/21/98
QC Batch ID:	EP044

Extractable Petroleum Hydrocarbons (EPH)

Parameter Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	Flag
C8-C10 Aliphatics	0	20	22	111	
C10-C12 Aliphatics	0	20	21	105	
C12-C16 Aliphatics	0	20	22	112	
C16-C21 Aliphatics	0	20	26	130	
C21-C34 Aliphatics	0	20	42	209	N
C10-C12 Aromatics	0	20	21	104	
C12-C16 Aromatics	0	20	21	106	
C16-C21 Aromatics	0	20	21	105	
C21-C34 Aromatics	0	20	17	87	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	C7-1
Lab ID:	71784-01
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
QC Batch ID:	EP044

Extractable Petroleum Hydrocarbons (EPH)

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
C8-C10 Aliphatics	16	15	6.5	
C10-C12 Aliphatics	41	50	20.0	
C12-C16 Aliphatics	170	210	21.0	
C16-C21 Aliphatics	190	240	23.0	
C21-C34 Aliphatics	42	54	25.0	
C10-C12 Aromatics	7	7.5	6.9	
C12-C16 Aromatics	51	56	9.3	
C16-C21 Aromatics	150	190	24.0	
C21-C34 Aromatics	17	32	61.0	N

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID:	C7-1
Lab ID:	71784-01
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
QC Batch ID:	EP044M

Extractable Petroleum Hydrocarbons (EPH)

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
C8-C10 Aliphatics	16	20	32	79	
C10-C12 Aliphatics	41	20	58	83	
C12-C16 Aliphatics	170	20	190	90	
C16-C21 Aliphatics	190	20	220	142	X7a
C21-C34 Aliphatics	42	20	85	212	N
C10-C12 Aromatics	7	20	24	85	
C12-C16 Aromatics	51	20	67	76	
C16-C21 Aromatics	150	20	180	150	X7a
C21-C34 Aromatics	17	20	68	251	X7

SOUND ANALYTICAL EPA 8270 MOD.

EXTRACTABLE PETROLEUM HYDROCARBONS

TARGET PAH COMPOUNDS

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	CF-T1
Lab ID:	71921-01
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
% Solids	89.02
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	118		50	150

Sample results are on a dry weight basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Naphthalene	ND		0.021	0.015	
2-Methylnaphthalene	ND		0.02	0.013	
Acenaphthylene	ND		0.018	0.014	
Acenaphthene		0.21	0.015	0.013	
Fluorene		0.21	0.012	0.011	
Phenanthrene	ND		0.011	0.01	
Anthracene	ND		0.013	0.012	
Fluoranthene		0.21	0.01	0.0086	
Pyrene		0.68	0.0095	0.0082	
Benzo(a)anthracene		0.052	0.0073	0.0065	
Chrysene		0.097	0.0095	0.008	
Benzo(b)fluoranthene	ND		0.0092	0.0077	
Benzo(k)fluoranthene	ND		0.013	0.012	
Benzo(a)pyrene	ND		0.007	0.0061	
Indeno(1,2,3-cd)pyrene	ND		0.012	0.012	
Dibenz(a,h)anthracene	ND		0.0098	0.0083	
Benzo(g,h,i)perylene	ND		0.011	0.0092	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW2-2.0
Lab ID:	71921-06
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
% Solids	81.3
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	71		50	150

Sample results are on a dry weight basis.

Analyte		**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
Naphthalene		0.049	0.022	0.016	
2-Methylnaphthalene		0.14	0.021	0.014	
Acenaphthylene	ND		0.019	0.015	
Acenaphthene		0.071	0.016	0.014	
Fluorene		0.15	0.013	0.012	
Phenanthrene		0.22	0.012	0.011	
Anthracene		0.12	0.014	0.013	
Fluoranthene		0.18	0.011	0.0092	
Pyrene		0.19	0.01	0.0087	
Benzo(a)anthracene		0.06	0.0077	0.0069	
Chrysene		0.17	0.01	0.0085	
Benzo(b)fluoranthene		0.063	0.0098	0.0082	
Benzo(k)fluoranthene		0.047	0.014	0.013	
Benzo(a)pyrene		0.049	0.0074	0.0065	
Indeno(1,2,3-cd)pyrene	ND		0.013	0.012	
Dibenz(a,h)anthracene	ND		0.01	0.0088	
Benzo(g,h,i)perylene		0.033	0.011	0.0098	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW1-7.0
Lab ID:	71921-08
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
% Solids	73.03
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	113		50	150

Sample results are on a dry weight basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Naphthalene		6.2	0.025	0.018	
2-Methylnaphthalene		34	0.12	0.016	D
Acenaphthylene	ND		0.022	0.017	
Acenaphthene		1.8	0.019	0.016	
Fluorene		2.5	0.015	0.013	
Phenanthrene		7	0.013	0.012	
Anthracene		2.2	0.016	0.015	
Fluoranthene	ND		0.012	0.011	
Pyrene		0.62	0.012	0.01	
Benzo(a)anthracene		0.094	0.0089	0.008	
Chrysene	ND		0.012	0.0098	
Benzo(b)fluoranthene	ND		0.011	0.0094	
Benzo(k)fluoranthene	ND		0.016	0.015	
Benzo(a)pyrene	ND		0.0085	0.0074	
Indeno(1,2,3-cd)pyrene	ND		0.015	0.014	
Dibenz(a,h)anthracene	ND		0.012	0.01	
Benzo(g,h,i)perylene	ND		0.013	0.011	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW2-4.0
Lab ID:	71921-13
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
% Solids	93.5
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	102		50	150

Sample results are on a dry weight basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Naphthalene		8.1	0.021	0.015	
2-Methylnaphthalene		16	0.098	0.013	
Acenaphthylene	ND		0.018	0.014	
Acenaphthene		1.1	0.015	0.013	
Fluorene		1.9	0.012	0.011	
Phenanthrene		4.9	0.011	0.01	
Anthracene	ND		0.013	0.012	
Fluoranthene	ND		0.0098	0.0085	
Pyrene		0.7	0.0094	0.0081	
Benzo(a)anthracene	ND		0.0072	0.0065	
Chrysene	ND		0.0094	0.0079	
Benzo(b)fluoranthene	ND		0.0091	0.0076	
Benzo(k)fluoranthene	ND		0.013	0.012	
Benzo(a)pyrene	ND		0.0069	0.006	
Indeno(1,2,3-cd)pyrene	ND		0.012	0.012	
Dibenz(a,h)anthracene	ND		0.0097	0.0082	
Benzo(g,h,i)perylene	ND		0.011	0.0091	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW2-7.0
Lab ID:	71921-14
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
% Solids	72.43
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	89		50	150

Sample results are on a dry weight basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Naphthalene		6.5	0.025	0.018	
2-Methylnaphthalene		11	0.12	0.016	
Acenaphthylene	ND		0.022	0.017	
Acenaphthene		0.93	0.019	0.016	
Fluorene		2	0.015	0.013	
Phenanthrene		3.6	0.013	0.012	
Anthracene	ND		0.016	0.015	
Fluoranthene	ND		0.012	0.011	
Pyrene		0.63	0.012	0.01	
Benzo(a)anthracene	ND		0.0089	0.008	
Chrysene	ND		0.012	0.0098	
Benzo(b)fluoranthene	ND		0.011	0.0094	
Benzo(k)fluoranthene	ND		0.016	0.015	
Benzo(a)pyrene	ND		0.0085	0.0074	
Indeno(1,2,3-cd)pyrene	ND		0.015	0.014	
Dibenz(a,h)anthracene	ND		0.012	0.01	
Benzo(g,h,i)perylene	ND		0.013	0.011	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - EP044
Date Received:	-
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
% Solids	
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	68		50	150

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Naphthalene	ND	0.028	0.02	
2-Methylnaphthalene	ND	0.027	0.018	
Acenaphthylene	ND	0.024	0.019	
Acenaphthene	ND	0.021	0.017	
Fluorene	ND	0.016	0.015	
Phenanthrene	ND	0.015	0.014	
Anthracene	ND	0.018	0.016	
Fluoranthene	ND	0.013	0.012	
Pyrene	ND	0.013	0.011	
Benzo(a)anthracene	ND	0.0098	0.0088	
Chrysene	ND	0.013	0.011	
Benzo(b)fluoranthene	ND	0.012	0.01	
Benzo(k)fluoranthene	ND	0.018	0.016	
Benzo(a)pyrene	ND	0.0094	0.0082	
Indeno(1,2,3-cd)pyrene	ND	0.016	0.016	
Dibenz(a,h)anthracene	ND	0.013	0.011	
Benzo(g,h,i)perylene	ND	0.014	0.012	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike Report

Lab ID:	EP044
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
QC Batch ID:	EP044

Targeted PAH Analytes by Method 8270 Modified.

Parameter Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	Flag
Naphthalene	0	20	15	76	
Acenaphthene	0	20	21	103	
Pyrene	0	20	19	97	
Benzo(g,h,i)perylene	0	20	21	103	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	BATCH QC
Lab ID:	71784-01
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
QC Batch ID:	EP044

Targeted PAH Analytes by Method 8270 Modified.

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Naphthalene	0	0	NC	
2-Methylnaphthalene	1	1.3	26.0	
Acenaphthylene	0	0	NC	
Acenaphthene	0	0	NC	
Fluorene	0.3	0.35	15.0	
Phenanthrene	0.67	1	40.0	
Anthracene	0	0	NC	
Fluoranthene	0	0	NC	
Pyrene	0.053	0.074	33.0	
Benzo(a)anthracene	0	0	NC	
Chrysene	0	0	NC	
Benzo(b)fluoranthene	0	0	NC	
Benzo(k)fluoranthene	0	0	NC	
Benzo(a)pyrene	0	0	NC	
Indeno(1,2,3-cd)pyrene	0	0	NC	
Dibenz(a,h)anthracene	0	0	NC	
Benzo(g,h,i)perylene	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID:	BATCH QC
Lab ID:	71784-01
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
QC Batch ID:	EP044

Targeted PAH Analytes by Method 8270 Modified.

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
Naphthalene	0	20	14	69	
Acenaphthene	0	20	17	85	
Pyrene	0.053	20	19	92	
Benzo(g,h,i)perylene	0	20	20	97	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	CF-T2
Lab ID:	71921-02
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/19/98
% Solids	94.17

Extended Diesel Range by WTPH-D Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	122		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
Diesel (>nC12-nC24)	ND	13	
Heavy Oil (>nC24-nC32)	ND	26	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	CF-T3
Lab ID:	71921-03
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/19/98
% Solids	90.39

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	127		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	20	13	
Heavy Oil (>nC24-nC32)	53	27	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW3-5.0
Lab ID:	71921-04
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/19/98
% Solids	72.51

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	99		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	ND	17	
Heavy Oil (>nC24-nC32)	32	34	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW3-6.5
Lab ID:	71921-05
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/19/98
% Solids	64.55

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	78		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	ND	19	
Heavy Oil (>nC24-nC32)	48	37	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW2-5.5
Lab ID:	71921-07
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/19/98
% Solids	71.88

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-Terphenyl	93		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	18	17	
Heavy Oil (>nC24-nC32)	ND	34	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW1-7.0
Lab ID:	71921-08
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/20/98
% Solids	73.03

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	-	X8	50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	13000	170	
Heavy Oil (>nC24-nC32)	520	340	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW1-7.0D
Lab ID:	71921-09
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/20/98
% Solids	59.86

Extended Diesel Range by WTPH-D Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	-	X8	50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
Diesel (>nC12-nC24)	8800	200	
Heavy Oil (>nC24-nC32)	ND	400	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW1-13
Lab ID:	71921-10
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/20/98
% Solids	77.5

Extended Diesel Range by WTPH-D Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	105		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
Diesel (>nC12-nC24)	18	15	
Heavy Oil (>nC24-nC32)	ND	31	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW1-5.5
Lab ID:	71921-11
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/20/98
% Solids	70.11

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	92		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	ND	18	
Heavy Oil (>nC24-nC32)	ND	35	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW1-7.0
Lab ID:	71921-12
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/20/98
% Solids	71.17

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	88		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	ND	17	
Heavy Oil (>nC24-nC32)	ND	35	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW2-4.0
Lab ID:	71921-13
Date Received:	4/9/98
Date Prepared:	4/16/98
Date Analyzed:	4/21/98
% Solids	93.5

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	-	X8	50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	12000	270	
Heavy Oil (>nC24-nC32)	ND	530	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	71921-15
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	-

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-Terphenyl	96		50	150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC24)	1	0.25	X2
Heavy Oil (>nC24-nC32)	1.1	0.5	X2

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	71921-16
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	-

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-Terphenyl	90		50	150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC24)	2.2	0.26	X2
Heavy Oil (>nC24-nC32)	0.66	0.52	X2

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1
Lab ID:	71921-17
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	-

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	85		50	150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC24)	ND	0.24	
Heavy Oil (>nC24-nC32)	ND	0.47	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-1
Lab ID:	71921-18
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	-

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-Terphenyl	99		50	150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC24)	1.4	0.23	X2
Heavy Oil (>nC24-nC32)	ND	0.47	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-2
Lab ID:	71921-19
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/20/98
% Solids	-

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	91		50	150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC24)	5.4	0.25	X2
Heavy Oil (>nC24-nC32)	0.68	0.5	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	71921-15
Date Received:	4/9/98
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Trifluorotoluene	101		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	71921-16
Date Received:	4/9/98
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
Trifluorotoluene	90		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1
Lab ID:	71921-17
Date Received:	4/9/98
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Trifluorotoluene	103		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-1
Lab ID:	71921-18
Date Received:	4/9/98
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Trifluorotoluene	106		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-2
Lab ID:	71921-19
Date Received:	4/9/98
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Trifluorotoluene	109		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	0.21	0.01	D
Toluene	0.013	0.001	
Ethylbenzene	0.1	0.001	
m,p-Xylenes	0.22	0.02	D
o-Xylene	0.088	0.01	D

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1D
Lab ID:	71921-20
Date Received:	4/9/98
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	104		57	153

Analyte	**Result (mg/L)**	**PQL**	**Flags**
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	TRIP BLANK
Lab ID:	71921-21
Date Received:	4/9/98
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Trifluorotoluene	88		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	71921-15
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/14/98
% Solids	-

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	82		35	114
2 - Fluorobiphenyl	88		43	116
p - Terphenyl - d14	115		33	141

Analyte	Result (ug/L)	PQL	Flags
Naphthalene	ND	0.096	
2-Methylnaphthalene	ND	0.096	
2-Chloronaphthalene	ND	0.096	
Acenaphthylene	ND	0.096	
Acenaphthene	ND	0.096	
Fluorene	ND	0.096	
Phenanthrene	ND	0.096	
Anthracene	ND	0.096	
Fluoranthene	ND	0.096	
Pyrene	ND	0.096	
Benzo(a)anthracene	ND	0.096	
Chrysene	ND	0.096	
Benzo(b)fluoranthene	ND	0.096	
Benzo(k)fluoranthene	ND	0.096	
Benzo(a)pyrene	ND	0.096	
Indeno(1,2,3-cd)pyrene	ND	0.096	
Dibenz(a,h)anthracene	ND	0.096	
Benzo(g,h,i)perylene	ND	0.096	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	71921-16
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/14/98
% Solids	-

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	110		35	114
2 - Fluorobiphenyl	97		43	116
p - Terphenyl - d14	115		33	141

Analyte	Result (ug/L)	PQL	Flags
Naphthalene	ND	0.1	
2-Methylnaphthalene	0.18	0.1	
2-Chloronaphthalene	ND	0.1	
Acenaphthylene	ND	0.1	
Acenaphthene	0.84	0.1	
Fluorene	0.8	0.1	
Phenanthrene	0.72	0.1	
Anthracene	ND	0.1	
Fluoranthene	ND	0.1	
Pyrene	ND	0.1	
Benzo(a)anthracene	ND	0.1	
Chrysene	ND	0.1	
Benzo(b)fluoranthene	ND	0.1	
Benzo(k)fluoranthene	ND	0.1	
Benzo(a)pyrene	ND	0.1	
Indeno(1,2,3-cd)pyrene	ND	0.1	
Dibenz(a,h)anthracene	ND	0.1	
Benzo(g,h,i)perylene	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1
Lab ID:	71921-17
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/14/98
% Solids	-

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	100		35	114
2 - Fluorobiphenyl	94		43	116
p - Terphenyl - d14	102		33	141

Analyte	Result (ug/L)	PQL	Flags
Naphthalene	ND	0.094	
2-Methylnaphthalene	ND	0.094	
2-Chloronaphthalene	ND	0.094	
Acenaphthylene	ND	0.094	
Acenaphthene	ND	0.094	
Fluorene	ND	0.094	
Phenanthrene	ND	0.094	
Anthracene	ND	0.094	
Fluoranthene	ND	0.094	
Pyrene	ND	0.094	
Benzo(a)anthracene	ND	0.094	
Chrysene	ND	0.094	
Benzo(b)fluoranthene	ND	0.094	
Benzo(k)fluoranthene	ND	0.094	
Benzo(a)pyrene	ND	0.094	
Indeno(1,2,3-cd)pyrene	ND	0.094	
Dibenz(a,h)anthracene	ND	0.094	
Benzo(g,h,i)perylene	ND	0.094	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-1
Lab ID:	71921-18
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/14/98
% Solids	-

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	129	X9	35	114
2 - Fluorobiphenyl	115		43	116
p - Terphenyl - d14	120		33	141

Analyte	**Result (ug/L)**	**PQL**	**Flags**
Naphthalene	11	0.093	
2-Methylnaphthalene	26	0.47	D
2-Chloronaphthalene	ND	0.093	
Acenaphthylene	ND	0.093	
Acenaphthene	1.1	0.093	
Fluorene	2.9	0.093	
Phenanthrene	2.5	0.093	
Anthracene	0.15	0.093	
Fluoranthene	ND	0.093	
Pyrene	ND	0.093	
Benzo(a)anthracene	ND	0.093	
Chrysene	ND	0.093	
Benzo(b)fluoranthene	ND	0.093	
Benzo(k)fluoranthene	ND	0.093	
Benzo(a)pyrene	ND	0.093	
Indeno(1,2,3-cd)pyrene	ND	0.093	
Dibenz(a,h)anthracene	ND	0.093	
Benzo(g,h,i)perylene	ND	0.093	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-2
Lab ID:	71921-19
Date Received:	4/9/98
Date Prepared:	4/14/98
Date Analyzed:	4/14/98
% Solids	-

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	96		35	114
2 - Fluorobiphenyl	39	X9	43	116
p - Terphenyl - d14	110		33	141

Analyte	Result (ug/L)	PQL	Flags
Naphthalene	43	0.49	D
2-Methylnaphthalene	39	0.49	D
2-Chloronaphthalene	ND	0.098	
Acenaphthylene	ND	0.098	
Acenaphthene	1.3	0.098	
Fluorene	2.1	0.098	
Phenanthrene	2.3	0.098	
Anthracene	ND	0.098	
Fluoranthene	ND	0.098	
Pyrene	0.27	0.098	
Benzo(a)anthracene	ND	0.098	
Chrysene	ND	0.098	
Benzo(b)fluoranthene	ND	0.098	
Benzo(k)fluoranthene	ND	0.098	
Benzo(a)pyrene	ND	0.098	
Indeno(1,2,3-cd)pyrene	ND	0.098	
Dibenz(a,h)anthracene	ND	0.098	
Benzo(g,h,i)perylene	ND	0.098	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - DI1521
Date Received:	-
Date Prepared:	4/16/98
Date Analyzed:	4/19/98
% Solids	

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	110		50	150

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	ND	13	
Heavy Oil (>nC24-nC32)	ND	25	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - DI1518
Date Received:	-
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
% Solids	-

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	84		50	150

Analyte	Result (mg/L)	PQL	Flags
Diesel (>nC12-nC24)	ND	0.25	
Heavy Oil (>nC24-nC32)	ND	0.5	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike Report

Lab ID:	DI1521
Date Prepared:	4/16/98
Date Analyzed:	4/19/98
QC Batch ID:	DI1521

Extended Diesel Range by WTPH-D Modified

Parameter Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	Flag
Diesel (>nC12-nC24)	0	250	320	129	N
Heavy Oil (>nC24-nC32)	0	250	280	111	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	DI1518
Date Prepared:	4/14/98
Date Analyzed:	4/15/98
QC Batch ID:	DI1518

Extended Diesel Range by WTPH-D Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
Diesel (>nC12-nC24)	0	5.01	4.97	99.3	4.43	88.5	12	
Heavy Oil (>nC24-nC32)	0	5.01	4.7	93.9	4.21	84.1	11	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	RW1-13
Lab ID:	71921-10
Date Prepared:	4/16/98
Date Analyzed:	4/20/98
QC Batch ID:	DI1521

Extended Diesel Range by WTPH-D Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Diesel (>nC12-nC24)	18	13	32.0	
Heavy Oil (>nC24-nC32)	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:	RW1-13
Lab ID:	71921-10
Date Prepared:	4/16/98
Date Analyzed:	4/20/98
QC Batch ID:	DI1521

Extended Diesel Range by WTPH-D Modified

Compound Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	MSD Result (mg/kg)	MSD % Rec.	RPD	Flag
Diesel (>nC12-nC24)	18	319	292	85.8	367	109	24	
Heavy Oil (>nC24-nC32)	0	319	256	80.3	301	94.3	16	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB1408
Date Received:	-
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Trifluorotoluene	92		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB1413
Date Received:	-
Date Prepared:	4/20/98
Date Analyzed:	4/20/98
% Solids	-

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Trifluorotoluene	104		57	153

Analyte	Result (mg/L)	PQL	Flags
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethylbenzene	ND	0.001	
m,p-Xylenes	ND	0.002	
o-Xylene	ND	0.001	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	GB1408
Date Prepared:	4/15/98
Date Analyzed:	4/15/98
QC Batch ID:	GB1408

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
Benzene	0	0.025	0.0202	80.9	0.0206	82.3	1.7	
Toluene	0	0.025	0.0234	93.4	0.0271	109	15	
Ethylbenzene	0	0.025	0.026	104	0.0258	103	0.97	
m,p-Xylenes	0	0.05	0.0542	108	0.059	118	8.8	
o-Xylene	0	0.025	0.026	104	0.0274	110	5.6	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	GB1413
Date Prepared:	4/20/98
Date Analyzed:	4/20/98
QC Batch ID:	GB1413

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
Benzene	0	0.025	0.0229	91.6	0.0224	89.6	2.2	
Toluene	0	0.025	0.0228	91.2	0.0222	88.8	2.7	
Ethylbenzene	0	0.025	0.0228	91.2	0.0222	88.8	2.7	
m,p-Xylenes	0	0.05	0.0432	86.4	0.0422	84.4	2.3	
o-Xylene	0	0.025	0.0224	89.6	0.0218	87.2	2.7	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - SV1905
Date Received:	-
Date Prepared:	4/14/98
Date Analyzed:	4/14/98
% Solids	-

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	94		35	114
2 - Fluorobiphenyl	89		43	116
p - Terphenyl - d14	97		33	141

Analyte	Result (ug/L)	PQL	Flags
Naphthalene	ND	0.1	
2-Methylnaphthalene	ND	0.1	
2-Chloronaphthalene	ND	0.1	
Acenaphthylene	ND	0.1	
Acenaphthene	ND	0.1	
Fluorene	ND	0.1	
Phenanthrene	ND	0.1	
Anthracene	ND	0.1	
Fluoranthene	ND	0.1	
Pyrene	ND	0.1	
Benzo(a)anthracene	ND	0.1	
Chrysene	ND	0.1	
Benzo(b)fluoranthene	ND	0.1	
Benzo(k)fluoranthene	ND	0.1	
Benzo(a)pyrene	ND	0.1	
Indeno(1,2,3-cd)pyrene	ND	0.1	
Dibenz(a,h)anthracene	ND	0.1	
Benzo(g,h,i)perylene	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE: (253) 922-2310 - FAX: (253) 922-5047

DATA QUALIFIERS AND ABBREVIATIONS

This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq 40\%$.

Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be $> 40\%$. The higher result was reported unless anomalies were noted.

GC/MS confirmation was performed. The result derived from the original analysis was reported.

The reported result for this analyte was calculated based on a secondary dilution factor.

The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.

The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

: Maximum Contaminant Level

: Method Detection Limit

See analytical narrative.

Not Detected

: Practical Quantitation Limit

Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____ .

Contaminant does not appear to be "typical" product.

Identification and quantitation of the analyte or surrogate was complicated by matrix interference.

RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.

: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

Matrix spike recovery was not determined due to the required dilution.

Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.

: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.

a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.

: Surrogate recovery was not determined due to the required dilution.

: Surrogate recovery outside advisory QC limits due to matrix interference.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

Tacoma, Washington 98424
(253) 922-2310 • FAX (253) 922-5047

6 71921

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: Golder Associates
PROJECT NAME: CF/Risk Assessment
CONTACT: Rob Long
PHONE NO: 425 883-0777

LAB #	SAMPLE I.D.	DATE	TIME	MATRIX	# of Containers	Halogenated Volatiles EPA 601/8010	Aromatic Volatiles EPA 602/8020	Chlorinated Pest., PCB's EPA 608/8080	PAH's	Volatile Organics EPA 624/8240 (GC/MS)	Semi-volatiles EPA625/8270 (GC/MS)	TPH 418.1	Oil & Grease	Total Metals (Specify below)	TCLP Extraction: 8 Metals	TCLP Extraction: Volatiles	TCLP Extraction: Semi-volatiles	TCLP Extraction: Pesticides & Herbicides	WTPH-Dx	EPH	VPH
1	CF-T1	4-7-98	0718	Soil	1															✓	✓
2	CF-T2	"	0725	"	1														✓		
3	CF-T3	"	0740	"	1														✓		
4	MW3-5.0	"	0903	"	1														✓		
5	MW3-6.5	"	0906	"	1														✓		
6	MW2-2.0	"	1015	"	2															✓	✓
7	MW2-5.5	"	1027	"	1														✓		
8	RW1-7.0	"	1207	"	2														✓	✓	✓
9	RW1-7.0D	"	1207	"	1														✓		
10	RW1-13	"	1216	"	1														✓		
11	MW1-5.5	"	1518	"	1														✓		
12	MW1-7.0	"	1520	"	1														✓		
13	RW2-4.0	4-8-98	0731	"	2														✓	✓	✓
14	RW2-7.0	4-8-98	1750	"	2															✓	✓

ANALYSIS REQUESTED:

	Signature	Printed Name	Firm	Time / Date
Relinquished By		Gary Zimmerman	Golder	1200 4-9-98
Received By	Sam Hansen	Sam Hansen	SHS	1200 4/9/98
Relinquished By	Sam Hansen	Sam Hansen	SHS	1:00 4/9/98
Received By	Qiang	Qiang	SHS	100 4/9/98
Relinquished By				
Received By				

SPECIAL INSTRUCTIONS/COMMENTS:

These samples will be disposed of 45 days after receipt.
Check this box to have samples returned ☐.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

Tacoma, Washington 98424
(253) 922-2310 • FAX (253) 922-5047

11/04/ 5d
11/6, vol

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: Golder Associates
PROJECT NAME: CF/Risk Assessment
CONTACT: Rob Long
PHONE NO: 425 883-0777

LAB #	SAMPLE I.D.	DATE	TIME	MATRIX	# of Containers	Halogenated Volatiles EPA 601/8010	Aromatic Volatiles EPA 602/8020	Chlorinated Pest., PCB's EPA 608/8080	PAH's	Volatile Organics EPA 624/8240 (GC/MS)	Semi-volatiles EPA625/8270 (GC/MS)	TPH 418.1	Oil & Grease	Total Metals (Specify below)	TCLP Extraction: 8 Metals	TCLP Extraction: Volatiles	TCLP Extraction: Semi-volatiles	TCLP Extraction: Pesticides & Herbicides	MTBE-Ox	BETX
15	MW-3	4-8-98	1305	Water	5				✓										✓	✓
16	MW-2	↓	1355	↓	5				✓										✓	✓
17	MW-1		1440		5				✓										✓	✓
18	RW-1		1535		5				✓										✓	✓
19	RW-2		1625		5				✓										✓	✓
20	MW-10		1440	↓	3				~~✓~~	~~✓~~	~~✓~~									✓
21	Trip Blank	↓			1															✓

ANALYSIS REQUESTED:

	Signature	Printed Name	Firm	Time / Date
Relinquished By		Gary Zimmerman	Golder	1200 / 4-9-98
Received By	Sam Hansen	Sam Hansen	SAS	1200 / 4/9/98
Relinquished By	Sam Hansen	Sam Hansen	SAS	1:00 / 4/9/98
Received By	Giang	Giang	SAS	100 / 4-9-98
Relinquished By				
Received By				

SPECIAL INSTRUCTIONS/COMMENTS:

These samples will be disposed of 45 days after receipt.
Check this box to have samples returned ☐.

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 420-9200 ▪ FAX 420-9210
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 906-9200 ▪ FAX 906-9210

ıor Daniel - GTI, Inc. - Renton	Project:	Consolidated Freightways	Sampled: 7/27/98 to 7/29/98
5 South Renton Village Place, Ste 700	Project Number:	101386	Received: 7/29/98
nton, WA 98055	Project Manager:	Stan Haskins	Reported: 8/5/98 15:01

ANALYTICAL REPORT FOR SAMPLES:

mple Description	Laboratory Sample Number	Sample Matrix	Date Sampled
-1	B807557-01	Soil	7/27/98
-2	B807557-02	Soil	7/27/98
-3	B807557-03	Soil	7/27/98
B-1	B807557-04	Soil	7/27/98
B-3	B807557-06	Soil	7/27/98
V-1	B807557-08	Soil	7/27/98
V-2	B807557-09	Soil	7/27/98
V-3	B807557-10	Soil	7/27/98
V-4	B807557-11	Soil	7/27/98
-1	B807557-12	Water	7/27/98
-1	B807557-13	Soil	7/29/98
-2	B807557-14	Soil	7/29/98
-3	B807557-15	Soil	7/29/98

NORTH CREEK ANALYTICAL
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PORTLAND ▪ (503) 906-9200 ▪ FAX 906-9210

or Daniel - GTI, Inc. - Renton	Project:	Consolidated Freightways	Sampled: 7/27/98 to 7/29/98
South Renton Village Place, Ste 700	Project Number:	101386	Received: 7/29/98
nton, WA 98055	Project Manager:	Stan Haskins	Reported: 8/5/98 15:01

Diesel Hydrocarbons (C12-C24) by WTPH-D
North Creek Analytical - Bothell

alyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
-1			B807557-01				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/31/98		410	7970	mg/kg dry	
rogate: Octacosane	"	"	"	50.0-150		89.8	%	1
-2			B807557-02				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/31/98		210	3890	mg/kg dry	
rogate: Octacosane	"	"	"	50.0-150		79.1	%	1
-3			B807557-03				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/31/98		110	2000	mg/kg dry	
rogate: 2-FBP	"	"	"	50.0-150		139	%	
B-1			B807557-04				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/30/98		10.0	72.1	mg/kg dry	
rogate: 2-FBP	"	"	"	50.0-150		72.3	%	
B-3			B807557-06				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/30/98		10.0	ND	mg/kg dry	
rogate: 2-FBP	"	"	"	50.0-150		90.3	%	
/-1			B807557-08				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/31/98		1010	28700	mg/kg dry	
rogate: Octacosane	"	"	"	50.0-150		77.6	%	1
/-2			B807557-09				Soil	
sel Range Hydrocarbons	0780938	7/30/98	8/4/98		10.0	ND	mg/kg dry	
rogate: 2-FBP	"	"	"	50.0-150		86.9	%	
/-3			B807557-10				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/30/98		10.0	ND	mg/kg dry	
rogate: 2-FBP	"	"	"	50.0-150		67.8	%	
/-4			B807557-11				Soil	
sel Range Hydrocarbons	0780938	7/30/98	7/31/98		110	2700	mg/kg dry	
rogate: 2-FBP	"	"	"	50.0-150		143	%	
-1			B807557-12				Water	
sel Range Hydrocarbons	0780990	7/31/98	8/4/98		10.3	138	mg/l	
rogate: Octacosane	"	"	"	50.0-150		75.5	%	1

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

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PORTLAND ▪ (503) 906-9200 ▪ FAX 906-9210

r Daniel - GTI, Inc. - Renton	Project: Consolidated Freightways	Sampled: 7/27/98 to 7/29/98
South Renton Village Place, Ste 700	Project Number: 101386	Received: 7/29/98
on, WA 98055	Project Manager: Stan Haskins	Reported: 8/5/98 15:01

Diesel Hydrocarbons (C12-C24) by WTPH-D
North Creek Analytical - Bothell

lyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
1			B807557-13				Soil	
el Range Hydrocarbons	0780938	7/30/98	7/30/98		10.0	**20.5**	mg/kg dry	
ogate: 2-FBP	"	"	"	*50.0-150*		*73.9*	%	
2			B807557-14				Soil	
el Range Hydrocarbons	0780938	7/30/98	7/31/98		210	**4780**	mg/kg dry	
ogate: Octacosane	"	"	"	*50.0-150*		*81.3*	%	I
3			B807557-15				Soil	
el Range Hydrocarbons	0780938	7/30/98	7/30/98		10.0	ND	mg/kg dry	
ogate: 2-FBP	"	"	"	*50.0-150*		*81.3*	%	

rth Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

y B Chang, Project Manager

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 906-9200 ▪ FAX 906-9210

ıor Daniel - GTI, Inc. - Renton	Project:	Consolidated Freightways	Sampled: 7/27/98 to 7/29/98
5 South Renton Village Place, Ste 700	Project Number:	101386	Received: 7/29/98
nton, WA 98055	Project Manager:	Stan Haskins	Reported: 8/5/98 15:01

Diesel Hydrocarbons (C12-C24) by WTPH-D/Quality Control
North Creek Analytical - Bothell

ıalyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
tch: 0780938	**Date Prepared: 7/30/98**				**Extraction Method: EPA 3550B**					
ank	**0780938-BLK1**									
esel Range Hydrocarbons	7/30/98			**ND**	mg/kg dry	**10.0**				
rrogate: 2-FBP	"	*11.0*		*9.93*	"	*50.0-150*	*90.3*			
S	**0780938-BS1**									
esel Range Hydrocarbons	7/30/98	66.7		62.2	mg/kg dry	60.0-140	93.3			
rrogate: 2-FBP	"	*11.0*		*8.43*	"	*50.0-150*	*76.6*			
ıplicate	**0780938-DUP1**		**B807563-04**							
esel Range Hydrocarbons	7/30/98		ND	ND	mg/kg dry			50.0		
rrogate: 2-FBP	*7/1/98*	*12.2*		*10.4*	"	*50.0-150*	*85.2*			
ıplicate	**0780938-DUP2**		**B807563-01**							
esel Range Hydrocarbons	7/30/98		ND	ND	mg/kg dry			50.0		
rrogate: 2-FBP	"	*11.7*		*8.69*	"	*50.0-150*	*74.3*			
tch: 0780990	**Date Prepared: 7/31/98**				**Extraction Method: EPA 3520C/600 Series**					
ank	**0780990-BLK1**									
esel Range Hydrocarbons	8/3/98			**ND**	mg/l	**0.250**				
rrogate: 2-FBP	"	*0.330*		*0.233*	"	*50.0-150*	*70.6*			
S	**0780990-BS1**									
esel Range Hydrocarbons	8/3/98	2.00		1.88	mg/l	60.0-140	94.0			
rrogate: 2-FBP	"	*0.330*		*0.229*	"	*50.0-150*	*69.4*			
ıplicate	**0780990-DUP1**		**B807583-07**							
esel Range Hydrocarbons	8/3/98		ND	ND	mg/l			44.0		
rrogate: 2-FBP	"	*0.628*		*0.370*	"	*50.0-150*	*58.9*			

rth Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

/ B Chang, Project Manager

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 420-9200 ▪ FAX 420-9210
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 906-9200 ▪ FAX 906-9210

ɔr Daniel - GTI, Inc. - Renton	Project:	Consolidated Freightways	Sampled: 7/27/98 to 7/29/98
South Renton Village Place, Ste 700	Project Number:	101386	Received: 7/29/98
ton, WA 98055	Project Manager:	Stan Haskins	Reported: 8/5/98 15:01

Notes and Definitions

Note

Due to interference from coeluting organic compounds with the primary surrogate, results of the secondary surrogate have been used to control the analysis.

r Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit

Not Reported

Sample results reported on a dry weight basis

ov. Recovery

) Relative Percent Difference

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order # B807557

REPORT TO: Fluor Daniel GTI
ATTENTION: STAN HASKINS
ADDRESS: 555 S Renton Village Place
Renton WA 98055
PHONE: 425-228-9645 FAX:
PROJECT NAME: Consolidated Freightways
PROJECT NUMBER: 101386
SAMPLED BY: CNS

INVOICE TO: Connie Hoffman
ATTENTION: "
ADDRESS: "
P.O. NUMBER: NCA QUOTE #:

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [10 Standard] [7] [5] [4] [3] [2] [1] [Same Day]
Fuels & Hydrocarbon Analyses: [5 Standard] [3-4] [2] [1] [Same Day]
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	Analysis Request: X-WTPH-D	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1.	SP-1	7/27/98 11:34	B807557-01		Soil	1	
2.	SP-2	12:05	-02				
3.	SP-3	3:50	-03				
4.	TPA-1	12:57	-04				
5.	TPA-2	1:00	-05				Hold
6.	TPA-3	3:22	-06				
7.	TPA-4	3:24	-07				Hold
8.	SW-1	12:56	-08				
9.	SW-2	3:21	-09				
10.	SW-3	3:27	-10				

RELINQUISHED BY (Signature): Chris N. Storey DATE: 7/29/98
PRINT NAME: Chris N. Storey FIRM: FDGTI TIME: 1:10
RECEIVED BY (Signature): Ken Wolf DATE: 7/29/98
PRINT NAME: KEN WOLF FIRM: CDEL TIME: 13:30

RELINQUISHED BY (Signature): Ken Wolf DATE: 7/29/98
PRINT NAME: KEN WOLF FIRM: CDEL TIME: 1500
RECEIVED BY (Signature): S. Wideen DATE: 7/29/98
PRINT NAME: S. Wideen FIRM: NCA TIME: 3:00

ADDITIONAL REMARKS:
w/o 10.2

PAGE OF

CREEK ANALYTICAL
Environmental Laboratory Services

East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

Work Order # B807557

REPORT TO: Flour Daniel GTI
ATTENTION: STAN Watkins
ADDRESS: 555 S. Renton Village Place
Renton, WA 98055
PHONE: 425-228-9645 FAX:
PROJECT NAME: Consolidated Freight
PROJECT NUMBER: 101396
SAMPLED BY: CNS

INVOICE TO: Connie Hoffmeyer
ATTENTION:
ADDRESS:
P.O. NUMBER: NCA QUOTE #:

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 Standard | 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: 5 Standard | 3-4 | 2 | 1 | Same Day
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	Analysis Request: WTPH-D	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1	JW-4	7/27/98 3:46	-11	X	Soil	1	
2							
3	TP-1	3:40	-12	X	Water	3	
4							
5	FL-1	7/28/98 10:37	-13	X		1	
6	FL-2	10:42	-14	X		1	
7	FL-3	12:12	-15	X		1	
8							
9							
10							

RELINQUISHED BY (Signature): Chris M. Storey — DATE: 7/29/98
PRINT NAME: Chris M. Storey — FIRM: FDGTI — TIME: 1:10
RELINQUISHED BY (Signature): Ken Wolf — DATE: 7/28/98
PRINT NAME: KEN WOLF — FIRM: C.D&L — TIME: 1500

RECEIVED BY (Signature): Ken Wolf — DATE: 7-29-98
PRINT NAME: KEN WOLF — FIRM: CD&L — TIME: 1330
RECEIVED BY (Signature): S. Wideen — DATE: 7/29/98
PRINT NAME: S. Wideen — FIRM: — TIME: 3:00

ADDITIONAL REMARKS:
W/O 10.2

PAGE OF

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1
Lab ID:	83533-01
Date Received:	8/19/99
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
% Solids	-
Dilution Factor	1

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	101		63	138
Bromofluorobenzene	105		41	157

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
Benzene	ND	0.001	0.00064	
Toluene	ND	0.001	0.00051	
Ethylbenzene	ND	0.001	0.00037	
m&p-Xylene	ND	0.002	0.00063	
o-Xylene	ND	0.001	0.00063	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	83533-02
Date Received:	8/19/99
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
% Solids	-
Dilution Factor	1

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	101		63	138
Bromofluorobenzene	103		41	157

Analyte		**Result (mg/L)**	**PQL**	**MDL**	**Flags**
Benzene	ND		0.001	0.00064	
Toluene	ND		0.001	0.00051	
Ethylbenzene	ND		0.001	0.00037	
m&p-Xylene	ND		0.002	0.00063	
o-Xylene	ND		0.001	0.00063	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	83533-03
Date Received:	8/19/99
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
% Solids	-
Dilution Factor	1

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	101		63	138
Bromofluorobenzene	104		41	157

Analyte		**Result (mg/L)**	**PQL**	**MDL**	**Flags**
Benzene		0.00086	0.001	0.00064	J
Toluene	ND		0.001	0.00051	
Ethylbenzene	ND		0.001	0.00037	
m&p-Xylene	ND		0.002	0.00063	
o-Xylene	ND		0.001	0.00063	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-2
Lab ID:	83533-04
Date Received:	8/19/99
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
% Solids	-
Dilution Factor	1

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	112		63	138
Bromofluorobenzene	106		41	157

Analyte		**Result (mg/L)**	**PQL**	**MDL**	**Flags**
Benzene		0.083	0.001	0.00064	
Toluene	ND		0.001	0.00051	
Ethylbenzene		0.02	0.001	0.00037	
m&p-Xylene		0.043	0.002	0.00063	
o-Xylene		0.0024	0.001	0.00063	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	TRIP BLANK
Lab ID:	83533-05
Date Received:	8/19/99
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
% Solids	-
Dilution Factor	1

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	101		63	138
Bromofluorobenzene	104		41	157

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
Benzene	ND	0.001	0.00064	
Toluene	ND	0.001	0.00051	
Ethylbenzene	ND	0.001	0.00037	
m&p-Xylene	ND	0.002	0.00063	
o-Xylene	ND	0.001	0.00063	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1
Lab ID:	83533-01
Date Received:	8/19/99
Date Prepared:	8/23/99
Date Analyzed:	8/25/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	92		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	0.16	0.24	0.12	J
Motor Oil	0.25	0.48	0.24	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	83533-02
Date Received:	8/19/99
Date Prepared:	8/23/99
Date Analyzed:	8/25/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	94.8		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1.9	0.24	0.12	X1
Motor Oil	0.58	0.48	0.24	

X1 - Chromatogram suggests this might be aged or degraded diesel

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	83533-03
Date Received:	8/19/99
Date Prepared:	8/23/99
Date Analyzed:	8/25/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	96.8		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1.5	0.24	0.12	X2
Motor Oil	1.8	0.48	0.24	X2

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	RW-2
Lab ID:	83533-04
Date Received:	8/19/99
Date Prepared:	8/23/99
Date Analyzed:	8/25/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	94.1		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1.5	0.24	0.12	X2
Motor Oil	0.45	0.48	0.24	J

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB1924
Date Received:	-
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
% Solids	-
Dilution Factor	1

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	98.3		63	138
Bromofluorobenzene	102		41	157

Analyte		**Result (mg/L)**	**PQL**	**MDL**	**Flags**
Benzene	ND		0.001	0.00064	
Toluene	ND		0.001	0.00051	
Ethylbenzene	ND		0.001	0.00037	
m&p-Xylene	ND		0.002	0.00063	
o-Xylene	ND		0.001	0.00063	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	GB1924
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
QC Batch ID:	GB1924

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
Benzene	0	0.025	0.0247	98.7	0.0242	96.9	-1.8	
Toluene	0	0.025	0.0247	98.6	0.0236	94.5	-4.2	
Ethylbenzene	0	0.025	0.0275	110	0.0264	105	-4.7	
m&p-Xylene	0	0.05	0.0533	107	0.0509	102	-4.8	
o-Xylene	0	0.025	0.0224	89.7	0.0212	84.9	-5.5	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	MW-1
Lab ID:	83533-01
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
QC Batch ID:	GB1924

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

Parameter Name	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD %	Flag
Benzene	0	0	NC	
Toluene	0	0	NC	
Ethylbenzene	0	0	NC	
m&p-Xylene	0	0	NC	
o-Xylene	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:	RW-2
Lab ID:	83533-04
Date Prepared:	8/20/99
Date Analyzed:	8/21/99
QC Batch ID:	GB1924

Volatile Aromatic Hydrocarbons by USEPA Method 8021B/5030B Modified

Compound Name	Sample Result (mg/L)	Spike Amount (mg/L)	MS Result (mg/L)	MS % Rec.	MSD Result (mg/L)	MSD % Rec.	RPD	Flag
Benzene	0.083	0.025	0.114	126	0.114	122	-3.2	
Toluene	0.00049	0.025	0.0247	96.9	0.0246	96.5	-0.41	
Ethylbenzene	0.02	0.025	0.0502	120	0.0542	136	13	
m&p-Xylene	0.043	0.05	0.102	119	0.103	121	1.7	
o-Xylene	0.0024	0.025	0.0243	87.7	0.0246	88.7	1.1	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - DI2252
Date Received:	-
Date Prepared:	8/23/99
Date Analyzed:	8/25/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	94		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	ND	0.25	0.13	
Motor Oil	ND	0.5	0.25	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	DI2252
Date Prepared:	8/23/99
Date Analyzed:	8/25/99
QC Batch ID:	DI2252

Diesel and Motor Oil by NWTPH-Dx Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
#2 Diesel	0	5.01	5.12	102	5.37	107	4.8	
Motor Oil	0	4.93	4.61	93.5	4.96	100	6.7	

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE: (253) 922-2310 - FAX: (253) 922-5047

DATA QUALIFIERS AND ABBREVIATIONS

B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq$ 40%.

C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.

M: GC/MS confirmation was performed. The result derived from the original analysis was reported.

D: The reported result for this analyte was calculated based on a secondary dilution factor.

E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

N: See analytical narrative.

ND: Not Detected

PQL: Practical Quantitation Limit

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____ .

X2: Contaminant does not appear to be "typical" product.

X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.

X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.

X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike recovery was not determined due to the required dilution.

X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.

X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.

X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.

X8: Surrogate recovery was not determined due to the required dilution.

X9: Surrogate recovery outside advisory QC limits due to matrix interference.

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East • Tacoma, WA 98424
(253) 922-2310 • FAX (253) 922-5047
e-mail: sainc1@uswest.net

SAS Lab No. 83533

TURNAROUND REQUEST (business days)
Standard (10 days) ___
RUSH: 24 hrs ___ 48 hrs ___ 5 day ___

CHAIN OF CUSTODY/REQUEST FOR LABORATORY ANALYSIS

Client: Golder Associates
Project Name: CF/Investigation/WA 983-1065.650
Contact: Gary Zimmerman
Phone No.: 425 883-0777
Fax No.: 425 882-5498
Email:

Lab Use Only	Sample ID 983	Date	Time	Matrix	# of Containers	Analyses Requested: BTEX	NWTPH-Dx
1	~~MW-2~~ MW-1	8-17-99	1010	W	4	✓	✓
2	~~MW-3~~ MW-2	↓	1108	W	4	✓	✓
3	~~MW-1~~ MW-3		1224	W	4	✓	✓
4	* RW-2	↓	~~1242~~ 1316	W	7	✓	✓
5	Trip Blank	Lab	983		2	✓	

	Signature	Printed Name	Firm	Time/Date
Relinquished By:		Gary Zimmerman	Golder	1050/8-19-99
Received By	Joe Palmquist	Joe Palmquist	SAS	10:50 8-19
Relinquished By:	Joe Palmquist	Joe Palmquist	SAS	11:45 8-19
Received By	F Jespersen	F Jespersen	SAS	8/19/99 338
Relinquished By:				
Received By				

Special Instructions: * Extra VOA's collected from RW-2 for MS/MSD

COC No: 101 6-1

APPENDIX B

LABORATORY ANALYTICAL RESULTS

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-1
Lab ID:	83534-01
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	84.6		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1.2	0.24	0.12	X1
Motor Oil	0.69	0.48	0.24	

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-2
Lab ID:	83534-02
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	81.9		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	0.4	0.24	0.12	X1
Motor Oil	0.28	0.48	0.24	J

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-3
Lab ID:	83534-03
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	75.6		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	0.26	0.24	0.12	X1
Motor Oil	0.59	0.48	0.24	

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-4
Lab ID:	83534-04
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-terphenyl	78.5		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	0.8	0.25	0.13	X1
Motor Oil	0.49	0.51	0.25	J

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-5
Lab ID:	83534-05
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-terphenyl	82.7		50	150

Analyte		Result (mg/L)	PQL	MDL	Flags
#2 Diesel		0.98	0.24	0.12	X1
Motor Oil	ND		0.47	0.24	

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-6
Lab ID:	83534-06
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	84.3		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	1.4	0.24	0.12	X1
Motor Oil	1.8	0.49	0.24	

X1 - Chromatogram suggests this might be aged or degraded diesel

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-7
Lab ID:	83534-07
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	82.1		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	0.72	0.24	0.12	X1
Motor Oil	0.36	0.48	0.24	J

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-8
Lab ID:	83534-08
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	92.9		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	0.26	0.24	0.12	X1
Motor Oil	0.3	0.48	0.24	J

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-9
Lab ID:	83534-09
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	81		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1.2	0.24	0.12	X1
Motor Oil	0.28	0.48	0.24	J

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-10
Lab ID:	83534-10
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/28/99
% Solids	-
Dilution Factor	25

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	84.9		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	29	1.2	0.6	X1
Motor Oil	2.1	2.4	1.2	J

X1 - Chromatogram suggests this might be aged or degraded diesel

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-11
Lab ID:	83534-11
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	81		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	2.5	0.24	0.12	X1
Motor Oil	0.86	0.48	0.24	

X1 - Chromatogram suggests this might be aged or degraded diesel

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-11EB
Lab ID:	83534-12
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	89.4		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	3.3	0.24	0.12	X1
Motor Oil	0.76	0.48	0.24	

X1 - Chromatogram suggests this might be aged or degraded diesel

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-12
Lab ID:	83534-13
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	87		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	0.16	0.24	0.12	J
Motor Oil	0.39	0.48	0.24	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-13
Lab ID:	83534-14
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	83.3		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	0.58	0.24	0.12	X1
Motor Oil	0.33	0.48	0.24	J

X1 - Chromatogram suggests this might be single component contamination

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	GP-14
Lab ID:	83534-15
Date Received:	8/19/99
Date Prepared:	8/25/99
Date Analyzed:	8/28/99
% Solids	-
Dilution Factor	25

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	88.2		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	34	1.2	0.6	
Motor Oil	2.5	2.4	1.2	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - DI2257
Date Received:	-
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
% Solids	-
Dilution Factor	5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	84.1		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	ND	0.25	0.13	
Motor Oil	ND	0.5	0.25	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	DI2257
Date Prepared:	8/25/99
Date Analyzed:	8/27/99
QC Batch ID:	DI2257

Diesel and Motor Oil by NWTPH-Dx Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
#2 Diesel	0	5.01	4.34	86.8	4.57	91.3	5.1	
Motor Oil	0	4.93	4.09	83	4.11	83.3	0.36	

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE: (253) 922-2310 - FAX: (253) 922-5047

DATA QUALIFIERS AND ABBREVIATIONS

B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq 40\%$.

C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be $> 40\%$. The higher result was reported unless anomalies were noted.

M: GC/MS confirmation was performed. The result derived from the original analysis was reported.

D: The reported result for this analyte was calculated based on a secondary dilution factor.

E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

N: See analytical narrative.

ND: Not Detected

PQL: Practical Quantitation Limit

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____ .

X2: Contaminant does not appear to be "typical" product.

X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.

X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.

X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike recovery was not determined due to the required dilution.

X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.

X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.

X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.

X8: Surrogate recovery was not determined due to the required dilution.

X9: Surrogate recovery outside advisory QC limits due to matrix interference.

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East • Tacoma, WA 98424
(253) 922-2310 • FAX (253) 922-5047
e-mail: sainc1@uswest.net

1 of 1

SAS Lab No. 83534

TURNAROUND REQUEST (business days)
Standard (10 days) ____
RUSH: 24 hrs ___ 48 hrs ___ 5 day ___

CHAIN OF CUSTODY/REQUEST FOR LABORATORY ANALYSIS

Client: Golder Associates
Project Name: CF / Investigation / WA 983-1065.600
Contact: Gary Zimmerman
Phone No.: 425 883-0777
Fax No.:
Email:

Analyses Requested

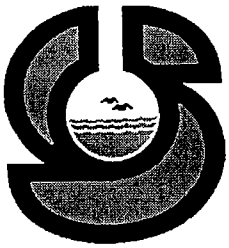
Lab Use Only	Sample ID	Date	Time	Matrix	# of Containers	NWTPH-Dx
1	GP-1	8-18-99	0815	W	1	✓
2	GP-2		0900		1	✓
3	GP-3		0930		1	✓
4	GP-4		1020		1	✓
5	GP-5		1047		1	✓
6	GP-6		1115		1	✓
7	GP-7		1148		1	✓
8	GP-8		1222		1	✓
9	GP-9		1305		1	✓
10	GP-10		1335		1	✓
11	GP-11		1425		1	✓
12	GP-11EB		1430		1	✓
13	GP-12		1458		1	✓
14	GP-13		1527		1	✓
15	GP-14					

	Signature	Printed Name	Firm	Time/Date	Special Instructions
Relinquished By:		Gary Zimmerman	Golder	1050 8-19-99	
Received By	Joe Palmquist	Joe Palmquist	SAS	10:50 8-19	
Relinquished By:	Joe Palmquist	Joe Palmquist	SAS	11:45 8-19	
Received By		F Jespersen	SAS	8/19/99 338	
Relinquished By:					
Received By					

COC No. 6-2,6-3

Page 1 of 1

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East o Tacoma, WA 98424
(253) 922-2310 o FAX (253) 922-5047
e-mail: info@saslab.com



TRANSMITTAL MEMORANDUM

DATE: February 1, 2001

TO: Gary Zimmerman
Golder Associates
18300 NE Union Hill Road, Suite 200
Redmond, WA 98052-3333

PROJECT: CF/GW Inv. 1WA 983-1065

REPORT NUMBER: 95495

Enclosed are the test results for seven samples received at Sound Analytical Services on January 18, 2001.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Tom Watson
Project Manager

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1
Lab ID:	95495-01
Date Received:	1/18/01
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	101		82.5	114
Fluorobenzene	101		83.7	114
Toluene-D8	94.8		91.1	107
Ethylbenzene-d10	90.2		86.6	108
Bromofluorobenzene	99		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	ND	0.4	0.031	
Vinyl chloride	ND	0.4	0.019	
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	0.065	0.4	0.049	J
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	0.062	0.4	0.036	J
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	ND	0.4	0.055	
Bromochloromethane	ND	0.4	0.044	
Chloroform	ND	0.4	0.052	
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	ND	0.4	0.032	
1,2-Dichloroethane	ND	0.4	0.032	
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for 95495-01 continued...

Analyte		Result (ug/L)	PQL	MDL
1,1,2-Trichloroethane	ND		0.4	0.048
Tetrachloroethene	ND		0.4	0.055
1,3-Dichloropropane	ND		0.4	0.028
Dibromochloromethane	ND		0.4	0.048
1,2-Dibromoethane	ND		0.4	0.074
Chlorobenzene	ND		0.4	0.047
Ethylbenzene	ND		0.4	0.032
1,1,1,2-Tetrachloroethane	ND		0.4	0.04
m,p-Xylene	ND		0.8	0.087
o-Xylene	ND		0.4	0.043
Styrene	ND		0.4	0.037
Bromoform	ND		0.4	0.046
Isopropylbenzene	ND		0.4	0.047
Bromobenzene	ND		0.4	0.045
n-Propylbenzene	ND		0.4	0.067
1,1,2,2-Tetrachloroethane	ND		0.4	0.07
1,2,3-Trichloropropane	ND		0.4	0.079
2-Chlorotoluene	ND		0.4	0.054
1,3,5-Trimethylbenzene	ND		0.4	0.047
4-Chlorotoluene	ND		0.4	0.064
t-Butylbenzene	ND		0.4	0.077
1,2,4-Trimethylbenzene	ND		0.4	0.052
sec-Butylbenzene	ND		0.4	0.063
1,3-Dichlorobenzene	ND		0.4	0.057
4-Isopropyltoluene	ND		0.4	0.048
1,4-Dichlorobenzene	ND		0.4	0.055
n-Butylbenzene	ND		0.4	0.053
1,2-Dichlorobenzene	ND		0.4	0.044
1,2-Dibromo-3-chloropropane	ND		0.4	0.13
1,2,4-Trichlorobenzene	ND		0.4	0.085
Hexachlorobutadiene	ND		0.4	0.11
Naphthalene	ND		0.4	0.091
1,2,3-Trichlorobenzene	ND		0.4	0.096

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-6
Lab ID:	95495-02
Date Received:	1/18/01
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	101		82.5	114
Fluorobenzene	101		83.7	114
Toluene-D8	96.8		91.1	107
Ethylbenzene-d10	90.7		86.6	108
Bromofluorobenzene	99.2		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	0.055	0.4	0.031	J
Vinyl chloride	0.38	0.4	0.019	J
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	0.1	0.4	0.049	J
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	0.097	0.4	0.036	J
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	ND	0.4	0.055	
Bromochloromethane	ND	0.4	0.044	
Chloroform	ND	0.4	0.052	
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	0.3	0.4	0.032	J
1,2-Dichloroethane	ND	0.4	0.032	
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for 95495-02 continued...

Analyte		Result (ug/L)	PQL	MDL
1,1,2-Trichloroethane	ND		0.4	0.048
Tetrachloroethene	ND		0.4	0.055
1,3-Dichloropropane	ND		0.4	0.028
Dibromochloromethane	ND		0.4	0.048
1,2-Dibromoethane	ND		0.4	0.074
Chlorobenzene	ND		0.4	0.047
Ethylbenzene	ND		0.4	0.032
1,1,1,2-Tetrachloroethane	ND		0.4	0.04
m,p-Xylene	ND		0.8	0.087
o-Xylene	ND		0.4	0.043
Styrene	ND		0.4	0.037
Bromoform	ND		0.4	0.046
Isopropylbenzene	ND		0.4	0.047
Bromobenzene	ND		0.4	0.045
n-Propylbenzene	ND		0.4	0.067
1,1,2,2-Tetrachloroethane	ND		0.4	0.07
1,2,3-Trichloropropane	ND		0.4	0.079
2-Chlorotoluene	ND		0.4	0.054
1,3,5-Trimethylbenzene	ND		0.4	0.047
4-Chlorotoluene	ND		0.4	0.064
t-Butylbenzene	ND		0.4	0.077
1,2,4-Trimethylbenzene	ND		0.4	0.052
sec-Butylbenzene	ND		0.4	0.063
1,3-Dichlorobenzene	ND		0.4	0.057
4-Isopropyltoluene	ND		0.4	0.048
1,4-Dichlorobenzene	ND		0.4	0.055
n-Butylbenzene	ND		0.4	0.053
1,2-Dichlorobenzene	ND		0.4	0.044
1,2-Dibromo-3-chloropropane	ND		0.4	0.13
1,2,4-Trichlorobenzene	ND		0.4	0.085
Hexachlorobutadiene	ND		0.4	0.11
Naphthalene	ND		0.4	0.091
1,2,3-Trichlorobenzene	ND		0.4	0.096

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-5
Lab ID:	95495-03
Date Received:	1/18/01
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	99.2		82.5	114
Fluorobenzene	99.9		83.7	114
Toluene-D8	96.8		91.1	107
Ethylbenzene-d10	91.9		86.6	108
Bromofluorobenzene	99.6		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	0.096	0.4	0.031	J
Vinyl chloride	ND	0.4	0.019	
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	0.08	0.4	0.049	J
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	0.23	0.4	0.036	J
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	ND	0.4	0.055	
Bromochloromethane	ND	0.4	0.044	
Chloroform	0.088	0.4	0.052	J
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	ND	0.4	0.032	
1,2-Dichloroethane	ND	0.4	0.032	
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for 95495-03 continued...

Analyte	Result (ug/L)	PQL	MDL
1,1,2-Trichloroethane	ND	0.4	0.048
Tetrachloroethene	ND	0.4	0.055
1,3-Dichloropropane	ND	0.4	0.028
Dibromochloromethane	ND	0.4	0.048
1,2-Dibromoethane	ND	0.4	0.074
Chlorobenzene	ND	0.4	0.047
Ethylbenzene	ND	0.4	0.032
1,1,1,2-Tetrachloroethane	ND	0.4	0.04
m,p-Xylene	ND	0.8	0.087
o-Xylene	ND	0.4	0.043
Styrene	ND	0.4	0.037
Bromoform	ND	0.4	0.046
Isopropylbenzene	ND	0.4	0.047
Bromobenzene	ND	0.4	0.045
n-Propylbenzene	ND	0.4	0.067
1,1,2,2-Tetrachloroethane	ND	0.4	0.07
1,2,3-Trichloropropane	ND	0.4	0.079
2-Chlorotoluene	ND	0.4	0.054
1,3,5-Trimethylbenzene	ND	0.4	0.047
4-Chlorotoluene	ND	0.4	0.064
t-Butylbenzene	ND	0.4	0.077
1,2,4-Trimethylbenzene	ND	0.4	0.052
sec-Butylbenzene	ND	0.4	0.063
1,3-Dichlorobenzene	ND	0.4	0.057
4-Isopropyltoluene	ND	0.4	0.048
1,4-Dichlorobenzene	ND	0.4	0.055
n-Butylbenzene	ND	0.4	0.053
1,2-Dichlorobenzene	ND	0.4	0.044
1,2-Dibromo-3-chloropropane	ND	0.4	0.13
1,2,4-Trichlorobenzene	ND	0.4	0.085
Hexachlorobutadiene	ND	0.4	0.11
Naphthalene	ND	0.4	0.091
1,2,3-Trichlorobenzene	ND	0.4	0.096

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-4
Lab ID:	95495-04
Date Received:	1/18/01
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	100		82.5	114
Fluorobenzene	101		83.7	114
Toluene-D8	95.2		91.1	107
Ethylbenzene-d10	91.6		86.6	108
Bromofluorobenzene	102		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	ND	0.4	0.031	
Vinyl chloride	0.48	0.4	0.019	
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	0.087	0.4	0.049	J
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	0.12	0.4	0.036	J
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	0.13	0.4	0.055	J
Bromochloromethane	ND	0.4	0.044	
Chloroform	ND	0.4	0.052	
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	ND	0.4	0.032	
1,2-Dichloroethane	ND	0.4	0.032	
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for 95495-04 continued...

Analyte		Result (ug/L)	PQL	MDL
1,1,2-Trichloroethane	ND		0.4	0.048
Tetrachloroethene	ND		0.4	0.055
1,3-Dichloropropane	ND		0.4	0.028
Dibromochloromethane	ND		0.4	0.048
1,2-Dibromoethane	ND		0.4	0.074
Chlorobenzene	ND		0.4	0.047
Ethylbenzene	ND		0.4	0.032
1,1,1,2-Tetrachloroethane	ND		0.4	0.04
m,p-Xylene	ND		0.8	0.087
o-Xylene	ND		0.4	0.043
Styrene	ND		0.4	0.037
Bromoform	ND		0.4	0.046
Isopropylbenzene	ND		0.4	0.047
Bromobenzene	ND		0.4	0.045
n-Propylbenzene	ND		0.4	0.067
1,1,2,2-Tetrachloroethane	ND		0.4	0.07
1,2,3-Trichloropropane	ND		0.4	0.079
2-Chlorotoluene	ND		0.4	0.054
1,3,5-Trimethylbenzene	ND		0.4	0.047
4-Chlorotoluene	ND		0.4	0.064
t-Butylbenzene	ND		0.4	0.077
1,2,4-Trimethylbenzene	ND		0.4	0.052
sec-Butylbenzene	ND		0.4	0.063
1,3-Dichlorobenzene	ND		0.4	0.057
4-Isopropyltoluene	ND		0.4	0.048
1,4-Dichlorobenzene	ND		0.4	0.055
n-Butylbenzene	ND		0.4	0.053
1,2-Dichlorobenzene	ND		0.4	0.044
1,2-Dibromo-3-chloropropane	ND		0.4	0.13
1,2,4-Trichlorobenzene	ND		0.4	0.085
Hexachlorobutadiene	ND		0.4	0.11
Naphthalene	ND		0.4	0.091
1,2,3-Trichlorobenzene	ND		0.4	0.096

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-13
Lab ID:	95495-05
Date Received:	1/18/01
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	101		82.5	114
Fluorobenzene	100		83.7	114
Toluene-D8	97.3		91.1	107
Ethylbenzene-d10	93.2		86.6	108
Bromofluorobenzene	99.7		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	ND	0.4	0.031	
Vinyl chloride	0.069	0.4	0.019	J
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	ND	0.4	0.049	
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	ND	0.4	0.036	
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	0.084	0.4	0.055	J
Bromochloromethane	ND	0.4	0.044	
Chloroform	ND	0.4	0.052	
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	0.23	0.4	0.032	J
1,2-Dichloroethane	ND	0.4	0.032	
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for 95495-05 continued...

Analyte	Result (ug/L)	PQL	MDL	
1,1,2-Trichloroethane	ND	0.4	0.048	
Tetrachloroethene	ND	0.4	0.055	
1,3-Dichloropropane	ND	0.4	0.028	
Dibromochloromethane	ND	0.4	0.048	
1,2-Dibromoethane	ND	0.4	0.074	
Chlorobenzene	ND	0.4	0.047	
Ethylbenzene	ND	0.4	0.032	
1,1,1,2-Tetrachloroethane	ND	0.4	0.04	
m,p-Xylene	ND	0.8	0.087	
o-Xylene	0.053	0.4	0.043	J
Styrene	ND	0.4	0.037	
Bromoform	ND	0.4	0.046	
Isopropylbenzene	0.058	0.4	0.047	J
Bromobenzene	ND	0.4	0.045	
n-Propylbenzene	ND	0.4	0.067	
1,1,2,2-Tetrachloroethane	ND	0.4	0.07	
1,2,3-Trichloropropane	ND	0.4	0.079	
2-Chlorotoluene	ND	0.4	0.054	
1,3,5-Trimethylbenzene	0.058	0.4	0.047	J
4-Chlorotoluene	ND	0.4	0.064	
t-Butylbenzene	ND	0.4	0.077	
1,2,4-Trimethylbenzene	ND	0.4	0.052	
sec-Butylbenzene	ND	0.4	0.063	
1,3-Dichlorobenzene	ND	0.4	0.057	
4-Isopropyltoluene	ND	0.4	0.048	
1,4-Dichlorobenzene	ND	0.4	0.055	
n-Butylbenzene	ND	0.4	0.053	
1,2-Dichlorobenzene	ND	0.4	0.044	
1,2-Dibromo-3-chloropropane	ND	0.4	0.13	
1,2,4-Trichlorobenzene	ND	0.4	0.085	
Hexachlorobutadiene	ND	0.4	0.11	
Naphthalene	ND	0.4	0.091	
1,2,3-Trichlorobenzene	ND	0.4	0.096	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	95495-06
Date Received:	1/18/01
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	98.9		82.5	114
Fluorobenzene	99.2		83.7	114
Toluene-D8	97.2		91.1	107
Ethylbenzene-d10	94.8		86.6	108
Bromofluorobenzene	101		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	ND	0.4	0.031	
Vinyl chloride	0.084	0.4	0.019	J
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	0.064	0.4	0.049	J
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	ND	0.4	0.036	
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	0.085	0.4	0.055	J
Bromochloromethane	ND	0.4	0.044	
Chloroform	ND	0.4	0.052	
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	0.24	0.4	0.032	J
1,2-Dichloroethane	0.053	0.4	0.032	J
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for 95495-06 continued...

Analyte	Result (ug/L)	PQL	MDL	
1,1,2-Trichloroethane	ND	0.4	0.048	
Tetrachloroethene	ND	0.4	0.055	
1,3-Dichloropropane	ND	0.4	0.028	
Dibromochloromethane	ND	0.4	0.048	
1,2-Dibromoethane	ND	0.4	0.074	
Chlorobenzene	ND	0.4	0.047	
Ethylbenzene	ND	0.4	0.032	
1,1,1,2-Tetrachloroethane	ND	0.4	0.04	
m,p-Xylene	ND	0.8	0.087	
o-Xylene	0.048	0.4	0.043	J
Styrene	ND	0.4	0.037	
Bromoform	ND	0.4	0.046	
Isopropylbenzene	0.064	0.4	0.047	J
Bromobenzene	ND	0.4	0.045	
n-Propylbenzene	ND	0.4	0.067	
1,1,2,2-Tetrachloroethane	ND	0.4	0.07	
1,2,3-Trichloropropane	ND	0.4	0.079	
2-Chlorotoluene	ND	0.4	0.054	
1,3,5-Trimethylbenzene	0.064	0.4	0.047	J
4-Chlorotoluene	ND	0.4	0.064	
t-Butylbenzene	ND	0.4	0.077	
1,2,4-Trimethylbenzene	ND	0.4	0.052	
sec-Butylbenzene	ND	0.4	0.063	
1,3-Dichlorobenzene	ND	0.4	0.057	
4-Isopropyltoluene	ND	0.4	0.048	
1,4-Dichlorobenzene	ND	0.4	0.055	
n-Butylbenzene	ND	0.4	0.053	
1,2-Dichlorobenzene	ND	0.4	0.044	
1,2-Dibromo-3-chloropropane	ND	0.4	0.13	
1,2,4-Trichlorobenzene	ND	0.4	0.085	
Hexachlorobutadiene	ND	0.4	0.11	
Naphthalene	ND	0.4	0.091	
1,2,3-Trichlorobenzene	ND	0.4	0.096	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	95495-07
Date Received:	1/18/01
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	102		82.5	114
Fluorobenzene	101		83.7	114
Toluene-D8	96.3		91.1	107
Ethylbenzene-d10	92.2		86.6	108
Bromofluorobenzene	102		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	ND	0.4	0.031	
Vinyl chloride	0.056	0.4	0.019	J
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	0.089	0.4	0.049	J
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	0.11	0.4	0.036	J
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	ND	0.4	0.055	
Bromochloromethane	ND	0.4	0.044	
Chloroform	ND	0.4	0.052	
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	ND	0.4	0.032	
1,2-Dichloroethane	ND	0.4	0.032	
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for 95495-07 continued...

Analyte	Result (ug/L)	PQL	MDL	
1,1,2-Trichloroethane	ND	0.4	0.048	
Tetrachloroethene	ND	0.4	0.055	
1,3-Dichloropropane	ND	0.4	0.028	
Dibromochloromethane	ND	0.4	0.048	
1,2-Dibromoethane	ND	0.4	0.074	
Chlorobenzene	ND	0.4	0.047	
Ethylbenzene	ND	0.4	0.032	
1,1,1,2-Tetrachloroethane	ND	0.4	0.04	
m,p-Xylene	ND	0.8	0.087	
o-Xylene	0.069	0.4	0.043	J
Styrene	ND	0.4	0.037	
Bromoform	ND	0.4	0.046	
Isopropylbenzene	ND	0.4	0.047	
Bromobenzene	ND	0.4	0.045	
n-Propylbenzene	ND	0.4	0.067	
1,1,2,2-Tetrachloroethane	ND	0.4	0.07	
1,2,3-Trichloropropane	ND	0.4	0.079	
2-Chlorotoluene	ND	0.4	0.054	
1,3,5-Trimethylbenzene	ND	0.4	0.047	
4-Chlorotoluene	ND	0.4	0.064	
t-Butylbenzene	ND	0.4	0.077	
1,2,4-Trimethylbenzene	ND	0.4	0.052	
sec-Butylbenzene	ND	0.4	0.063	
1,3-Dichlorobenzene	ND	0.4	0.057	
4-Isopropyltoluene	ND	0.4	0.048	
1,4-Dichlorobenzene	ND	0.4	0.055	
n-Butylbenzene	ND	0.4	0.053	
1,2-Dichlorobenzene	ND	0.4	0.044	
1,2-Dibromo-3-chloropropane	ND	0.4	0.13	
1,2,4-Trichlorobenzene	ND	0.4	0.085	
Hexachlorobutadiene	ND	0.4	0.11	
Naphthalene	ND	0.4	0.091	
1,2,3-Trichlorobenzene	ND	0.4	0.096	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-1
Lab ID:	95495-01
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	93.5		52	149
2 - Fluorobiphenyl	107		56	127
p - Terphenyl - d14	88		43	145

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Naphthalene	ND	0.08	0.062	
2-Methylnaphthalene	ND	0.08	0.039	
2-Chloronaphthalene	ND	0.08	0.012	
Acenaphthylene	ND	0.08	0.018	
Acenaphthene	ND	0.08	0.018	
Fluorene	ND	0.08	0.03	
Phenanthrene	ND	0.08	0.037	
Anthracene	ND	0.08	0.011	
Fluoranthene	ND	0.08	0.026	
Pyrene	ND	0.08	0.028	
Benzo(a)anthracene	ND	0.08	0.061	
Chrysene	ND	0.08	0.037	
Benzo(b)fluoranthene	ND	0.08	0.023	
Benzo(k)fluoranthene	ND	0.08	0.033	
Benzo(a)pyrene	ND	0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND	0.08	0.013	
Dibenz(a,h)anthracene	ND	0.08	0.03	
Benzo(g,h,i)perylene	ND	0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-6
Lab ID:	95495-02
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	100		52	149
2 - Fluorobiphenyl	96.2		56	127
p - Terphenyl - d14	108		43	145

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Naphthalene	ND	0.08	0.062	
2-Methylnaphthalene	ND	0.08	0.039	
2-Chloronaphthalene	ND	0.08	0.012	
Acenaphthylene	ND	0.08	0.018	
Acenaphthene	ND	0.08	0.018	
Fluorene	ND	0.08	0.03	
Phenanthrene	ND	0.08	0.037	
Anthracene	ND	0.08	0.011	
Fluoranthene	ND	0.08	0.026	
Pyrene	ND	0.08	0.028	
Benzo(a)anthracene	ND	0.08	0.061	
Chrysene	ND	0.08	0.037	
Benzo(b)fluoranthene	ND	0.08	0.023	
Benzo(k)fluoranthene	ND	0.08	0.033	
Benzo(a)pyrene	ND	0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND	0.08	0.013	
Dibenz(a,h)anthracene	ND	0.08	0.03	
Benzo(g,h,i)perylene	ND	0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-5
Lab ID:	95495-03
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	107		52	149
2 - Fluorobiphenyl	102		56	127
p - Terphenyl - d14	118		43	145

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Naphthalene	ND	0.08	0.062	
2-Methylnaphthalene	ND	0.08	0.039	
2-Chloronaphthalene	ND	0.08	0.012	
Acenaphthylene	ND	0.08	0.018	
Acenaphthene	ND	0.08	0.018	
Fluorene	ND	0.08	0.03	
Phenanthrene	ND	0.08	0.037	
Anthracene	ND	0.08	0.011	
Fluoranthene	ND	0.08	0.026	
Pyrene	ND	0.08	0.028	
Benzo(a)anthracene	ND	0.08	0.061	
Chrysene	ND	0.08	0.037	
Benzo(b)fluoranthene	ND	0.08	0.023	
Benzo(k)fluoranthene	ND	0.08	0.033	
Benzo(a)pyrene	ND	0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND	0.08	0.013	
Dibenz(a,h)anthracene	ND	0.08	0.03	
Benzo(g,h,i)perylene	ND	0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-4
Lab ID:	95495-04
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	102		52	149
2 - Fluorobiphenyl	110		56	127
p - Terphenyl - d14	66.1		43	145

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Naphthalene	ND	0.08	0.062	
2-Methylnaphthalene	ND	0.08	0.039	
2-Chloronaphthalene	ND	0.08	0.012	
Acenaphthylene	ND	0.08	0.018	
Acenaphthene	ND	0.08	0.018	
Fluorene	ND	0.08	0.03	
Phenanthrene	ND	0.08	0.037	
Anthracene	ND	0.08	0.011	
Fluoranthene	ND	0.08	0.026	
Pyrene	ND	0.08	0.028	
Benzo(a)anthracene	ND	0.08	0.061	
Chrysene	ND	0.08	0.037	
Benzo(b)fluoranthene	ND	0.08	0.023	
Benzo(k)fluoranthene	ND	0.08	0.033	
Benzo(a)pyrene	ND	0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND	0.08	0.013	
Dibenz(a,h)anthracene	ND	0.08	0.03	
Benzo(g,h,i)perylene	ND	0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-13
Lab ID:	95495-05
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	106		52	149
2 - Fluorobiphenyl	96.4		56	127
p - Terphenyl - d14	83.1		43	145

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Naphthalene	ND	0.08	0.062	
2-Methylnaphthalene	ND	0.08	0.039	
2-Chloronaphthalene	ND	0.08	0.012	
Acenaphthylene	ND	0.08	0.018	
Acenaphthene	ND	0.08	0.018	
Fluorene	ND	0.08	0.03	
Phenanthrene	ND	0.08	0.037	
Anthracene	ND	0.08	0.011	
Fluoranthene	ND	0.08	0.026	
Pyrene	ND	0.08	0.028	
Benzo(a)anthracene	ND	0.08	0.061	
Chrysene	ND	0.08	0.037	
Benzo(b)fluoranthene	ND	0.08	0.023	
Benzo(k)fluoranthene	ND	0.08	0.033	
Benzo(a)pyrene	ND	0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND	0.08	0.013	
Dibenz(a,h)anthracene	ND	0.08	0.03	
Benzo(g,h,i)perylene	ND	0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	95495-06
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
Nitrobenzene - d5	91.8		52	149
2 - Fluorobiphenyl	84.5		56	127
p - Terphenyl - d14	68.9		43	145

Analyte	Result (ug/L)	PQL	MDL	Flags
Naphthalene	ND	0.08	0.062	
2-Methylnaphthalene	ND	0.08	0.039	
2-Chloronaphthalene	ND	0.08	0.012	
Acenaphthylene	ND	0.08	0.018	
Acenaphthene	ND	0.08	0.018	
Fluorene	ND	0.08	0.03	
Phenanthrene	ND	0.08	0.037	
Anthracene	ND	0.08	0.011	
Fluoranthene	ND	0.08	0.026	
Pyrene	ND	0.08	0.028	
Benzo(a)anthracene	ND	0.08	0.061	
Chrysene	ND	0.08	0.037	
Benzo(b)fluoranthene	ND	0.08	0.023	
Benzo(k)fluoranthene	ND	0.08	0.033	
Benzo(a)pyrene	ND	0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND	0.08	0.013	
Dibenz(a,h)anthracene	ND	0.08	0.03	
Benzo(g,h,i)perylene	ND	0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	95495-07
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	88.5		52	149
2 - Fluorobiphenyl	89.5		56	127
p - Terphenyl - d14	90		43	145

Analyte		Result (ug/L)	PQL	MDL	Flags
Naphthalene		0.22	0.08	0.062	
2-Methylnaphthalene	ND		0.08	0.039	
2-Chloronaphthalene	ND		0.08	0.012	
Acenaphthylene	ND		0.08	0.018	
Acenaphthene		0.32	0.08	0.018	
Fluorene		0.32	0.08	0.03	
Phenanthrene		0.47	0.08	0.037	
Anthracene	ND		0.08	0.011	
Fluoranthene	ND		0.08	0.026	
Pyrene	ND		0.08	0.028	
Benzo(a)anthracene	ND		0.08	0.061	
Chrysene	ND		0.08	0.037	
Benzo(b)fluoranthene	ND		0.08	0.023	
Benzo(k)fluoranthene	ND		0.08	0.033	
Benzo(a)pyrene	ND		0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND		0.08	0.013	
Dibenz(a,h)anthracene	ND		0.08	0.03	
Benzo(g,h,i)perylene	ND		0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-6
Lab ID:	95495-02
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/25/01
% Solids	-
Dilution Factor	0.5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	98.8		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	0.23	0.2	0.1	
Motor Oil	0.38	0.4	0.2	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-5
Lab ID:	95495-03
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/25/01
% Solids	-
Dilution Factor	0.5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	90.1		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	0.33	0.2	0.1	
Motor Oil	0.36	0.4	0.2	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-4
Lab ID:	95495-04
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/25/01
% Solids	-
Dilution Factor	0.5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	97		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	0.16	0.2	0.1	J
Motor Oil	0.33	0.4	0.2	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-13
Lab ID:	95495-05
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/25/01
% Solids	-
Dilution Factor	0.5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	105		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	1.6	0.2	0.1	X2
Motor Oil	1.6	0.4	0.2	X2

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-3
Lab ID:	95495-06
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/25/01
% Solids	-
Dilution Factor	0.5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	122		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	1.8	0.2	0.1	X2
Motor Oil	1.8	0.4	0.2	X2

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	MW-2
Lab ID:	95495-07
Date Received:	1/18/01
Date Prepared:	1/24/01
Date Analyzed:	1/25/01
% Solids	-
Dilution Factor	0.5

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	91.1		50	150

Analyte	Result (mg/L)	PQL	MDL	Flags
#2 Diesel	1.5	0.2	0.1	X1
Motor Oil	0.64	0.4	0.2	

X1 - Chromatogram suggests this might be aged or degraded diesel

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - HP0050
Date Received:	-
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030\8260B Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	100		82.5	114
Fluorobenzene	101		83.7	114
Toluene-D8	98.3		91.1	107
Ethylbenzene-d10	96.4		86.6	108
Bromofluorobenzene	102		86.1	110

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Dichlorodifluoromethane	ND	0.4	0.023	
Chloromethane	ND	0.4	0.031	
Vinyl chloride	ND	0.4	0.019	
Bromomethane	ND	0.4	0.05	
Chloroethane	ND	0.4	0.12	
Trichlorofluoromethane	ND	0.4	0.022	
1,1-Dichloroethene	ND	0.4	0.082	
Methylene chloride	ND	0.4	0.049	
trans-1,2-Dichloroethene	ND	0.4	0.052	
1,1-Dichloroethane	ND	0.4	0.036	
2,2-Dichloropropane	ND	0.4	0.075	
cis-1,2-Dichloroethene	ND	0.4	0.055	
Bromochloromethane	ND	0.4	0.044	
Chloroform	ND	0.4	0.052	
1,1,1-Trichloroethane	ND	0.4	0.076	
Carbon Tetrachloride	ND	0.4	0.053	
1,1-Dichloropropene	ND	0.4	0.05	
Benzene	ND	0.4	0.032	
1,2-Dichloroethane	ND	0.4	0.032	
Trichloroethene	ND	0.4	0.06	
1,2-Dichloropropane	ND	0.4	0.05	
Dibromomethane	ND	0.4	0.024	
Bromodichloromethane	ND	0.4	0.032	
cis-1,3-Dichloropropene	ND	0.4	0.037	
Toluene	ND	0.4	0.036	
trans-1,3-Dichloropropene	ND	0.4	0.031	

SOUND ANALYTICAL SERVICES, INC.

Volatile Organics by USEPA Method 5030\8260B Modified data for HP0050 continued...

Analyte	Result (ug/L)	PQL	MDL
1,1,2-Trichloroethane	ND	0.4	0.048
Tetrachloroethene	ND	0.4	0.055
1,3-Dichloropropane	ND	0.4	0.028
Dibromochloromethane	ND	0.4	0.048
1,2-Dibromoethane	ND	0.4	0.074
Chlorobenzene	ND	0.4	0.047
Ethylbenzene	ND	0.4	0.032
1,1,1,2-Tetrachloroethane	ND	0.4	0.04
m,p-Xylene	ND	0.8	0.087
o-Xylene	ND	0.4	0.043
Styrene	ND	0.4	0.037
Bromoform	ND	0.4	0.046
Isopropylbenzene	ND	0.4	0.047
Bromobenzene	ND	0.4	0.045
n-Propylbenzene	ND	0.4	0.067
1,1,2,2-Tetrachloroethane	ND	0.4	0.07
1,2,3-Trichloropropane	ND	0.4	0.079
2-Chlorotoluene	ND	0.4	0.054
1,3,5-Trimethylbenzene	ND	0.4	0.047
4-Chlorotoluene	ND	0.4	0.064
t-Butylbenzene	ND	0.4	0.077
1,2,4-Trimethylbenzene	ND	0.4	0.052
sec-Butylbenzene	ND	0.4	0.063
1,3-Dichlorobenzene	ND	0.4	0.057
4-Isopropyltoluene	ND	0.4	0.048
1,4-Dichlorobenzene	ND	0.4	0.055
n-Butylbenzene	ND	0.4	0.053
1,2-Dichlorobenzene	ND	0.4	0.044
1,2-Dibromo-3-chloropropane	ND	0.4	0.13
1,2,4-Trichlorobenzene	ND	0.4	0.085
Hexachlorobutadiene	ND	0.4	0.11
Naphthalene	ND	0.4	0.091
1,2,3-Trichlorobenzene	ND	0.4	0.096

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	HP0050
Date Prepared:	1/30/01
Date Analyzed:	1/30/01
QC Batch ID:	HP0050

Volatile Organics by USEPA Method 5030\8260B Modified

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % Rec.	RPD	Flag
1,1-Dichloroethene	0	2	1.71	85.6	1.62	80.9	-5.6	
Benzene	0	2	1.94	97.2	1.9	95.1	-2.2	
Trichloroethene	0	2	1.94	97.1	1.92	96.1	-1	
Toluene	0	2	1.91	95.4	1.92	96.2	0.84	
Chlorobenzene	0	2	1.94	97.2	1.94	97.1	-0.1	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - SV3296
Date Received:	-
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	1

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	96.7		52	149
2 - Fluorobiphenyl	89.2		56	127
p - Terphenyl - d14	73.6		43	145

Analyte	**Result (ug/L)**	**PQL**	**MDL**	**Flags**
Naphthalene	ND	0.08	0.062	
2-Methylnaphthalene	ND	0.08	0.039	
2-Chloronaphthalene	ND	0.08	0.012	
Acenaphthylene	ND	0.08	0.018	
Acenaphthene	ND	0.08	0.018	
Fluorene	ND	0.08	0.03	
Phenanthrene	ND	0.08	0.037	
Anthracene	ND	0.08	0.011	
Fluoranthene	ND	0.08	0.026	
Pyrene	ND	0.08	0.028	
Benzo(a)anthracene	ND	0.08	0.061	
Chrysene	ND	0.08	0.037	
Benzo(b)fluoranthene	ND	0.08	0.023	
Benzo(k)fluoranthene	ND	0.08	0.033	
Benzo(a)pyrene	ND	0.08	0.026	
Indeno(1,2,3-cd)pyrene	ND	0.08	0.013	
Dibenz(a,h)anthracene	ND	0.08	0.03	
Benzo(g,h,i)perylene	ND	0.08	0.013	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	SV3296
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
QC Batch ID:	SV3296

Semivolatile Organics by USEPA Method 8270

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % Rec.	RPD	Flag
Acenaphthene	0	8	6.83	85.4	8.15	102	18	
Pyrene	0	8	5.93	74.1	7.2	90	19	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - DI2818
Date Received:	-
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
% Solids	-
Dilution Factor	0.5

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	97.9		50	150

Analyte	**Result (mg/L)**	**PQL**	**MDL**	**Flags**
#2 Diesel	ND	0.2	0.1	
Motor Oil	ND	0.4	0.2	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	DI2818
Date Prepared:	1/24/01
Date Analyzed:	1/24/01
QC Batch ID:	DI2818

Diesel and Motor Oil by NWTPH-Dx Modified

Compound Name	Blank Result (mg/L)	Spike Amount (mg/L)	BS Result (mg/L)	BS % Rec.	BSD Result (mg/L)	BSD % Rec.	RPD	Flag
#2 Diesel	0	4	3.98	99.5	4.48	112	12	
Motor Oil	0	4.01	3.41	85.2	3.56	88.9	4.3	

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
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e-mail: info@saslab.com

DATA QUALIFIERS AND ABBREVIATIONS

B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq 40\%$.

C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be $> 40\%$. The higher result was reported unless anomalies were noted.

M: GC/MS confirmation was performed. The result derived from the original analysis was reported.

D: The reported result for this analyte was calculated based on a secondary dilution factor.

E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

N: See analytical narrative.

ND: Not Detected

PQL: Practical Quantitation Limit

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____ .

X2: Contaminant does not appear to be "typical" product.

X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.

X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.

X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike recovery was not determined due to the required dilution.

X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.

X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.

X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.

X8: Surrogate recovery was not determined due to the required dilution.

X9: Surrogate recovery outside advisory QC limits due to matrix interference.

Sound Analytical Services, Inc.
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email: info@saslab.com

6/2 ea vol

SAS Lab No. 95495

TURNAROUND REQUEST (business days)
Standard (10 days) X
RUSH: 24 hrs ___ 48 hrs ___ 5 day ___

CHAIN OF CUSTODY/REQUEST FOR LABORATORY ANALYSIS

Client: Golder Associates Inc
Project Name: CF|GW Inv. | WA 983-1065
Contact: Gary Zimmerman
Phone No.: 425 883-0777
Fax No.: 425 882-5498
Email:

Analyses Requested

Lab Use Only	Sample ID	Date '01	Time	Matrix	# of Containers	NWTPH Dx	VOA 8260	PAHs 8270
1	MW-1	1-17	1008	W	7	✓	✓	✓
2	MW-6		1215		7	✓	✓	✓
3	MW-5		1310		7	✓	✓	✓
4	MW-4		1407		7	✓	✓	✓
5	MW-13		~~1509~~ 0930		7	✓	✓	✓
6	MW-3		1510		7	✓	✓	✓
7	MW-2		1610		7	✓	✓	✓

	Signature	Printed Name	Firm	Time/Date	Special Instructions
Relinquished By:		Gary Zimmerman	Golder	1030 1/18/01	
Received By		J. Murphy	SAS	11:05 1/18/01	
Relinquished By:				12:30 1/18/01	
Received By	A Strom	A Strom	SAS	1/18/01 1250	
Relinquished By:					
Received By					

COC No. _____

Page 1 of 1

SOUND ANALYTICAL EPH / VPH

VOLATILE PETROLEUM HYDROCARBONS

ALIPHATIC AND AROMATIC FRACTIONS
TARGET INDICATOR COMPOUNDS

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP1-(8-11)
Lab ID:	95381-02
Date Received:	1/12/01
Date Prepared:	1/17/01
Date Analyzed:	1/25/01
% Solids	80.7
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	105		60	140
Bromofluorobenzene	127		60	140

Sample results are on a dry weight basis.

		Result		
Analyte		**(mg/kg)**	**PQL**	**Flags**
MTBE	ND		0.23	
Benzene	ND		0.023	
Toluene		0.094	0.047	
Ethylbenzene		0.22	0.047	
m- & p-Xylene		0.39	0.094	
o-Xylene		0.43	0.047	
Total EC >8-10 Aromatics		15	1.2	
Total EC 5-6 Aliphatics	ND		0.7	
Total EC >6-8 Aliphatics		1.6	0.47	
Total EC >8-10 Aliphatics		17	1.4	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP5-(5-8)
Lab ID:	95381-06
Date Received:	1/12/01
Date Prepared:	1/17/01
Date Analyzed:	1/19/01
% Solids	94.88
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	112		60	140
Bromofluorobenzene	119		60	140

Sample results are on a dry weight basis.

		Result		
Analyte		**(mg/kg)**	**PQL**	**Flags**
MTBE	ND		0.19	
Benzene	ND		0.019	
Toluene		0.25	0.039	
Ethylbenzene		2.9	0.039	
m- & p-Xylene		3.8	0.078	
o-Xylene		2.3	0.039	
Total EC >8-10 Aromatics		98	0.97	D10
Total EC 5-6 Aliphatics	ND		0.58	
Total EC >6-8 Aliphatics		5.2	0.39	
Total EC >8-10 Aliphatics		98	1.2	D10

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP6-(5-8)
Lab ID:	95381-08
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/24/01
% Solids	67.48
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	83.6		60	140
Bromofluorobenzene	87.9		60	140

Sample results are on a dry weight basis.

		Result			
Analyte		**(mg/kg)**		**PQL**	**Flags**
MTBE	ND			0.27	
Benzene	ND			0.027	
Toluene		0.09		0.055	
Ethylbenzene		0.76		0.055	
m- & p-Xylene		1.1		0.11	
o-Xylene		0.88		0.055	
Total EC >8-10 Aromatics		19		1.4	
Total EC 5-6 Aliphatics	ND			0.82	
Total EC >6-8 Aliphatics		3.9		0.55	
Total EC >8-10 Aliphatics		18		1.6	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP8-(5-8)
Lab ID:	95381-10
Date Received:	1/12/01
Date Prepared:	1/17/01
Date Analyzed:	1/19/01
% Solids	89.11
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	240	X9	60	140
Bromofluorobenzene	105		60	140

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
MTBE	ND	0.21	
Benzene	0.16	0.021	
Toluene	1.5	0.042	
Ethylbenzene	18	0.042	D10
m- & p-Xylene	24	0.083	D10
o-Xylene	19	0.042	D10
Total EC >8-10 Aromatics	350	1	D10
Total EC 5-6 Aliphatics	0.86	0.62	
Total EC >6-8 Aliphatics	44	0.42	D10
Total EC >8-10 Aliphatics	310	1.2	D10

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP9-(5-8)
Lab ID:	95381-12
Date Received:	1/12/01
Date Prepared:	1/17/01
Date Analyzed:	1/19/01
% Solids	83.55
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	143	X9	60	140
Bromofluorobenzene	114		60	140

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
MTBE	ND	0.22	
Benzene	0.073	0.022	
Toluene	0.44	0.044	
Ethylbenzene	5.8	0.044	
m- & p-Xylene	8.1	0.087	
o-Xylene	1.6	0.044	
Total EC >8-10 Aromatics	190	1.1	D10
Total EC 5-6 Aliphatics	0.83	0.65	
Total EC >6-8 Aliphatics	12	0.44	
Total EC >8-10 Aliphatics	190	1.3	D10

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP11-(5-8)
Lab ID:	95381-15
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/24/01
% Solids	71.4
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	81.3		60	140
Bromofluorobenzene	89.9		60	140

Sample results are on a dry weight basis.

Analyte		**Result (mg/kg)**	**PQL**	**Flags**
MTBE	ND		0.25	
Benzene	ND		0.025	
Toluene	ND		0.05	
Ethylbenzene	ND		0.05	
m- & p-Xylene		0.17	0.1	
o-Xylene		0.11	0.05	
Total EC >8-10 Aromatics		4.4	1.3	
Total EC 5-6 Aliphatics	ND		0.75	
Total EC >6-8 Aliphatics	ND		0.5	
Total EC >8-10 Aliphatics		3.8	1.5	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB2569
Date Received:	-
Date Prepared:	1/17/01
Date Analyzed:	1/18/01
% Solids	
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	120		60	140
Bromofluorobenzene	112		60	140

Sample results are on an as received basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
MTBE	ND	0.2	
Benzene	ND	0.02	
Toluene	ND	0.04	
Ethylbenzene	ND	0.04	
m- & p-Xylene	ND	0.08	
o-Xylene	ND	0.04	
Total EC >8-10 Aromatics	ND	1	
Total EC 5-6 Aliphatics	ND	0.6	
Total EC >6-8 Aliphatics	ND	0.4	
Total EC >8-10 Aliphatics	ND	1.2	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB2572
Date Received:	-
Date Prepared:	1/22/01
Date Analyzed:	1/24/01
% Solids	
Dilution Factor	1

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Trifluorotoluene	90.7		60	140
Bromofluorobenzene	93.9		60	140

Sample results are on an as received basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
MTBE	ND	0.2	
Benzene	ND	0.02	
Toluene	ND	0.04	
Ethylbenzene	ND	0.04	
m- & p-Xylene	ND	0.08	
o-Xylene	ND	0.04	
Total EC >8-10 Aromatics	ND	1	
Total EC 5-6 Aliphatics	ND	0.6	
Total EC >6-8 Aliphatics	ND	0.4	
Total EC >8-10 Aliphatics	ND	1.2	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	GB2569
Date Prepared:	1/18/01
Date Analyzed:	1/18/01
QC Batch ID:	GB2569

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Compound Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	BSD Result (mg/kg)	BSD % Rec.	RPD	Flag
MTBE	0	2	2.66	133	2.51	126	-5.4	
Benzene	0	2	2.11	106	2.1	105	-0.95	
Toluene	0	2	2.1	105	2.08	104	-0.96	
Ethylbenzene	0	2	2.07	103	2.03	102	-0.98	
m- & p-Xylene	0	4	4.31	108	4.4	110	1.8	
o-Xylene	0	2	2.03	101	2.04	102	0.99	
Total EC >8-10 Aromatics	0	10	10.4	104	10.5	105	0.96	
Total EC 5-6 Aliphatics	0	6	6.69	112	6.74	112	0	
Total EC >6-8 Aliphatics	0	4	4.46	111	4.49	112	0.9	
Total EC >8-10 Aliphatics	0	12	13	108	12.7	106	-1.9	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	GB2572
Date Prepared:	1/22/01
Date Analyzed:	1/24/01
QC Batch ID:	GB2572

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Compound Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	BSD Result (mg/kg)	BSD % Rec.	RPD	Flag
MTBE	0	1	1.07	107	0.992	99.2	-7.6	
Benzene	0	1	0.944	94.4	0.905	90.5	-4.2	
Toluene	0	1	0.915	91.5	0.883	88.3	-3.6	
Ethylbenzene	0	1	0.846	84.6	0.82	82	-3.1	
m- & p-Xylene	0	2	1.82	90.8	1.76	88.2	-2.9	
o-Xylene	0	1	0.962	96.2	0.934	93.4	-3	
Total EC >8-10 Aromatics	0	5	4.19	83.7	4.14	82.8	-1.1	
Total EC 5-6 Aliphatics	0	3	3.03	101	2.91	97	-4	
Total EC >6-8 Aliphatics	0	2	2.11	106	2.11	106	0	
Total EC >8-10 Aliphatics	0	6	5.3	88.3	5.21	86.8	-1.7	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID:	MW-8 (3.5')
Lab ID:	95216-09
Date Prepared:	1/18/01
Date Analyzed:	1/18/01
QC Batch ID:	GB2569

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
MTBE	0	2.2	2.74	124	
Benzene	0	2.2	1.95	88	
Toluene	0	2.2	2.1	95	
Ethylbenzene	0.233	2.2	2.11	85	
m- & p-Xylene	0	4.4	4.23	96	
o-Xylene	0.285	2.21	2.58	104	
Total EC >8-10 Aromatics	9.77	11	17.9	74	
Total EC 5-6 Aliphatics	0	6.6	4.91	74	
Total EC >6-8 Aliphatics	0.913	4.4	4.03	71	
Total EC >8-10 Aliphatics	9.12	13	18.5	71	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID:	SP11-(5-8)
Lab ID:	95381-15
Date Prepared:	1/22/01
Date Analyzed:	1/24/01
QC Batch ID:	GB2572

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
MTBE	0	2.5	2.33	93	
Benzene	0	2.5	1.77	71	
Toluene	0	2.5	1.87	75	
Ethylbenzene	0	2.5	1.94	77	
m- & p-Xylene	0.166	5	3.74	71	
o-Xylene	0.108	2.51	2.5	96	
Total EC >8-10 Aromatics	4.38	13	13.1	70	
Total EC 5-6 Aliphatics	0	7.5	3.65	49	N
Total EC >6-8 Aliphatics	0	5	3.6	72	
Total EC >8-10 Aliphatics	3.75	15	13.7	66	N

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	MW-8 (3.5')
Lab ID:	95216-09
Date Prepared:	1/18/01
Date Analyzed:	1/18/01
QC Batch ID:	GB2569

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
MTBE	0	0	NC	
Benzene	0	0	NC	
Toluene	0	0	NC	
Ethylbenzene	0.233	0.245	-5.0	
m- & p-Xylene	0	0	NC	
o-Xylene	0.285	0.283	0.7	
Total EC >8-10 Aromatics	9.77	11.4	-15.0	
Total EC 5-6 Aliphatics	0	0.741	-200.0	X4a
Total EC >6-8 Aliphatics	0.913	0.839	8.4	
Total EC >8-10 Aliphatics	9.12	10.3	-12.0	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	SP6-(5-8)
Lab ID:	95381-08
Date Prepared:	1/22/01
Date Analyzed:	1/24/01
QC Batch ID:	GB2572

WSDOE Method for Determination of Volatile Petroleum Hydrocarbon Fractions Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
MTBE	0	0	NC	
Benzene	0	0	NC	
Toluene	0.0897	0.137	-42.0	N
Ethylbenzene	0.759	1.18	-43.0	N
m- & p-Xylene	1.09	1.94	-56.0	N
o-Xylene	0.884	1.42	-47.0	N
Total EC >8-10 Aromatics	18.8	26.8	-35.0	N
Total EC 5-6 Aliphatics	0	0	NC	
Total EC >6-8 Aliphatics	3.91	5.26	-29.0	N
Total EC >8-10 Aliphatics	17.6	21.7	-21.0	

SOUND ANALYTICAL EPH / VPH

EXTRACTABLE PETROLEUM HYDROCARBONS

ALIPHATIC AND AROMATIC FRACTIONS

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP1-(8-11)
Lab ID:	95381-02
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
% Solids	80.7
Dilution Factor	10

Extractable Petroleum Hydrocarbons (EPH) Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctadecane	100		50	150
o-terphenyl	85.1		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
>nC8-nC10 Aliphatic	76	5.4	
>nC10-nC12 Aliphatic	380	5.4	
>nC12-nC16 Aliphatic	940	5.4	
>nC16-nC21 Aliphatic	320	5.4	
>nC21-nC34 Aliphatic	37	5.4	
>nC10-nC12 Aromatic	46	5.4	
>nC12-nC16 Aromatic	250	5.4	
>nC16-nC21 Aromatic	200	5.4	
>nC21-nC34 Aromatic	22	5.4	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP5-(5-8)
Lab ID:	95381-06
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
% Solids	94.88
Dilution Factor	10

Extractable Petroleum Hydrocarbons (EPH) Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctadecane	95.7		50	150
o-terphenyl	67.2		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
>nC8-nC10 Aliphatic	200	4.5	
>nC10-nC12 Aliphatic	660	4.5	
>nC12-nC16 Aliphatic	2000	4.5	
>nC16-nC21 Aliphatic	1700	4.5	
>nC21-nC34 Aliphatic	300	4.5	
>nC10-nC12 Aromatic	180	4.5	
>nC12-nC16 Aromatic	710	4.5	
>nC16-nC21 Aromatic	750	4.5	
>nC21-nC34 Aromatic	120	4.5	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP6-(5-8)
Lab ID:	95381-08
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
% Solids	67.48
Dilution Factor	10

Extractable Petroleum Hydrocarbons (EPH) Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctadecane	97.2		50	150
o-terphenyl	88.2		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
>nC8-nC10 Aliphatic	ND	6.6	
>nC10-nC12 Aliphatic	30	6.6	
>nC12-nC16 Aliphatic	98	6.6	
>nC16-nC21 Aliphatic	87	6.6	
>nC21-nC34 Aliphatic	27	6.6	
>nC10-nC12 Aromatic	10	6.6	
>nC12-nC16 Aromatic	38	6.6	
>nC16-nC21 Aromatic	48	6.6	
>nC21-nC34 Aromatic	20	6.6	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP8-(5-8)
Lab ID:	95381-10
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
% Solids	89.11
Dilution Factor	10

Extractable Petroleum Hydrocarbons (EPH) Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctadecane	93.2		50	150
o-terphenyl	69.3		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
>nC8-nC10 Aliphatic	830	5	
>nC10-nC12 Aliphatic	2400	5	
>nC12-nC16 Aliphatic	8700	50	D 10
>nC16-nC21 Aliphatic	6500	50	D 10
>nC21-nC34 Aliphatic	730	5	
>nC10-nC12 Aromatic	110	5	
>nC12-nC16 Aromatic	530	5	
>nC16-nC21 Aromatic	870	5	
>nC21-nC34 Aromatic	100	5	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP9-(5-8)
Lab ID:	95381-12
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
% Solids	83.55
Dilution Factor	10

Extractable Petroleum Hydrocarbons (EPH) Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctadecane	71.2		50	150
o-terphenyl	66.8		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
>nC8-nC10 Aliphatic	220	5	
>nC10-nC12 Aliphatic	670	5	
>nC12-nC16 Aliphatic	3200	50	D 10
>nC16-nC21 Aliphatic	2700	50	D 10
>nC21-nC34 Aliphatic	210	5	
>nC10-nC12 Aromatic	260	5	
>nC12-nC16 Aromatic	970	5	
>nC16-nC21 Aromatic	1100	5	
>nC21-nC34 Aromatic	96	5	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP11-(5-8)
Lab ID:	95381-15
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
% Solids	71.4
Dilution Factor	10

Extractable Petroleum Hydrocarbons (EPH) Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctadecane	91.2		50	150
o-terphenyl	86.7		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**Flags**
>nC8-nC10 Aliphatic	ND	5.9	
>nC10-nC12 Aliphatic	30	5.9	
>nC12-nC16 Aliphatic	170	5.9	
>nC16-nC21 Aliphatic	130	5.9	
>nC21-nC34 Aliphatic	40	5.9	
>nC10-nC12 Aromatic	ND	5.9	
>nC12-nC16 Aromatic	18	5.9	
>nC16-nC21 Aromatic	35	5.9	
>nC21-nC34 Aromatic	10	5.9	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - EP229
Date Received:	-
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
% Solids	
Dilution Factor	10

Extractable Petroleum Hydrocarbons (EPH) Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctadecane	81		60	140
o-terphenyl	72.7		60	140

Sample results are on an as received basis.

Analyte		**Result (mg/kg)**	**PQL**	**Flags**
>nC8-nC10 Aliphatic	ND		4.5	
>nC10-nC12 Aliphatic	ND		4.5	
>nC12-nC16 Aliphatic	ND		4.5	
>nC16-nC21 Aliphatic	ND		4.5	
>nC21-nC34 Aliphatic	ND		4.5	
>nC10-nC12 Aromatic	ND		4.5	
>nC12-nC16 Aromatic	ND		4.5	
>nC16-nC21 Aromatic	ND		4.5	
>nC21-nC34 Aromatic	ND		4.5	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike Report

Lab ID:	EP229
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
QC Batch ID:	EP229

Extractable Petroleum Hydrocarbons (EPH) Modified

Parameter Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	Flag
>nC8-nC10 Aliphatic	0	18	15.3	84	
>nC10-nC12 Aliphatic	0	18	16.3	90	
>nC12-nC16 Aliphatic	0	18	16.3	90	
>nC16-nC21 Aliphatic	0	18	16.7	92	
>nC21-nC34 Aliphatic	0	18	17.8	98	
>nC10-nC12 Aromatic	0	18.2	15.9	88	
>nC12-nC16 Aromatic	0	18	16.7	92	
>nC16-nC21 Aromatic	0	18	15.3	84	
>nC21-nC34 Aromatic	0	18	17.9	98	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID:	SP1-(8-11)
Lab ID:	95381-02
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
QC Batch ID:	EP229

Extractable Petroleum Hydrocarbons (EPH) Modified

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
>nC8-nC10 Aliphatic	76.3	21	95.6	92	
>nC10-nC12 Aliphatic	380	21	381	4	X7
>nC12-nC16 Aliphatic	939	21	809	-618	X7
>nC16-nC21 Aliphatic	324	21	278	-222	X7
>nC21-nC34 Aliphatic	37.3	21	47.5	49	X7
>nC10-nC12 Aromatic	45.6	21	54.5	42	X7
>nC12-nC16 Aromatic	251	21	218	-157	X7
>nC16-nC21 Aromatic	201	21	169	-152	X7
>nC21-nC34 Aromatic	21.8	21	34.3	59	X7

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	SP1-(8-11)
Lab ID:	95381-02
Date Prepared:	1/22/01
Date Analyzed:	1/22/01
QC Batch ID:	EP229

Extractable Petroleum Hydrocarbons (EPH) Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
>nC8-nC10 Aliphatic	76.3	96	-23.0	
>nC10-nC12 Aliphatic	380	440	-15.0	
>nC12-nC16 Aliphatic	939	951	-1.3	
>nC16-nC21 Aliphatic	324	309	4.7	
>nC21-nC34 Aliphatic	37.3	37.5	-0.5	
>nC10-nC12 Aromatic	45.6	48.3	-5.8	
>nC12-nC16 Aromatic	251	259	-3.1	
>nC16-nC21 Aromatic	201	205	-2.0	
>nC21-nC34 Aromatic	21.8	22.1	-1.4	

SOUND ANALYTICAL EPA 8270 MOD.

EXTRACTABLE PETROLEUM HYDROCARBONS

TARGET PAH COMPOUNDS

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP1-(8-11)
Lab ID:	95381-02
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
% Solids	80.7
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	78.9		50	150

Sample results are on a dry weight basis.

Analyte		**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
Naphthalene		0.23	0.022	0.022	
2-Methylnaphthalene		6.5	0.022	0.019	
Acenaphthylene		0.51	0.022	0.021	
Acenaphthene		0.41	0.022	0.019	
Fluorene		0.87	0.022	0.016	
Phenanthrene		1.3	0.022	0.015	
Anthracene	ND		0.022	0.018	
Fluoranthene	ND		0.022	0.013	
Pyrene		0.07	0.022	0.012	
Benzo(a)anthracene	ND		0.022	0.0095	
Chrysene		0.037	0.022	0.012	
Benzo(b)fluoranthene	ND		0.022	0.011	
Benzo(k)fluoranthene	ND		0.022	0.017	
Benzo(a)pyrene	ND		0.022	0.0088	
Indeno(1,2,3-cd)pyrene	ND		0.022	0.017	
Dibenz(a,h)anthracene	ND		0.022	0.012	
Benzo(g,h,i)perylene	ND		0.022	0.013	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP5-(5-8)
Lab ID:	95381-06
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
% Solids	94.88
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	69.5		50	150

Sample results are on a dry weight basis.

Analyte		**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
Naphthalene		3.7	0.09	0.09	
2-Methylnaphthalene		12	0.09	0.081	
Acenaphthylene		0.48	0.018	0.017	
Acenaphthene		0.69	0.018	0.015	
Fluorene		1.3	0.018	0.013	
Phenanthrene		2.6	0.018	0.012	
Anthracene	ND		0.018	0.015	
Fluoranthene	ND		0.018	0.01	
Pyrene		0.78	0.018	0.0099	
Benzo(a)anthracene		0.11	0.018	0.0079	
Chrysene		0.097	0.018	0.0097	
Benzo(b)fluoranthene	ND		0.018	0.0094	
Benzo(k)fluoranthene	ND		0.018	0.015	
Benzo(a)pyrene	ND		0.018	0.0074	
Indeno(1,2,3-cd)pyrene	ND		0.018	0.014	
Dibenz(a,h)anthracene	ND		0.018	0.01	
Benzo(g,h,i)perylene	ND		0.018	0.011	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP6-(5-8)
Lab ID:	95381-08
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
% Solids	67.48
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	88.9		50	150

Sample results are on a dry weight basis.

Analyte		**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
Naphthalene		1.7	0.027	0.027	
2-Methylnaphthalene		4.1	0.027	0.024	
Acenaphthylene	ND		0.027	0.026	
Acenaphthene		0.26	0.027	0.023	
Fluorene		0.55	0.027	0.019	
Phenanthrene		0.92	0.027	0.018	
Anthracene	ND		0.027	0.022	
Fluoranthene	ND		0.027	0.015	
Pyrene		0.16	0.027	0.015	
Benzo(a)anthracene	ND		0.027	0.012	
Chrysene	ND		0.027	0.014	
Benzo(b)fluoranthene	ND		0.027	0.014	
Benzo(k)fluoranthene	ND		0.027	0.022	
Benzo(a)pyrene	ND		0.027	0.011	
Indeno(1,2,3-cd)pyrene	ND		0.027	0.021	
Dibenz(a,h)anthracene	ND		0.027	0.015	
Benzo(g,h,i)perylene	ND		0.027	0.016	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP8-(5-8)
Lab ID:	95381-10
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
% Solids	89.11
Dilution Factor	100

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	96.3		50	150

Sample results are on a dry weight basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Naphthalene		19	0.1	0.1	
2-Methylnaphthalene		50	0.1	0.09	
Acenaphthylene		1.3	0.1	0.096	
Acenaphthene		5.7	0.1	0.086	
Fluorene		6	0.1	0.073	
Phenanthrene		10	0.1	0.068	
Anthracene	ND		0.1	0.082	
Fluoranthene	ND		0.1	0.058	
Pyrene		2.3	0.1	0.055	
Benzo(a)anthracene	ND		0.1	0.044	
Chrysene		0.22	0.1	0.054	
Benzo(b)fluoranthene	ND		0.1	0.052	
Benzo(k)fluoranthene	ND		0.1	0.081	
Benzo(a)pyrene	ND		0.1	0.041	
Indeno(1,2,3-cd)pyrene	ND		0.1	0.079	
Dibenz(a,h)anthracene	ND		0.1	0.056	
Benzo(g,h,i)perylene	ND		0.1	0.062	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP9-(5-8)
Lab ID:	95381-12
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
% Solids	83.55
Dilution Factor	100

Targeted PAH Analytes by Method 8270 Modified.

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-Terphenyl	83.2		50	150

Sample results are on a dry weight basis.

Analyte		**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
Naphthalene		7.4	0.1	0.1	
2-Methylnaphthalene		23	0.1	0.09	
Acenaphthylene	ND		0.1	0.096	
Acenaphthene		3.8	0.1	0.086	
Fluorene		4.1	0.1	0.073	
Phenanthrene		4.7	0.1	0.068	
Anthracene	ND		0.1	0.082	
Fluoranthene	ND		0.1	0.058	
Pyrene		0.94	0.1	0.055	
Benzo(a)anthracene	ND		0.1	0.044	
Chrysene	ND		0.1	0.054	
Benzo(b)fluoranthene	ND		0.1	0.052	
Benzo(k)fluoranthene	ND		0.1	0.081	
Benzo(a)pyrene	ND		0.1	0.041	
Indeno(1,2,3-cd)pyrene	ND		0.1	0.079	
Dibenz(a,h)anthracene	ND		0.1	0.056	
Benzo(g,h,i)perylene	ND		0.1	0.062	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP11-(5-8)
Lab ID:	95381-15
Date Received:	1/12/01
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
% Solids	71.4
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	89.1		50	150

Sample results are on a dry weight basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Naphthalene		0.97	0.023	0.023	
2-Methylnaphthalene		3	0.023	0.021	
Acenaphthylene		0.29	0.023	0.023	
Acenaphthene	ND		0.023	0.02	
Fluorene		0.39	0.023	0.017	
Phenanthrene		0.67	0.023	0.016	
Anthracene	ND		0.023	0.019	
Fluoranthene		0.054	0.023	0.014	
Pyrene		0.035	0.023	0.013	
Benzo(a)anthracene	ND		0.023	0.01	
Chrysene	ND		0.023	0.013	
Benzo(b)fluoranthene	ND		0.023	0.012	
Benzo(k)fluoranthene	ND		0.023	0.019	
Benzo(a)pyrene	ND		0.023	0.0096	
Indeno(1,2,3-cd)pyrene	ND		0.023	0.019	
Dibenz(a,h)anthracene	ND		0.023	0.013	
Benzo(g,h,i)perylene	ND		0.023	0.015	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - EP229
Date Received:	-
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
% Solids	
Dilution Factor	20

Targeted PAH Analytes by Method 8270 Modified.

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-Terphenyl	90.8		50	150

Sample results are on an as received basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Naphthalene	ND		0.018	0.018	
2-Methylnaphthalene	ND		0.018	0.016	
Acenaphthylene	ND		0.018	0.017	
Acenaphthene	ND		0.018	0.016	
Fluorene	ND		0.018	0.013	
Phenanthrene	ND		0.018	0.012	
Anthracene	ND		0.018	0.015	
Fluoranthene	ND		0.018	0.011	
Pyrene	ND		0.018	0.01	
Benzo(a)anthracene	ND		0.018	0.008	
Chrysene	ND		0.018	0.0098	
Benzo(b)fluoranthene	ND		0.018	0.0095	
Benzo(k)fluoranthene	ND		0.018	0.015	
Benzo(a)pyrene	ND		0.018	0.0075	
Indeno(1,2,3-cd)pyrene	ND		0.018	0.014	
Dibenz(a,h)anthracene	ND		0.018	0.01	
Benzo(g,h,i)perylene	ND		0.018	0.011	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike Report

Lab ID:	EP229
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
QC Batch ID:	EP229

Targeted PAH Analytes by Method 8270 Modified.

Parameter Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	Flag
Naphthalene	0	18	18	99	
Acenaphthene	0	18	18.2	100	
Pyrene	0	18	15.6	86	
Benzo(g,h,i)perylene	0	18	19.7	108	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID:	SP1-(8-11)
Lab ID:	95381-02
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
QC Batch ID:	EP229

Targeted PAH Analytes by Method 8270 Modified.

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
Naphthalene	0.23	21	17.5	82	
Acenaphthene	0.415	21	17.5	81	
Pyrene	0.0698	21	19.9	94	
Benzo(g,h,i)perylene	0	21	20.6	98	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	SP1-(8-11)
Lab ID:	95381-02
Date Prepared:	1/22/01
Date Analyzed:	1/23/01
QC Batch ID:	EP229

Targeted PAH Analytes by Method 8270 Modified.

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Naphthalene	0.23	0.251	-8.7	
2-Methylnaphthalene	6.48	7.06	-8.6	
Acenaphthylene	0.514	0.411	22.0	
Acenaphthene	0.415	0.303	31.0	N
Fluorene	0.873	0.628	33.0	N
Phenanthrene	1.3	1.39	-6.7	
Anthracene	0	0	NC	
Fluoranthene	0	0	NC	
Pyrene	0.0698	0.0783	-11.0	
Benzo(a)anthracene	0	0	NC	
Chrysene	0.0371	0.041	-10.0	
Benzo(b)fluoranthene	0	0	NC	
Benzo(k)fluoranthene	0	0	NC	
Benzo(a)pyrene	0	0	NC	
Indeno(1,2,3-cd)pyrene	0	0	NC	
Dibenz(a,h)anthracene	0	0	NC	
Benzo(g,h,i)perylene	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP1-(5-8)
Lab ID:	95381-01
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/17/01
% Solids	79.89
Dilution Factor	50

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	114		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
#2 Diesel	2300	160	75	
Motor Oil	350	310	160	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP1-(8-11)
Lab ID:	95381-02
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	80.7
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	101		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	2700	30	14	
Motor Oil	82	60	30	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP2-(5-8)
Lab ID:	95381-03
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	90.08
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	Recovery Limits High
o-terphenyl	98.9		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
#2 Diesel	45	26	12	
Motor Oil	45	52	26	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP3-(5-8)
Lab ID:	95381-04
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	90.83
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	115		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
#2 Diesel	1800	25	12	
Motor Oil	190	51	25	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP4-(5-8)
Lab ID:	95381-05
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/17/01
% Solids	70.47
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	98.7		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	ND	35	17	
Motor Oil	ND	70	35	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP5-(5-8)
Lab ID:	95381-06
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/17/01
% Solids	94.88
Dilution Factor	50

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	84.7		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	7300	130	62	
Motor Oil	500	260	130	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP5-(8-11)
Lab ID:	95381-07
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	68.21
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	101		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1000	35	17	X1
Motor Oil	240	69	35	X2

X1 - Chromatogram suggests this might be aged or degraded diesel

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP6-(5-8)
Lab ID:	95381-08
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	67.48
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	126		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1500	34	16	
Motor Oil	85	68	34	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP7-(8-11)
Lab ID:	95381-09
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	73.58
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	103		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	820	32	15	
Motor Oil	220	63	32	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP8-(5-8)
Lab ID:	95381-10
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/17/01
% Solids	89.11
Dilution Factor	50

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	98.1		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
#2 Diesel	23000	130	62	
Motor Oil	460	260	130	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP8-(8-11)
Lab ID:	95381-11
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	78.24
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	89.8		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	5300	30	14	
Motor Oil	160	60	30	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP9-(5-8)
Lab ID:	95381-12
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	83.55
Dilution Factor	20

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	92.6		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	8200	59	28	
Motor Oil	210	120	59	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP9-(8-11)
Lab ID:	95381-13
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	77.99
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	101		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1600	30	14	
Motor Oil	49	59	30	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP10-(5-8)
Lab ID:	95381-14
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	68.04
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	97.2		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	19	34	16	J
Motor Oil	120	68	34	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP11-(5-8)
Lab ID:	95381-15
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	71.4
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	110		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	1100	32	15	
Motor Oil	66	64	32	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP12-(10-12)
Lab ID:	95381-16
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	81.38
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	98.8		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	560	30	14	
Motor Oil	45	59	30	J

SOUND ANALYTICAL SERVICES, INC.

Client Name	Golder Associates
Client ID:	SP13-(5-8)
Lab ID:	95381-17
Date Received:	1/12/01
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
% Solids	73.58
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
o-terphenyl	93.8		50	150

Sample results are on a dry weight basis.

Analyte	**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
#2 Diesel	ND	33	16	
Motor Oil	ND	65	33	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - DS0187
Date Received:	-
Date Prepared:	1/16/01
Date Analyzed:	1/17/01
% Solids	
Dilution Factor	10

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
o-terphenyl	100		50	150

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
#2 Diesel	ND	25	12	
Motor Oil	ND	50	25	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	DS0187
Date Prepared:	1/16/01
Date Analyzed:	1/17/01
QC Batch ID:	DS0187

Diesel and Motor Oil by NWTPH-Dx Modified

Compound Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	BSD Result (mg/kg)	BSD % Rec.	RPD	Flag
#2 Diesel	0	500	583	117	599	120	2.5	
Motor Oil	0	501	456	91.1	463	92.5	1.5	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	1-B
Lab ID:	95410-03
Date Prepared:	1/16/01
Date Analyzed:	1/17/01
QC Batch ID:	DS0187

Diesel and Motor Oil by NWTPH-Dx Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
#2 Diesel	0	0	NC	
Motor Oil	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	SP9-(8-11)
Lab ID:	95381-13
Date Prepared:	1/16/01
Date Analyzed:	1/18/01
QC Batch ID:	DS0187

Diesel and Motor Oil by NWTPH-Dx Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
#2 Diesel	1560	1620	-3.8	
Motor Oil	48.9	49.4	-1.0	

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East • Tacoma, WA 98424
(253) 922-2310 • FAX (253) 922-5047
e-mail: info@saslab.com

DATA QUALIFIERS AND ABBREVIATIONS

B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq 40\%$.

C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be $> 40\%$. The higher result was reported unless anomalies were noted.

M: GC/MS confirmation was performed. The result derived from the original analysis was reported.

D: The reported result for this analyte was calculated based on a secondary dilution factor.

E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

N: See analytical narrative.

ND: Not Detected

PQL: Practical Quantitation Limit

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____ .

X2: Contaminant does not appear to be "typical" product.

X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.

X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.

X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike recovery was not determined due to the required dilution.

X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.

X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.

X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.

X8: Surrogate recovery was not determined due to the required dilution.

X9: Surrogate recovery outside advisory QC limits due to matrix interference.

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East • Tacoma, WA 98424
(253) 922-2310 • FAX (253) 922-5047
e-mail: sainc1@uswest.net

SAS Lab No. 95381

TURNAROUND REQUEST (business days)
Standard (10 days) ____
RUSH: 24 hrs ___ 48 hrs ___ 5 day ___

1 1/3 1/2 Vol

CHAIN OF CUSTODY/REQUEST FOR LABORATORY ANALYSIS

Client: Golder Associates
Project Name: Consolidated Freightways 983-1065.820
Contact: Gary Zimmerman
Phone No.: 425 883-0777
Fax No.: 425 882-5498
Email:

Analyses Requested

Lab Use Only	Sample ID	Date	Time	Matrix	# of Containers	NWTPH-Dx	VPH	EPH										
1	SP1-(5-8)	1-11-01	0850	Soil	1	✓												
2	SP1-(8-11)		0900		2	✓	✓											
3	SP2-(5-8)		0955		1	✓												
4	SP3-(5-8)		1040		1	✓												
5	SP4-(5-8)		1125		1	✓												
6	SP5-(5-8)		1157		2	✓	✓											
7	SP5-(8-11)		1205		1	✓												
8	SP6-(5-8)		1247		1	✓												
9	SP7-(8-11)		1330		2	✓												
10	SP8-(5-8)		1355		2	✓	✓											
11	SP8-(8-11)		1400		1	✓	[illegible]											
12	SP9-(5-8)		1433		2	✓	✓											
13	SP9-(8-11)*		1437		2	✓												
14	SP10-(5-8)		1515		1	✓												
15	SP11-(5-8)		1547		1	✓												
16	SP12-(10-12)	↓	1632	↓	1	✓												
17	SP13-(5-8)		1706		1	✓												

	Signature	Printed Name	Firm	Time/Date
Relinquished By:	[signature]	Gary Zimmerman	Golder	1-12-00 1:30 PM
Received By	[signature]	PALMQUIST	SAS	1-12-01 1:30A
Relinquished By:	[signature]	PALMQUIST	SAS	1-12-01 12:30P
Received By	[signature]	A Strom	SAS	1/12/01 1220
Relinquished By:				
Received By				

Special Instructions
In addition to the 4 EPH/VPH analyses requested, also do EPH/VPH on any other samples with TPH-D > 1,000 ppm but no more than 2 additional (i.e. Do the 4 requested and do 2 more if other samples > 1,000)

*Do Duplicate on SP9-(8-11)

COC No. _____

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

December 29, 2003

Neil Gilham
Golder Associates Inc.
18300 NE Union Hill Road
Suite 200
Redmond, WA 98052-3333

Re: Analytical Data for Project 033-1000.000
Laboratory Reference No. 0312-046

Dear Neil:

Enclosed are the analytical results and associated quality control data for samples submitted on December 3, 2003.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

Case Narrative

Samples were collected on December 3, 2003, and received by the laboratory on December 3, 2003. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Client ID:	**MW-4**			**MW-44**		
Lab ID:	12-046-01			12-046-02		
	Result	Flags	PQL	**Result**	Flags	PQL
Benzene	**ND**		1.0	**ND**		1.0
Toluene	**ND**		1.0	**ND**		1.0
Ethyl Benzene	**ND**		1.0	**ND**		1.0
m,p-Xylene	**ND**		1.0	**ND**		1.0
o-Xylene	**ND**		1.0	**ND**		1.0
TPH-Gas	**ND**		100	**ND**		100
Surrogate Recovery:						
Fluorobenzene	89%			92%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Client ID:	**MW-2**			**MW-3**		
Lab ID:	12-046-03			12-046-04		
	Result	Flags	PQL	**Result**	Flags	PQL
Benzene	**ND**		1.0	**ND**		1.0
Toluene	**ND**		1.0	**ND**		1.0
Ethyl Benzene	**ND**		1.0	**ND**		1.0
m,p-Xylene	**ND**		1.0	**ND**		1.0
o-Xylene	**ND**		1.0	**ND**		1.0
TPH-Gas	**ND**		100	**ND**		100
Surrogate Recovery:						
Fluorobenzene	92%			93%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Client ID:	**RW-2**			**MW-1**		
Lab ID:	12-046-05			12-046-06		
	Result	Flags	PQL	**Result**	Flags	PQL
Benzene	**5.4**		1.0	**ND**		1.0
Toluene	**ND**		1.0	**ND**		1.0
Ethyl Benzene	**ND**		1.0	**ND**		1.0
m,p-Xylene	**ND**		1.0	**ND**		1.0
o-Xylene	**ND**		1.0	**ND**		1.0
TPH-Gas	**450**		100	**ND**		100
Surrogate Recovery: Fluorobenzene	93%			91%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Client ID:	**MW-5**			**MW-6**		
Lab ID:	12-046-07			12-046-08		
	Result	Flags	PQL	**Result**	Flags	PQL
Benzene	**ND**		1.0	**ND**		1.0
Toluene	**ND**		1.0	**ND**		1.0
Ethyl Benzene	**ND**		1.0	**ND**		1.0
m,p-Xylene	**ND**		1.0	**ND**		1.0
o-Xylene	**ND**		1.0	**ND**		1.0
TPH-Gas	**ND**		100	**ND**		100
Surrogate Recovery:						
Fluorobenzene	91%			89%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1209W1

	Result	Flags	PQL
Benzene	**ND**		1.0
Toluene	**ND**		1.0
Ethyl Benzene	**ND**		1.0
m,p-Xylene	**ND**		1.0
o-Xylene	**ND**		1.0
TPH-Gas	**ND**		100

Surrogate Recovery:
Fluorobenzene 93%

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1209W2

	Result	Flags	PQL
Benzene	**ND**		1.0
Toluene	**ND**		1.0
Ethyl Benzene	**ND**		1.0
m,p-Xylene	**ND**		1.0
o-Xylene	**ND**		1.0
TPH-Gas	**ND**		100

Surrogate Recovery:
Fluorobenzene 92%

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX
DUPLICATE QUALITY CONTROL

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Lab ID:	12-046-06 **Original**	12-046-06 **Duplicate**	**RPD**	**Flags**
Benzene	**ND**	**ND**	NA	
Toluene	**ND**	**ND**	NA	
Ethyl Benzene	**ND**	**ND**	NA	
m,p-Xylene	**ND**	**ND**	NA	
o-Xylene	**ND**	**ND**	NA	
TPH-Gas	**ND**	**ND**	NA	
Surrogate Recovery:				
Fluorobenzene	91%	91%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Gx/BTEX
MS/MSD QUALITY CONTROL

Date Extracted: 12-9-03
Date Analyzed: 12-9-03

Matrix: Water
Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	12-046-06 **MS**	Percent Recovery	12-046-06 **MSD**	Percent Recovery	**RPD**	**Flags**
Benzene	**52.2**	**104**	**52.2**	**104**	0	
Toluene	**49.0**	**98**	**49.0**	**98**	0	
Ethyl Benzene	**50.1**	**100**	**50.1**	**100**	0	
m,p-Xylene	**49.5**	**99**	**49.5**	**99**	0	
o-Xylene	**49.8**	**100**	**49.6**	**99**	0	
Surrogate Recovery:						
Fluorobenzene	97%		97%			

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Dx

Date Extracted: 12-12-03
Date Analyzed: 12-14-03

Matrix: Water
Units: mg/L (ppm)

Client ID:	**MW-4**	**MW-44**	**MW-2**
Lab ID:	12-046-01	12-046-02	12-046-03
Diesel Range:	**ND**	**ND**	**ND**
PQL:	0.25	0.25	0.25
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	0.40	0.40	0.40
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	105%	110%	114%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Dx

Date Extracted: 12-12-03
Date Analyzed: 12-14-03

Matrix: Water
Units: mg/L (ppm)

Client ID:	**MW-3**	**RW-2**	**MW-1**
Lab ID:	12-046-04	12-046-05	12-046-06
Diesel Range:	**ND**	**ND**	**ND**
PQL:	0.25	0.25	0.25
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	0.40	0.40	0.40
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	106%	104%	109%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14&15-03
Matrix:	Water
Units:	mg/L (ppm)

Client ID:	**MW-5**	**MW-6**
Lab ID:	12-046-07	12-046-08
Diesel Range:	**ND**	**ND**
PQL:	0.25	0.26
Identification:	---	---
Lube Oil Range:	**ND**	**ND**
PQL:	0.41	0.41
Identification:	---	---
Surrogate Recovery		
o-Terphenyl:	115%	94%
Flags:	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Water
Units:	mg/L (ppm)
Lab ID:	MB1212W1
Diesel Range:	**ND**
PQL:	0.25
Identification:	---
Lube Oil Range:	**ND**
PQL:	0.40
Identification:	---
Surrogate Recovery	
o-Terphenyl:	115%
Flags:	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-046
Project: 033-1000.000

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	12-12-03	
Date Analyzed:	12-14-03	
Matrix:	Water	
Units:	mg/L (ppm)	
Lab ID:	12-046-01	12-046-01 DUP
Diesel Range:	**ND**	**ND**
PQL:	0.25	0.26
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	105%	95%
Flags:	Y	Y

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

SEVERN TRENT STL

STL Seattle
5755 8th Street East
Tacoma, WA 98424

Tel: 253 922 2310
Fax: 253 922 5047
www.stl-inc.com

TRANSMITTAL MEMORANDUM

DATE: December 19, 2003

TO: David Baumeister
OnSite Environmental, Inc.
14648 N. E. 95th St.
Redmond, WA 98052

PROJECT: 12-046

REPORT NUMBER: 118328

TOTAL NUMBER OF PAGES: 21

Enclosed are the test results for eight samples received at STL Seattle on December 12, 2003.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Stan Palmquist
Project Manager

Sample Identification:

Lab. No.	Client ID	Date/Time Sampled	Matrix
118328-1	MW-4	12-03-03 *	Liquid
118328-2	MW-44	12-03-03 *	Liquid
118328-3	MW-2	12-03-03 *	Liquid
118328-4	MW-3	12-03-03 *	Liquid
118328-5	RW-2	12-03-03 *	Liquid
118328-6	MW-1	12-03-03 *	Liquid
118328-7	MW-5	12-03-03 *	Liquid
118328-8	MW-6	12-03-03 *	Liquid

* - Sampling time not specified for this sample

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	MW-4
Lab ID:	118328-01
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	91.2		80	120
Fluorobenzene	102		80	120
Toluene-D8	105		80	120
Ethylbenzene-d10	112		80	120
Bromofluorobenzene	108		80	120
Trifluorotoluene	106		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-01 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	MW-44
Lab ID:	118328-02
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	94.5		80	120
Fluorobenzene	102		80	120
Toluene-D8	105		80	120
Ethylbenzene-d10	109		80	120
Bromofluorobenzene	105		80	120
Trifluorotoluene	104		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-02 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	MW-2
Lab ID:	118328-03
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	91.6		80	120
Fluorobenzene	102		80	120
Toluene-D8	106		80	120
Ethylbenzene-d10	112		80	120
Bromofluorobenzene	105		80	120
Trifluorotoluene	106		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-03 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	MW-3
Lab ID:	118328-04
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	92.7		80	120
Fluorobenzene	102		80	120
Toluene-D8	106		80	120
Ethylbenzene-d10	111		80	120
Bromofluorobenzene	106		80	120
Trifluorotoluene	105		80	120

Analyte		Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND		1	0.5	
Chloromethane	ND		2	1	
Vinyl chloride	ND		1	0.5	
Bromomethane	ND		2.5	1.25	
Chloroethane	ND		1	0.5	
Trichlorofluoromethane	ND		1	0.5	
1,1-Dichloroethene	ND		1	0.5	
Methylene chloride	ND		2	1	
trans-1,2-Dichloroethene	ND		1	0.5	
1,1-Dichloroethane	ND		1	0.5	
2,2-Dichloropropane	ND		1	0.5	
cis-1,2-Dichloroethene	ND		1	0.5	
Bromochloromethane	ND		1	0.5	
Chloroform	ND		1	0.5	
1,1,1-Trichloroethane	ND		1	0.5	
Carbon Tetrachloride	ND		1	0.5	
1,1-Dichloropropene	ND		1	0.5	
Benzene	ND		1	0.5	
1,2-Dichloroethane	ND		1	0.5	
Trichloroethene	ND		1	0.5	
1,2-Dichloropropane	ND		1	0.5	
Dibromomethane	ND		1	0.5	
Bromodichloromethane	ND		1	0.5	
cis-1,3-Dichloropropene	ND		1	0.5	
Toluene	ND		1	0.5	
trans-1,3-Dichloropropene	ND		1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-04 continued...

Analyte	Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
1,3-Dichloropropane	ND	1	0.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
Bromobenzene	ND	1	0.5
n-Propylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,2,3-Trichloropropane	ND	1	0.5
2-Chlorotoluene	ND	1	0.5
1,3,5-Trimethylbenzene	ND	1	0.5
4-Chlorotoluene	ND	1	0.5
t-Butylbenzene	ND	1	0.5
1,2,4-Trimethylbenzene	ND	1	0.5
sec-Butylbenzene	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
4-Isopropyltoluene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
n-Butylbenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Hexachlorobutadiene	ND	1	0.5
Naphthalene	ND	2	1
1,2,3-Trichlorobenzene	ND	1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	RW-2
Lab ID:	118328-05
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	91.3		80	120
Fluorobenzene	101		80	120
Toluene-D8	106		80	120
Ethylbenzene-d10	109		80	120
Bromofluorobenzene	104		80	120
Trifluorotoluene	107		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	5.31	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-05 continued...

Analyte	Result (ug/L)	PQL	MRL	
1,1,2-Trichloroethane	ND	1	0.5	
Tetrachloroethene	ND	1	0.5	
1,3-Dichloropropane	ND	1	0.5	
Dibromochloromethane	ND	1	0.5	
1,2-Dibromoethane	ND	1	0.5	
Chlorobenzene	ND	1	0.5	
Ethylbenzene	ND	1	0.5	
1,1,1,2-Tetrachloroethane	ND	1	0.5	
m,p-Xylene	ND	2	1	
o-Xylene	ND	1	0.5	
Styrene	ND	1	0.5	
Bromoform	ND	1	0.5	
Isopropylbenzene	5.26	1	0.5	
Bromobenzene	ND	1	0.5	
n-Propylbenzene	5.5	1	0.5	
1,1,2,2-Tetrachloroethane	ND	1	0.5	
1,2,3-Trichloropropane	ND	1	0.5	
2-Chlorotoluene	ND	1	0.5	
1,3,5-Trimethylbenzene	ND	1	0.5	
4-Chlorotoluene	ND	1	0.5	
t-Butylbenzene	ND	1	0.5	
1,2,4-Trimethylbenzene	0.589	1	0.5	J
sec-Butylbenzene	3.29	1	0.5	
1,3-Dichlorobenzene	ND	1	0.5	
4-Isopropyltoluene	ND	1	0.5	
1,4-Dichlorobenzene	ND	1	0.5	
n-Butylbenzene	ND	1	0.5	
1,2-Dichlorobenzene	ND	1	0.5	
1,2-Dibromo-3-chloropropane	ND	1	0.5	
1,2,4-Trichlorobenzene	ND	1	0.5	
Hexachlorobutadiene	ND	1	0.5	
Naphthalene	ND	2	1	
1,2,3-Trichlorobenzene	ND	1	0.5	

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	MW-1
Lab ID:	118328-06
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	90.1		80	120
Fluorobenzene	101		80	120
Toluene-D8	107		80	120
Ethylbenzene-d10	111		80	120
Bromofluorobenzene	107		80	120
Trifluorotoluene	104		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-06 continued...

Analyte	Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
1,3-Dichloropropane	ND	1	0.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
Bromobenzene	ND	1	0.5
n-Propylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,2,3-Trichloropropane	ND	1	0.5
2-Chlorotoluene	ND	1	0.5
1,3,5-Trimethylbenzene	ND	1	0.5
4-Chlorotoluene	ND	1	0.5
t-Butylbenzene	ND	1	0.5
1,2,4-Trimethylbenzene	ND	1	0.5
sec-Butylbenzene	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
4-Isopropyltoluene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
n-Butylbenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Hexachlorobutadiene	ND	1	0.5
Naphthalene	ND	2	1
1,2,3-Trichlorobenzene	ND	1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	MW-5
Lab ID:	118328-07
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	91.2		80	120
Fluorobenzene	100		80	120
Toluene-D8	105		80	120
Ethylbenzene-d10	109		80	120
Bromofluorobenzene	103		80	120
Trifluorotoluene	105		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-07 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	MW-6
Lab ID:	118328-08
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	92.3		80	120
Fluorobenzene	102		80	120
Toluene-D8	104		80	120
Ethylbenzene-d10	107		80	120
Bromofluorobenzene	103		80	120
Trifluorotoluene	104		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118328-08 continued...

Analyte	Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
1,3-Dichloropropane	ND	1	0.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
Bromobenzene	ND	1	0.5
n-Propylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,2,3-Trichloropropane	ND	1	0.5
2-Chlorotoluene	ND	1	0.5
1,3,5-Trimethylbenzene	ND	1	0.5
4-Chlorotoluene	ND	1	0.5
t-Butylbenzene	ND	1	0.5
1,2,4-Trimethylbenzene	ND	1	0.5
sec-Butylbenzene	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
4-Isopropyltoluene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
n-Butylbenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Hexachlorobutadiene	ND	1	0.5
Naphthalene	ND	2	1
1,2,3-Trichlorobenzene	ND	1	0.5

STL Seattle

Lab ID:	Method Blank - VOA595
Date Received:	-
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	90.8		80	120
Fluorobenzene	101		80	120
Toluene-D8	106		80	120
Ethylbenzene-d10	114		80	120
Bromofluorobenzene	110		80	120
Trifluorotoluene	110		80	120

Analyte		Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND		1	0.5	
Chloromethane	ND		2	1	
Vinyl chloride	ND		1	0.5	
Bromomethane	ND		2.5	1.25	
Chloroethane	ND		1	0.5	
Trichlorofluoromethane	ND		1	0.5	
1,1-Dichloroethene	ND		1	0.5	
Methylene chloride	ND		2	1	
trans-1,2-Dichloroethene	ND		1	0.5	
1,1-Dichloroethane	ND		1	0.5	
2,2-Dichloropropane	ND		1	0.5	
cis-1,2-Dichloroethene	ND		1	0.5	
Bromochloromethane	ND		1	0.5	
Chloroform	ND		1	0.5	
1,1,1-Trichloroethane	ND		1	0.5	
Carbon Tetrachloride	ND		1	0.5	
1,1-Dichloropropene	ND		1	0.5	
Benzene	ND		1	0.5	
1,2-Dichloroethane	ND		1	0.5	
Trichloroethene	ND		1	0.5	
1,2-Dichloropropane	ND		1	0.5	
Dibromomethane	ND		1	0.5	
Bromodichloromethane	ND		1	0.5	
cis-1,3-Dichloropropene	ND		1	0.5	
Toluene	ND		1	0.5	
trans-1,3-Dichloropropene	ND		1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for VOA595 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Blank Spike/Blank Spike Duplicate Report

Lab ID:	VOA595
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
QC Batch ID:	VOA595

Volatile Organics by USEPA Method 5030/8260B

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % Rec.	RPD	Flag
1,1-Dichloroethene	0	5	4.59	91.8	4.51	90.1	-1.9	
Benzene	0	5	4.87	97.5	4.73	94.5	-3.1	
Trichloroethene	0	5	4.86	97.3	5	100	2.7	
Toluene	0	5	4.8	96	4.74	94.9	-1.2	
Chlorobenzene	0	5	5	100	5.03	101	1	

CHAIN OF CUSTODY RECORD

(FOR SUBCONTRACT LABORATORY)

18328

Lab Reference Number: 12-046

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

Project Manager: David Baumeister

Project Number: 033-1000.000

Project Name: Consolidated Freightway

dash	Sample Number/Name	Date Sampled	Matrix	# Jars	Analysis Requested	Comments
	MW-4	12/03/2003	W	3	Volatiles EPA 8260B	HOLD TIME 12/17
	MW-44	12/03/2003	W	3	Volatiles EPA 8260B	
	MW-2	12/03/2003	W	3	Volatiles EPA 8260B	
	MW-3	12/03/2003	W	3	Volatiles EPA 8260B	
	RW-2	12/03/2003	W	3	Volatiles EPA 8260B	
	MW-1	12/03/2003	W	3	Volatiles EPA 8260B	
	MW-5	12/03/2003	W	3	Volatiles EPA 8260B	
	MW-6	12/03/2003	W	3	Volatiles EPA 8260B	

Submitted:		date: 12/12/03	Received by: C Leach	date:	12-12-03
Firm: OnSite Env		time: 1105	Firm: SR	time:	1111
Submitted: C Leach		date: 12-12-03	Received by:	date:	12/12/-
Firm: SR		time: 1300	Firm: SR	time:	1300

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Golder
Project Number: 033-1000.000
Project Name: Consolidated Freeway
Project Manager: Neil Gilham
Sampled by: J. Kennedy

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (7 working days)
☐ _____ (other)

Laboratory Number: 12-046

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH				% Moisture
1	MW-4	12-3-03	935	water	7		X	X	X															
2	MW-44	"	945	"	7		X	X	X															
3	MW-2	"	1035	"	7		X	X	X															
4	MW-3	"	1120	"	7		X	X	X															
5	RW-2	"	1205	"	7		X	X	X															
6	MW-1	"	1255	"	7		X	X	X															
7	MW-5	"	1405	"	7		X	X	X															
8	MW-6	12-3-03	1450	water	7		X	X	X															

	Signature	Company	Date	Time
Relinquished by		Golder	12-3-03	4:32
Received by		Onsite	12-3-03	4:32
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

December 29, 2003

Neil Gilham
Golder Associates Inc.
18300 NE Union Hill Road
Suite 200
Redmond, WA 98052-3333

Re: Analytical Data for Project 033-1000.000
Laboratory Reference No. 0312-045

Dear Neil:

Enclosed are the analytical results and associated quality control data for samples submitted on December 3, 2003.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

Case Narrative

Samples were collected on December 2, 2003, and received by the laboratory on December 3, 2003. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Dx Analysis

No surrogate data is available for sample GP-6 0-2.5 due to the necessary dilution of the sample.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Volatiles EPA 8260B Analysis

The 12-065-18 Matrix Spike/Matrix Spike Duplicate RPD for Benzene is slightly outside control limits. The percent recoveries are within control limits and the associated Spike Blank data is within control limits. Please refer to the Spike Blank data associated with this MS/MSD (SB1212S2).

The 12-074-01 Matrix Spike/Matrix Spike Duplicate RPD for Trichloroethene is slightly outside control limits. The percent recoveries are within control limits and the associated Spike Blank data is within control limits. Please refer to the Spike Blank data associated with this MS/MSD (SB1213S1).

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03	
Date Analyzed:	12-11-03	
Matrix: Soil		
Units: mg/kg (ppm)		
Client ID:	**GP-1 (6-8)**	**GP-1 (10-12)**
Lab ID:	12-045-02	12-045-03

	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		7.1	**ND**		6.8
Surrogate Recovery:						
Fluorobenzene	89%			93%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03					
Date Analyzed:	12-11-03					
Matrix: Soil						
Units: mg/kg (ppm)						
Client ID:	**GP-2 (6-8)**			**GP-2 (10-12)**		
Lab ID:	12-045-05			12-045-06		
	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		5.7	**ND**		7.0
Surrogate Recovery:						
Fluorobenzene	109%			92%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03					
Date Analyzed:	12-11-03					
Matrix: Soil						
Units: mg/kg (ppm)						
Client ID:	**GP-3 (6-8)**			**GP-3 (10-12)**		
Lab ID:	12-045-12			12-045-13		
	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		5.3	**ND**		7.0
Surrogate Recovery:						
Fluorobenzene	112%			90%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03					
Date Analyzed:	12-11-03					
Matrix: Soil						
Units: mg/kg (ppm)						
Client ID:	**GP-4 (2-4)**			**GP-4 (6-8)**		
Lab ID:	12-045-14			12-045-15		
	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		5.4	**ND**		5.5
Surrogate Recovery:						
Fluorobenzene	107%			103%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03	
Date Analyzed:	12-11-03	
Matrix: Soil		
Units: mg/kg (ppm)		
Client ID:	**GP-4 (10-12)**	**GP-5 (6-8)**
Lab ID:	12-045-16	12-045-18

	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		7.0	**ND**		5.5
Surrogate Recovery:						
Fluorobenzene	88%			107%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03					
Date Analyzed:	12-11-03					
Matrix: Soil						
Units: mg/kg (ppm)						
Client ID:	**GP-5 (10-12)**			**GP-6 0-2.5**		
Lab ID:	12-045-19			12-045-21		
	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		7.1	**ND**		5.3
Surrogate Recovery:						
Fluorobenzene	89%			111%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03					
Date Analyzed:	12-11-03					
Matrix: Soil						
Units: mg/kg (ppm)						
Client ID:	**GP-8 (6-8')**			**GP-8 (10-12')**		
Lab ID:	12-045-24			12-045-25		
	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		7.2	**ND**		6.6
Surrogate Recovery:						
Fluorobenzene	88%			92%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03					
Date Analyzed:	12-11-03					
Matrix: Soil						
Units: mg/kg (ppm)						
Client ID:	**GP-7 (6-8')**			**GP-7 (10-12')**		
Lab ID:	12-045-26			12-045-27		
	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		6.7	**ND**		7.0
Surrogate Recovery:						
Fluorobenzene	93%			92%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-11-03
Date Analyzed:	12-11-03
Matrix: Soil	
Units: mg/kg (ppm)	
Client ID:	**GP-44 (2-4')**
Lab ID:	12-045-29

	Result	Flags	PQL
TPH-Gas	**ND**		5.4
Surrogate Recovery:			
Fluorobenzene	108%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted:	12-11-03
Date Analyzed:	12-11-03
Matrix: Soil	
Units: mg/kg (ppm)	
Lab ID:	MB1211S1

	Result	Flags	PQL
TPH-Gas	**ND**		5.0
Surrogate Recovery:			
Fluorobenzene	118%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted:	12-11-03
Date Analyzed:	12-11-03
Matrix: Soil	
Units: mg/kg (ppm)	
Lab ID:	MB1211S2

	Result	Flags	PQL
TPH-Gas	**ND**		5.0
Surrogate Recovery:			
Fluorobenzene	120%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 12-11-03
Date Analyzed: 12-11-03

Matrix: Soil
Units: mg/kg (ppm)

Lab ID:	12-045-02 **Original**	12-045-02 **Duplicate**	**RPD**	**Flags**
TPH-Gas	**ND**	**ND**	NA	
Surrogate Recovery:				
Fluorobenzene	89%	87%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 12-11-03
Date Analyzed: 12-11-03

Matrix: Soil
Units: mg/kg (ppm)

Lab ID:	12-045-12 **Original**	12-045-12 **Duplicate**	**RPD**	**Flags**
TPH-Gas	**ND**	**ND**	NA	
Surrogate Recovery:				
Fluorobenzene	112%	110%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted: 12-10-03
Date Analyzed: 12-10-03

Matrix: Water
Units: ug/L (ppb)

Client ID:	**GP-1**			**GP-2**		
Lab ID:	12-045-07			12-045-08		
	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		100	**ND**		100
Surrogate Recovery:						
Fluorobenzene	92%			93%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-10-03	
Date Analyzed:	12-10-03	
Matrix: Water		
Units: ug/L (ppb)		
Client ID:	**GP-3**	**GP-4**
Lab ID:	12-045-09	12-045-10

	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		100	**ND**		100
Surrogate Recovery:						
Fluorobenzene	91%			93%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-10-03	
Date Analyzed:	12-10-03	
Matrix: Water		
Units: ug/L (ppb)		
Client ID:	**GP-5**	**GP-8**
Lab ID:	12-045-20	12-045-22

	Result	Flags	PQL	**Result**	Flags	PQL
TPH-Gas	**ND**		100	**ND**		100
Surrogate Recovery:						
Fluorobenzene	94%			93%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx

Date Extracted:	12-10-03
Date Analyzed:	12-10-03
Matrix: Water	
Units: ug/L (ppb)	
Client ID:	**GP-7**
Lab ID:	12-045-28

	Result	Flags	PQL
TPH-Gas	**ND**		100
Surrogate Recovery:			
Fluorobenzene	95%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx
METHOD BLANK QUALITY CONTROL

Date Extracted:	12-10-03
Date Analyzed:	12-10-03
Matrix: Water	
Units: ug/L (ppb)	
Lab ID:	MB1210W2

	Result	Flags	PQL
TPH-Gas	**ND**		100
Surrogate Recovery:			
Fluorobenzene	91%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Gx
DUPLICATE QUALITY CONTROL

Date Extracted: 12-10-03
Date Analyzed: 12-10-03

Matrix: Water
Units: ug/L (ppb)

Lab ID:	12-045-08 **Original**	12-045-08 **Duplicate**	**RPD**	**Flags**
TPH-Gas	**ND**	**ND**	NA	
Surrogate Recovery:				
Fluorobenzene	93%	89%		

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Client ID:	**GP-1 (6-8)**	**GP-1 (10-12)**	**GP-2 (6-8)**
Lab ID:	12-045-02	12-045-03	12-045-05
Diesel Range:	**ND**	**ND**	**ND**
PQL:	36	34	28
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	71	68	57
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	108%	121%	121%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Client ID:	**GP-2 (10-12)**	**GP-3 (6-8)**	**GP-3 (10-12)**
Lab ID:	12-045-06	12-045-12	12-045-13
Diesel Range:	**ND**	**ND**	**ND**
PQL:	35	26	35
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	70	53	70
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	105%	123%	115%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Client ID:	**GP-4 (2-4)**	**GP-4 (6-8)**	**GP-4 (10-12)**
Lab ID:	12-045-14	12-045-15	12-045-16
Diesel Range:	**ND**	**ND**	**ND**
PQL:	130	28	35
Identification:	---	---	---
Lube Oil Range:	**1300**	**ND**	**90**
PQL:	270	55	70
Identification:	Lube Oil	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	140%	131%	101%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Client ID:	**GP-5 (6-8)**	**GP-5 (10-12)**	**GP-6 0-2.5**
Lab ID:	12-045-18	12-045-19	12-045-21
Diesel Range:	**ND**	**ND**	**ND**
PQL:	28	36	270
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**4000**
PQL:	55	71	530
Identification:	---	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	146%	138%	---
Flags:	Y	Y	Y,S

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Client ID:	**GP-8 (6-8')**	**GP-8 (10-12')**	**GP-7 (6-8')**
Lab ID:	12-045-24	12-045-25	12-045-26
Diesel Range:	**ND**	**ND**	**ND**
PQL:	36	33	33
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	72	66	67
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	130%	130%	114%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Client ID:	**GP-7 (10-12')**	**GP-44 (2-4')**
Lab ID:	12-045-27	12-045-29
Diesel Range:	**ND**	**ND**
PQL:	35	130
Identification:	---	---
Lube Oil Range:	**ND**	**800**
PQL:	70	270
Identification:	---	Lube Oil
Surrogate Recovery		
o-Terphenyl:	128%	139%
Flags:	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB1212S2
Diesel Range:	**ND**
PQL:	25
Identification:	---
Lube Oil Range:	**ND**
PQL:	50
Identification:	---
Surrogate Recovery	
o-Terphenyl:	133%
Flags:	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	12-045-05	12-045-05 DUP
Diesel Range:	**ND**	**ND**
PQL:	25	25
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	121%	116%
Flags:	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	12-045-29	12-045-29 DUP
Diesel Range:	**ND**	**ND**
PQL:	130	130
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	139%	117%
Flags:	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted: 12-12-03
Date Analyzed: 12-14&15-03

Matrix: Water
Units: mg/L (ppm)

Client ID:	**GP-1**	**GP-2**	**GP-3**
Lab ID:	12-045-07	12-045-08	12-045-09
Diesel Range:	**ND**	**ND**	**ND**
PQL:	0.25	0.26	0.26
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	0.40	0.41	0.42
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	79%	105%	88%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Water
Units:	mg/L (ppm)

Client ID:	**GP-4**	**GP-5**	**GP-8**
Lab ID:	12-045-10	12-045-20	12-045-22
Diesel Range:	**ND**	**ND**	**ND**
PQL:	0.26	0.26	0.25
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	0.42	0.41	0.40
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	116%	117%	117%
Flags:	Y	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Water
Units:	mg/L (ppm)

Client ID:	**GP-7**
Lab ID:	12-045-28
Diesel Range:	**ND**
PQL:	0.28
Identification:	---
Lube Oil Range:	**ND**
PQL:	0.44
Identification:	---
Surrogate Recovery	
o-Terphenyl:	102%
Flags:	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Water
Units:	mg/L (ppm)
Lab ID:	MB1212W1
Diesel Range:	**ND**
PQL:	0.25
Identification:	---
Lube Oil Range:	**ND**
PQL:	0.40
Identification:	---
Surrogate Recovery	
o-Terphenyl:	115%
Flags:	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	12-12-03
Date Analyzed:	12-14-03
Matrix:	Water
Units:	mg/L (ppm)

Lab ID:	12-046-01	12-046-01 DUP
Diesel Range:	**ND**	**ND**
PQL:	0.25	0.26
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	105%	95%
Flags:	Y	Y

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-02
Client ID:	**GP-1 (6-8)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	ND		0.0071
Iodomethane	ND		0.0071
Carbon Disulfide	ND		0.0014
Methylene Chloride	ND		0.0071
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0071
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	ND		0.0071
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0071
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0071
Toluene	0.0020		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
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Project: 033-1000.000

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Lab ID: 12-045-02
Client ID: GP-1 (6-8)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0071
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0029
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0071
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0071
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	87	60-137
Toluene, d8	89	71-129
4-Bromofluorobenzene	83	60-149

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-03
Client ID:	**GP-1 (10-12)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	0.036		0.0068
Iodomethane	ND		0.0068
Carbon Disulfide	ND		0.0014
Methylene Chloride	ND		0.0068
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0068
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	0.0084		0.0068
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0068
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0068
Toluene	ND		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

Date of Report: December 29, 2003
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Lab ID: 12-045-03
Client ID: GP-1 (10-12)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0068
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0027
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0068
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0068
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	60-137
Toluene, d8	88	71-129
4-Bromofluorobenzene	92	60-149

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-05
Client ID:	**GP-2 (6-8)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0057
Iodomethane	ND		0.0057
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0057
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0057
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0057
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0057
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0057
Toluene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: December 29, 2003
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Lab ID: 12-045-05
Client ID: GP-2 (6-8)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0057
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0023
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0057
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0057
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	88	60-137
Toluene, d8	94	71-129
4-Bromofluorobenzene	89	60-149

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-06
Client ID:	**GP-2 (10-12)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	0.094		0.0070
Iodomethane	ND		0.0070
Carbon Disulfide	0.0026		0.0014
Methylene Chloride	ND		0.0070
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0070
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	ND		0.0070
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0070
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0070
Toluene	ND		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

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Lab ID: 12-045-06
Client ID: GP-2 (10-12)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0070
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0028
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0070
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0070
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	93	60-137
Toluene, d8	95	71-129
4-Bromofluorobenzene	82	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-12
Client ID:	**GP-3 (6-8)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0053
Iodomethane	ND		0.0053
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0053
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0053
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0053
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0053
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0053
Toluene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

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Lab ID: 12-045-12
Client ID: GP-3 (6-8)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0053
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0021
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0053
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0053
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	88	60-137
Toluene, d8	87	71-129
4-Bromofluorobenzene	93	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-13
Client ID:	**GP-3 (10-12)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	0.15		0.0070
Iodomethane	ND		0.0070
Carbon Disulfide	ND		0.0014
Methylene Chloride	ND		0.0070
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0070
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	0.034		0.0070
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0070
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0070
Toluene	ND		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

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Lab ID: 12-045-13
Client ID: GP-3 (10-12)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0070
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0028
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0070
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0070
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	60-137
Toluene, d8	86	71-129
4-Bromofluorobenzene	85	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-14
Client ID:	**GP-4 (2-4)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0054
Iodomethane	ND		0.0054
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0054
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0054
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0054
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0054
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0054
Toluene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

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Lab ID: 12-045-14
Client ID: GP-4 (2-4)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0054
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0022
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0054
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0054
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	88	60-137
Toluene, d8	86	71-129
4-Bromofluorobenzene	82	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-15
Client ID:	**GP-4 (6-8)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0055
Iodomethane	ND		0.0055
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0055
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0055
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0055
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0055
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0055
Toluene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

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Lab ID: 12-045-15
Client ID: GP-4 (6-8)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0055
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0022
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0055
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0055
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	60-137
Toluene, d8	86	71-129
4-Bromofluorobenzene	86	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-16
Client ID:	**GP-4 (10-12)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	0.090		0.0070
Iodomethane	ND		0.0070
Carbon Disulfide	0.0027		0.0014
Methylene Chloride	ND		0.0070
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0070
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	0.017		0.0070
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0070
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0070
Toluene	ND		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

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Lab ID: 12-045-16
Client ID: GP-4 (10-12)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0070
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0028
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0070
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0070
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	89	60-137
Toluene, d8	85	71-129
4-Bromofluorobenzene	84	60-149

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-18
Client ID:	**GP-5 (6-8)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0055
Iodomethane	ND		0.0055
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0055
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0055
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0055
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0055
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0055
Toluene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

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Lab ID: 12-045-18
Client ID: GP-5 (6-8)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0055
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0022
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0055
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0055
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	60-137
Toluene, d8	89	71-129
4-Bromofluorobenzene	90	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-19
Client ID:	**GP-5 (10-12)**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	0.23		0.0071
Iodomethane	ND		0.0071
Carbon Disulfide	ND		0.0014
Methylene Chloride	ND		0.0071
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0071
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	0.048		0.0071
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0071
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0071
Toluene	ND		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

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Lab ID: 12-045-19
Client ID: GP-5 (10-12)

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0071
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0029
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0071
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0071
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	89	60-137
Toluene, d8	84	71-129
4-Bromofluorobenzene	83	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-21
Client ID:	**GP-6 0-2.5**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0053
Iodomethane	ND		0.0053
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0053
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0053
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0053
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0053
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0053
Toluene	ND		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

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Lab ID: 12-045-21
Client ID: GP-6 0-2.5

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	0.0052		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0053
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0021
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	0.0012		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0053
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0053
Naphthalene	0.0015		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	60-137
Toluene, d8	83	71-129
4-Bromofluorobenzene	78	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-24
Client ID:	**GP-8 (6-8')**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	ND		0.0072
Iodomethane	ND		0.0072
Carbon Disulfide	ND		0.0014
Methylene Chloride	ND		0.0072
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0072
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	ND		0.0072
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0072
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0072
Toluene	0.0016		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

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Lab ID: 12-045-24
Client ID: GP-8 (6-8')

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	0.0096		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0072
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0029
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0072
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0072
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	60-137
Toluene, d8	88	71-129
4-Bromofluorobenzene	82	60-149

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Date Extracted:	12-12-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-25
Client ID:	**GP-8 (10-12')**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0013
Chloromethane	ND		0.0013
Vinyl Chloride	ND		0.0013
Bromomethane	ND		0.0013
Chloroethane	ND		0.0013
Trichlorofluoromethane	ND		0.0013
1,1-Dichloroethene	ND		0.0013
Acetone	0.040		0.0066
Iodomethane	ND		0.0066
Carbon Disulfide	ND		0.0013
Methylene Chloride	ND		0.0066
(trans) 1,2-Dichloroethene	ND		0.0013
Methyl t-Butyl Ether	ND		0.0013
1,1-Dichloroethane	ND		0.0013
Vinyl Acetate	ND		0.0066
2,2-Dichloropropane	ND		0.0013
(cis) 1,2-Dichloroethene	ND		0.0013
2-Butanone	0.011		0.0066
Bromochloromethane	ND		0.0013
Chloroform	ND		0.0013
1,1,1-Trichloroethane	ND		0.0013
Carbon Tetrachloride	ND		0.0013
1,1-Dichloropropene	ND		0.0013
Benzene	ND		0.0013
1,2-Dichloroethane	ND		0.0013
Trichloroethene	ND		0.0013
1,2-Dichloropropane	ND		0.0013
Dibromomethane	ND		0.0013
Bromodichloromethane	ND		0.0013
2-Chloroethyl Vinyl Ether	ND		0.0066
(cis) 1,3-Dichloropropene	ND		0.0013
Methyl Isobutyl Ketone	ND		0.0066
Toluene	ND		0.0013
(trans) 1,3-Dichloropropene	ND		0.0013

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Lab ID: 12-045-25
Client ID: GP-8 (10-12')

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0013
Tetrachloroethene	ND		0.0013
1,3-Dichloropropane	ND		0.0013
2-Hexanone	ND		0.0066
Dibromochloromethane	ND		0.0013
1,2-Dibromoethane	ND		0.0013
Chlorobenzene	ND		0.0013
1,1,1,2-Tetrachloroethane	ND		0.0013
Ethylbenzene	ND		0.0013
m,p-Xylene	ND		0.0026
o-Xylene	ND		0.0013
Styrene	ND		0.0013
Bromoform	ND		0.0013
Isopropylbenzene	ND		0.0013
Bromobenzene	ND		0.0013
1,1,2,2-Tetrachloroethane	ND		0.0013
1,2,3-Trichloropropane	ND		0.0013
n-Propylbenzene	ND		0.0013
2-Chlorotoluene	ND		0.0013
4-Chlorotoluene	ND		0.0013
1,3,5-Trimethylbenzene	ND		0.0013
tert-Butylbenzene	ND		0.0013
1,2,4-Trimethylbenzene	ND		0.0013
sec-Butylbenzene	ND		0.0013
1,3-Dichlorobenzene	ND		0.0013
p-Isopropyltoluene	ND		0.0013
1,4-Dichlorobenzene	ND		0.0013
1,2-Dichlorobenzene	ND		0.0013
n-Butylbenzene	ND		0.0013
1,2-Dibromo-3-chloropropane	ND		0.0066
1,2,4-Trichlorobenzene	ND		0.0013
Hexachlorobutadiene	ND		0.0066
Naphthalene	ND		0.0013
1,2,3-Trichlorobenzene	ND		0.0013

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	86	60-137
Toluene, d8	91	71-129
4-Bromofluorobenzene	84	60-149

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Date Extracted:	12-13-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-26
Client ID:	**GP-7 (6-8')**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0013
Chloromethane	ND		0.0013
Vinyl Chloride	ND		0.0013
Bromomethane	ND		0.0013
Chloroethane	ND		0.0013
Trichlorofluoromethane	ND		0.0013
1,1-Dichloroethene	ND		0.0013
Acetone	0.012		0.0067
Iodomethane	ND		0.0067
Carbon Disulfide	ND		0.0013
Methylene Chloride	ND		0.0067
(trans) 1,2-Dichloroethene	ND		0.0013
Methyl t-Butyl Ether	ND		0.0013
1,1-Dichloroethane	ND		0.0013
Vinyl Acetate	ND		0.0067
2,2-Dichloropropane	ND		0.0013
(cis) 1,2-Dichloroethene	ND		0.0013
2-Butanone	ND		0.0067
Bromochloromethane	ND		0.0013
Chloroform	ND		0.0013
1,1,1-Trichloroethane	ND		0.0013
Carbon Tetrachloride	ND		0.0013
1,1-Dichloropropene	ND		0.0013
Benzene	ND		0.0013
1,2-Dichloroethane	ND		0.0013
Trichloroethene	ND		0.0013
1,2-Dichloropropane	ND		0.0013
Dibromomethane	ND		0.0013
Bromodichloromethane	ND		0.0013
2-Chloroethyl Vinyl Ether	ND		0.0067
(cis) 1,3-Dichloropropene	ND		0.0013
Methyl Isobutyl Ketone	ND		0.0067
Toluene	ND		0.0013
(trans) 1,3-Dichloropropene	ND		0.0013

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Lab ID: 12-045-26
Client ID: GP-7 (6-8')

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0013
Tetrachloroethene	ND		0.0013
1,3-Dichloropropane	ND		0.0013
2-Hexanone	ND		0.0067
Dibromochloromethane	ND		0.0013
1,2-Dibromoethane	ND		0.0013
Chlorobenzene	ND		0.0013
1,1,1,2-Tetrachloroethane	ND		0.0013
Ethylbenzene	ND		0.0013
m,p-Xylene	ND		0.0027
o-Xylene	ND		0.0013
Styrene	ND		0.0013
Bromoform	ND		0.0013
Isopropylbenzene	ND		0.0013
Bromobenzene	ND		0.0013
1,1,2,2-Tetrachloroethane	ND		0.0013
1,2,3-Trichloropropane	ND		0.0013
n-Propylbenzene	ND		0.0013
2-Chlorotoluene	ND		0.0013
4-Chlorotoluene	ND		0.0013
1,3,5-Trimethylbenzene	ND		0.0013
tert-Butylbenzene	ND		0.0013
1,2,4-Trimethylbenzene	ND		0.0013
sec-Butylbenzene	ND		0.0013
1,3-Dichlorobenzene	ND		0.0013
p-Isopropyltoluene	ND		0.0013
1,4-Dichlorobenzene	ND		0.0013
1,2-Dichlorobenzene	ND		0.0013
n-Butylbenzene	ND		0.0013
1,2-Dibromo-3-chloropropane	ND		0.0067
1,2,4-Trichlorobenzene	ND		0.0013
Hexachlorobutadiene	ND		0.0067
Naphthalene	ND		0.0013
1,2,3-Trichlorobenzene	ND		0.0013

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	90	60-137
Toluene, d8	93	71-129
4-Bromofluorobenzene	85	60-149

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Date Extracted:	12-13-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-27
Client ID:	**GP-7 (10-12')**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0014
Chloromethane	ND		0.0014
Vinyl Chloride	ND		0.0014
Bromomethane	ND		0.0014
Chloroethane	ND		0.0014
Trichlorofluoromethane	ND		0.0014
1,1-Dichloroethene	ND		0.0014
Acetone	0.076		0.0070
Iodomethane	ND		0.0070
Carbon Disulfide	ND		0.0014
Methylene Chloride	ND		0.0070
(trans) 1,2-Dichloroethene	ND		0.0014
Methyl t-Butyl Ether	ND		0.0014
1,1-Dichloroethane	ND		0.0014
Vinyl Acetate	ND		0.0070
2,2-Dichloropropane	ND		0.0014
(cis) 1,2-Dichloroethene	ND		0.0014
2-Butanone	0.015		0.0070
Bromochloromethane	ND		0.0014
Chloroform	ND		0.0014
1,1,1-Trichloroethane	ND		0.0014
Carbon Tetrachloride	ND		0.0014
1,1-Dichloropropene	ND		0.0014
Benzene	ND		0.0014
1,2-Dichloroethane	ND		0.0014
Trichloroethene	ND		0.0014
1,2-Dichloropropane	ND		0.0014
Dibromomethane	ND		0.0014
Bromodichloromethane	ND		0.0014
2-Chloroethyl Vinyl Ether	ND		0.0070
(cis) 1,3-Dichloropropene	ND		0.0014
Methyl Isobutyl Ketone	ND		0.0070
Toluene	ND		0.0014
(trans) 1,3-Dichloropropene	ND		0.0014

Date of Report: December 16, 2003
Samples Submitted: December 3, 2003
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Lab ID: 12-045-27
Client ID: GP-7 (10-12')

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0014
Tetrachloroethene	ND		0.0014
1,3-Dichloropropane	ND		0.0014
2-Hexanone	ND		0.0070
Dibromochloromethane	ND		0.0014
1,2-Dibromoethane	ND		0.0014
Chlorobenzene	ND		0.0014
1,1,1,2-Tetrachloroethane	ND		0.0014
Ethylbenzene	ND		0.0014
m,p-Xylene	ND		0.0028
o-Xylene	ND		0.0014
Styrene	ND		0.0014
Bromoform	ND		0.0014
Isopropylbenzene	ND		0.0014
Bromobenzene	ND		0.0014
1,1,2,2-Tetrachloroethane	ND		0.0014
1,2,3-Trichloropropane	ND		0.0014
n-Propylbenzene	ND		0.0014
2-Chlorotoluene	ND		0.0014
4-Chlorotoluene	ND		0.0014
1,3,5-Trimethylbenzene	ND		0.0014
tert-Butylbenzene	ND		0.0014
1,2,4-Trimethylbenzene	ND		0.0014
sec-Butylbenzene	ND		0.0014
1,3-Dichlorobenzene	ND		0.0014
p-Isopropyltoluene	ND		0.0014
1,4-Dichlorobenzene	ND		0.0014
1,2-Dichlorobenzene	ND		0.0014
n-Butylbenzene	ND		0.0014
1,2-Dibromo-3-chloropropane	ND		0.0070
1,2,4-Trichlorobenzene	ND		0.0014
Hexachlorobutadiene	ND		0.0070
Naphthalene	ND		0.0014
1,2,3-Trichlorobenzene	ND		0.0014

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	85	60-137
Toluene, d8	88	71-129
4-Bromofluorobenzene	83	60-149

Date of Report: December 16, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
Page 1 of 2

Date Extracted:	12-13-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	12-045-29
Client ID:	**GP-44 (2-4')**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0054
Iodomethane	ND		0.0054
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0054
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0054
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0054
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	ND		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0054
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0054
Toluene	0.0011		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
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Lab ID: 12-045-29
Client ID: GP-44 (2-4')

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011
2-Hexanone	ND		0.0054
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0022
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0054
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0054
Naphthalene	0.0013		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	89	60-137
Toluene, d8	91	71-129
4-Bromofluorobenzene	81	60-149

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Date Extracted:	12-12-03
Date Analyzed:	12-12-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB1212S2

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0010
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0010
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
Iodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
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Lab ID: MB1212S2

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	87	60-137
Toluene, d8	89	71-129
4-Bromofluorobenzene	83	60-149

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Date Extracted:	12-13-03
Date Analyzed:	12-13-03
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB1213S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0010
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0010
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
Iodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

Date of Report: December 29, 2003
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VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Lab ID: MB1213S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	83	60-137
Toluene, d8	87	71-129
4-Bromofluorobenzene	88	60-149

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
MS/MSD QUALITY CONTROL

Date Extracted: 12-12-03
Date Analyzed: 12-12-03

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-065-18

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	0.0500	0.056	113	0.054	108	30-153	
Benzene	ND	0.0500	0.055	111	0.0553	99	58-140	
Trichloroethene	ND	0.0500	0.052	105	0.053	106	38-130	
Toluene	ND	0.0500	0.053	105	0.053	106	28-147	
Chlorobenzene	ND	0.0500	0.057	114	0.056	111	47-131	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	5	11	
Benzene	12	11	L
Trichloroethene	1	11	
Toluene	1	10	
Chlorobenzene	3	11	

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
MS/MSD QUALITY CONTROL

Date Extracted: 12-13-03
Date Analyzed: 12-13-03

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-074-01

Compound	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	ND	0.0500	0.0520	104	0.0551	110	30-153	
Benzene	ND	0.0500	0.0505	101	0.0536	107	58-140	
Trichloroethene	ND	0.0500	0.0435	87	0.0494	99	38-130	
Toluene	ND	0.0500	0.0488	98	0.0505	101	28-147	
Chlorobenzene	ND	0.0500	0.0514	103	0.0508	102	47-131	

	RPD	RPD Limit	Flags
1,1-Dichloroethene	6	11	
Benzene	6	11	
Trichloroethene	13	11	L
Toluene	3	10	
Chlorobenzene	1	11	

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
SPIKE BLANK QUALITY CONTROL

Date Extracted: 12-12-03
Date Analyzed: 12-12-03

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB1212S2

Compound	Spike Amount	Spike Recovery	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0580	116	45-145	
Benzene	0.0500	0.0531	106	67-138	
Trichloroethene	0.0500	0.0521	104	49-136	
Toluene	0.0500	0.0522	104	72-121	
Chlorobenzene	0.0500	0.0568	114	66-137	

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

VOLATILES by EPA 8260B
SPIKE BLANK QUALITY CONTROL

Date Extracted: 12-13-03
Date Analyzed: 12-13-03

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB1213S1

Compound	Spike Amount	Spike Recovery	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0534	107	45-145	
Benzene	0.0500	0.0519	104	67-138	
Trichloroethene	0.0500	0.0529	106	49-136	
Toluene	0.0500	0.0541	108	72-121	
Chlorobenzene	0.0500	0.0556	111	66-137	

Date of Report: December 29, 2003
Samples Submitted: December 3, 2003
Laboratory Reference: 0312-045
Project: 033-1000.000

% MOISTURE

Date Analyzed: 12-11-03

Client ID	Lab ID	% Moisture
GP-1 (6-8)	12-045-02	30
GP-1 (10-12)	12-045-03	27
GP-2 (6-8)	12-045-05	12
GP-2 (10-12)	12-045-06	29
GP-3 (6-8)	12-045-12	5
GP-3 (10-12)	12-045-13	29
GP-4 (2-4)	12-045-14	7
GP-4 (6-8)	12-045-15	9
GP-4 (10-12)	12-045-16	29
GP-5 (6-8)	12-045-18	9
GP-5 (10-12)	12-045-19	30
GP-6 0-2.5	12-045-21	6
GP-8 (6-8)	12-045-24	31
GP-8 (10-12)	12-045-25	24
GP-7 (6-8)	12-045-26	25
GP-7 (10-12)	12-045-27	29
GP-44 (2-4)	12-045-29	7

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

SEVERN TRENT STL

STL Seattle
5755 8th Street East
Tacoma, WA 98424

Tel: 253 922 2310
Fax: 253 922 5047
www.stl-inc.com

TRANSMITTAL MEMORANDUM

DATE: December 19, 2003

TO: David Baumeister
OnSite Environmental, Inc.
14648 N. E. 95th St.
Redmond, WA 98052

PROJECT: 12-045

REPORT NUMBER: 118327

TOTAL NUMBER OF PAGES: 20

Enclosed are the test results for seven samples received at STL Seattle on December 12, 2003.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Stan Palmquist
Project Manager

Sample Identification:

Lab. No.	Client ID	Date/Time Sampled	Matrix
118327-1	GP-1	12-02-03 *	Liquid
118327-2	GP-2	12-02-03 *	Liquid
118327-3	GP-3	12-02-03 *	Liquid
118327-4	GP-4	12-02-03 *	Liquid
118327-5	GP-5	12-02-03 *	Liquid
118327-6	GP-8	12-02-03 *	Liquid
118327-7	GP-7	12-02-03 *	Liquid

* - Sampling time not specified for this sample

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	GP-1
Lab ID:	118327-01
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	92.4		80	120
Fluorobenzene	102		80	120
Toluene-D8	105		80	120
Ethylbenzene-d10	113		80	120
Bromofluorobenzene	110		80	120
Trifluorotoluene	103		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118327-01 continued...

Analyte	Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
1,3-Dichloropropane	ND	1	0.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
Bromobenzene	ND	1	0.5
n-Propylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,2,3-Trichloropropane	ND	1	0.5
2-Chlorotoluene	ND	1	0.5
1,3,5-Trimethylbenzene	ND	1	0.5
4-Chlorotoluene	ND	1	0.5
t-Butylbenzene	ND	1	0.5
1,2,4-Trimethylbenzene	ND	1	0.5
sec-Butylbenzene	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
4-Isopropyltoluene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
n-Butylbenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Hexachlorobutadiene	ND	1	0.5
Naphthalene	ND	2	1
1,2,3-Trichlorobenzene	ND	1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	GP-2
Lab ID:	118327-02
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	90.8		80	120
Fluorobenzene	101		80	120
Toluene-D8	106		80	120
Ethylbenzene-d10	110		80	120
Bromofluorobenzene	106		80	120
Trifluorotoluene	107		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118327-02 continued...

Analyte	Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
1,3-Dichloropropane	ND	1	0.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
Bromobenzene	ND	1	0.5
n-Propylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,2,3-Trichloropropane	ND	1	0.5
2-Chlorotoluene	ND	1	0.5
1,3,5-Trimethylbenzene	ND	1	0.5
4-Chlorotoluene	ND	1	0.5
t-Butylbenzene	ND	1	0.5
1,2,4-Trimethylbenzene	ND	1	0.5
sec-Butylbenzene	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
4-Isopropyltoluene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
n-Butylbenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Hexachlorobutadiene	ND	1	0.5
Naphthalene	ND	2	1
1,2,3-Trichlorobenzene	ND	1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	GP-3
Lab ID:	118327-03
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	91.4		80	120
Fluorobenzene	101		80	120
Toluene-D8	105		80	120
Ethylbenzene-d10	111		80	120
Bromofluorobenzene	106		80	120
Trifluorotoluene	102		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118327-03 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	GP-4
Lab ID:	118327-04
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	92.5		80	120
Fluorobenzene	102		80	120
Toluene-D8	107		80	120
Ethylbenzene-d10	111		80	120
Bromofluorobenzene	109		80	120
Trifluorotoluene	106		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118327-04 continued...

Analyte	Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
1,3-Dichloropropane	ND	1	0.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
Bromobenzene	ND	1	0.5
n-Propylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,2,3-Trichloropropane	ND	1	0.5
2-Chlorotoluene	ND	1	0.5
1,3,5-Trimethylbenzene	ND	1	0.5
4-Chlorotoluene	ND	1	0.5
t-Butylbenzene	ND	1	0.5
1,2,4-Trimethylbenzene	ND	1	0.5
sec-Butylbenzene	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
4-Isopropyltoluene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
n-Butylbenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Hexachlorobutadiene	ND	1	0.5
Naphthalene	ND	2	1
1,2,3-Trichlorobenzene	ND	1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	GP-5
Lab ID:	118327-05
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	91.3		80	120
Fluorobenzene	100		80	120
Toluene-D8	107		80	120
Ethylbenzene-d10	109		80	120
Bromofluorobenzene	107		80	120
Trifluorotoluene	102		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	ND	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118327-05 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	GP-8
Lab ID:	118327-06
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	91.5		80	120
Fluorobenzene	102		80	120
Toluene-D8	104		80	120
Ethylbenzene-d10	108		80	120
Bromofluorobenzene	107		80	120
Trifluorotoluene	101		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	1.69	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118327-06 continued...

Analyte	Result (ug/L)	PQL	MRL	
1,1,2-Trichloroethane	ND	1	0.5	
Tetrachloroethene	0.554	1	0.5	J
1,3-Dichloropropane	ND	1	0.5	
Dibromochloromethane	ND	1	0.5	
1,2-Dibromoethane	ND	1	0.5	
Chlorobenzene	ND	1	0.5	
Ethylbenzene	ND	1	0.5	
1,1,1,2-Tetrachloroethane	ND	1	0.5	
m,p-Xylene	ND	2	1	
o-Xylene	ND	1	0.5	
Styrene	ND	1	0.5	
Bromoform	ND	1	0.5	
Isopropylbenzene	ND	1	0.5	
Bromobenzene	ND	1	0.5	
n-Propylbenzene	ND	1	0.5	
1,1,2,2-Tetrachloroethane	ND	1	0.5	
1,2,3-Trichloropropane	ND	1	0.5	
2-Chlorotoluene	ND	1	0.5	
1,3,5-Trimethylbenzene	ND	1	0.5	
4-Chlorotoluene	ND	1	0.5	
t-Butylbenzene	ND	1	0.5	
1,2,4-Trimethylbenzene	ND	1	0.5	
sec-Butylbenzene	ND	1	0.5	
1,3-Dichlorobenzene	ND	1	0.5	
4-Isopropyltoluene	ND	1	0.5	
1,4-Dichlorobenzene	ND	1	0.5	
n-Butylbenzene	ND	1	0.5	
1,2-Dichlorobenzene	ND	1	0.5	
1,2-Dibromo-3-chloropropane	ND	1	0.5	
1,2,4-Trichlorobenzene	ND	1	0.5	
Hexachlorobutadiene	ND	1	0.5	
Naphthalene	ND	2	1	
1,2,3-Trichlorobenzene	ND	1	0.5	

STL Seattle

Client Name	OnSite Environmental, Inc.
Client ID:	GP-7
Lab ID:	118327-07
Date Received:	12/12/2003
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	92.1		80	120
Fluorobenzene	101		80	120
Toluene-D8	105		80	120
Ethylbenzene-d10	112		80	120
Bromofluorobenzene	109		80	120
Trifluorotoluene	108		80	120

Analyte	Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	1	0.5	
Chloromethane	ND	2	1	
Vinyl chloride	ND	1	0.5	
Bromomethane	ND	2.5	1.25	
Chloroethane	ND	1	0.5	
Trichlorofluoromethane	ND	1	0.5	
1,1-Dichloroethene	ND	1	0.5	
Methylene chloride	ND	2	1	
trans-1,2-Dichloroethene	ND	1	0.5	
1,1-Dichloroethane	ND	1	0.5	
2,2-Dichloropropane	ND	1	0.5	
cis-1,2-Dichloroethene	10.2	1	0.5	
Bromochloromethane	ND	1	0.5	
Chloroform	ND	1	0.5	
1,1,1-Trichloroethane	ND	1	0.5	
Carbon Tetrachloride	ND	1	0.5	
1,1-Dichloropropene	ND	1	0.5	
Benzene	ND	1	0.5	
1,2-Dichloroethane	ND	1	0.5	
Trichloroethene	ND	1	0.5	
1,2-Dichloropropane	ND	1	0.5	
Dibromomethane	ND	1	0.5	
Bromodichloromethane	ND	1	0.5	
cis-1,3-Dichloropropene	ND	1	0.5	
Toluene	ND	1	0.5	
trans-1,3-Dichloropropene	ND	1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for 118327-07 continued...

Analyte		Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND		1	0.5
Tetrachloroethene	ND		1	0.5
1,3-Dichloropropane	ND		1	0.5
Dibromochloromethane	ND		1	0.5
1,2-Dibromoethane	ND		1	0.5
Chlorobenzene	ND		1	0.5
Ethylbenzene	ND		1	0.5
1,1,1,2-Tetrachloroethane	ND		1	0.5
m,p-Xylene	ND		2	1
o-Xylene	ND		1	0.5
Styrene	ND		1	0.5
Bromoform	ND		1	0.5
Isopropylbenzene	ND		1	0.5
Bromobenzene	ND		1	0.5
n-Propylbenzene	ND		1	0.5
1,1,2,2-Tetrachloroethane	ND		1	0.5
1,2,3-Trichloropropane	ND		1	0.5
2-Chlorotoluene	ND		1	0.5
1,3,5-Trimethylbenzene	ND		1	0.5
4-Chlorotoluene	ND		1	0.5
t-Butylbenzene	ND		1	0.5
1,2,4-Trimethylbenzene	ND		1	0.5
sec-Butylbenzene	ND		1	0.5
1,3-Dichlorobenzene	ND		1	0.5
4-Isopropyltoluene	ND		1	0.5
1,4-Dichlorobenzene	ND		1	0.5
n-Butylbenzene	ND		1	0.5
1,2-Dichlorobenzene	ND		1	0.5
1,2-Dibromo-3-chloropropane	ND		1	0.5
1,2,4-Trichlorobenzene	ND		1	0.5
Hexachlorobutadiene	ND		1	0.5
Naphthalene	ND		2	1
1,2,3-Trichlorobenzene	ND		1	0.5

STL Seattle

Lab ID:	Method Blank - VOA595
Date Received:	-
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

SMC / Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	90.8		80	120
Fluorobenzene	101		80	120
Toluene-D8	106		80	120
Ethylbenzene-d10	114		80	120
Bromofluorobenzene	110		80	120
Trifluorotoluene	110		80	120

Analyte		Result (ug/L)	PQL	MRL	Flags
Dichlorodifluoromethane	ND		1	0.5	
Chloromethane	ND		2	1	
Vinyl chloride	ND		1	0.5	
Bromomethane	ND		2.5	1.25	
Chloroethane	ND		1	0.5	
Trichlorofluoromethane	ND		1	0.5	
1,1-Dichloroethene	ND		1	0.5	
Methylene chloride	ND		2	1	
trans-1,2-Dichloroethene	ND		1	0.5	
1,1-Dichloroethane	ND		1	0.5	
2,2-Dichloropropane	ND		1	0.5	
cis-1,2-Dichloroethene	ND		1	0.5	
Bromochloromethane	ND		1	0.5	
Chloroform	ND		1	0.5	
1,1,1-Trichloroethane	ND		1	0.5	
Carbon Tetrachloride	ND		1	0.5	
1,1-Dichloropropene	ND		1	0.5	
Benzene	ND		1	0.5	
1,2-Dichloroethane	ND		1	0.5	
Trichloroethene	ND		1	0.5	
1,2-Dichloropropane	ND		1	0.5	
Dibromomethane	ND		1	0.5	
Bromodichloromethane	ND		1	0.5	
cis-1,3-Dichloropropene	ND		1	0.5	
Toluene	ND		1	0.5	
trans-1,3-Dichloropropene	ND		1	0.5	

STL Seattle

Volatile Organics by USEPA Method 5030/8260B data for VOA595 continued...

Analyte	Result (ug/L)	PQL	MRL
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
1,3-Dichloropropane	ND	1	0.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
Bromobenzene	ND	1	0.5
n-Propylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,2,3-Trichloropropane	ND	1	0.5
2-Chlorotoluene	ND	1	0.5
1,3,5-Trimethylbenzene	ND	1	0.5
4-Chlorotoluene	ND	1	0.5
t-Butylbenzene	ND	1	0.5
1,2,4-Trimethylbenzene	ND	1	0.5
sec-Butylbenzene	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
4-Isopropyltoluene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
n-Butylbenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Hexachlorobutadiene	ND	1	0.5
Naphthalene	ND	2	1
1,2,3-Trichlorobenzene	ND	1	0.5

STL Seattle

Blank Spike/Blank Spike Duplicate Report

Lab ID:	VOA595
Date Prepared:	12/15/2003
Date Analyzed:	12/15/2003
QC Batch ID:	VOA595

Volatile Organics by USEPA Method 5030/8260B

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % Rec.	RPD	Flag
1,1-Dichloroethene	0	5	4.59	91.8	4.51	90.1	-1.9	
Benzene	0	5	4.87	97.5	4.73	94.5	-3.1	
Trichloroethene	0	5	4.86	97.3	5	100	2.7	
Toluene	0	5	4.8	96	4.74	94.9	-1.2	
Chlorobenzene	0	5	5	100	5.03	101	1	

CHAIN OF CUSTODY RECORD

18360

(FOR SUBCONTRACT LABORATORY)

Lab Reference Number: 12-045

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

Project Manager: David Baumeister

Project Number: 033-1000.000

Project Name: Consolidated Freightway

dash	Sample Number/Name	Date Sampled	Matrix	# Jars	Analysis Requested	Comments
	GP-1	12/02/2003	W	3	Volatiles EPA 8260B	HOLD TIME 12/16
	GP-2	12/02/2003	W	3	Volatiles EPA 8260B	
	GP-3	12/02/2003	W	3	Volatiles EPA 8260B	
	GP-4	12/02/2003	W	3	Volatiles EPA 8260B	
	GP-5	12/02/2003	W	3	Volatiles EPA 8260B	
	GP-8	12/02/2003	W	3	Volatiles EPA 8260B	
	GP-7	12/02/2003	W	3	Volatiles EPA 8260B	

Submitted:		date: 12/12/03	Received by: C Mach	date:	12-12-03
Firm: OnSite En		time: 1105	Firm: STL	time:	1111
Submitted: C Mach		date: 12-12-03	Received by:	date:	12/12
Firm: STL		time: 1300	Firm:	time:	1300

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Golder
Project Number: 033-1000.000
Project Name: Consolidated Freightways
Project Manager: Neil Gilham
Sampled by: J Kennedy

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☒ Standard (7 working days)
- ☐ _____ (other)

Laboratory Number: 12-045

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH		HOLD			% Moisture
1	GP-1 (2-4)	12-2-03	840	Soil	2		X	X	X													X			
2	GP-1 (6-8)	"	850	Soil	2		X	X	X																X
3	GP-1 (10-12)	"	900	Soil	2		X	X	X																X
4	GP-2 (2-4)	"	930	Soil	2		X	X	X													X			
5	GP-2 (6-8)	"	940	Soil	2		X	X	X																X
6	GP-2 (10-12)	"	950	Soil	2		X	X	X																X
7	GP-1	"	910	Water	7		X	X	X																
8	GP-2	"	1030	Water	7		X	X	X																
9	GP-3	"	1100	"	7		X	X	X																
10	GP-4	12-2-03	1130	"	7		X	X	X																

	Signature	Company	Date	Time
Relinquished by		Golder	12-3-3	4:32
Received by		OnSite	12-3-03	4:32
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Golder Associates
Project Number: 033-1000.000
Project Name: Consolidated Freight
Project Manager: Neil Gilham
Sampled by: J Kennedy

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
☐ _____ (other)

Laboratory Number: 12-042

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/~~BTEX~~	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH		HOLD			% Moisture
11	GP-3 (2-4)	12-2-03	1005	Soil	2		X	X	X													X			
12	GP-3 (6-8)	"	1010	"	2		X	X	X																X
13	GP-3 (10-12)	"	1015	"	2		X	X	X																X
14	GP-4 (2-4)	"	1045	"	2		X	X	X													~~X~~ DO NOT HOLD DS			
15	GP-4 (6-8)	"	1050	"	2		X	X	X																X
16	GP-4 (10-12)	"	1055	"	2		X	X	X																X
17	GP-5 (2-4)	"	1155	"	2		X	X	X													X			
18	GP-5 (6-8)	"	1200	"	2		X	X	X																X
19	GP-5 (10-12)	12-2-03	1205	"	2		X	X	X																X
20	GP-5	"	1230	WATER	~~6~~ 3		X	X	X																

	Signature	Company	Date	Time
Relinquished by		Golder	12-3-3	4:32
Received by		Onsite	12-3-03	4:32
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

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OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Golder
Project Number: 033-1000.000
Project Name: Consolidated Freight
Project Manager: Neil Gilham
Sampled by: J Kennedy

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (7 working days)
☐ _____ (other)

Laboratory Number: 12-045

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH		HOLD			% Moisture
21	GP-6 0-2.5	12-2-03	1310	Soil	2		X	X	X																X
22	~~GP-6~~ GP-8		1410	WATER	7		X	X	X																
23	GP-8 (2-4')		1345	Soil			X	X	X													X			
24	GP-8 (6-8')		1350		2		X	X	X																X
25	GP-8 (10-12')		1355		2		X	X	X																X
	~~GP-7 (2-4')~~		~~1430~~		2		X	X	X																
26	GP-7 (6-8')		1435		2		X	X	X																X
27	GP-7 (10-12')		1440	Soil	2		X	X	X																X
28	GP-7		1455	WATER	7		X	X	X																
29	GP-44 (2-4')		1045	S	2		X	X	X																X

	Signature	Company	Date	Time
Relinquished by		Golder	12-3-3	4:32
Received by		OnSite	12-3-03	4:32
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

Chromatograms with final report ☐

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Laboratory Analytical Reports
2014

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 20, 2014

Emerald Erickson-Mulanax
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1408-079

Dear Emerald:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

Case Narrative

Samples were collected on August 11, 2014 and received by the laboratory on August 12, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PAHs EPA 8270D/SIM Analysis

Sample CB-IN-081114, OWS-1-INF-081114 and spike blank had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-IN-081114**					
Laboratory ID:	08-079-01					
Naphthalene	**0.077**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
2-Methylnaphthalene	**0.20**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
1-Methylnaphthalene	**0.13**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthylene	**0.030**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthene	**0.025**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Fluorene	**0.066**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Phenanthrene	**0.35**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Anthracene	**0.090**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Fluoranthene	**0.44**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Pyrene	**0.44**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]anthracene	**0.11**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Chrysene	**0.22**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[b]fluoranthene	**0.15**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo(j,k)fluoranthene	**0.046**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]pyrene	**0.075**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Indeno(1,2,3-c,d)pyrene	**0.053**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Dibenz[a,h]anthracene	**ND**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[g,h,i]perylene	**0.12**	0.021	EPA 8270D/SIM	8-15-14	8-20-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*41*	*43 - 116*				Q
Pyrene-d10	*42*	*33 - 124*				
Terphenyl-d14	*42*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OWS-2-INF-081114**					
Laboratory ID:	08-079-02					
Naphthalene	**0.14**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
2-Methylnaphthalene	**0.32**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
1-Methylnaphthalene	**0.22**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthylene	**0.075**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthene	**0.12**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Fluorene	**0.22**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Phenanthrene	**1.0**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Anthracene	**0.26**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Fluoranthene	**1.1**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Pyrene	**1.3**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]anthracene	**0.29**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Chrysene	**0.56**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[b]fluoranthene	**0.45**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo(j,k)fluoranthene	**0.15**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]pyrene	**0.24**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Indeno(1,2,3-c,d)pyrene	**0.21**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Dibenz[a,h]anthracene	**0.063**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[g,h,i]perylene	**0.38**	0.029	EPA 8270D/SIM	8-15-14	8-20-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*49*	*43 - 116*				
Pyrene-d10	*55*	*33 - 124*				
Terphenyl-d14	*56*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OWS-1-INF-081114**					
Laboratory ID:	08-079-03					
Naphthalene	**0.098**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
2-Methylnaphthalene	**0.29**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
1-Methylnaphthalene	**0.19**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthylene	**ND**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthene	**0.066**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Fluorene	**0.10**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Phenanthrene	**0.59**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Anthracene	**0.13**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Fluoranthene	**0.68**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Pyrene	**0.71**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]anthracene	**0.21**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Chrysene	**0.41**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[b]fluoranthene	**0.32**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo(j,k)fluoranthene	**0.091**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]pyrene	**0.18**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Indeno(1,2,3-c,d)pyrene	**0.15**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Dibenz[a,h]anthracene	**0.042**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[g,h,i]perylene	**0.23**	0.037	EPA 8270D/SIM	8-15-14	8-20-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*32*	*43 - 116*				Q
Pyrene-d10	*41*	*33 - 124*				
Terphenyl-d14	*40*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-5N-081114**					
Laboratory ID:	08-079-04					
Naphthalene	**0.16**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
2-Methylnaphthalene	**0.16**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
1-Methylnaphthalene	**0.10**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthylene	**0.064**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthene	**0.29**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Fluorene	**0.47**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Phenanthrene	**1.5**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Anthracene	**0.36**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Fluoranthene	**1.7**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Pyrene	**1.3**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]anthracene	**0.37**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Chrysene	**0.67**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[b]fluoranthene	**0.44**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo(j,k)fluoranthene	**0.13**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]pyrene	**0.21**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Indeno(1,2,3-c,d)pyrene	**0.15**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Dibenz[a,h]anthracene	**0.058**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[g,h,i]perylene	**0.23**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*61*	*43 - 116*				
Pyrene-d10	*65*	*33 - 124*				
Terphenyl-d14	*66*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-7N-081114**					
Laboratory ID:	08-079-05					
Naphthalene	**0.040**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
2-Methylnaphthalene	**0.033**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
1-Methylnaphthalene	**ND**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthylene	**0.030**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthene	**ND**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Fluorene	**0.048**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Phenanthrene	**0.32**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Anthracene	**0.082**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Fluoranthene	**0.38**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Pyrene	**0.42**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]anthracene	**0.12**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Chrysene	**0.40**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[b]fluoranthene	**0.18**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo(j,k)fluoranthene	**0.049**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]pyrene	**0.097**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Indeno(1,2,3-c,d)pyrene	**0.073**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Dibenz[a,h]anthracene	**0.027**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[g,h,i]perylene	**0.15**	0.026	EPA 8270D/SIM	8-15-14	8-20-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*60*	*43 - 116*				
Pyrene-d10	*65*	*33 - 124*				
Terphenyl-d14	*66*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-10N-081114**					
Laboratory ID:	08-079-06					
Naphthalene	**0.068**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
2-Methylnaphthalene	**0.062**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
1-Methylnaphthalene	**0.028**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthylene	**0.047**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthene	**0.027**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Fluorene	**0.045**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Phenanthrene	**0.34**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Anthracene	**0.088**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Fluoranthene	**0.51**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Pyrene	**0.53**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]anthracene	**0.15**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Chrysene	**0.38**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[b]fluoranthene	**0.29**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo(j,k)fluoranthene	**0.092**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]pyrene	**0.15**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Indeno(1,2,3-c,d)pyrene	**0.14**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Dibenz[a,h]anthracene	**0.044**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[g,h,i]perylene	**0.24**	0.025	EPA 8270D/SIM	8-15-14	8-20-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*52*	*43 - 116*				
Pyrene-d10	*65*	*33 - 124*				
Terphenyl-d14	*67*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-1S-081114**					
Laboratory ID:	08-079-07					
Naphthalene	**0.20**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
2-Methylnaphthalene	**0.19**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
1-Methylnaphthalene	**0.13**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthylene	**0.10**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Acenaphthene	**0.47**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Fluorene	**0.81**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Phenanthrene	**4.4**	0.17	EPA 8270D/SIM	8-15-14	8-20-14	
Anthracene	**0.95**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Fluoranthene	**4.7**	0.17	EPA 8270D/SIM	8-15-14	8-20-14	
Pyrene	**3.7**	0.17	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]anthracene	**1.0**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Chrysene	**1.4**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[b]fluoranthene	**1.0**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo(j,k)fluoranthene	**0.31**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[a]pyrene	**0.77**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Indeno(1,2,3-c,d)pyrene	**0.46**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Dibenz[a,h]anthracene	**0.12**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Benzo[g,h,i]perylene	**0.58**	0.017	EPA 8270D/SIM	8-15-14	8-20-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*62*	*43 - 116*				
Pyrene-d10	*72*	*33 - 124*				
Terphenyl-d14	*71*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0815S1					
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*112*	*43 - 116*				
Pyrene-d10	*98*	*33 - 124*				
Terphenyl-d14	*94*	*38 - 125*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0815S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0682**	**0.0650**	0.0833	0.0833	82	78	45 - 109	5	29	
Acenaphthylene	**0.0749**	**0.0707**	0.0833	0.0833	90	85	54 - 118	6	18	
Acenaphthene	**0.0704**	**0.0685**	0.0833	0.0833	85	82	60 - 108	3	14	
Fluorene	**0.0704**	**0.0715**	0.0833	0.0833	85	86	61 - 113	2	13	
Phenanthrene	**0.0650**	**0.0656**	0.0833	0.0833	78	79	63 - 106	1	13	
Anthracene	**0.102**	**0.103**	0.0833	0.0833	122	124	55 - 135	1	13	
Fluoranthene	**0.0727**	**0.0730**	0.0833	0.0833	87	88	66 - 118	0	13	
Pyrene	**0.0734**	**0.0725**	0.0833	0.0833	88	87	69 - 112	1	12	
Benzo[a]anthracene	**0.0767**	**0.0776**	0.0833	0.0833	92	93	58 - 118	1	13	
Chrysene	**0.0737**	**0.0719**	0.0833	0.0833	88	86	64 - 114	2	11	
Benzo[b]fluoranthene	**0.0733**	**0.0725**	0.0833	0.0833	88	87	52 - 125	1	19	
Benzo(j,k)fluoranthene	**0.0758**	**0.0753**	0.0833	0.0833	91	90	50 - 126	1	22	
Benzo[a]pyrene	**0.0863**	**0.0857**	0.0833	0.0833	104	103	43 - 123	1	16	
Indeno(1,2,3-c,d)pyrene	**0.0718**	**0.0696**	0.0833	0.0833	86	84	55 - 118	3	16	
Dibenz[a,h]anthracene	**0.0707**	**0.0696**	0.0833	0.0833	85	84	57 - 120	2	15	
Benzo[g,h,i]perylene	**0.0697**	**0.0689**	0.0833	0.0833	84	83	58 - 113	1	18	
Surrogate:										
2-Fluorobiphenyl					*119*	*116*	*43 - 116*			Q
Pyrene-d10					*89*	*90*	*33 - 124*			
Terphenyl-d14					*85*	*85*	*38 - 125*			

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-IN-081114**					
Laboratory ID:	08-079-01					
Aroclor 1016	**ND**	0.16	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.16	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.16	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.16	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.16	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**ND**	0.16	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**ND**	0.16	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*112*	*51-138*				
Client ID:	**OWS-2-INF-081114**					
Laboratory ID:	08-079-02					
Aroclor 1016	**ND**	0.22	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.22	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.22	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.22	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.22	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**ND**	0.22	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**ND**	0.22	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*122*	*51-138*				
Client ID:	**OWS-1-INF-081114**					
Laboratory ID:	08-079-03					
Aroclor 1016	**ND**	0.27	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.27	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.27	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.27	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.27	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**ND**	0.27	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**ND**	0.27	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*114*	*51-138*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-5N-081114**					
Laboratory ID:	08-079-04					
Aroclor 1016	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*122*	*51-138*				
Client ID:	**CB-7N-081114**					
Laboratory ID:	08-079-05					
Aroclor 1016	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*108*	*51-138*				
Client ID:	**CB-10N-081114**					
Laboratory ID:	08-079-06					
Aroclor 1016	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**0.23**	0.19	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**0.47**	0.19	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*112*	*51-138*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-1S-081114**					
Laboratory ID:	08-079-07					
Aroclor 1016	**ND**	0.13	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.13	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.13	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.13	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.13	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**ND**	0.13	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**ND**	0.13	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*107*	*51-138*				

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0813S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-13-14	8-13-14	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-13-14	8-13-14	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-13-14	8-13-14	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-13-14	8-13-14	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-13-14	8-13-14	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-13-14	8-13-14	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-13-14	8-13-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*108*	*51-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-077-05										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.444**	**0.411**	0.500	0.500	ND	**89**	**82**	49-136	8	14	
Surrogate:											
DCB						*99*	*98*	*51-138*			

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

TOTAL METALS
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-079-01					
Client ID:	**CB-IN-081114**					
Arsenic	**ND**	16	6010C	8-20-14	8-20-14	
Chromium	**58**	0.80	6010C	8-20-14	8-20-14	
Copper	**150**	1.6	6010C	8-20-14	8-20-14	
Lead	**81**	8.0	6010C	8-20-14	8-20-14	
Zinc	**640**	4.0	6010C	8-20-14	8-20-14	
Lab ID:	08-079-02					
Client ID:	**OWS-2-INF-081114**					
Arsenic	**14**	11	6010C	8-20-14	8-20-14	
Chromium	**91**	1.1	6010C	8-20-14	8-20-14	
Copper	**290**	2.2	6010C	8-20-14	8-20-14	
Lead	**170**	11	6010C	8-20-14	8-20-14	
Zinc	**1200**	5.5	6010C	8-20-14	8-20-14	
Lab ID:	08-079-03					
Client ID:	**OWS-1-INF-081114**					
Arsenic	**ND**	14	6010C	8-20-14	8-20-14	
Chromium	**78**	1.4	6010C	8-20-14	8-20-14	
Copper	**250**	2.7	6010C	8-20-14	8-20-14	
Lead	**150**	14	6010C	8-20-14	8-20-14	
Zinc	**960**	6.9	6010C	8-20-14	8-20-14	

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

TOTAL METALS
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-079-04					
Client ID:	**CB-5N-081114**					
Arsenic	**ND**	19	6010C	8-20-14	8-20-14	
Chromium	**86**	0.96	6010C	8-20-14	8-20-14	
Copper	**260**	1.9	6010C	8-20-14	8-20-14	
Lead	**150**	9.6	6010C	8-20-14	8-20-14	
Zinc	**790**	4.8	6010C	8-20-14	8-20-14	
Lab ID:	08-079-05					
Client ID:	**CB-7N-081114**					
Arsenic	**ND**	19	6010C	8-20-14	8-20-14	
Chromium	**54**	0.97	6010C	8-20-14	8-20-14	
Copper	**130**	1.9	6010C	8-20-14	8-20-14	
Lead	**79**	9.7	6010C	8-20-14	8-20-14	
Zinc	**480**	4.9	6010C	8-20-14	8-20-14	
Lab ID:	08-079-06					
Client ID:	**CB-10N-081114**					
Arsenic	**ND**	19	6010C	8-20-14	8-20-14	
Chromium	**89**	0.95	6010C	8-20-14	8-20-14	
Copper	**210**	1.9	6010C	8-20-14	8-20-14	
Lead	**150**	9.5	6010C	8-20-14	8-20-14	
Zinc	**1100**	4.8	6010C	8-20-14	8-20-14	

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

TOTAL METALS
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-079-07					
Client ID:	**CB-1S-081114**					
Arsenic	**ND**	13	6010C	8-20-14	8-20-14	
Chromium	**39**	0.63	6010C	8-20-14	8-20-14	
Copper	**63**	1.3	6010C	8-20-14	8-20-14	
Lead	**130**	6.3	6010C	8-20-14	8-20-14	
Zinc	**280**	3.1	6010C	8-20-14	8-20-14	

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-20-14
Date Analyzed:	8-20-14
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0820SM1

Analyte	Method	Result	PQL
Arsenic	6010C	**ND**	5.0
Chromium	6010C	**ND**	0.50
Copper	6010C	**ND**	1.0
Lead	6010C	**ND**	5.0
Zinc	6010C	**ND**	2.5

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

TOTAL METALS
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 8-20-14
Date Analyzed: 8-20-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-085-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	**9.75**	**8.95**	9	5.0	
Chromium	**32.9**	**27.9**	17	0.50	
Copper	**14.1**	**13.9**	1	1.0	
Lead	**7.50**	**6.35**	17	5.0	
Zinc	**41.1**	**40.4**	2	2.5	

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

TOTAL METALS
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 8-20-14
Date Analyzed: 8-20-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-085-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**102**	92	**99.9**	90	2	
Chromium	100	**123**	90	**123**	90	0	
Copper	50.0	**64.4**	101	**63.4**	99	2	
Lead	250	**270**	105	**243**	94	10	
Zinc	100	**137**	96	**133**	92	2	

Date of Report: August 20, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-079
Project: 1071-007

% MOISTURE

Date Analyzed: 8-13-14

Client ID	Lab ID	% Moisture
CB-IN-081114	08-079-01	37
OWS-2-INF-081114	08-079-02	54
OWS-1-INF-081114	08-079-03	64
CB-5N-081114	08-079-04	48
CB-7N-081114	08-079-05	49
CB-10N-081114	08-079-06	47
CB-1S-081114	08-079-07	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 08-079

Company: FARALLON
Project Number: 1071-007
Project Name: 54 DAWSON
Project Manager: EMERALD ERICKSON
Sampled by: DINGER K.

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals As,Pb,Cr,Cu,Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	IN CB-7N-081114	8/11/14	0905	S	2								X	X				X				X
2	OWS-2-INF-081114		1105										X	X				X				X
3	OWS-1-INF-081114		1350										X	X				X				X
4	CB-5N-081114		1410										X	X				X				X
5	CB-7N-081114		1455										X	X				X				X
6	CB-10N-081114		1550										X	X				X				X
7	CB-15-081114		1648										X	X				X				X

DK

	Signature	Company	Date	Time
Relinquished		farallon	8/12/14	0926
Received	Van	Spdy	11	11
Relinquished			11	1200
Received			8/12/14	1200
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
~~CONFIRM SAMPLES W/ EMERALD ERICKSON FOR ANALYSIS.~~ DB
(X) requested 8/12/14. DB (STA)

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐
Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 18, 2014

Beth Padgett
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1408-083

Dear Beth:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

Case Narrative

Samples were collected on August 12, 2014 and received by the laboratory on August 12, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RW-2-081214**					
Laboratory ID:	08-083-01					
Gasoline	**800**	100	NWTPH-Gx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*78*	*71-112*				
Client ID:	**MW-4-081214**					
Laboratory ID:	08-083-02					
Gasoline	**ND**	100	NWTPH-Gx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*80*	*71-112*				
Client ID:	**MW-2-081214**					
Laboratory ID:	08-083-03					
Gasoline	**280**	100	NWTPH-Gx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*76*	*71-112*				
Client ID:	**MW-3-081214**					
Laboratory ID:	08-083-04					
Gasoline	**ND**	100	NWTPH-Gx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*77*	*71-112*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0814W2					
Gasoline	**ND**	100	NWTPH-Gx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*77*	*71-112*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-083-04										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*77*	*77*	*71-112*			

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RW-2-081214**					
Laboratory ID:	08-083-01					
Diesel Range Organics	**3.7**	0.26	NWTPH-Dx	8-14-14	8-14-14	
Lube Oil Range Organics	**ND**	0.64	NWTPH-Dx	8-14-14	8-14-14	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**MW-4-081214**					
Laboratory ID:	08-083-02					
Diesel Range Organics	**ND**	0.26	NWTPH-Dx	8-14-14	8-14-14	
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**MW-2-081214**					
Laboratory ID:	08-083-03					
Diesel Range Organics	**2.7**	0.26	NWTPH-Dx	8-14-14	8-14-14	
Lube Oil Range Organics	**ND**	0.49	NWTPH-Dx	8-14-14	8-14-14	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**MW-3-081214**					
Laboratory ID:	08-083-04					
Diesel Range Organics	**0.51**	0.26	NWTPH-Dx	8-14-14	8-14-14	
Lube Oil Range Organics	**0.62**	0.41	NWTPH-Dx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0814W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	8-14-14	8-14-14	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-083-01										
	ORIG	DUP									
Diesel Range Organics	**3.68**	**3.38**	NA	NA		NA		NA	8	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	U1
Surrogate:											
o-Terphenyl						*88*	*84*	*50-150*			

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

VOLATILES EPA 8260C
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RW-2-081214**					
Laboratory ID:	08-083-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloromethane	ND	1.3	EPA 8260C	8-14-14	8-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromomethane	ND	0.56	EPA 8260C	8-14-14	8-14-14	
Chloroethane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Acetone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Iodomethane	ND	2.9	EPA 8260C	8-14-14	8-14-14	
Carbon Disulfide	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Vinyl Acetate	ND	1.0	EPA 8260C	8-14-14	8-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
(cis) 1,2-Dichloroethene	0.21	0.20	EPA 8260C	8-14-14	8-14-14	
2-Butanone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloroform	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Benzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Trichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Dibromomethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Toluene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

VOLATILES EPA 8260C
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RW-2-081214**					
Laboratory ID:	08-083-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Hexanone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Ethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
m,p-Xylene	ND	0.40	EPA 8260C	8-14-14	8-14-14	
o-Xylene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Styrene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromoform	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Isopropylbenzene	13	0.20	EPA 8260C	8-14-14	8-14-14	
Bromobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Propylbenzene	19	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
tert-Butylbenzene	0.26	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
sec-Butylbenzene	7.6	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Butylbenzene	6.6	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Naphthalene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*62-122*				
Toluene-d8	*104*	*70-120*				
4-Bromofluorobenzene	*96*	*71-120*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4-081214**					
Laboratory ID:	08-083-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloromethane	ND	1.3	EPA 8260C	8-14-14	8-14-14	
Vinyl Chloride	0.30	0.20	EPA 8260C	8-14-14	8-14-14	
Bromomethane	ND	0.56	EPA 8260C	8-14-14	8-14-14	
Chloroethane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Acetone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Iodomethane	ND	2.9	EPA 8260C	8-14-14	8-14-14	
Carbon Disulfide	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Vinyl Acetate	ND	1.0	EPA 8260C	8-14-14	8-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Butanone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloroform	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Benzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Trichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Dibromomethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Toluene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	

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Samples Submitted: August 12, 2014
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Project: 1071-007

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4-081214**					
Laboratory ID:	08-083-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Hexanone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Ethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
m,p-Xylene	ND	0.40	EPA 8260C	8-14-14	8-14-14	
o-Xylene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Styrene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromoform	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Isopropylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Propylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Naphthalene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*116*	*62-122*				
Toluene-d8	*104*	*70-120*				
4-Bromofluorobenzene	*97*	*71-120*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2-081214**					
Laboratory ID:	08-083-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloromethane	ND	1.3	EPA 8260C	8-14-14	8-14-14	
Vinyl Chloride	0.23	0.20	EPA 8260C	8-14-14	8-14-14	
Bromomethane	ND	0.56	EPA 8260C	8-14-14	8-14-14	
Chloroethane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Acetone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Iodomethane	ND	2.9	EPA 8260C	8-14-14	8-14-14	
Carbon Disulfide	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Vinyl Acetate	ND	1.0	EPA 8260C	8-14-14	8-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Butanone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloroform	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Benzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Trichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Dibromomethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Toluene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	

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Project: 1071-007

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2-081214**					
Laboratory ID:	08-083-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Hexanone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Ethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
m,p-Xylene	ND	0.40	EPA 8260C	8-14-14	8-14-14	
o-Xylene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Styrene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromoform	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Isopropylbenzene	0.42	0.20	EPA 8260C	8-14-14	8-14-14	
Bromobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Propylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
tert-Butylbenzene	0.30	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
sec-Butylbenzene	0.28	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Naphthalene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*62-122*				
Toluene-d8	*104*	*70-120*				
4-Bromofluorobenzene	*98*	*71-120*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3-081214**					
Laboratory ID:	08-083-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloromethane	ND	1.3	EPA 8260C	8-14-14	8-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromomethane	ND	0.56	EPA 8260C	8-14-14	8-14-14	
Chloroethane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Acetone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Iodomethane	ND	2.9	EPA 8260C	8-14-14	8-14-14	
Carbon Disulfide	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Vinyl Acetate	ND	1.0	EPA 8260C	8-14-14	8-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Butanone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloroform	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Benzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Trichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Dibromomethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Toluene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
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Project: 1071-007

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3-081214**					
Laboratory ID:	08-083-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Hexanone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Ethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
m,p-Xylene	ND	0.40	EPA 8260C	8-14-14	8-14-14	
o-Xylene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Styrene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromoform	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Isopropylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Propylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Naphthalene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*62-122*				
Toluene-d8	*103*	*70-120*				
4-Bromofluorobenzene	*96*	*71-120*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0814W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloromethane	ND	1.3	EPA 8260C	8-14-14	8-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromomethane	ND	0.56	EPA 8260C	8-14-14	8-14-14	
Chloroethane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Acetone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Iodomethane	ND	2.9	EPA 8260C	8-14-14	8-14-14	
Carbon Disulfide	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Vinyl Acetate	ND	1.0	EPA 8260C	8-14-14	8-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Butanone	ND	5.0	EPA 8260C	8-14-14	8-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chloroform	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Benzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Trichloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Dibromomethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Toluene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-14-14	8-14-14	

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0814W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Hexanone	ND	2.0	EPA 8260C	8-14-14	8-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Ethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
m,p-Xylene	ND	0.40	EPA 8260C	8-14-14	8-14-14	
o-Xylene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Styrene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromoform	ND	1.0	EPA 8260C	8-14-14	8-14-14	
Isopropylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Bromobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Propylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
n-Butylbenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Naphthalene	ND	1.0	EPA 8260C	8-14-14	8-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*62-122*				
Toluene-d8	*105*	*70-120*				
4-Bromofluorobenzene	*98*	*71-120*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0814W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.71**	**9.49**	10.0	10.0	97	95	63-142	2	17	
Benzene	**10.0**	**9.50**	10.0	10.0	100	95	78-125	5	15	
Trichloroethene	**8.47**	**8.31**	10.0	10.0	85	83	75-125	2	15	
Toluene	**9.90**	**9.70**	10.0	10.0	99	97	80-125	2	15	
Chlorobenzene	**10.0**	**9.79**	10.0	10.0	100	98	80-140	2	15	
Surrogate:										
Dibromofluoromethane					*114*	*106*	*62-122*			
Toluene-d8					*104*	*105*	*70-120*			
4-Bromofluorobenzene					*98*	*97*	*71-120*			

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RW-2-081214**					
Laboratory ID:	08-083-01					
Naphthalene	**1.3**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
2-Methylnaphthalene	**38**	1.9	EPA 8270D/SIM	8-14-14	8-15-14	
1-Methylnaphthalene	**39**	1.9	EPA 8270D/SIM	8-14-14	8-15-14	
Acenaphthylene	**0.17**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Acenaphthene	**1.2**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Fluorene	**3.9**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Phenanthrene	**1.5**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Anthracene	**0.14**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Fluoranthene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Pyrene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Chrysene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*62*	*40 - 107*				
Pyrene-d10	*90*	*41 - 106*				
Terphenyl-d14	*87*	*44 - 124*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2-081214**					
Laboratory ID:	08-083-03					
Naphthalene	**0.17**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
2-Methylnaphthalene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
1-Methylnaphthalene	**0.60**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Acenaphthylene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Acenaphthene	**0.33**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Fluorene	**0.18**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Phenanthrene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Anthracene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Fluoranthene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Pyrene	**ND**	0.094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Chrysene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270D/SIM	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*45*	*40 - 107*				
Pyrene-d10	*52*	*41 - 106*				
Terphenyl-d14	*69*	*44 - 124*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

PAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0814W1					
Naphthalene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Fluorene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Anthracene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Pyrene	**ND**	0.10	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Chrysene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	8-14-14	8-14-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*40 - 107*				
Pyrene-d10	*82*	*41 - 106*				
Terphenyl-d14	*100*	*44 - 124*				

Date of Report: August 18, 2014
Samples Submitted: August 12, 2014
Laboratory Reference: 1408-083
Project: 1071-007

PAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0814W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.376**	**0.392**	0.500	0.500	75	78	31 - 110	4	46	
Acenaphthylene	**0.391**	**0.421**	0.500	0.500	78	84	40 - 118	7	43	
Acenaphthene	**0.390**	**0.417**	0.500	0.500	78	83	38 - 112	7	40	
Fluorene	**0.438**	**0.451**	0.500	0.500	88	90	45 - 114	3	41	
Phenanthrene	**0.403**	**0.418**	0.500	0.500	81	84	47 - 112	4	36	
Anthracene	**0.570**	**0.605**	0.500	0.500	114	121	46 - 135	6	37	
Fluoranthene	**0.502**	**0.533**	0.500	0.500	100	107	51 - 127	6	35	
Pyrene	**0.512**	**0.543**	0.500	0.500	102	109	50 - 125	6	37	
Benzo[a]anthracene	**0.504**	**0.525**	0.500	0.500	101	105	46 - 123	4	34	
Chrysene	**0.526**	**0.560**	0.500	0.500	105	112	49 - 120	6	34	
Benzo[b]fluoranthene	**0.480**	**0.496**	0.500	0.500	96	99	46 - 126	3	37	
Benzo(j,k)fluoranthene	**0.411**	**0.435**	0.500	0.500	82	87	43 - 125	6	39	
Benzo[a]pyrene	**0.439**	**0.461**	0.500	0.500	88	92	44 - 129	5	37	
Indeno(1,2,3-c,d)pyrene	**0.431**	**0.443**	0.500	0.500	86	89	40 - 124	3	42	
Dibenz[a,h]anthracene	**0.422**	**0.439**	0.500	0.500	84	88	35 - 122	4	44	
Benzo[g,h,i]perylene	**0.486**	**0.492**	0.500	0.500	97	98	37 - 122	1	45	
Surrogate:										
2-Fluorobiphenyl					*76*	*79*	*40 - 107*			
Pyrene-d10					*88*	*93*	*41 - 106*			
Terphenyl-d14					*104*	*106*	*44 - 124*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1071-007
Project Name: 6050 Marginal Way
Project Manager: Beth Padget
Sampled by: Ryan Ostrom, Jared Kerr

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
~~☒ Standard (7 Days)~~ DB
(TPH analysis 5 Days)
☒ Monday
(other)

Laboratory Number: 08-083

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	RW-2-081214	8/12/14	1042	W	9			X	X	X			X									
2	MW-4-081214	↓	1139	↓	7			X	X	X												
3	MW-2-081214		1228		9			X	X	X			X									
4	MW-3-081214	↓	1345	↓	7			X	X	X												
			RO																			

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Ryan Ostrom	Farallon	8/12/14	1513	
Received	[signature]	OSE	8.12.14	15:15	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-007
Project Name: 6050 MARGINAL WAY
Project Manager: BETH PADGETT
Sampled by: DINCER KAYHAN

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☒ ~~Standard (7 Days)~~ (TPH analysis 5 Days) DB
☐ _____ (other)

Laboratory Number: 08-102

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	F1-2.4-081314	8/13/14	0923	S	5			~~NO~~ DX						HOLD								
2	F1-GW-081314		0935	W	7			X	X	X												
3	F8-5.0-081314		1025	S	5			X	X	X												X
4	F8-GW-081314		1035	W	7			X	X	X												
5	F2-6.0-081314		1055	S	5																	
6	F2-GW-081314		1100	W	7			X	X	X												
7	F3-5.2-081314		1125	S	5			~~NO~~	NO DX						HOLD							
8	F3-GW-081314		1138	W	7			X	X	X												
9	F4-6.0-081314		1200	S	5																	
10	F4-GW-081314		1205	W	7			X	X	X												

	Signature	Company	Date	Time
Relinquished		FARALLON	8/13/14	1600
Received		CORE	8/13/14	1600
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
HOLD SOIL SAMPLES
WILL CALL FOR ANALYSIS
ANALYZE F8-5.0-081314
F5-6.7-081314

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 08-102

Company: FARALLON
Project Number: 1071-007
Project Name: 6050 MARGINAL WAY
Project Manager: BETH PADGETT
Sampled by: DINCER KAYHAN

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☒ 2 Days
- ☐ 3 Days
- ☒ ~~Standard (7 Days)~~ (TPH analysis 5 Days) DO
- ☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
11	F5-6.7-081314	8/13/14	1243	S	5			X	X	X												X
12	F5-GW-081314		1250	W	~~7~~			X	X	X												
13	F6-5.3-081314		1310	S	5																	
14	F6-GW-081314		1317	W	7			X	X	X												
15	F7-5.0-081314		1335	S	5																	
16	F7-GW-081314		1350	W	9			X	X	X			X									

DK

	Signature	Company	Date	Time
Relinquished		FARALLON	8/13/14	1600
Received		ONSITE	8/13/14	1600
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 18, 2014

Beth Padgett
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1408-102B

Dear Beth:

Enclosed are the analytical results and associated quality control data for samples submitted on August 13, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 18, 2014
Samples Submitted: August 13, 2014
Laboratory Reference: 1408-102B
Project: 1071-007

Case Narrative

Samples were collected on August 13, 2014 and received by the laboratory on August 13, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 18, 2014
Samples Submitted: August 13, 2014
Laboratory Reference: 1408-102B
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F8-5.0-081314**					
Laboratory ID:	08-102-03					
Aroclor 1016	**ND**	0.064	EPA 8082A	9-18-14	9-18-14	
Aroclor 1221	**ND**	0.064	EPA 8082A	9-18-14	9-18-14	
Aroclor 1232	**ND**	0.064	EPA 8082A	9-18-14	9-18-14	
Aroclor 1242	**ND**	0.064	EPA 8082A	9-18-14	9-18-14	
Aroclor 1248	**ND**	0.064	EPA 8082A	9-18-14	9-18-14	
Aroclor 1254	**ND**	0.064	EPA 8082A	9-18-14	9-18-14	
Aroclor 1260	**ND**	0.064	EPA 8082A	9-18-14	9-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*92*	*51-138*				
Client ID:	**F5-6.7-081314**					
Laboratory ID:	08-102-11					
Aroclor 1016	**ND**	0.069	EPA 8082A	9-18-14	9-18-14	
Aroclor 1221	**ND**	0.069	EPA 8082A	9-18-14	9-18-14	
Aroclor 1232	**ND**	0.069	EPA 8082A	9-18-14	9-18-14	
Aroclor 1242	**ND**	0.069	EPA 8082A	9-18-14	9-18-14	
Aroclor 1248	**ND**	0.069	EPA 8082A	9-18-14	9-18-14	
Aroclor 1254	**ND**	0.069	EPA 8082A	9-18-14	9-18-14	
Aroclor 1260	**ND**	0.069	EPA 8082A	9-18-14	9-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*51-138*				

Date of Report: September 18, 2014
Samples Submitted: August 13, 2014
Laboratory Reference: 1408-102B
Project: 1071-007

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-18-14	9-18-14	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-18-14	9-18-14	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-18-14	9-18-14	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-18-14	9-18-14	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-18-14	9-18-14	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-18-14	9-18-14	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-18-14	9-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*109*	*51-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0918S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.529**	**0.461**	0.500	0.500	N/A	**106**	**92**	66-120	14	14	
Surrogate:											
DCB						*116*	*101*	*51-138*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-007
Project Name: 605D MARGINAL WAY
Project Manager: BETH PADGETT
Sampled by: DINCER KAYHAN

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☒ ~~Standard (7 Days)~~ (TPH analysis 5 Days) DB
☐ _____ (other)

Laboratory Number: 08-102

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	F1-2.4-081314	8/13/14	0923	S	5			~~NO~~ X	(DX)					HOLD								
2	F1-GW-081314		0935	W	7			X	X	X												
3	F8-5.0-081314		1025	S	5			X	X	X				(X)								X
4	F8-GW-081314		1035	W	7			X	X	X												
5	F2-6.0-081314		1055	S	5																	
6	F2-GW-081314		1100	W	7			X	X	X												
7	F3-5.2-081314		1125	S	5			~~NO~~ X	NO	(DX)				HOLD								
8	F3-GW-081314		1138	W	7			X	X	X												
9	F4-6.0-081314		1200	S	5																	
10	F4-GW-081314		1205	W	7			X	X	X												

	Signature	Company	Date	Time
Relinquished		FARALLON	8/13/14	1600
Received		CORE	8/13/14	1600
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
HOLD SOIL SAMPLES
WILL CALL FOR ANALYSIS
ANALYZE F8-5.0-081314
F5-6.7-081314
(X) Added 9/16/14. DB (STA)

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐
Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 08-102

Company: FARALLON
Project Number: 1071-007
Project Name: 6050 MARGINAL WAY
Project Manager: BETH PADGETT
Sampled by: DINCER KAYHAN

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☒ ~~Standard (7 Days)~~ (TPH analysis 5 Days) DO
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
11	F5-6.7-081314	8/13/14	1243	S	5			X	X	X				X								10
12	F5-GW-081314		1250	W	~~7~~ 6			X	X	X												
13	F6-5.3-081314		1310	S	5																	
14	F6-GW-081314		1317	W	7			X	X	X												
15	F7-5.0-081314		1335	S	5																	
16	F7-GW-081314		1350	W	9			X	X	X			X									

DK

	Signature	Company	Date	Time
Relinquished		FARALLON	8/13/14	1600
Received		ORS	8/13/14	1600
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 18, 2014

Beth Padgett
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1408-126

Dear Beth:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

Case Narrative

Samples were collected on August 15, 2014 and received by the laboratory on August 15, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Lift Station-081514**					
Laboratory ID:	08-126-01					
Naphthalene	**ND**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
2-Methylnaphthalene	**2.1**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
1-Methylnaphthalene	**1.1**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthylene	**ND**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthene	**0.39**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Fluorene	**0.65**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Phenanthrene	**1.2**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Anthracene	**0.87**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Fluoranthene	**0.90**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Pyrene	**0.93**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]anthracene	**0.46**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Chrysene	**0.71**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[b]fluoranthene	**0.56**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo(j,k)fluoranthene	**0.25**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]pyrene	**0.42**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Indeno(1,2,3-c,d)pyrene	**0.28**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Dibenz[a,h]anthracene	**ND**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[g,h,i]perylene	**0.53**	0.22	EPA 8270D/SIM	8-15-14	8-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*85*	*43 - 116*				
Pyrene-d10	*55*	*33 - 124*				
Terphenyl-d14	*63*	*38 - 125*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-2-081514**					
Laboratory ID:	08-126-02					
Naphthalene	**0.046**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
2-Methylnaphthalene	**0.025**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
1-Methylnaphthalene	**ND**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthylene	**0.029**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthene	**ND**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Fluorene	**0.033**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Phenanthrene	**0.22**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Anthracene	**0.065**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Fluoranthene	**0.36**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Pyrene	**0.34**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]anthracene	**0.23**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Chrysene	**0.35**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[b]fluoranthene	**0.29**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo(j,k)fluoranthene	**0.13**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]pyrene	**0.21**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Indeno(1,2,3-c,d)pyrene	**0.12**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Dibenz[a,h]anthracene	**0.058**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[g,h,i]perylene	**0.25**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*64*	*43 - 116*				
Pyrene-d10	*66*	*33 - 124*				
Terphenyl-d14	*76*	*38 - 125*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-1-081514**					
Laboratory ID:	08-126-03					
Naphthalene	**0.040**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
2-Methylnaphthalene	**0.031**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
1-Methylnaphthalene	**ND**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthylene	**ND**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthene	**ND**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Fluorene	**0.032**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Phenanthrene	**0.22**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Anthracene	**0.036**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Fluoranthene	**0.23**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Pyrene	**0.23**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]anthracene	**0.11**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Chrysene	**0.21**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[b]fluoranthene	**0.16**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo(j,k)fluoranthene	**0.070**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]pyrene	**0.13**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Indeno(1,2,3-c,d)pyrene	**0.072**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Dibenz[a,h]anthracene	**0.032**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[g,h,i]perylene	**0.17**	0.022	EPA 8270D/SIM	8-15-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*43 - 116*				
Pyrene-d10	*72*	*33 - 124*				
Terphenyl-d14	*76*	*38 - 125*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-3-081514**					
Laboratory ID:	08-126-04					
Naphthalene	**0.033**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
2-Methylnaphthalene	**0.028**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
1-Methylnaphthalene	**ND**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthylene	**0.028**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthene	**ND**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Fluorene	**0.037**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Phenanthrene	**0.19**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Anthracene	**0.066**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Fluoranthene	**0.31**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Pyrene	**0.40**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]anthracene	**0.20**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Chrysene	**0.40**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[b]fluoranthene	**0.19**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo(j,k)fluoranthene	**0.15**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]pyrene	**0.24**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Indeno(1,2,3-c,d)pyrene	**0.11**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Dibenz[a,h]anthracene	**0.067**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[g,h,i]perylene	**0.26**	0.017	EPA 8270D/SIM	8-15-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*43 - 116*				
Pyrene-d10	*65*	*33 - 124*				
Terphenyl-d14	*67*	*38 - 125*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-4-081514**					
Laboratory ID:	08-126-05					
Naphthalene	**ND**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
2-Methylnaphthalene	**ND**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
1-Methylnaphthalene	**ND**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthylene	**0.48**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthene	**ND**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Fluorene	**ND**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Phenanthrene	**1.3**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Anthracene	**0.62**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Fluoranthene	**1.0**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Pyrene	**1.6**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]anthracene	**1.0**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Chrysene	**1.1**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[b]fluoranthene	**0.54**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo(j,k)fluoranthene	**0.45**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]pyrene	**0.77**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Dibenz[a,h]anthracene	**ND**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[g,h,i]perylene	**0.44**	0.34	EPA 8270D/SIM	8-15-14	8-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*84*	*43 - 116*				
Pyrene-d10	*70*	*33 - 124*				
Terphenyl-d14	*75*	*38 - 125*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-5-081514**					
Laboratory ID:	08-126-06					
Naphthalene	**0.058**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
2-Methylnaphthalene	**0.032**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
1-Methylnaphthalene	**ND**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthylene	**0.044**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Acenaphthene	**ND**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Fluorene	**0.046**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Phenanthrene	**0.29**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Anthracene	**0.095**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Fluoranthene	**0.42**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Pyrene	**0.43**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]anthracene	**0.25**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Chrysene	**0.45**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[b]fluoranthene	**0.30**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo(j,k)fluoranthene	**0.17**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[a]pyrene	**0.26**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Indeno(1,2,3-c,d)pyrene	**0.16**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Dibenz[a,h]anthracene	**0.081**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Benzo[g,h,i]perylene	**0.28**	0.019	EPA 8270D/SIM	8-15-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*43 - 116*				
Pyrene-d10	*67*	*33 - 124*				
Terphenyl-d14	*53*	*38 - 125*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0815S1					
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	8-15-14	8-15-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*112*	*43 - 116*				
Pyrene-d10	*98*	*33 - 124*				
Terphenyl-d14	*94*	*38 - 125*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0815S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0682**	**0.0650**	0.0833	0.0833	82	78	45 - 109	5	29	
Acenaphthylene	**0.0749**	**0.0707**	0.0833	0.0833	90	85	54 - 118	6	18	
Acenaphthene	**0.0704**	**0.0685**	0.0833	0.0833	85	82	60 - 108	3	14	
Fluorene	**0.0704**	**0.0715**	0.0833	0.0833	85	86	61 - 113	2	13	
Phenanthrene	**0.0650**	**0.0656**	0.0833	0.0833	78	79	63 - 106	1	13	
Anthracene	**0.102**	**0.103**	0.0833	0.0833	122	124	55 - 135	1	13	
Fluoranthene	**0.0727**	**0.0730**	0.0833	0.0833	87	88	66 - 118	0	13	
Pyrene	**0.0734**	**0.0725**	0.0833	0.0833	88	87	69 - 112	1	12	
Benzo[a]anthracene	**0.0767**	**0.0776**	0.0833	0.0833	92	93	58 - 118	1	13	
Chrysene	**0.0737**	**0.0719**	0.0833	0.0833	88	86	64 - 114	2	11	
Benzo[b]fluoranthene	**0.0733**	**0.0725**	0.0833	0.0833	88	87	52 - 125	1	19	
Benzo(j,k)fluoranthene	**0.0758**	**0.0753**	0.0833	0.0833	91	90	50 - 126	1	22	
Benzo[a]pyrene	**0.0863**	**0.0857**	0.0833	0.0833	104	103	43 - 123	1	16	
Indeno(1,2,3-c,d)pyrene	**0.0718**	**0.0696**	0.0833	0.0833	86	84	55 - 118	3	16	
Dibenz[a,h]anthracene	**0.0707**	**0.0696**	0.0833	0.0833	85	84	57 - 120	2	15	
Benzo[g,h,i]perylene	**0.0697**	**0.0689**	0.0833	0.0833	84	83	58 - 113	1	18	
Surrogate:										
2-Fluorobiphenyl					*119*	*116*	*43 - 116*			Q
Pyrene-d10					*89*	*90*	*33 - 124*			
Terphenyl-d14					*85*	*85*	*38 - 125*			

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Lift Station-081514**					
Laboratory ID:	08-126-01					
Aroclor 1016	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1221	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1232	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1242	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1248	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1254	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1260	**2.6**	0.17	EPA 8082A	8-18-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*128*	*51-138*				
Client ID:	**CB-2-081514**					
Laboratory ID:	08-126-02					
Aroclor 1016	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1221	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1232	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1242	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1248	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1254	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1260	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*122*	*51-138*				
Client ID:	**CB-1-081514**					
Laboratory ID:	08-126-03					
Aroclor 1016	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1221	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1232	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1242	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1248	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1254	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Aroclor 1260	**ND**	0.17	EPA 8082A	8-18-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*115*	*51-138*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-3-081514**					
Laboratory ID:	08-126-04					
Aroclor 1016	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1221	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1232	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1242	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1248	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1254	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Aroclor 1260	**ND**	0.13	EPA 8082A	8-18-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*122*	*51-138*				
Client ID:	**CB-4-081514**					
Laboratory ID:	08-126-05					
Aroclor 1016	**ND**	0.25	EPA 8082A	8-18-14	8-18-14	
Aroclor 1221	**ND**	0.25	EPA 8082A	8-18-14	8-18-14	
Aroclor 1232	**ND**	0.25	EPA 8082A	8-18-14	8-18-14	
Aroclor 1242	**ND**	0.25	EPA 8082A	8-18-14	8-18-14	
Aroclor 1248	**ND**	0.25	EPA 8082A	8-18-14	8-18-14	
Aroclor 1254	**ND**	0.25	EPA 8082A	8-18-14	8-18-14	
Aroclor 1260	**ND**	0.25	EPA 8082A	8-18-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*112*	*51-138*				
Client ID:	**CB-5-081514**					
Laboratory ID:	08-126-06					
Aroclor 1016	**ND**	0.14	EPA 8082A	8-18-14	8-18-14	
Aroclor 1221	**ND**	0.14	EPA 8082A	8-18-14	8-18-14	
Aroclor 1232	**ND**	0.14	EPA 8082A	8-18-14	8-18-14	
Aroclor 1242	**ND**	0.14	EPA 8082A	8-18-14	8-18-14	
Aroclor 1248	**ND**	0.14	EPA 8082A	8-18-14	8-18-14	
Aroclor 1254	**ND**	0.14	EPA 8082A	8-18-14	8-18-14	
Aroclor 1260	**ND**	0.14	EPA 8082A	8-18-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*126*	*51-138*				

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-18-14	8-18-14	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-18-14	8-18-14	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-18-14	8-18-14	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-18-14	8-18-14	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-18-14	8-18-14	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-18-14	8-18-14	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-18-14	8-18-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*105*	*51-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0818S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.461**	**0.434**	0.500	0.500	N/A	**92**	**87**	66-120	6	14	
Surrogate:											
DCB						*110*	*105*	*51-138*			

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

TOTAL METALS
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-126-01					
Client ID:	**Lift Station-081514**					
Arsenic	**ND**	17	6010C	8-18-14	8-18-14	
Chromium	**75**	0.83	6010C	8-18-14	8-18-14	
Copper	**140**	1.7	6010C	8-18-14	8-18-14	
Lead	**170**	8.3	6010C	8-18-14	8-18-14	
Zinc	**1300**	4.2	6010C	8-18-14	8-18-14	
Lab ID:	08-126-02					
Client ID:	**CB-2-081514**					
Arsenic	**ND**	13	6010C	8-18-14	8-18-14	
Chromium	**49**	0.64	6010C	8-18-14	8-18-14	
Copper	**56**	1.3	6010C	8-18-14	8-18-14	
Lead	**65**	6.4	6010C	8-18-14	8-18-14	
Zinc	**710**	3.2	6010C	8-18-14	8-18-14	
Lab ID:	08-126-03					
Client ID:	**CB-1-081514**					
Arsenic	**ND**	17	6010C	8-18-14	8-18-14	
Chromium	**55**	0.83	6010C	8-18-14	8-18-14	
Copper	**75**	1.7	6010C	8-18-14	8-18-14	
Lead	**62**	8.3	6010C	8-18-14	8-18-14	
Zinc	**630**	4.2	6010C	8-18-14	8-18-14	

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

TOTAL METALS
EPA 6010C

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-126-04					
Client ID:	**CB-3-081514**					
Arsenic	**ND**	13	6010C	8-18-14	8-18-14	
Chromium	**34**	0.65	6010C	8-18-14	8-18-14	
Copper	**65**	1.3	6010C	8-18-14	8-18-14	
Lead	**85**	6.5	6010C	8-18-14	8-18-14	
Zinc	**740**	3.3	6010C	8-18-14	8-18-14	
Lab ID:	08-126-05					
Client ID:	**CB-4-081514**					
Arsenic	**68**	25	6010C	8-18-14	8-18-14	
Chromium	**140**	1.3	6010C	8-18-14	8-18-14	
Copper	**1300**	2.5	6010C	8-18-14	8-18-14	
Lead	**370**	13	6010C	8-18-14	8-18-14	
Zinc	**1900**	6.3	6010C	8-18-14	8-18-14	
Lab ID:	08-126-06					
Client ID:	**CB-5-081514**					
Arsenic	**ND**	14	6010C	8-18-14	8-18-14	
Chromium	**48**	0.71	6010C	8-18-14	8-18-14	
Copper	**75**	1.4	6010C	8-18-14	8-18-14	
Lead	**110**	7.1	6010C	8-18-14	8-18-14	
Zinc	**1100**	3.5	6010C	8-18-14	8-18-14	

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-18-14
Date Analyzed:	8-18-14
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0818SM1&MB0818SM2

Analyte	Method	Result	PQL
Arsenic	6010C	**ND**	10
Chromium	6010C	**ND**	0.50
Copper	6010C	**ND**	1.0
Lead	6010C	**ND**	5.0
Zinc	6010C	**ND**	2.5

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

TOTAL METALS
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 8-18-14
Date Analyzed: 8-18-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-126-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	**ND**	**ND**	NA	10	
Chromium	**38.1**	**44.3**	15	0.50	
Copper	**43.9**	**43.4**	1	1.0	
Lead	**51.1**	**50.4**	1	5.0	
Zinc	**557**	**562**	1	2.5	

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

TOTAL METALS
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 8-18-14
Date Analyzed: 8-18-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-126-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**93.5**	94	**93.3**	93	0	
Chromium	100	**134**	96	**135**	97	1	
Copper	50.0	**90.5**	93	**91.1**	94	1	
Lead	250	**307**	102	**301**	100	2	
Zinc	100	**669**	112	**656**	99	2	

Date of Report: August 18, 2014
Samples Submitted: August 15, 2014
Laboratory Reference: 1408-126
Project: 1071-007

% MOISTURE

Date Analyzed: 8-15-14

Client ID	Lab ID	% Moisture
Lift Station-081514	08-126-01	40
CB-2-081514	08-126-02	22
CB-1-081514	08-126-03	40
CB-3-081514	08-126-04	23
CB-4-081514	08-126-05	61
CB-5-081514	08-126-06	29

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1071-007
Project Name: 6050 Marginal Way
Project Manager: Beth Padget
Sampled by: Dincer Kayhan, Ryan Ostrom

Turnaround Request (in working days)
(Check One)
- [x] Same Day
- [x] 1 Day
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days) (TPH analysis 5 Days)
- [ ] _____ (other)

Laboratory Number: 08-126

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals *	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A						% Moisture
1	Lift Station-081514	8/15/14	0842	S	2								X	X				X									X
2	CB-2-081514		1302										X	X				X									X
3	CB-1-081514		1313										X	X				X									X
4	CB-3-081514		1325										X	X				X									X
5	CB-4-081514		1335										X	X				X									X
6	CB-5-081514		1355										X	X				X									X
	RQ																										

	Signature	Company	Date	Time
Relinquished	Ryan Ostrom	Farallon	8/15/14	1450
Received	Alex Armantrout	OSE	8/15/14	1450
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
*Analyze for Arsenic, lead, Chromium, Copper, Zinc by EPA Methods 6010C/7470A.

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 30, 2014

Scott Allan
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1409-205

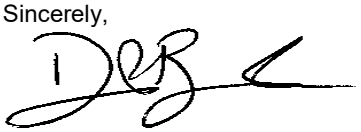
Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

Case Narrative

Samples were collected on September 22, 2014 and received by the laboratory on September 23, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F9-9.0-092214**					
Laboratory ID:	09-205-01					
Gasoline	**ND**	4.7	NWTPH-Gx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*71-121*				
Client ID:	**F10-12.0-092214**					
Laboratory ID:	09-205-02					
Gasoline	**ND**	9.4	NWTPH-Gx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*108*	*71-121*				
Client ID:	**F11-12.0-092214**					
Laboratory ID:	09-205-03					
Gasoline	**ND**	8.6	NWTPH-Gx	9-25-14	9-26-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*108*	*71-121*				
Client ID:	**F12-7.0-092214**					
Laboratory ID:	09-205-04					
Gasoline	**ND**	4.5	NWTPH-Gx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*71-121*				
Client ID:	**F15-7.4-092214**					
Laboratory ID:	09-205-07					
Gasoline	**ND**	7.9	NWTPH-Gx	9-25-14	9-29-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*106*	*71-121*				
Client ID:	**F16-7.0-092214**					
Laboratory ID:	09-205-08					
Gasoline	**ND**	10	NWTPH-Gx	9-25-14	9-29-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*71-121*				

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F17-8.0-092214**					
Laboratory ID:	09-205-09					
Gasoline	**ND**	3.1	NWTPH-Gx	9-25-14	9-29-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*71-121*				

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925S1					
Gasoline	**ND**	5.0	NWTPH-Gx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*71-121*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-228-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*101*	*103*	*71-121*			

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F10-GW-092214**					
Laboratory ID:	09-205-11					
Gasoline	**ND**	100	NWTPH-Gx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*71-112*				
Client ID:	**F11-GW-092214**					
Laboratory ID:	09-205-12					
Gasoline	**ND**	100	NWTPH-Gx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*71-112*				

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W1					
Gasoline	**ND**	100	NWTPH-Gx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*71-112*				

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-214-01								
	ORIG	DUP							
Gasoline	**ND**	**ND**	NA	NA	NA	NA	NA	30	
Surrogate:									
Fluorobenzene					*88*	*88*	*71-112*		

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F9-9.0-092214**					
Laboratory ID:	09-205-01					
Diesel Range Organics	**ND**	120	NWTPH-Dx	9-24-14	9-24-14	U1
Lube Oil	**1400**	55	NWTPH-Dx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**F10-12.0-092214**					
Laboratory ID:	09-205-02					
Diesel Range Organics	**ND**	40	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	81	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**F11-12.0-092214**					
Laboratory ID:	09-205-03					
Diesel Range Organics	**ND**	38	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	77	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**F12-7.0-092214**					
Laboratory ID:	09-205-04					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-24-14	9-24-14	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*61*	*50-150*				
Client ID:	**F13-6.7-092214**					
Laboratory ID:	09-205-05					
Diesel Range Organics	**440**	27	NWTPH-Dx	9-24-14	9-24-14	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				
Client ID:	**F14-7.0-092214**					
Laboratory ID:	09-205-06					
Diesel Range Organics	**5700**	29	NWTPH-Dx	9-24-14	9-24-14	
Lube Oil Range Organics	**ND**	270	NWTPH-Dx	9-24-14	9-24-14	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*63*	*50-150*				

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F15-7.4-092214**					
Laboratory ID:	09-205-07					
Diesel Range Organics	**ND**	38	NWTPH-Dx	9-24-14	9-24-14	
Lube Oil Range Organics	**ND**	77	NWTPH-Dx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*58*	*50-150*				
Client ID:	**F16-7.0-092214**					
Laboratory ID:	09-205-08					
Diesel Range Organics	**ND**	40	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	80	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*90*	*50-150*				
Client ID:	**F17-8.0-092214**					
Laboratory ID:	09-205-09					
Diesel Fuel #2	**380**	28	NWTPH-Dx	9-24-14	9-24-14	
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	9-24-14	9-24-14	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*68*	*50-150*				
Client ID:	**F18-8.0-092214**					
Laboratory ID:	09-205-10					
Diesel Range Organics	**9700**	140	NWTPH-Dx	9-24-14	9-25-14	
Lube Oil Range Organics	**ND**	580	NWTPH-Dx	9-24-14	9-25-14	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-24-14	9-24-14	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Laboratory ID:	MB0925S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-186-03										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*90*	*96*	*50-150*			
Laboratory ID:	09-205-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	U1
Lube Oil	**1280**	**1170**	NA	NA		NA		NA	9	NA	
Surrogate:											
o-Terphenyl						*84*	*77*	*50-150*			

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F10-GW-092214**					
Laboratory ID:	09-205-11					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**F11-GW-092214**					
Laboratory ID:	09-205-12					
Diesel Range Organics	**ND**	0.26	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	0.42	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-215-01										
	ORIG	DUP									
Diesel Range Organics	**0.552**	**0.377**	NA	NA		NA		NA	38	NA	
Lube Oil Range Organics	**0.697**	**0.506**	NA	NA		NA		NA	32	NA	
Surrogate:											
o-Terphenyl						*77*	*77*	*50-150*			

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F13-6.7-092214**					
Laboratory ID:	09-205-05					
Aroclor 1016	**ND**	0.054	EPA 8082A	9-24-14	9-24-14	
Aroclor 1221	**ND**	0.054	EPA 8082A	9-24-14	9-24-14	
Aroclor 1232	**ND**	0.054	EPA 8082A	9-24-14	9-24-14	
Aroclor 1242	**ND**	0.054	EPA 8082A	9-24-14	9-24-14	
Aroclor 1248	**ND**	0.054	EPA 8082A	9-24-14	9-24-14	
Aroclor 1254	**ND**	0.054	EPA 8082A	9-24-14	9-24-14	
Aroclor 1260	**ND**	0.054	EPA 8082A	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*58*	*51-138*				
Client ID:	**F18-8.0-092214**					
Laboratory ID:	09-205-10					
Aroclor 1016	**ND**	0.056	EPA 8082A	9-24-14	9-24-14	
Aroclor 1221	**ND**	0.056	EPA 8082A	9-24-14	9-24-14	
Aroclor 1232	**ND**	0.056	EPA 8082A	9-24-14	9-24-14	
Aroclor 1242	**ND**	0.056	EPA 8082A	9-24-14	9-24-14	
Aroclor 1248	**ND**	0.056	EPA 8082A	9-24-14	9-24-14	
Aroclor 1254	**ND**	0.056	EPA 8082A	9-24-14	9-24-14	
Aroclor 1260	**ND**	0.056	EPA 8082A	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*62*	*51-138*				

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-24-14	9-24-14	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-24-14	9-24-14	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-24-14	9-24-14	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-24-14	9-24-14	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-24-14	9-24-14	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-24-14	9-24-14	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-24-14	9-24-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*83*	*51-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-205-05										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.322**	**0.334**	0.500	0.500	ND	**64**	**67**	49-136	4	14	
Surrogate:											
DCB						*56*	*59*	*51-138*			

Date of Report: September 30, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-205
Project: 1071-007

% MOISTURE

Date Analyzed: 9-24-14

Client ID	Lab ID	% Moisture
F9-9.0-092214	09-205-01	8
F10-12.0-092214	09-205-02	38
F11-12.0-092214	09-205-03	35
F12-7.0-092214	09-205-04	9
F13-6.7-092214	09-205-05	7
F14-7.0-092214	09-205-06	13
F15-7.4-092214	09-205-07	35
F16-7.0-092214	09-205-08	37
F17-8.0-092214	09-205-09	10
F18-8.0-092214	09-205-10	10

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-007
Project Name: 6050 EAST MARGINAL WAY
Project Manager: SCOTT ALLAN
Sampled by: DINGER KAYHAN

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 09-205

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	F9-9.0-092214	9/22	0941	S	2			X	X													
2	~~F9~~ F10-12.0-092214		1005					X	X													
3	F11-12.0-092214		1045					X	X													
4	F12-7.0-092214		1108					X	X													
5	F13-6.7-092214		1135						X					X								
6	F14-7.0-092214		1155						X													
7	F15-7.4-092214		1209					X	X													
8	F16-7.0-092214		1220					X	X													
9	F17-8.0-092214		1233		3			X	X													
10	F18-8.0-092214		1243		3				X					X								

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		FARALLON	9/22	930	
Received		SPECTRUM	9/23/14	930	
Relinquished		SPECTRUM	9/23/14	1044	
Received		CORE	9/23/14	1044	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-007
Project Name: 6050 E MARGINAL WAY
Project Manager: SCOTT ALLIN
Sampled by: DINCER K

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 09-205

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
11	F10-GW-092214 DS	9/22	1020	W	5			X	X													
12	F11-GW-092214 DD	1	1100	W	5			X	X													

	Signature	Company	Date	Time
Relinquished		FARALLON	9/22/14	930
Received		SPEEDY MSG	9/23/14	9:30
Relinquished		SPEEDY	9/23/14	10:44
Received			9/23/14	1044
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 2, 2014

Scott Allin
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1409-217

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: October 2, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-217
Project: 1071-007

Case Narrative

Samples were collected on September 23, 2014 and received by the laboratory on September 23, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 2, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-217
Project: 1071-007

NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6-092314**					
Laboratory ID:	09-217-01					
Diesel Range Organics	**ND**	0.26	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	0.42	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**MW-5-092314**					
Laboratory ID:	09-217-02					
Diesel Range Organics	**0.43**	0.26	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Date of Report: October 2, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-217
Project: 1071-007

NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	9-25-14	9-25-14	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	9-25-14	9-25-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-214-01										
	ORIG	DUP									
Diesel Range Organics	**1.63**	**0.755**	NA	NA		NA		NA	73	NA	
Lube Oil Range Organics	**3.05**	**1.76**	NA	NA		NA		NA	54	NA	
Surrogate:											
o-Terphenyl						*60*	*76*	*50-150*			

Date of Report: October 2, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-217
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6-092314**					
Laboratory ID:	09-217-01					
Naphthalene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
2-Methylnaphthalene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
1-Methylnaphthalene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Acenaphthylene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Acenaphthene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Fluorene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Phenanthrene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Anthracene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Fluoranthene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Pyrene	**ND**	0.096	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[a]anthracene	**0.010**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Chrysene	**ND**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[g,h,i]perylene	**ND**	0.0096	EPA 8270D/SIM	9-28-14	9-29-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*66*	*40 - 107*				
Pyrene-d10	*65*	*41 - 106*				
Terphenyl-d14	*70*	*44 - 124*				

Date of Report: October 2, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-217
Project: 1071-007

PAHs EPA 8270D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-5-092314**					
Laboratory ID:	09-217-02					
Naphthalene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
2-Methylnaphthalene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
1-Methylnaphthalene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Acenaphthylene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Acenaphthene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Fluorene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Phenanthrene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Anthracene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Fluoranthene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Pyrene	**ND**	0.095	EPA 8270D/SIM	9-28-14	9-30-14	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Chrysene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Benzo[g,h,i]perylene	**ND**	0.0095	EPA 8270D/SIM	9-28-14	9-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*102*	*40 - 107*				
Pyrene-d10	*83*	*41 - 106*				
Terphenyl-d14	*101*	*44 - 124*				

Date of Report: October 2, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-217
Project: 1071-007

PAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0928W1					
Naphthalene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Fluorene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Anthracene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Pyrene	**ND**	0.10	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Chrysene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	9-28-14	9-29-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*64*	*40 - 107*				
Pyrene-d10	*80*	*41 - 106*				
Terphenyl-d14	*77*	*44 - 124*				

Date of Report: October 2, 2014
Samples Submitted: September 23, 2014
Laboratory Reference: 1409-217
Project: 1071-007

PAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0928W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.386**	**0.359**	0.500	0.500	77	72	31 - 110	7	46	
Acenaphthylene	**0.338**	**0.352**	0.500	0.500	68	70	40 - 118	4	43	
Acenaphthene	**0.397**	**0.393**	0.500	0.500	79	79	38 - 112	1	40	
Fluorene	**0.400**	**0.428**	0.500	0.500	80	86	45 - 114	7	41	
Phenanthrene	**0.386**	**0.418**	0.500	0.500	77	84	47 - 112	8	36	
Anthracene	**0.399**	**0.422**	0.500	0.500	80	84	46 - 135	6	37	
Fluoranthene	**0.409**	**0.440**	0.500	0.500	82	88	51 - 127	7	35	
Pyrene	**0.408**	**0.429**	0.500	0.500	82	86	50 - 125	5	37	
Benzo[a]anthracene	**0.472**	**0.484**	0.500	0.500	94	97	46 - 123	3	34	
Chrysene	**0.427**	**0.432**	0.500	0.500	85	86	49 - 120	1	34	
Benzo[b]fluoranthene	**0.438**	**0.431**	0.500	0.500	88	86	46 - 126	2	37	
Benzo(j,k)fluoranthene	**0.445**	**0.472**	0.500	0.500	89	94	43 - 125	6	39	
Benzo[a]pyrene	**0.390**	**0.410**	0.500	0.500	78	82	44 - 129	5	37	
Indeno(1,2,3-c,d)pyrene	**0.435**	**0.450**	0.500	0.500	87	90	40 - 124	3	42	
Dibenz[a,h]anthracene	**0.448**	**0.457**	0.500	0.500	90	91	35 - 122	2	44	
Benzo[g,h,i]perylene	**0.435**	**0.448**	0.500	0.500	87	90	37 - 122	3	45	
Surrogate:										
2-Fluorobiphenyl					*84*	*71*	*40 - 107*			
Pyrene-d10					*87*	*90*	*41 - 106*			
Terphenyl-d14					*85*	*89*	*44 - 124*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Page 1 of 1

Laboratory Number: 09-217

Company: FARALLON
Project Number: 1071-007
Project Name: PROLOGIS
Project Manager: Scott Allin
Sampled by: Anna Sigel

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	MW-6-092314	9/23/14	8:10	W	4			X	X				X									
2	MW-5-092314	"	9:10	"	1			X	X				X									

AKS

	Signature	Company	Date	Time
Relinquished		FARALLON	9/23/14	10:00
Received		Speedy Messenger	9-24-14	11:55
Relinquished		" "	" "	1318
Received		ORE	9/25/14	1318
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 1, 2014

Scott Allin
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1409-252

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on September 25, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: October 1, 2014
Samples Submitted: September 25, 2014
Laboratory Reference: 1409-252
Project: 1071-007

Case Narrative

Samples were collected on September 24, 2014 and received by the laboratory on September 25, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 1, 2014
Samples Submitted: September 25, 2014
Laboratory Reference: 1409-252
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-6-092414**					
Laboratory ID:	09-252-04					
Aroclor 1016	**ND**	0.065	EPA 8082A	9-30-14	9-30-14	
Aroclor 1221	**ND**	0.065	EPA 8082A	9-30-14	9-30-14	
Aroclor 1232	**ND**	0.065	EPA 8082A	9-30-14	9-30-14	
Aroclor 1242	**ND**	0.065	EPA 8082A	9-30-14	9-30-14	
Aroclor 1248	**ND**	0.065	EPA 8082A	9-30-14	9-30-14	
Aroclor 1254	**ND**	0.065	EPA 8082A	9-30-14	9-30-14	
Aroclor 1260	**ND**	0.065	EPA 8082A	9-30-14	9-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*94*	*51-138*				
Client ID:	**CB-8-092414**					
Laboratory ID:	09-252-05					
Aroclor 1016	**ND**	0.062	EPA 8082A	9-30-14	9-30-14	
Aroclor 1221	**ND**	0.062	EPA 8082A	9-30-14	9-30-14	
Aroclor 1232	**ND**	0.062	EPA 8082A	9-30-14	9-30-14	
Aroclor 1242	**ND**	0.062	EPA 8082A	9-30-14	9-30-14	
Aroclor 1248	**ND**	0.062	EPA 8082A	9-30-14	9-30-14	
Aroclor 1254	**ND**	0.062	EPA 8082A	9-30-14	9-30-14	
Aroclor 1260	**ND**	0.062	EPA 8082A	9-30-14	9-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*110*	*51-138*				
Client ID:	**CB-10-092414**					
Laboratory ID:	09-252-06					
Aroclor 1016	**ND**	0.068	EPA 8082A	9-30-14	9-30-14	
Aroclor 1221	**ND**	0.068	EPA 8082A	9-30-14	9-30-14	
Aroclor 1232	**ND**	0.068	EPA 8082A	9-30-14	9-30-14	
Aroclor 1242	**ND**	0.068	EPA 8082A	9-30-14	9-30-14	
Aroclor 1248	**ND**	0.068	EPA 8082A	9-30-14	9-30-14	
Aroclor 1254	**ND**	0.068	EPA 8082A	9-30-14	9-30-14	
Aroclor 1260	**ND**	0.068	EPA 8082A	9-30-14	9-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*95*	*51-138*				

Date of Report: October 1, 2014
Samples Submitted: September 25, 2014
Laboratory Reference: 1409-252
Project: 1071-007

PCBs
EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-12-092414**					
Laboratory ID:	09-252-07					
Aroclor 1016	**ND**	0.074	EPA 8082A	9-30-14	9-30-14	
Aroclor 1221	**ND**	0.074	EPA 8082A	9-30-14	9-30-14	
Aroclor 1232	**ND**	0.074	EPA 8082A	9-30-14	9-30-14	
Aroclor 1242	**0.31**	0.074	EPA 8082A	9-30-14	9-30-14	
Aroclor 1248	**ND**	0.074	EPA 8082A	9-30-14	9-30-14	
Aroclor 1254	**ND**	0.074	EPA 8082A	9-30-14	9-30-14	
Aroclor 1260	**ND**	0.074	EPA 8082A	9-30-14	9-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*51-138*				
Client ID:	**CB-13-092414**					
Laboratory ID:	09-252-08					
Aroclor 1016	**ND**	0.063	EPA 8082A	9-30-14	9-30-14	
Aroclor 1221	**ND**	0.063	EPA 8082A	9-30-14	9-30-14	
Aroclor 1232	**ND**	0.063	EPA 8082A	9-30-14	9-30-14	
Aroclor 1242	**ND**	0.063	EPA 8082A	9-30-14	9-30-14	
Aroclor 1248	**ND**	0.063	EPA 8082A	9-30-14	9-30-14	
Aroclor 1254	**ND**	0.063	EPA 8082A	9-30-14	9-30-14	
Aroclor 1260	**ND**	0.063	EPA 8082A	9-30-14	9-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*95*	*51-138*				

Date of Report: October 1, 2014
Samples Submitted: September 25, 2014
Laboratory Reference: 1409-252
Project: 1071-007

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-30-14	9-30-14	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-30-14	9-30-14	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-30-14	9-30-14	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-30-14	9-30-14	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-30-14	9-30-14	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-30-14	9-30-14	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-30-14	9-30-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*91*	*51-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-272-08										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.441**	**0.462**	0.500	0.500	ND	**88**	**92**	49-136	5	14	
Surrogate:											
DCB						*94*	*112*	*51-138*			

Date of Report: October 1, 2014
Samples Submitted: September 25, 2014
Laboratory Reference: 1409-252
Project: 1071-007

% MOISTURE

Date Analyzed: 9-30-14

Client ID	Lab ID	% Moisture
CB-6-092414	09-252-04	23
CB-8-092414	09-252-05	19
CB-10-092414	09-252-06	27
CB-12-092414	09-252-07	33
CB-13-092414	09-252-08	21

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1071-007
Project Name: 6050 E Marginal Way S
Project Manager: Scott Allin
Sampled by: Amber Bailey

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☒ 5 day (other)

Laboratory Number: 09-252

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	PCBs 8082		HOLD			% Moisture
1	CB-7-092414	9/24/14	1047	S	1																	X		X			
2	CB-9-092414	"	1106	"	1																	X		X			
3	CB-11-092414	"	1155	"	1																	X		X			

	Signature	Company	Date	Time
Relinquished		Farallon	9-25	1000
Received		Speedy	9-25	1000
Relinquished		Speedy	9-25	1030
Received			9/25/14	1030
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
~~Please Hold, Will call for analysis~~ DB

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐
Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1071-007
Project Name: 6050 E Marginal Way S
Project Manager: Scott Allin
Sampled by: Amber Barley

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☒ 5 day (other)

Laboratory Number: 09-252

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	PCBs 8082					% Moisture
4	CB-6-092414	9/24/14	1030	S	1																	X					10
5	CB-8-092414		1122																			X					
6	CB-10-092414		1141																			X					
7	CB-12-092414		1215																			X					
8	CB-13-092414		1230																			X					

	Signature	Company	Date	Time
Relinquished		Farallon	9-25	1000
Received		Spoke	9-25	1000
Relinquished		Spoke	1030	9-25
Received		OSE	9/25/14	1030
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 9, 2014

Scott Allin
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-007
Laboratory Reference No. 1410-031

Dear Scott:

Enclosed are the analytical results and associated quality control data for samples submitted on October 2, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: October 9, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-031
Project: 1071-007

Case Narrative

Samples were collected on October 2, 2014 and received by the laboratory on October 2, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 9, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-031
Project: 1071-007

PCBs
EPA 8082A

Matrix: Sediment
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-14-100214**					
Laboratory ID:	10-031-01					
Aroclor 1016	**ND**	0.34	EPA 8082A	10-7-14	10-7-14	
Aroclor 1221	**ND**	0.34	EPA 8082A	10-7-14	10-7-14	
Aroclor 1232	**ND**	0.34	EPA 8082A	10-7-14	10-7-14	
Aroclor 1242	**ND**	0.34	EPA 8082A	10-7-14	10-7-14	
Aroclor 1248	**ND**	0.34	EPA 8082A	10-7-14	10-7-14	
Aroclor 1254	**ND**	0.34	EPA 8082A	10-7-14	10-7-14	
Aroclor 1260	**ND**	0.34	EPA 8082A	10-7-14	10-7-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*122*	*51-138*				
Client ID:	**CB-15-100214**					
Laboratory ID:	10-031-02					
Aroclor 1016	**ND**	0.068	EPA 8082A	10-4-14	10-6-14	
Aroclor 1221	**ND**	0.068	EPA 8082A	10-4-14	10-6-14	
Aroclor 1232	**ND**	0.068	EPA 8082A	10-4-14	10-6-14	
Aroclor 1242	**ND**	0.068	EPA 8082A	10-4-14	10-6-14	
Aroclor 1248	**ND**	0.068	EPA 8082A	10-4-14	10-6-14	
Aroclor 1254	**ND**	0.068	EPA 8082A	10-4-14	10-6-14	
Aroclor 1260	**1.8**	0.068	EPA 8082A	10-4-14	10-6-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*53*	*51-138*				
Client ID:	**CB-16-100214**					
Laboratory ID:	10-031-03					
Aroclor 1016	**ND**	0.11	EPA 8082A	10-4-14	10-6-14	
Aroclor 1221	**ND**	0.11	EPA 8082A	10-4-14	10-6-14	
Aroclor 1232	**ND**	0.11	EPA 8082A	10-4-14	10-6-14	
Aroclor 1242	**ND**	0.11	EPA 8082A	10-4-14	10-6-14	
Aroclor 1248	**ND**	0.11	EPA 8082A	10-4-14	10-6-14	
Aroclor 1254	**ND**	0.11	EPA 8082A	10-4-14	10-6-14	
Aroclor 1260	**ND**	0.11	EPA 8082A	10-4-14	10-6-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*51-138*				

Date of Report: October 9, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-031
Project: 1071-007

PCBs
EPA 8082A

Matrix: Sediment
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CB-20-100214**					
Laboratory ID:	10-031-04					
Aroclor 1016	**ND**	0.066	EPA 8082A	10-4-14	10-6-14	
Aroclor 1221	**ND**	0.066	EPA 8082A	10-4-14	10-6-14	
Aroclor 1232	**ND**	0.066	EPA 8082A	10-4-14	10-6-14	
Aroclor 1242	**ND**	0.066	EPA 8082A	10-4-14	10-6-14	
Aroclor 1248	**ND**	0.066	EPA 8082A	10-4-14	10-6-14	
Aroclor 1254	**ND**	0.066	EPA 8082A	10-4-14	10-6-14	
Aroclor 1260	**ND**	0.066	EPA 8082A	10-4-14	10-6-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*69*	*51-138*				

Date of Report: October 9, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-031
Project: 1071-007

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1004S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	10-4-14	10-6-14	
Aroclor 1221	**ND**	0.050	EPA 8082A	10-4-14	10-6-14	
Aroclor 1232	**ND**	0.050	EPA 8082A	10-4-14	10-6-14	
Aroclor 1242	**ND**	0.050	EPA 8082A	10-4-14	10-6-14	
Aroclor 1248	**ND**	0.050	EPA 8082A	10-4-14	10-6-14	
Aroclor 1254	**ND**	0.050	EPA 8082A	10-4-14	10-6-14	
Aroclor 1260	**ND**	0.050	EPA 8082A	10-4-14	10-6-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*102*	*51-138*				
Laboratory ID:	MB1007S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	10-7-14	10-7-14	
Aroclor 1221	**ND**	0.050	EPA 8082A	10-7-14	10-7-14	
Aroclor 1232	**ND**	0.050	EPA 8082A	10-7-14	10-7-14	
Aroclor 1242	**ND**	0.050	EPA 8082A	10-7-14	10-7-14	
Aroclor 1248	**ND**	0.050	EPA 8082A	10-7-14	10-7-14	
Aroclor 1254	**ND**	0.050	EPA 8082A	10-7-14	10-7-14	
Aroclor 1260	**ND**	0.050	EPA 8082A	10-7-14	10-7-14	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*99*	*51-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-315-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.392**	**0.387**	0.500	0.500	ND	**78**	**77**	49-136	1	14	
Surrogate:											
DCB						*78*	*81*	*51-138*			
Laboratory ID:	09-278-04										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.492**	**0.526**	0.500	0.500	ND	**98**	**105**	49-136	7	14	
Surrogate:											
DCB						*100*	*99*	*51-138*			

Date of Report: October 9, 2014
Samples Submitted: October 2, 2014
Laboratory Reference: 1410-031
Project: 1071-007

% MOISTURE

Date Analyzed: 10-3-14

Client ID	Lab ID	% Moisture
CB-14-100214	10-031-01	41
CB-15-100214	10-031-02	27
CB-16-100214	10-031-03	52
CB-20-100214	10-031-04	24

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-007
Project Name: PROLOGIS
Project Manager: SCOTT ALLIN
Sampled by: ANNA SIGEL

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 10-0311~~0~~-027 DD

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	PCBs by 8082					% Moisture
1	CB-14-100214	10/2/14	11:55	SEDIMENT	1																	X					X
2	CB-15-100214	"	12:10	"	"																						X
3	CB-16-100214	"	12:20	"	"																						X
4	CB-20-100214	"	13:05	"	"																						X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		FARALLON	10/2/14	14:25	
Received		OSE	10.2.14	2:25	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

February and March 2017 – Test Pits Laboratory Reports

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 2, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1702-218

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on February 23, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

Case Narrative

Samples were collected on February 22, 2017 and received by the laboratory on February 23, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX and Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-7.0-022217**					
Laboratory ID:	02-218-01					
Gasoline	**ND**	8.9	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*63-124*				
Client ID:	**TP4-11.0-022217**					
Laboratory ID:	02-218-03					
Gasoline	**ND**	9.4	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*63-124*				
Client ID:	**TP3-7.0-022217**					
Laboratory ID:	02-218-04					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	9.7	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*63-124*				
Client ID:	**TP3-11.0-022217**					
Laboratory ID:	02-218-06					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.072	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.072	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.072	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.072	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	7.2	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*106*	*63-124*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP2-7.0-022217**					
Laboratory ID:	02-218-07					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.087	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.087	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.087	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.087	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	8.7	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*63-124*				
Client ID:	**TP2-11.0-022217**					
Laboratory ID:	02-218-09					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.092	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.092	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.092	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.092	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	9.2	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*63-124*				
Client ID:	**TP1-7.0-022217**					
Laboratory ID:	02-218-10					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.098	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.098	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.098	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.098	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	9.8	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*63-124*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP1-11.0-022217**					
Laboratory ID:	02-218-12					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.097	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	9.7	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*63-124*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

NWTPH-Gx/BTEX
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0224S1					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	5.0	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-218-07										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*95*	*100*	*63-124*			
SPIKE BLANKS											
Laboratory ID:	SB0224S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.960**	**0.993**	1.00	1.00		**96**	**99**	70-124	3	12	
Toluene	**0.992**	**1.08**	1.00	1.00		**99**	**108**	73-119	8	12	
Ethyl Benzene	**1.02**	**1.10**	1.00	1.00		**102**	**110**	74-117	8	12	
m,p-Xylene	**1.03**	**1.07**	1.00	1.00		**103**	**107**	75-117	4	13	
o-Xylene	**1.01**	**1.10**	1.00	1.00		**101**	**110**	75-116	9	12	
Surrogate:											
Fluorobenzene						*102*	*101*	*63-124*			

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-7.0-022217**					
Laboratory ID:	02-218-01					
Diesel Fuel #2	**1100**	34	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	70	NWTPH-Dx	3-1-17	3-1-17	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*117*	*50-150*				
Client ID:	**TP4-11.0-022217**					
Laboratory ID:	02-218-03					
Diesel Range Organics	**ND**	34	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**98**	67	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Client ID:	**TP3-7.0-022217**					
Laboratory ID:	02-218-04					
Diesel Range Organics	**ND**	35	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	70	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				
Client ID:	**TP3-11.0-022217**					
Laboratory ID:	02-218-06					
Diesel Range Organics	**ND**	33	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				
Client ID:	**TP2-7.0-022217**					
Laboratory ID:	02-218-07					
Diesel Range Organics	**ND**	35	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	69	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*90*	*50-150*				
Client ID:	**TP2-11.0-022217**					
Laboratory ID:	02-218-09					
Diesel Range Organics	**ND**	35	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	69	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*105*	*50-150*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP1-7.0-022217**					
Laboratory ID:	02-218-10					
Diesel Range Organics	**ND**	38	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	76	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*97*	*50-150*				
Client ID:	**TP1-11.0-022217**					
Laboratory ID:	02-218-12					
Diesel Range Organics	**ND**	37	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	74	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0301S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-1-17	3-1-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-1-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*105*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-218-01										
	ORIG	DUP									
Diesel Fuel #2	**784**	**517**	NA	NA		NA		NA	41	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	U1
Surrogate:											
o-Terphenyl						*117*	*98*	*50-150*			

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-7.0-022217**					
Laboratory ID:	02-218-01					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Chloromethane	ND	0.010	EPA 8260C	2-24-17	2-24-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Bromomethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Chloroethane	ND	0.0072	EPA 8260C	2-24-17	2-24-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Acetone	0.32	0.0072	EPA 8260C	2-24-17	2-24-17	
Iodomethane	ND	0.0072	EPA 8260C	2-24-17	2-24-17	
Carbon Disulfide	0.0080	0.0019	EPA 8260C	2-24-17	2-24-17	
Methylene Chloride	ND	0.0072	EPA 8260C	2-24-17	2-24-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Vinyl Acetate	ND	0.0072	EPA 8260C	2-24-17	2-24-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
2-Butanone	0.071	0.0072	EPA 8260C	2-24-17	2-24-17	
Bromochloromethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Chloroform	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Benzene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Trichloroethene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Dibromomethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	2-24-17	2-24-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Methyl Isobutyl Ketone	ND	0.0072	EPA 8260C	2-24-17	2-24-17	
Toluene	0.012	0.0072	EPA 8260C	2-24-17	2-24-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-7.0-022217**					
Laboratory ID:	02-218-01					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Tetrachloroethene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
2-Hexanone	ND	0.0072	EPA 8260C	2-24-17	2-24-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Chlorobenzene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Ethylbenzene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
m,p-Xylene	ND	0.0029	EPA 8260C	2-24-17	2-24-17	
o-Xylene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Styrene	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Bromoform	ND	0.0014	EPA 8260C	2-24-17	2-24-17	
Isopropylbenzene	0.034	0.0014	EPA 8260C	2-24-17	2-24-17	
Bromobenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.091	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	0.17	0.091	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	0.22	0.091	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.45	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.45	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.091	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*73-134*				
Toluene-d8	*100*	*81-124*				
4-Bromofluorobenzene	*83*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
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Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-11.0-022217**					
Laboratory ID:	02-218-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Chloromethane	ND	0.0084	EPA 8260C	2-24-17	2-24-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Bromomethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Chloroethane	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Acetone	0.12	0.0059	EPA 8260C	2-24-17	2-24-17	
Iodomethane	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
Carbon Disulfide	ND	0.0015	EPA 8260C	2-24-17	2-24-17	
Methylene Chloride	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Vinyl Acetate	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
2-Butanone	0.022	0.0059	EPA 8260C	2-24-17	2-24-17	
Bromochloromethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Chloroform	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Benzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Trichloroethene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Dibromomethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
Toluene	0.011	0.0059	EPA 8260C	2-24-17	2-24-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	

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Project: 1071-010

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-11.0-022217**					
Laboratory ID:	02-218-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
2-Hexanone	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Chlorobenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Ethylbenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
m,p-Xylene	ND	0.0024	EPA 8260C	2-24-17	2-24-17	
o-Xylene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Styrene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Bromoform	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Isopropylbenzene	0.076	0.0012	EPA 8260C	2-24-17	2-24-17	
Bromobenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
n-Propylbenzene	0.16	0.0012	EPA 8260C	2-24-17	2-24-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
tert-Butylbenzene	0.0028	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
sec-Butylbenzene	0.11	0.0012	EPA 8260C	2-24-17	2-24-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
p-Isopropyltoluene	0.0023	0.0012	EPA 8260C	2-24-17	2-24-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
n-Butylbenzene	0.095	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	2-24-17	2-24-17	
Naphthalene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*116*	*73-134*				
Toluene-d8	*106*	*81-124*				
4-Bromofluorobenzene	*114*	*80-131*				

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Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0223S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.0071	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Acetone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Iodomethane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Butanone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Toluene	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0223S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0020	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*73-134*				
Toluene-d8	*106*	*81-124*				
4-Bromofluorobenzene	*104*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0224S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chloromethane	ND	0.0071	EPA 8260C	2-24-17	2-24-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromomethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chloroethane	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Acetone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Iodomethane	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Carbon Disulfide	ND	0.0013	EPA 8260C	2-24-17	2-24-17	
Methylene Chloride	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Butanone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Bromochloromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chloroform	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Benzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Trichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Dibromomethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Toluene	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0224S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Hexanone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Ethylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
m,p-Xylene	ND	0.0020	EPA 8260C	2-24-17	2-24-17	
o-Xylene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Styrene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromoform	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Naphthalene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*100*	*81-124*				
4-Bromofluorobenzene	*99*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0223S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0514**	**0.0501**	0.0500	0.0500	103	100	66-127	3	15	
Benzene	**0.0481**	**0.0466**	0.0500	0.0500	96	93	76-122	3	15	
Trichloroethene	**0.0477**	**0.0475**	0.0500	0.0500	95	95	78-120	0	15	
Toluene	**0.0477**	**0.0479**	0.0500	0.0500	95	96	83-120	0	15	
Chlorobenzene	**0.0529**	**0.0522**	0.0500	0.0500	106	104	81-120	1	15	
Surrogate:										
Dibromofluoromethane					*111*	*107*	*73-134*			
Toluene-d8					*96*	*96*	*81-124*			
4-Bromofluorobenzene					*93*	*92*	*80-131*			

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0224S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0475**	**0.0491**	0.0500	0.0500	95	98	66-127	3	15	
Benzene	**0.0449**	**0.0465**	0.0500	0.0500	90	93	76-122	4	15	
Trichloroethene	**0.0465**	**0.0470**	0.0500	0.0500	93	94	78-120	1	15	
Toluene	**0.0455**	**0.0473**	0.0500	0.0500	91	95	83-120	4	15	
Chlorobenzene	**0.0515**	**0.0533**	0.0500	0.0500	103	107	81-120	3	15	
Surrogate:										
Dibromofluoromethane					*106*	*102*	*73-134*			
Toluene-d8					*93*	*91*	*81-124*			
4-Bromofluorobenzene					*87*	*87*	*80-131*			

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-7.0-022217**					
Laboratory ID:	02-218-01					
Naphthalene	**0.23**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
2-Methylnaphthalene	**0.95**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
1-Methylnaphthalene	**0.66**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]anthracene	**ND**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Chrysene	**ND**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[b]fluoranthene	**ND**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo(j,k)fluoranthene	**ND**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]pyrene	**ND**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Dibenz[a,h]anthracene	**ND**	0.0089	EPA 8270D/SIM	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*32 - 122*				
Pyrene-d10	*71*	*33 - 125*				
Terphenyl-d14	*98*	*36 - 118*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP4-11.0-022217**					
Laboratory ID:	02-218-03					
Naphthalene	**0.037**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
2-Methylnaphthalene	**0.064**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
1-Methylnaphthalene	**0.14**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]anthracene	**ND**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Chrysene	**ND**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[b]fluoranthene	**ND**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo(j,k)fluoranthene	**ND**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]pyrene	**ND**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Dibenz[a,h]anthracene	**ND**	0.0090	EPA 8270D/SIM	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*71*	*32 - 122*				
Pyrene-d10	*81*	*33 - 125*				
Terphenyl-d14	*110*	*36 - 118*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0227S2					
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*32 - 122*				
Pyrene-d10	*98*	*33 - 125*				
Terphenyl-d14	*99*	*36 - 118*				

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	02-204-16										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0688**	**0.0662**	0.0833	0.0833	ND	83	79	39 - 112	4	27	
Benzo[a]anthracene	**0.0713**	**0.0709**	0.0833	0.0833	ND	86	85	30 - 143	1	31	
Chrysene	**0.0689**	**0.0676**	0.0833	0.0833	ND	83	81	32 - 129	2	33	
Benzo[b]fluoranthene	**0.0682**	**0.0680**	0.0833	0.0833	ND	82	82	23 - 140	0	29	
Benzo(j,k)fluoranthene	**0.0679**	**0.0662**	0.0833	0.0833	ND	82	79	32 - 119	3	30	
Benzo[a]pyrene	**0.0696**	**0.0670**	0.0833	0.0833	ND	84	80	31 - 131	4	32	
Indeno(1,2,3-c,d)pyrene	**0.0826**	**0.0833**	0.0833	0.0833	ND	99	100	31 - 130	1	28	
Dibenz[a,h]anthracene	**0.0765**	**0.0732**	0.0833	0.0833	ND	92	88	40 - 119	4	27	
Surrogate:											
2-Fluorobiphenyl						*55*	*52*	*32 - 122*			
Pyrene-d10						*71*	*71*	*33 - 125*			
Terphenyl-d14						*110*	*110*	*36 - 118*			

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-218-01					
Client ID:	**TP4-7.0-022217**					
Arsenic	**ND**	13	6010C	2-24-17	2-24-17	
Cadmium	**ND**	0.67	6010C	2-24-17	2-24-17	
Chromium	**18**	0.67	6010C	2-24-17	2-24-17	
Copper	**22**	1.3	6010C	2-24-17	2-24-17	
Lead	**ND**	6.7	6010C	2-24-17	2-24-17	
Mercury	**ND**	0.33	7471B	2-27-17	2-27-17	
Lab ID:	02-218-03					
Client ID:	**TP4-11.0-022217**					
Arsenic	**ND**	13	6010C	2-24-17	2-24-17	
Cadmium	**ND**	0.67	6010C	2-24-17	2-24-17	
Chromium	**16**	0.67	6010C	2-24-17	2-24-17	
Copper	**17**	1.3	6010C	2-24-17	2-24-17	
Lead	**ND**	6.7	6010C	2-24-17	2-24-17	
Mercury	**ND**	0.34	7471B	2-27-17	2-27-17	

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-24-17
Date Analyzed:	2-24-17
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0224SM2

Analyte	Method	Result	PQL
Arsenic	6010C	**ND**	10
Cadmium	6010C	**ND**	0.50
Chromium	6010C	**ND**	0.50
Copper	6010C	**ND**	1.0
Lead	6010C	**ND**	5.0

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-27-17
Date Analyzed:	2-27-17
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0227S1

Analyte	Method	Result	PQL
Mercury	7471B	**ND**	0.25

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

TOTAL METALS
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 2-24-17
Date Analyzed: 2-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-124-67

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	**ND**	**ND**	NA	10	
Cadmium	**ND**	**ND**	NA	0.50	
Chromium	**21.9**	**26.7**	20	0.50	
Copper	**38.1**	**34.3**	10	1.0	
Lead	**6.35**	**6.80**	7	5.0	

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL

Date Extracted: 2-27-17
Date Analyzed: 2-27-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-209-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	**ND**	**ND**	NA	0.25	

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

TOTAL METALS
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 2-24-17
Date Analyzed: 2-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-124-67

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**100**	100	**97.7**	98	3	
Cadmium	50.0	**45.6**	91	**45.5**	91	0	
Chromium	100	**111**	89	**109**	88	1	
Copper	50.0	**89.2**	102	**89.8**	103	1	
Lead	250	**229**	89	**227**	88	1	

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL

Date Extracted: 2-27-17
Date Analyzed: 2-27-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-209-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	**0.542**	108	**0.536**	107	1	

Date of Report: March 2, 2017
Samples Submitted: February 23, 2017
Laboratory Reference: 1702-218
Project: 1071-010

% MOISTURE

Date Analyzed: 2-23&24-17

Client ID	Lab ID	% Moisture
TP4-7.0-022217	02-218-01	25
TP4-11.0-022217	02-218-03	26
TP3-7.0-022217	02-218-04	28
TP3-11.0-022217	02-218-06	25
TP2-7.0-022217	02-218-07	27
TP2-11.0-022217	02-218-09	28
TP1-7.0-022217	02-218-10	34
TP1-11.0-022217	02-218-12	32

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Scott

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 02-218

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	carcinogenic PAHs 8270D/SIM (low-level) + high intensities	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals +Cu	TCLP Metals	HEM (oil and grease) 1664A				Hold	% Moisture
1	TP4-7.0-022217	2/22/17	810	S	5			X	X	X				X						X						X
2	TP4-9.0-022217		825	S	5																				X	
3	TP4-11.0-022217		835	S	5			X	X	X				X						X						X
4	TP3-7.0-022217		930	S	2		X		X																	X
5	TP3-9.0-022217		940	S	2																				X	
6	TP3-11.0-022217		950	S	2		X		X																	X
7	TP2-7.0-022217		1030	S	2		X		X																	X
8	TP2-9.0-022217		1040	S	2																				X	
9	TP2-11.0-022217		1050	S	2		X		X																	X
10	TP1-7.0-022217	↓	1205	S	2		X		X																	X

	Signature	Company	Date	Time
Relinquished	Ken Scott	FARALLON	2/22/17	1530
Received			2/23/17	1220
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 2 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Scott

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 02-218

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A				Hold	% Moisture
11	TP1-9.0-022217	2/22/17	1215	S	2																					X	
12	TP1-11.0-022217	↓	1230	S	2		X		X																		X

KS

	Signature	Company	Date	Time
Relinquished	Ken Scott	FARALLON	2/22/17	1530
Received			2/23/17	1220
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 2, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1702-204

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on February 22, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

Case Narrative

Samples were collected on February 21, 2017 and received by the laboratory on February 22, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Some MTCA Method A cleanup levels are non-achievable for sample TP5-11.0-022117 due to the necessary dilution of the sample.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP6-7.0-022117**					
Laboratory ID:	02-204-01					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.096	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.096	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.096	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.096	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	9.6	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*63-124*				
Client ID:	**TP6-11.0-022117**					
Laboratory ID:	02-204-03					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.067	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.067	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.067	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.067	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	6.7	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*63-124*				
Client ID:	**TP7-7.0-022117**					
Laboratory ID:	02-204-04					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.088	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**0.18**	0.088	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**0.13**	0.088	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.088	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	8.8	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*63-124*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP7-11.0-022117**					
Laboratory ID:	02-204-06					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.078	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.078	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.078	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.078	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	7.8	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*63-124*				
Client ID:	**TP9-7.0-022117**					
Laboratory ID:	02-204-07					
Gasoline	**ND**	7.9	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*63-124*				
Client ID:	**TP9-11.0-022117**					
Laboratory ID:	02-204-09					
Gasoline	**ND**	13	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*63-124*				
Client ID:	**TP8-7.0-022117**					
Laboratory ID:	02-204-10					
Gasoline	**ND**	7.7	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*63-124*				
Client ID:	**TP8-11.0-022117**					
Laboratory ID:	02-204-12					
Gasoline	**ND**	7.5	NWTPH-Gx	2-24-17	2-27-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*63-124*				
Client ID:	**TP10-7.0-022117**					
Laboratory ID:	02-204-13					
Gasoline	**ND**	5.8	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*63-124*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP10-11.0-022117**					
Laboratory ID:	02-204-15					
Gasoline	**ND**	10	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*63-124*				
Client ID:	**TP5-7.0-022117**					
Laboratory ID:	02-204-16					
Gasoline	**ND**	14	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*63-124*				
Client ID:	**TP5-11.0-022117**					
Laboratory ID:	02-204-18					
Gasoline	**ND**	13	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*63-124*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0224S1					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	5.0	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*63-124*				
Laboratory ID:	MB0224S2					
Benzene	**ND**	0.020	EPA 8021B	2-24-17	2-24-17	
Toluene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
Ethyl Benzene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
m,p-Xylene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
o-Xylene	**ND**	0.050	EPA 8021B	2-24-17	2-24-17	
Gasoline	**ND**	5.0	NWTPH-Gx	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*63-124*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Gx/BTEX
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-204-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*94*	*93*	*63-124*			
Laboratory ID:	02-218-07										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*95*	*100*	*63-124*			
SPIKE BLANKS											
Laboratory ID:	SB0224S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.960**	**0.993**	1.00	1.00		**96**	**99**	70-124	3	12	
Toluene	**0.992**	**1.08**	1.00	1.00		**99**	**108**	73-119	8	12	
Ethyl Benzene	**1.02**	**1.10**	1.00	1.00		**102**	**110**	74-117	8	12	
m,p-Xylene	**1.03**	**1.07**	1.00	1.00		**103**	**107**	75-117	4	13	
o-Xylene	**1.01**	**1.10**	1.00	1.00		**101**	**110**	75-116	9	12	
Surrogate:											
Fluorobenzene						*102*	*101*	*63-124*			

Date of Report: March 2, 2017
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Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP6-7.0-022117**					
Laboratory ID:	02-204-01					
Diesel Range Organics	**63**	40	NWTPH-Dx	2-27-17	3-1-17	
Lube Oil Range Organics	**360**	80	NWTPH-Dx	2-27-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**TP6-11.0-022117**					
Laboratory ID:	02-204-03					
Diesel Range Organics	**ND**	32	NWTPH-Dx	2-27-17	2-28-17	
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**TP7-7.0-022117**					
Laboratory ID:	02-204-04					
Diesel Range Organics	**2300**	35	NWTPH-Dx	2-27-17	2-28-17	
Lube Oil	**160**	70	NWTPH-Dx	2-27-17	2-28-17	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**TP7-11.0-022117**					
Laboratory ID:	02-204-06					
Diesel Range Organics	**ND**	35	NWTPH-Dx	2-27-17	3-1-17	
Lube Oil Range Organics	**88**	71	NWTPH-Dx	2-27-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*65*	*50-150*				
Client ID:	**TP9-7.0-022117**					
Laboratory ID:	02-204-07					
Diesel Range Organics	**ND**	36	NWTPH-Dx	2-27-17	3-1-17	
Lube Oil Range Organics	**ND**	71	NWTPH-Dx	2-27-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				
Client ID:	**TP9-11.0-022117**					
Laboratory ID:	02-204-09					
Diesel Range Organics	**ND**	37	NWTPH-Dx	2-27-17	3-1-17	
Lube Oil Range Organics	**ND**	74	NWTPH-Dx	2-27-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*61*	*50-150*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP8-7.0-022117**					
Laboratory ID:	02-204-10					
Diesel Range Organics	**ND**	36	NWTPH-Dx	2-27-17	2-28-17	
Lube Oil Range Organics	**ND**	71	NWTPH-Dx	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**TP8-11.0-022117**					
Laboratory ID:	02-204-12					
Diesel Range Organics	**ND**	34	NWTPH-Dx	2-27-17	2-28-17	
Lube Oil Range Organics	**ND**	68	NWTPH-Dx	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**TP10-7.0-022117**					
Laboratory ID:	02-204-13					
Diesel Range Organics	**ND**	28	NWTPH-Dx	2-27-17	2-28-17	
Lube Oil Range Organics	**ND**	57	NWTPH-Dx	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				
Client ID:	**TP10-11.0-022117**					
Laboratory ID:	02-204-15					
Diesel Range Organics	**ND**	39	NWTPH-Dx	2-27-17	3-1-17	
Lube Oil Range Organics	**84**	79	NWTPH-Dx	2-27-17	3-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*62*	*50-150*				
Client ID:	**TP5-7.0-022117**					
Laboratory ID:	02-204-16					
Diesel Range Organics	**1100**	33	NWTPH-Dx	2-27-17	2-28-17	
Lube Oil	**540**	66	NWTPH-Dx	2-27-17	2-28-17	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**TP5-11.0-022117**					
Laboratory ID:	02-204-18					
Diesel Range Organics	**6800**	160	NWTPH-Dx	2-27-17	3-1-17	
Lube Oil	**1300**	320	NWTPH-Dx	2-27-17	3-1-17	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*65*	*50-150*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0227S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	2-27-17	2-28-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-124-69										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil	**125**	**71.5**	NA	NA		NA		NA	54	NA	
Surrogate:											
o-Terphenyl						*75*	*93*	*50-150*			
Laboratory ID:	02-204-13										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*69*	*80*	*50-150*			

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP9-7.0-022117**					
Laboratory ID:	02-204-07					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.0082	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Acetone	0.40	0.0058	EPA 8260C	2-23-17	2-23-17	Y
Iodomethane	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	0.0018	0.0012	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
2-Butanone	0.070	0.0058	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
Toluene	0.0086	0.0058	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP9-7.0-022117**					
Laboratory ID:	02-204-07					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0023	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*73-134*				
Toluene-d8	*100*	*81-124*				
4-Bromofluorobenzene	*93*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP9-11.0-022117**					
Laboratory ID:	02-204-09					
Dichlorodifluoromethane	ND	0.0024	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.013	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Acetone	0.40	0.0092	EPA 8260C	2-23-17	2-23-17	Y
Iodomethane	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	0.0025	0.0018	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
2-Butanone	0.075	0.0092	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
Toluene	0.018	0.0092	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	

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Project: 1071-010

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP9-11.0-022117**					
Laboratory ID:	02-204-09					
1,1,2-Trichloroethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0037	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0092	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0018	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*73-134*				
Toluene-d8	*95*	*81-124*				
4-Bromofluorobenzene	*83*	*80-131*				

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Laboratory Reference: 1702-204
Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP8-7.0-022117**					
Laboratory ID:	02-204-10					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.0079	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Acetone	0.18	0.0056	EPA 8260C	2-23-17	2-23-17	Y
Iodomethane	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Butanone	0.031	0.0056	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
Toluene	0.0061	0.0056	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP8-7.0-022117**					
Laboratory ID:	02-204-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0022	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*100*	*81-124*				
4-Bromofluorobenzene	*89*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP8-11.0-022117**					
Laboratory ID:	02-204-12					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.0078	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Acetone	0.12	0.0055	EPA 8260C	2-23-17	2-23-17	Y
Iodomethane	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	0.0030	0.0011	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Butanone	0.020	0.0055	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
Toluene	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP8-11.0-022117**					
Laboratory ID:	02-204-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0022	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*73-134*				
Toluene-d8	*91*	*81-124*				
4-Bromofluorobenzene	*80*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP10-7.0-022117**					
Laboratory ID:	02-204-13					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.0074	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Acetone	0.0080	0.0052	EPA 8260C	2-23-17	2-23-17	Y
Iodomethane	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Butanone	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
Toluene	0.0065	0.0052	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	

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Project: 1071-010

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP10-7.0-022117**					
Laboratory ID:	02-204-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0021	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*73-134*				
Toluene-d8	*104*	*81-124*				
4-Bromofluorobenzene	*98*	*80-131*				

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Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP10-11.0-022117**					
Laboratory ID:	02-204-15					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.010	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Acetone	0.22	0.0073	EPA 8260C	2-23-17	2-23-17	Y
Iodomethane	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	0.0047	0.0015	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
2-Butanone	0.038	0.0073	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
Toluene	0.014	0.0073	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP10-11.0-022117**					
Laboratory ID:	02-204-15					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0029	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0073	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*99*	*81-124*				
4-Bromofluorobenzene	*84*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP5-7.0-022117**					
Laboratory ID:	02-204-16					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.0071	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Acetone	0.050	0.0050	EPA 8260C	2-23-17	2-23-17	Y
Iodomethane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Butanone	0.0051	0.0050	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Toluene	0.011	0.0050	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP5-7.0-022117**					
Laboratory ID:	02-204-16					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	0.012	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0020	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,1,2,2-Tetrachloroethane	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichloropropane	ND	0.069	EPA 8260C	2-24-17	2-24-17	
n-Propylbenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
2-Chlorotoluene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
4-Chlorotoluene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,3,5-Trimethylbenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
tert-Butylbenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trimethylbenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
sec-Butylbenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,3-Dichlorobenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
p-Isopropyltoluene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,4-Dichlorobenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,2-Dichlorobenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
n-Butylbenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromo-3-chloropropane	ND	0.35	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trichlorobenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
Hexachlorobutadiene	ND	0.35	EPA 8260C	2-24-17	2-24-17	
Naphthalene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichlorobenzene	ND	0.069	EPA 8260C	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*127*	*73-134*				
Toluene-d8	*93*	*81-124*				
4-Bromofluorobenzene	*88*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP5-11.0-022117**					
Laboratory ID:	02-204-18					
Dichlorodifluoromethane	ND	0.084	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.46	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.32	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Acetone	ND	0.32	EPA 8260C	2-23-17	2-23-17	
Iodomethane	ND	0.32	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.32	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.32	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
2-Butanone	ND	0.32	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.32	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.32	EPA 8260C	2-23-17	2-23-17	
Toluene	ND	0.32	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.065	EPA 8260C	2-23-17	2-23-17	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP5-11.0-022117**					
Laboratory ID:	02-204-18					
1,1,2-Trichloroethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.32	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.13	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.065	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.32	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.32	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.065	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	0.28	0.065	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*73-134*				
Toluene-d8	*91*	*81-124*				
4-Bromofluorobenzene	*89*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0223S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	2-23-17	2-23-17	
Chloromethane	ND	0.0071	EPA 8260C	2-23-17	2-23-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroethane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Acetone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Iodomethane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methylene Chloride	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Butanone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Bromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chloroform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Benzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Trichloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Dibromomethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Toluene	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0223S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Hexanone	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Chlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Ethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
m,p-Xylene	ND	0.0020	EPA 8260C	2-23-17	2-23-17	
o-Xylene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Styrene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromoform	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Bromobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	2-23-17	2-23-17	
Naphthalene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	2-23-17	2-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*73-134*				
Toluene-d8	*106*	*81-124*				
4-Bromofluorobenzene	*104*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0224S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chloromethane	ND	0.0071	EPA 8260C	2-24-17	2-24-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromomethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chloroethane	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Acetone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Iodomethane	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Methylene Chloride	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Butanone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Bromochloromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chloroform	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Benzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Trichloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Dibromomethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Toluene	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0224S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Hexanone	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Chlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Ethylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
m,p-Xylene	ND	0.0020	EPA 8260C	2-24-17	2-24-17	
o-Xylene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Styrene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromoform	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Bromobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	2-24-17	2-24-17	
Naphthalene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	2-24-17	2-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*100*	*81-124*				
4-Bromofluorobenzene	*99*	*80-131*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0223S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0514**	**0.0501**	0.0500	0.0500	103	100	66-127	3	15	
Benzene	**0.0481**	**0.0466**	0.0500	0.0500	96	93	76-122	3	15	
Trichloroethene	**0.0477**	**0.0475**	0.0500	0.0500	95	95	78-120	0	15	
Toluene	**0.0477**	**0.0479**	0.0500	0.0500	95	96	83-120	0	15	
Chlorobenzene	**0.0529**	**0.0522**	0.0500	0.0500	106	104	81-120	1	15	
Surrogate:										
Dibromofluoromethane					*111*	*107*	*73-134*			
Toluene-d8					*96*	*96*	*81-124*			
4-Bromofluorobenzene					*93*	*92*	*80-131*			

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0224S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0475**	**0.0491**	0.0500	0.0500	95	98	66-127	3	15	
Benzene	**0.0449**	**0.0465**	0.0500	0.0500	90	93	76-122	4	15	
Trichloroethene	**0.0465**	**0.0470**	0.0500	0.0500	93	94	78-120	1	15	
Toluene	**0.0455**	**0.0473**	0.0500	0.0500	91	95	83-120	4	15	
Chlorobenzene	**0.0515**	**0.0533**	0.0500	0.0500	103	107	81-120	3	15	
Surrogate:										
Dibromofluoromethane					*106*	*102*	*73-134*			
Toluene-d8					*93*	*91*	*81-124*			
4-Bromofluorobenzene					*87*	*87*	*80-131*			

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP5-7.0-022117**					
Laboratory ID:	02-204-16					
Naphthalene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
2-Methylnaphthalene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
1-Methylnaphthalene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]anthracene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Chrysene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[b]fluoranthene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo(j,k)fluoranthene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]pyrene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Dibenz[a,h]anthracene	**ND**	0.0088	EPA 8270D/SIM	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*55*	*32 - 122*				
Pyrene-d10	*62*	*33 - 125*				
Terphenyl-d14	*102*	*36 - 118*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP5-11.0-022117**					
Laboratory ID:	02-204-18					
Naphthalene	**ND**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
2-Methylnaphthalene	**ND**	0.030	EPA 8270D/SIM	2-27-17	2-28-17	U1
1-Methylnaphthalene	**ND**	0.031	EPA 8270D/SIM	2-27-17	2-28-17	U1
Benzo[a]anthracene	**0.012**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
Chrysene	**0.012**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[b]fluoranthene	**ND**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo(j,k)fluoranthene	**ND**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]pyrene	**ND**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
Dibenz[a,h]anthracene	**ND**	0.0085	EPA 8270D/SIM	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*32 - 122*				
Pyrene-d10	*62*	*33 - 125*				
Terphenyl-d14	*110*	*36 - 118*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0227S2					
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	2-27-17	2-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*32 - 122*				
Pyrene-d10	*98*	*33 - 125*				
Terphenyl-d14	*99*	*36 - 118*				

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

cPAHs + NAPHTHALENES EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	02-204-16										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0688**	**0.0662**	0.0833	0.0833	ND	83	79	39 - 112	4	27	
Benzo[a]anthracene	**0.0713**	**0.0709**	0.0833	0.0833	ND	86	85	30 - 143	1	31	
Chrysene	**0.0689**	**0.0676**	0.0833	0.0833	ND	83	81	32 - 129	2	33	
Benzo[b]fluoranthene	**0.0682**	**0.0680**	0.0833	0.0833	ND	82	82	23 - 140	0	29	
Benzo(j,k)fluoranthene	**0.0679**	**0.0662**	0.0833	0.0833	ND	82	79	32 - 119	3	30	
Benzo[a]pyrene	**0.0696**	**0.0670**	0.0833	0.0833	ND	84	80	31 - 131	4	32	
Indeno(1,2,3-c,d)pyrene	**0.0826**	**0.0833**	0.0833	0.0833	ND	99	100	31 - 130	1	28	
Dibenz[a,h]anthracene	**0.0765**	**0.0732**	0.0833	0.0833	ND	92	88	40 - 119	4	27	
Surrogate:											
2-Fluorobiphenyl						*55*	*52*	*32 - 122*			
Pyrene-d10						*71*	*71*	*33 - 125*			
Terphenyl-d14						*110*	*110*	*36 - 118*			

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-204-16					
Client ID:	**TP5-7.0-022117**					
Arsenic	**ND**	13	6010C	2-24-17	2-24-17	
Cadmium	**ND**	0.66	6010C	2-24-17	2-24-17	
Chromium	**7.0**	0.66	6010C	2-24-17	2-24-17	
Copper	**6.3**	1.3	6010C	2-24-17	2-24-17	
Lead	**ND**	6.6	6010C	2-24-17	2-24-17	
Mercury	**ND**	0.33	7471B	2-27-17	2-27-17	
Lab ID:	02-204-18					
Client ID:	**TP5-11.0-022117**					
Arsenic	**ND**	13	6010C	2-24-17	2-24-17	
Cadmium	**ND**	0.63	6010C	2-24-17	2-24-17	
Chromium	**7.9**	0.63	6010C	2-24-17	2-24-17	
Copper	**7.2**	1.3	6010C	2-24-17	2-24-17	
Lead	**ND**	6.3	6010C	2-24-17	2-24-17	
Mercury	**ND**	0.32	7471B	2-27-17	2-27-17	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-24-17
Date Analyzed: 2-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0224SM2

Analyte	Method	Result	PQL
Arsenic	6010C	**ND**	10
Cadmium	6010C	**ND**	0.50
Chromium	6010C	**ND**	0.50
Copper	6010C	**ND**	1.0
Lead	6010C	**ND**	5.0

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL

Date Extracted:	2-27-17
Date Analyzed:	2-27-17
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0227S1

Analyte	Method	Result	PQL
Mercury	7471B	**ND**	0.25

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

TOTAL METALS
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 2-24-17
Date Analyzed: 2-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-124-67

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	**ND**	**ND**	NA	10	
Cadmium	**ND**	**ND**	NA	0.50	
Chromium	**21.9**	**26.7**	20	0.50	
Copper	**38.1**	**34.3**	10	1.0	
Lead	**6.35**	**6.80**	7	5.0	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL

Date Extracted: 2-27-17
Date Analyzed: 2-27-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-209-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	**ND**	**ND**	NA	0.25	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

TOTAL METALS
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 2-24-17
Date Analyzed: 2-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-124-67

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**100**	100	**97.7**	98	3	
Cadmium	50.0	**45.6**	91	**45.5**	91	0	
Chromium	100	**111**	89	**109**	88	1	
Copper	50.0	**89.2**	102	**89.8**	103	1	
Lead	250	**229**	89	**227**	88	1	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL

Date Extracted: 2-27-17
Date Analyzed: 2-27-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-209-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	**0.542**	108	**0.536**	107	1	

Date of Report: March 2, 2017
Samples Submitted: February 22, 2017
Laboratory Reference: 1702-204
Project: 1071-010

% MOISTURE

Date Analyzed: 2-23-17

Client ID	Lab ID	% Moisture
TP6-7.0-022117	02-204-01	38
TP6-11.0-022117	02-204-03	22
TP7-7.0-022117	02-204-04	29
TP7-11.0-022117	02-204-06	29
TP9-7.0-022117	02-204-07	29
TP9-11.0-022117	02-204-09	33
TP8-7.0-022117	02-204-10	30
TP8-11.0-022117	02-204-12	26
TP10-7.0-022117	02-204-13	12
TP10-11.0-022117	02-204-15	36
TP5-7.0-022117	02-204-16	24
TP5-11.0-022117	02-204-18	21

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1071-010
Project Name: Sounder Project
Project Manager: Don Lance
Sampled by: Ken Scott, Ryan Ostrom

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 02-204

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A				Hold	% Moisture
1	TP6-7.0-022117	2/21/17	0930	Soil	2		X		X																		X
2	TP6-9.0-022117		0935		2																					X	
3	TP6-11.0-022117		0950		2		X		X																		X
4	TP7-7.0-022117		1020		2		X		X																		X
5	TP7-9.0-022117		1035		2																					X	
6	TP7-11.0-022117		1045		2		X		X																		X
7	TP9-7.0-022117		1115		5		~~PM 2/22~~	X	X	X																	X
8	TP9-9.0-022117		1120		5																					X	
9	TP9-11.0-022117		1130		5		~~PM 2/22~~	X	X	X																	X
10	TP8-7.0-022117	↓	1245	↓	5		~~PM 2/22~~	X	X	X																	X

	Signature	Company	Date	Time
Relinquished	Ken Scott	FARALLON	2/21/17	1630
Received			2/22/17	1400
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
~~Please Hold. PM Will Call for Analysis~~
DML 2/21/17

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 2 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Scott & RYAN OSTROM

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 02-204

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/~~BTEX~~ DB	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs) cPAHs	~~PAHs~~ 8270D/SIM (low-level) + Naphthalenes only	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals + Cu	TCLP Metals	HEM (oil and grease) 1664A				Hold	% Moisture
11	TP8-9.0-022117	2/21/17	1225	SOIL	5																					X	
12	TP8-11.0-022117		1235		5		X		X	X																	X
13	TP10-7.0-022117		1305		5		X		X	X																	X
14	TP10-9.0-022117		1315		5																					X	
15	TP10-11.0-02217		1325		5		X		X	X																	X
16	TP5-7.0-022117		1425		5		X		X	X				X						X							X
17	TP5-9.0-022117		1430		5																					X	
18	TP5-11.0-022117	↓	1440	↓	5		X		X	X				X						X							X

	Signature	Company	Date	Time
Relinquished	Ken Scott	FARALLON	2/21/17	1630
Received	[illegible]	[illegible]	2/22/17	1400
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 15, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1703-083

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on March 9, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

Case Narrative

Samples were collected on March 8, 2017 and received by the laboratory on March 9, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Surrogate Standards Toluene-d8 and 4-Bromofluorobenzene are outside control limits on the high end for sample TP13-7.0-030817 due to co-eluting non-target analytes.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP11-7.0-030817**					
Laboratory ID:	03-083-01					
Benzene	**ND**	0.020	EPA 8021B	3-10-17	3-10-17	
Toluene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
Ethyl Benzene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
m,p-Xylene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
o-Xylene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
Gasoline	**ND**	8.9	NWTPH-Gx	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*63-124*				
Client ID:	**TP11-11.0-030817**					
Laboratory ID:	03-083-03					
Benzene	**ND**	0.020	EPA 8021B	3-10-17	3-10-17	
Toluene	**ND**	0.093	EPA 8021B	3-10-17	3-10-17	
Ethyl Benzene	**ND**	0.093	EPA 8021B	3-10-17	3-10-17	
m,p-Xylene	**ND**	0.093	EPA 8021B	3-10-17	3-10-17	
o-Xylene	**ND**	0.093	EPA 8021B	3-10-17	3-10-17	
Gasoline	**ND**	9.3	NWTPH-Gx	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*63-124*				
Client ID:	**TP12-7.0-030817**					
Laboratory ID:	03-083-04					
Benzene	**ND**	0.020	EPA 8021B	3-10-17	3-10-17	
Toluene	**ND**	0.088	EPA 8021B	3-10-17	3-10-17	
Ethyl Benzene	**ND**	0.088	EPA 8021B	3-10-17	3-10-17	
m,p-Xylene	**ND**	0.088	EPA 8021B	3-10-17	3-10-17	
o-Xylene	**ND**	0.088	EPA 8021B	3-10-17	3-10-17	
Gasoline	**ND**	8.8	NWTPH-Gx	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*63-124*				

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP12-11.0-030817**					
Laboratory ID:	03-083-06					
Benzene	**ND**	0.020	EPA 8021B	3-10-17	3-10-17	
Toluene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
Ethyl Benzene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
m,p-Xylene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
o-Xylene	**ND**	0.089	EPA 8021B	3-10-17	3-10-17	
Gasoline	**ND**	8.9	NWTPH-Gx	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*63-124*				
Client ID:	**TP13-7.0-030817**					
Laboratory ID:	03-083-07					
Benzene	**ND**	0.020	EPA 8021B	3-10-17	3-10-17	
Toluene	**ND**	0.087	EPA 8021B	3-10-17	3-10-17	
Ethyl Benzene	**0.17**	0.087	EPA 8021B	3-10-17	3-10-17	
m,p-Xylene	**ND**	0.087	EPA 8021B	3-10-17	3-10-17	
o-Xylene	**ND**	0.087	EPA 8021B	3-10-17	3-10-17	
Gasoline	**ND**	8.7	NWTPH-Gx	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*63-124*				
Client ID:	**TP13-11.0-030817**					
Laboratory ID:	03-083-09					
Benzene	**ND**	0.020	EPA 8021B	3-10-17	3-10-17	
Toluene	**ND**	0.098	EPA 8021B	3-10-17	3-10-17	
Ethyl Benzene	**ND**	0.098	EPA 8021B	3-10-17	3-10-17	
m,p-Xylene	**ND**	0.098	EPA 8021B	3-10-17	3-10-17	
o-Xylene	**ND**	0.098	EPA 8021B	3-10-17	3-10-17	
Gasoline	**ND**	9.8	NWTPH-Gx	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*63-124*				

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

NWTPH-Gx/BTEX
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310S2					
Benzene	**ND**	0.020	EPA 8021B	3-10-17	3-10-17	
Toluene	**ND**	0.050	EPA 8021B	3-10-17	3-10-17	
Ethyl Benzene	**ND**	0.050	EPA 8021B	3-10-17	3-10-17	
m,p-Xylene	**ND**	0.050	EPA 8021B	3-10-17	3-10-17	
o-Xylene	**ND**	0.050	EPA 8021B	3-10-17	3-10-17	
Gasoline	**ND**	5.0	NWTPH-Gx	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-083-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*88*	*90*	*63-124*			
SPIKE BLANKS											
Laboratory ID:	SB0310S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.925**	**0.927**	1.00	1.00		**93**	**93**	70-124	0	12	
Toluene	**0.949**	**0.955**	1.00	1.00		**95**	**96**	73-119	1	12	
Ethyl Benzene	**0.949**	**0.953**	1.00	1.00		**95**	**95**	74-117	0	12	
m,p-Xylene	**0.956**	**0.959**	1.00	1.00		**96**	**96**	75-117	0	13	
o-Xylene	**0.961**	**0.960**	1.00	1.00		**96**	**96**	75-116	0	12	
Surrogate:											
Fluorobenzene						*88*	*86*	*63-124*			

Date of Report: March 15, 2017
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Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP11-7.0-030817**					
Laboratory ID:	03-083-01					
Diesel Range Organics	**ND**	35	NWTPH-Dx	3-13-17	3-13-17	
Lube Oil Range Organics	**ND**	70	NWTPH-Dx	3-13-17	3-13-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**TP11-11.0-030817**					
Laboratory ID:	03-083-03					
Diesel Range Organics	**ND**	33	NWTPH-Dx	3-13-17	3-13-17	
Lube Oil Range Organics	**ND**	67	NWTPH-Dx	3-13-17	3-13-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**TP12-7.0-030817**					
Laboratory ID:	03-083-04					
Diesel Range Organics	**ND**	34	NWTPH-Dx	3-13-17	3-13-17	
Lube Oil Range Organics	**ND**	67	NWTPH-Dx	3-13-17	3-13-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*70*	*50-150*				
Client ID:	**TP12-11.0-030817**					
Laboratory ID:	03-083-06					
Diesel Range Organics	**ND**	36	NWTPH-Dx	3-13-17	3-13-17	
Lube Oil Range Organics	**ND**	71	NWTPH-Dx	3-13-17	3-13-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**TP13-7.0-030817**					
Laboratory ID:	03-083-07					
Diesel Fuel #2	**330**	36	NWTPH-Dx	3-13-17	3-13-17	
Lube Oil Range Organics	**ND**	72	NWTPH-Dx	3-13-17	3-13-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**TP13-11.0-030817**					
Laboratory ID:	03-083-09					
Diesel Range Organics	**ND**	37	NWTPH-Dx	3-13-17	3-13-17	
Lube Oil Range Organics	**ND**	73	NWTPH-Dx	3-13-17	3-13-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

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Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0313S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	3-13-17	3-13-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	3-13-17	3-13-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-033-04										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*65*	*71*	*50-150*			

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP11-7.0-030817**					
Laboratory ID:	03-083-01					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Chloromethane	ND	0.0062	EPA 8260C	3-9-17	3-9-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Bromomethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Chloroethane	ND	0.0062	EPA 8260C	3-9-17	3-9-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Iodomethane	ND	0.0062	EPA 8260C	3-9-17	3-9-17	
Methylene Chloride	ND	0.0062	EPA 8260C	3-9-17	3-9-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Bromochloromethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Chloroform	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Trichloroethene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Dibromomethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	3-9-17	3-9-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP11-7.0-030817**					
Laboratory ID:	03-083-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Chlorobenzene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Bromoform	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Bromobenzene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	3-9-17	3-9-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	3-9-17	3-9-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*73-134*				
Toluene-d8	*105*	*81-124*				
4-Bromofluorobenzene	*104*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP11-11.0-030817**					
Laboratory ID:	03-083-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Chloromethane	ND	0.0066	EPA 8260C	3-9-17	3-9-17	
Vinyl Chloride	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Bromomethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Chloroethane	ND	0.0066	EPA 8260C	3-9-17	3-9-17	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Iodomethane	ND	0.0066	EPA 8260C	3-9-17	3-9-17	
Methylene Chloride	ND	0.0066	EPA 8260C	3-9-17	3-9-17	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Bromochloromethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Chloroform	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Trichloroethene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Dibromomethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Bromodichloromethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	3-9-17	3-9-17	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP11-11.0-030817**					
Laboratory ID:	03-083-03					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Tetrachloroethene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Dibromochloromethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Chlorobenzene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Bromoform	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Bromobenzene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
2-Chlorotoluene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
4-Chlorotoluene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	3-9-17	3-9-17	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Hexachlorobutadiene	ND	0.0066	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	3-9-17	3-9-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*73-134*				
Toluene-d8	*101*	*81-124*				
4-Bromofluorobenzene	*93*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP12-7.0-030817**					
Laboratory ID:	03-083-04					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chloromethane	ND	0.0068	EPA 8260C	3-9-17	3-9-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromomethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chloroethane	ND	0.0068	EPA 8260C	3-9-17	3-9-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Iodomethane	ND	0.0068	EPA 8260C	3-9-17	3-9-17	
Methylene Chloride	ND	0.0068	EPA 8260C	3-9-17	3-9-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromochloromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chloroform	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Trichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Dibromomethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	3-9-17	3-9-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	

Date of Report: March 15, 2017
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP12-7.0-030817**					
Laboratory ID:	03-083-04					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Tetrachloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromoform	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	3-9-17	3-9-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*73-134*				
Toluene-d8	*99*	*81-124*				
4-Bromofluorobenzene	*98*	*80-131*				

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
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Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP12-11.0-030817**					
Laboratory ID:	03-083-06					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Chloromethane	ND	0.0074	EPA 8260C	3-9-17	3-9-17	
Vinyl Chloride	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Bromomethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Chloroethane	ND	0.0074	EPA 8260C	3-9-17	3-9-17	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Iodomethane	ND	0.0074	EPA 8260C	3-9-17	3-9-17	
Methylene Chloride	ND	0.0074	EPA 8260C	3-9-17	3-9-17	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Bromochloromethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Chloroform	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Trichloroethene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Dibromomethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Bromodichloromethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	3-9-17	3-9-17	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP12-11.0-030817**					
Laboratory ID:	03-083-06					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Tetrachloroethene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Dibromochloromethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Chlorobenzene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Bromoform	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Bromobenzene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
2-Chlorotoluene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
4-Chlorotoluene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0074	EPA 8260C	3-9-17	3-9-17	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Hexachlorobutadiene	ND	0.0074	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	3-9-17	3-9-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*73-134*				
Toluene-d8	*102*	*81-124*				
4-Bromofluorobenzene	*90*	*80-131*				

Date of Report: March 15, 2017
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP13-7.0-030817**					
Laboratory ID:	03-083-07					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	0.0068	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	0.0068	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	0.0068	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	0.0068	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP13-7.0-030817**					
Laboratory ID:	03-083-07					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*73-134*				
Toluene-d8	*126*	*81-124*				Q
4-Bromofluorobenzene	*133*	*80-131*				Q

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP13-11.0-030817**					
Laboratory ID:	03-083-09					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chloromethane	ND	0.0070	EPA 8260C	3-9-17	3-9-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromomethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chloroethane	ND	0.0070	EPA 8260C	3-9-17	3-9-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Iodomethane	ND	0.0070	EPA 8260C	3-9-17	3-9-17	
Methylene Chloride	ND	0.0070	EPA 8260C	3-9-17	3-9-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromochloromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chloroform	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Trichloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Dibromomethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	3-9-17	3-9-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	

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Samples Submitted: March 9, 2017
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TP13-11.0-030817**					
Laboratory ID:	03-083-09					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Tetrachloroethene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Chlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromoform	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Bromobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0070	EPA 8260C	3-9-17	3-9-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Hexachlorobutadiene	ND	0.0070	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	3-9-17	3-9-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*73-134*				
Toluene-d8	*116*	*81-124*				
4-Bromofluorobenzene	*114*	*80-131*				

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HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0309S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Chloromethane	ND	0.0050	EPA 8260C	3-9-17	3-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Bromomethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Chloroethane	ND	0.0050	EPA 8260C	3-9-17	3-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Iodomethane	ND	0.0050	EPA 8260C	3-9-17	3-9-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-9-17	3-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Chloroform	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-9-17	3-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0309S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Bromoform	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-9-17	3-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-9-17	3-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-9-17	3-9-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*73-134*				
Toluene-d8	*100*	*81-124*				
4-Bromofluorobenzene	*94*	*80-131*				

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0310S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Chloromethane	ND	0.0050	EPA 8260C	3-10-17	3-10-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Bromomethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Chloroethane	ND	0.0050	EPA 8260C	3-10-17	3-10-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Iodomethane	ND	0.0050	EPA 8260C	3-10-17	3-10-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-10-17	3-10-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Chloroform	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-10-17	3-10-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0310S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Bromoform	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-10-17	3-10-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-10-17	3-10-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-10-17	3-10-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*73-134*				
Toluene-d8	*110*	*81-124*				
4-Bromofluorobenzene	*115*	*80-131*				

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0309S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0388**	**0.0408**	0.0500	0.0500	78	82	66-127	5	15	
Benzene	**0.0406**	**0.0433**	0.0500	0.0500	81	87	76-122	6	15	
Trichloroethene	**0.0420**	**0.0448**	0.0500	0.0500	84	90	78-120	6	15	
Toluene	**0.0440**	**0.0457**	0.0500	0.0500	88	91	83-120	4	15	
Chlorobenzene	**0.0428**	**0.0419**	0.0500	0.0500	86	84	81-120	2	15	
Surrogate:										
Dibromofluoromethane					*105*	*101*	*73-134*			
Toluene-d8					*109*	*106*	*81-124*			
4-Bromofluorobenzene					*103*	*107*	*80-131*			

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0310S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0424**	**0.0435**	0.0500	0.0500	85	87	66-127	3	15	
Benzene	**0.0450**	**0.0456**	0.0500	0.0500	90	91	76-122	1	15	
Trichloroethene	**0.0461**	**0.0469**	0.0500	0.0500	92	94	78-120	2	15	
Toluene	**0.0468**	**0.0483**	0.0500	0.0500	94	97	83-120	3	15	
Chlorobenzene	**0.0471**	**0.0455**	0.0500	0.0500	94	91	81-120	3	15	
Surrogate:										
Dibromofluoromethane					*92*	*102*	*73-134*			
Toluene-d8					*93*	*102*	*81-124*			
4-Bromofluorobenzene					*92*	*96*	*80-131*			

Date of Report: March 15, 2017
Samples Submitted: March 9, 2017
Laboratory Reference: 1703-083
Project: 1071-010

% MOISTURE

Date Analyzed: 3-9-17

Client ID	Lab ID	% Moisture
TP11-7.0-030817	03-083-01	28
TP11-11.0-030817	03-083-03	25
TP12-7.0-030817	03-083-04	26
TP12-11.0-030817	03-083-06	30
TP13-7.0-030817	03-083-07	31
TP13-11.0-030817	03-083-09	32

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Smith

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 03-083

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Hold					% Moisture
1	TP11-7.0-030817	3/8/17	850	S	5		X		X		X																X
2	TP11-9.0-030817		900	S	5																	X					
3	TP11-11.0-030817		910	S	5		X		X		X																X
4	TP12-7.0-030817		1025	S	5		X		X		X																X
5	TP12-9.0-030817		1035	S	5																	X					
6	TP12-11.0-030817		1050	S	5		X		X		X																X
7	TP13-7.0-030817		1130	S	5		X		X		X																X
8	TP13-9.0-030817		1140	S	5																	X					
9	TP13-11.0-030817	↓	1155	S	5		X		X		X																X
				KS																							

	Signature	Company	Date	Time
Relinquished	Ken Smith	FARALLON	3/8/17	1630
Received			3/9/17	1105
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

March 2017 – Excavations 1 through 4, Mobile Laboratory Reports

Libby Environmental, Inc.
4139 Libby Road NE • Olympia, WA 98506-2518

March 20, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/16/17 Page: 1 of 1

Client: ~~Rologis~~ Farallon Consulting
Project Manager: Dan Lance
Address: 975 5th Ave NW
Project Name: Sounder Project
City: Issaquah State: WA Zip: 98027
Location: Seattle City, State: WA
Phone: 425-295-0840 Fax:
Collector: Ken Grodt Date of Collection: 3/16/17
Client Project #
Email: DLance@farallonconsulting.com

Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	6t BTEX		Field Notes
1 I6-SW-9.0-B	9.0	1240	Grab	1 Jar, 2 Vials					X							X	X		
2 I6-SW-8.0-SW	8.0	1250							X							X	X		
3 J7-SW-9.0-B	9.0	1300							X							X	X		
4 J7-SE-8.0-SW	8.0	1310							X							X	X		
5 I7-SW-9.0-B	9.0	1320							X							X	X		
6 I7-S-8.0-SW	8.0	1330							X							X	X		
7 H7-SW-9.0-B	9.0	1340							X							X	X		
8 H7-S-8.0-SW	8.0	1350							X							X	X		
9 H6-SW-9.0-B	9.0	1400							X							X	X		
10 G7-N-9.0-B	9.0	1410							X							X	X		
11 G6-N-9.0-B	9.0	1420	↓	↓					X							X	X		
12																			
13																			
14																			
15																			
16																			
17																			

Relinquished by:	Date / Time	Received by:	Date / Time
Ken Grodt	3/16/17 @ 1715		
Ryan Ostrom	3/17/17 @ 1516	Paul Pitz	3/17/17 1517

Sample Receipt

Good Condition?	Y	N	
Temp.		°C	
Seals Intact?	Y	N	N/A
Total Number of Containers			

Remarks: ML

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170317-10

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/17/17	nd	nd	nd	nd	nd	98
LCS	3/17/17	123%	116%				96
I6-SW-9.0-B	3/17/17	nd	nd	nd	nd	nd	98
I6-SW-8.0-SW	3/17/17	nd	nd	nd	nd	nd	99
J7-SW-9.0-B	3/17/17	nd	nd	nd	nd	nd	99
J7-SE-8.0-SW	3/17/17	nd	nd	nd	nd	nd	96
I7-SW-9.0-B	3/17/17	nd	nd	nd	nd	nd	91
I7-SW-9.0-B Dup	3/17/17	nd	nd	nd	nd	nd	97
I7-S-8.0-SW	3/17/17	nd	nd	nd	nd	nd	96
H7-SW-9.0-B	3/17/17	nd	nd	0.081	0.37	14	97
H7-S-8.0-SW	3/17/17	nd	nd	nd	nd	nd	97
H6-SW-9.0-B	3/17/17	nd	nd	0.091	0.38	nd	98
G7-N-9.0-B	3/17/17	nd	nd	0.094	0.38	nd	98
G6-N-9.0-B	3/17/17	nd	nd	nd	0.15	nd	98
G6-N-9.0-B Dup	3/17/17	nd	nd	nd	0.16	nd	98
H7-SW-9.0-B MS	3/17/17	120%	118%				96
H7-SW-9.0-B MSD	3/17/17	122%	119%				97
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170317-10

Analyses of Diesel & Oil (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/17/17	100	nd	nd
I6-SW-9.0-B	3/17/17	99	nd	nd
I6-SW-8.0-SW	3/17/17	107	nd	nd
J7-SW-9.0-B	3/17/17	100	nd	nd
J7-SE-8.0-SW	3/17/17	101	nd	nd
I7-SW-9.0-B	3/17/17	100	nd	nd
I7-SW-9.0-B Dup	3/17/17	112	nd	nd
I7-S-8.0-SW	3/17/17	96	nd	nd
H7-SW-9.0-B	3/17/17	91	nd	nd
H7-S-8.0-SW	3/17/17	87	nd	nd
H6-SW-9.0-B	3/17/17	94	nd	nd
G7-N-9.0-B	3/17/17	80	nd	nd
G6-N-9.0-B	3/17/17	86	nd	nd
G6-N-9.0-B Dup	3/17/17	90	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.
4139 Libby Road NE • Olympia, WA 98506-2518

March 23, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Client: Prologis / FARALLON (Site)
Address: 975 5th Ave NW
City: Issaquah State: WA Zip: 98027
Phone: 425-295-0800 Fax: 425-295-0850
Client Project # 1071-010

Date: 8/20/17 Page: 1 of 1
Project Manager: DON LANCE
Project Name: SOUNDER Projects
Location: Seattle City, State: WA.
Collector: Ken Scott Date of Collection: 8/20/17
Email: DLANCE@FARALLONCONSULTING.COM

	Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Gx BTEX	Field Notes
1	C9-NE-8.0-SW	8.0	1125	G	1/4oz 2/HCL					X								X	
2	D9/E9-SW-8.0-SW	8.0	1130	G															
3	C8-NE-10.0-B	10.0	1135	G															
4	D8/E8-SW-10.0-B	10.0	1140	G															
5	F9/E9-SW-11.0-B	11.0	1155	G															
6	F8/E8-SW-11.0-B	11.0	1200	G															
7	G9/F9-SW-11.0-B	11.0	1210	G															
8	G8/F8-SE-11.0-B	11.0	1215	G															
9	G9-SE-9.0-SW	9.0	1220	G															
10	G8-NE-9.0-SW	9.0	1230	G															
11	C8-NW-9.0-SW	9.0	1430	G															
12	D8/E8-SW-11.0-B	11.0	1440	G															
13																			
14																			
15																			
16																			
17																			

Relinquished by:	Date / Time	Received by:	Date / Time
Ken Scott	8/21/17 @ 845	Paul Pitt	8/21/17 @ 0845
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N	
Temp.			°C
Seals Intact?	Y	N	N/A
Total Number of Containers			

Remarks: on-site

ML

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170321-30
Client Project # 1071-010

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/21/17	nd	nd	nd	nd	nd	104
LCS	3/21/17	91%	94%				109
C9-NE-8.0-SW	3/21/17	nd	nd	nd	nd	nd	115
D9/E9-SW-8.0-SW	3/21/17	nd	nd	nd	nd	nd	120
C8-NE-10.0-B	3/21/17	nd	nd	nd	nd	nd	119
D8/E8-SW-10.0-B	3/21/17	nd	nd	nd	nd	nd	119
F9/E9-SW-11.0-B	3/21/17	nd	nd	nd	nd	nd	112
F9/E9-SW-11.0-B Dup	3/21/17	nd	nd	nd	nd	nd	113
F8/E8-SW-11.0-B	3/21/17	nd	nd	nd	nd	nd	119
G9/F9-SW-11.0-B	3/21/17	nd	nd	nd	nd	nd	117
G8/F8-SE-11.0-B	3/21/17	nd	nd	nd	nd	nd	110
G9-SE-9.0-SW	3/21/17	nd	nd	nd	nd	nd	121
G8-NE-9.0-SW	3/21/17	nd	nd	nd	nd	nd	120
C8-NW-9.0-SW	3/21/17	nd	nd	nd	nd	nd	123
D8/E8-SW-11.0-B	3/21/17	nd	nd	nd	nd	nd	117
D8/E8-SW-11.0-B Dup	3/21/17	nd	nd	nd	nd	nd	117
G8-NE-9.0-SW MS	3/21/17	92%	98%				113
G8-NE-9.0-SW MSD	3/21/17	94%	98%				114
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170321-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/21/17	79	nd	nd
C9-NE-8.0-SW	3/21/17	87	nd	nd
D9/E9-SW-8.0-SW	3/21/17	84	nd	nd
C8-NE-10.0-B	3/21/17	84	nd	nd
D8/E8-SW-10.0-B	3/21/17	85	nd	nd
F9/E9-SW-11.0-B	3/21/17	82	nd	nd
F9/E9-SW-11.0-B Dup	3/21/17	78	nd	nd
F8/E8-SW-11.0-B	3/21/17	85	nd	nd
G9/F9-SW-11.0-B	3/21/17	112	nd	nd
G8/F8-SE-11.0-B	3/21/17	102	nd	nd
G9-SE-9.0-SW	3/21/17	92	nd	nd
G8-NE-9.0-SW	3/21/17	84	nd	nd
C8-NW-9.0-SW	3/21/17	99	nd	nd
D8/E8-SW-11.0-B	3/21/17	83	nd	nd
D8/E8-SW-11.0-B Dup	3/21/17	90	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.
4139 Libby Road NE • Olympia, WA 98506-2518

March 28, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.com

Date: 3/21/17 & 3/22/17 Page: 1 of 1

Client: FARALLON
Address: 975 5th Avenue NW
City: Issaquah State: WA Zip: 98027
Phone: 425-295-0800 Fax: 425-295-0850
Client Project # 1071-010

Project Manager: DON LANCE
Project Name: SOUNDER Project
Location: 6050 East Marginal Way City, State: Seattle, WA
Collector: Ken Scott Date of Collection: 3/21/17, 3/22/17
Email: DLANCE@FARALLONCONSULTING.COM.

Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	GxBTEX	Field Notes
1 E5-SW-8.0-SW	8.0	1245	G S	1/4 oz 2/40mL														collected 3/21
2 E4-SW-8.0-B	8.0	1225	G S															"
3 C5/D5-SW-8.0-B	8.0	1235	G S															"
4 C5-NW-8.0-SW	8.0	1245	G S															"
5 C4-SE-8.0-SW	8.0	1255	G S															"
6 D5/E5-SE-8.0-B	8.0	1305	G S															"
7 BT-032217	NA	900	W	3/40mL VOAs 1/4 oz 2/40mL VOAs		X	X											3/22/17
8 D4-NE-9.0-B	9.0	1020	S															
9 D3-SE-9.0-SW	9.0	1030	S															
10 E6-SE-10.0-SW	10.0	1050	S															
11 D6/E6-SE-11.0-B	11.0	1100	S															
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by:	Date / Time	Received by:	Date / Time
Ken Scott	3/21/17 @ 1450		3/21/17 1450
Ken Scott	3/22/17 @ 1620		3/22/17 1620
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N	
Temp.			°C
Seals Intact?	Y	N	N/A
Total Number of Containers			

Remarks: ML

TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: *In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a cout of law.*

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170322-30
Client Project # 1071-010

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/22/17	nd	nd	nd	nd	nd	97
LCS	3/22/17	87%	103%				101
E5-SW-8.0-SW	3/22/17	nd	nd	nd	nd	nd	98
E4-SW-8.0-B	3/22/17	nd	nd	nd	nd	nd	102
C5/D5-SW-8.0-B	3/22/17	nd	nd	nd	nd	nd	101
C5-NW-8.0-SW	3/22/17	nd	nd	nd	nd	nd	104
C4-SE-8.0-SW	3/22/17	nd	nd	nd	nd	nd	96
C4-SE-8.0-SW Dup	3/22/17	nd	nd	nd	nd	nd	109
D5/E5-SE-8.0-B	3/22/17	nd	nd	nd	nd	nd	111
D4-NE-9.0-B	3/22/17	nd	nd	nd	nd	nd	110
D3-SE-9.0-SW	3/22/17	nd	nd	nd	nd	nd	95
E6-SE-10.0-SW	3/22/17	nd	nd	nd	nd	nd	83
D6/E6-SE-11.0-B	3/22/17	nd	nd	nd	nd	nd	94
C4-SE-8.0-SW MS	3/22/17	97%	109%				110
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Olympia, WA 98506
Phone: (360) 352-2110
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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170322-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/22/17	106	nd	nd
E5-SW-8.0-SW	3/22/17	110	nd	nd
E4-SW-8.0-B	3/22/17	106	nd	nd
C5/D5-SW-8.0-B	3/22/17	int	nd	1530
C5-NW-8.0-SW	3/22/17	104	nd	nd
C4-SE-8.0-SW	3/22/17	108	nd	nd
C4-SE-8.0-SW Dup	3/22/17	108	nd	nd
D5/E5-SE-8.0-B	3/22/17	108	nd	nd
D4-NE-9.0-B	3/22/17	109	nd	nd
D3-SE-9.0-SW	3/22/17	123	nd	nd
E6-SE-10.0-SW	3/22/17	96	nd	nd
D6/ES-SE-11.0-B	3/22/17	107	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170322-30
Client Project # 1071-010

Analyses of BTEX by EPA Method 8021B in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Surrogate Recovery (%)
Method Blank	3/22/17	nd	nd	nd	nd	97
LCS	3/22/17	87%	103%			101
BT-032217	3/22/17	nd	nd	nd	nd	110
BT-032217 Dup	3/22/17	nd	nd	nd	nd	109
BT-032217 MS	3/22/17	89%	105%	nd	nd	97
BT-032217 MSD	3/22/17	83%	99%	nd	nd	99
Practical Quantitation Limit		1	2	1	3	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Triflourotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170322-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/l)	Oil (µg/l)
Method Blank	3/22/17	106	nd	nd
BT-032217	3/22/17	115	248	nd
BT-032217 Dup	3/22/17	101	260	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

March 29, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc. — Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Client: FARALLON		Date: 3/22/17	Page: 1 of 1
Address: 975 5th Ave NW		Project Manager: DON LANCE	
City: ISSAQUAH	State: WA Zip: 98027	Project Name: SOUNDER Project	
Phone: 425-295-0800	Fax: 425-295-0850	Location: 6050 Marginal Way	City, State: Seattle, WA
Client Project # 1071-010		Collector: Ken Smith	Date of Collection: 3/22/17
		Email: DLANCE@FARALLONCONSULTING.COM	

	Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx (Dx)	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Gx+BTEX		Field Notes
1	C6-NW-13.0-SW	13.0	1335	S	1 4oz JAR, 2/40mL VOAs					X								X		Collected 3/22
2	C6-SE-13.0-B	13.0	1340	S	↓					X								X		↓
3	C7-NW-12.0-SW	12.0	1350	S	↓					X								X		↓
4	C7/D7-SE-14.0-B	14.0	1400	S	↓					X								X		↓
5	D7/E7-SE-13.0-B	13.0	1405	S	↓					X								X		↓
6	E7-SE-12.0-SW	12.0	1415	S	↓					X								X		↓
7	C3-NE-12.0-SW	12.0	1525	S	↓					X								X		↓
8	B3-SE-13.0-B	13.0	1530	S	↓					X								X		↓
9	C4-NE-12.0-SW	12.0	1540	S	↓					X								X		↓
10	B3-SE-12.0-SW	12.0	1545	S	↓					X								X		↓
11	E9-SE-8.0-SW	8.0	825	S	↓					X								X		3/23/17
12	F8-NE-8.0-SW	8.0	835	S	↓					X								X		↓
13	F9-SE-8.0-SW	8.0	845	S	↓					X								X		↓
14	BT-032317	NA	1240	W	↓			X		X										↓
15																				
16																				
17																				

Relinquished by:	Date / Time	Received by:	Date / Time
Ken Smith	3/22/17 @ 1620	[signature]	3/22/17 1620
Ken Smith	3/23/17 @ 1250	[signature]	3/23/17 1250

Sample Receipt

Good Condition?	Y N
Temp.	°C
Seals Intact?	Y N N/A
Total Number of Containers	

Remarks: ML

TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: *In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a cout of law.*

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170323-30
Client Project # 1071-010

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/23/17	nd	nd	nd	nd	nd	88
LCS	3/23/17	106%	112%				88
C6-NW-13.0-SW	3/23/17	nd	nd	nd	nd	nd	87
C6-SE-13.0-B	3/23/17	nd	nd	nd	nd	nd	86
C7-NW-12.0-SW	3/23/17	nd	nd	nd	nd	nd	89
C7/D7-SE-14.0-B	3/23/17	nd	nd	nd	nd	nd	89
D7/E7-SE-13.0-B	3/23/17	nd	nd	nd	nd	nd	87
D7/E7-SE-13.0-B Dup	3/23/17	nd	nd	nd	nd	nd	81
E7-SE-12.0-SW	3/23/17	nd	nd	nd	nd	nd	99
C3-NE-12.0-SW	3/23/17	nd	nd	nd	nd	nd	96
B3-SE-13.0-B	3/23/17	nd	nd	nd	nd	nd	99
C4-NE-12.0-SW	3/23/17	nd	nd	nd	nd	nd	95
B3-SE-12.0-SW	3/23/17	nd	nd	nd	nd	nd	95
B3-SE-12.0-SW Dup	3/23/17	nd	nd	nd	nd	nd	93
E9-SE-8.0-SW	3/23/17	nd	nd	nd	nd	nd	96
F8-NE-8.0-SW	3/23/17	nd	nd	nd	nd	nd	91
F9-SE-8.0-SW	3/23/17	nd	nd	nd	nd	nd	91
C4-NE-12.0-SW MS	3/23/17	112%	108%				97
C4-NE-12.0-SW MSD	3/23/17	104%	109%				92
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170323-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/23/17	106	nd	nd
C6-NW-13.0-SW	3/23/17	99	nd	nd
C6-SE-13.0-B	3/23/17	110	nd	nd
C7-NW-12.0-SW	3/23/17	101	nd	nd
C7/D7-SE-14.0-B	3/23/17	106	nd	nd
D7/E7-SE-13.0-B	3/23/17	129	nd	nd
D7/E7-SE-13.0-B Dup	3/23/17	115	nd	nd
E7-SE-12.0-SW	3/23/17	97	nd	nd
C3-NE-12.0-SW	3/23/17	101	nd	nd
B3-SE-13.0-B	3/23/17	93	nd	nd
C4-NE-12.0-SW	3/23/17	105	nd	nd
B3-SE-12.0-SW	3/23/17	93	nd	nd
B3-SE-12.0-SW Dup	3/23/17	100	nd	nd
E9-SE-8.0-SW	3/23/17	94	nd	nd
F8-NE-8.0-SW	3/23/17	106	nd	nd
F9-SE-8.0-SW	3/23/17	93	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170323-30
Client Project # 1071-010

Analyses of BTEX by EPA Method 8021B in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Surrogate Recovery (%)
Method Blank	3/23/17	nd	nd	nd	nd	88
LCS	3/23/17	106%	112%			88
BT-032317	3/23/17	nd	nd	nd	nd	88
BT-032317 Dup	3/23/17	nd	nd	nd	nd	88
BT-032317 MS	3/23/17	107%	104%			93
BT-032317 MSD	3/23/17	107%	107%			88
Practical Quantitation Limit		1	2	1	3	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Triflourotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170323-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/l)	Oil (µg/l)
Method Blank	3/23/17	106	nd	nd
BT-032317	3/23/17	int	2030	nd
BT-032317 Dup	3/23/17	int	2320	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

March 29, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110
Olympia, WA 98506 Fax: 360-352-4154

Date: 3/~~23~~ 24/17 Page: 1 of 1

Client: FARALLON
Project Manager: DON LANCE
Address: 975 5th Avenue NW
Project Name: SOUNDER Project
City: Issaquah State: WA Zip: 98027
Location: Seattle, WA City, State: Seattle, WA
Phone: 425-295-0800 Fax: 425-295-0850
Collector: Ken Smith Date of Collection: 3/23/17 & 3/24/17
Client Project # 1071-010
Email: DLANCE@FARALLONCONSULTING.COM

	Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx (IDx)	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Gx+BTEX			Collected Field Notes
1	65-NW-8.0-SW	8.0	1410	S	1/4oz Jar, 2/40ml VOAs					X								X			3/23/17
2	64-NW-8.0-SW	8.0	1420	S	↓					X								X			↓
3	63-SW-8.0-SW	8.0	1430	S	↓					X								X			↓
4	64-SW-9.0-B	9.0	1440	S	↓					X								X			↓
5	64/63-NW-9.0-B	9.0	1450	S	↓					X								X			↓
6	45-SE-9.0-B	9.0	1500	S	↓					X								X			↓
7	65-SE-9.0-B	9.0	1510	S	↓					X								X			↓
8	I5-SE-8.0-SW	8.0	0955	S	2 VOAs, 1 Jar					X								X			3/24/17
9	I5-NE-8.0-SW	8.0	0956	S						X								X			↓
10	I4-NE-8.0-SW	8.0	1005	S						X								X			↓
11	BT-032417	–	1120	W	3 VOAs, 1 500ml Amber			X			X										↓
12																					
13																					
14																					
15																					
16																					
17																					

Relinquished by:	Date / Time	Received by:	Date / Time
Ken Smith	3/23/17 @ 1525	Paul Bond	3/23/17 1525
Ryan Ostrom	3/24/17	Paul Bond	3/24/17 11:30

Sample Receipt

Good Condition? Y N
Temp. °C
Seals Intact? Y N N/A
Total Number of Containers

Remarks: ML

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170324-30
Client Project # 1071-010

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/24/17	nd	nd	nd	nd	nd	110
LCS	3/24/17	114%	114%				96
G5-NW-8.0-SW	3/24/17	nd	nd	nd	nd	nd	102
G4-NW-8.0-SW	3/24/17	nd	nd	nd	nd	nd	100
G3-SW-8.0-SW	3/24/17	nd	nd	nd	nd	nd	81
G4-SW-9.0-B	3/24/17	nd	nd	nd	nd	nd	88
G4/G5-NW-9.0-B	3/24/17	nd	nd	nd	nd	nd	97
G4/G5-NW-9.0-B Dup	3/24/17	nd	nd	nd	nd	nd	89
H5-SE-9.0-B	3/24/17	nd	nd	nd	nd	nd	92
G5-SE-9.0-B	3/24/17	nd	nd	nd	nd	nd	85
I5-SE-8.0-SW	3/24/17	nd	nd	nd	nd	nd	92
I5-NE-8.0-SW	3/24/17	nd	nd	nd	nd	nd	87
I4-NE-8.0-SW	3/24/17	nd	nd	nd	nd	nd	91
G5-SE-9.0-B MS	3/24/17	116%	120%				95
G5-SE-9.0-B MSD	3/24/17	114%	115%				86
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170324-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/24/17	101	nd	nd
G5-NW-8.0-SW	3/24/17	105	nd	nd
G4-NW-8.0-SW	3/24/17	105	nd	nd
G3-SW-8.0-SW	3/24/17	108	nd	nd
G4-SW-9.0-B	3/24/17	109	nd	nd
G4/G5-NW-9.0-B	3/24/17	105	nd	nd
G4/G5-NW-9.0-B Dup	3/24/17	109	nd	nd
H5-SE-9.0-B	3/24/17	101	nd	nd
G5-SE-9.0-B	3/24/17	116	nd	nd
I5-SE-8.0-SW	3/24/17	71	nd	nd
I5-NE-8.0-SW	3/24/17	89	nd	nd
I4-NE-8.0-SW	3/24/17	85	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170324-30
Client Project # 1071-010

Analyses of BTEX by EPA Method 8021B in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Surrogate Recovery (%)
Method Blank	3/24/17	nd	nd	nd	nd	110
LCS	3/24/17	114%	114%			96
BT-032417	3/24/17	nd	nd	nd	nd	95
BT-032417 Dup	3/24/17	nd	nd	nd	nd	88
BT-032417 MS	3/24/17	107%	108%			94
BT-032417 MSD	3/24/17	107%	107%			92
Practical Quantitation Limit		1	2	1	3	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Triflourotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170324-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/l)	Oil (µg/l)
Method Blank	3/24/17	101	nd	nd
BT-032417	3/24/17	119	432	nd
BT-032417 Dup	3/24/17	int	444	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

March 29, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc.

Chain of Custody Record

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Ph: 360-352-2110
Fax: 360-352-4154

Date: ~~3/24/17~~ 3-27-17 Page: 1 of

Client: Farallon

Project Manager: Don Lance

Address: 975 5th Ave NE

Project Name: Sounder Project

City: Issaquah State: WA Zip: 98027

Location: Seattle City, State: WA

Phone: Fax:

Collector: R. Ostrom / Ken Scott Date of Collection: 3/24 & 3/27

Client Project # 1071-010

Email:

	Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx Ext.	PAH 8270	PCB's 8082	MTCA 5 Metals			Field Notes Collected
1	G2-S-8.0-SW	8.0	1010	Soil	2 voas, 1 Jar		X				X		X						3/24/17
2	H2-NW-8.0-SW	8.0	1015	↓	↓		X				X		X						↓
3	I3-NE-8.0-SW	8.0	1020				X				X		X						
4	H4-S-12.0-B	12.0	1141				X				X		X						
5	I4-SW-10.0-B	10.0	1142				X				X		X						
6	H3-S-12.5-B	12.5	1143				X				X		X						
7	I3-SW-10.0-B	10.0	1144				X				X		X						
8	H2-S-12.0-B	12.0	1145				X				X		X						
9	UST2-6.0-B	6.0	1215				X				X		X						3/27/17
10	UST2-W-5.0-SW	5.0	1220				X				X		X						↓
11	UST2-E-5.0-SW	5.0	1230				X				X		X						
12																			
13																			
14																			
15																			
16																			
17																			

Relinquished by:	Date / Time	Received by:	Date / Time
Ryan Ostrom	3/24/17 @ 1353	Paul Bayley	3/24/17 1250
Ken Scott	3/27/17 @ 1457	Paul Bayley	3/27/17 1457

Sample Receipt:

Good Condition?	
Cold?	
Seals Intact?	
Total Number of Containers	

Remarks: ML

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170327-10
Client Project # 1071-010

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/27/17	nd	nd	nd	nd	nd	98
LCS	3/27/17	107%	102%				99
G2-S-8.0-SW	3/27/17	nd	nd	nd	nd	nd	98
H2-NW-8.0-SW	3/27/17	nd	nd	nd	nd	49	97
I3-NE-8.0-SW	3/27/17	nd	nd	nd	nd	nd	98
H4-S-12.0-B	3/27/17	nd	nd	nd	nd	130	98
I4-SW-10.0-B	3/27/17	nd	nd	nd	nd	nd	96
I4-SW-10.0-B Dup	3/27/17	nd	nd	nd	nd	nd	99
H3-S-12.5-B	3/27/17	nd	nd	nd	nd	nd	98
I3-SW-10.0-B	3/27/17	nd	nd	nd	nd	nd	99
H2-S-12.0-B	3/27/17	nd	nd	nd	nd	nd	99
H2-S-12.0-B Dup	3/27/17	nd	nd	nd	nd	nd	99
UST2-6.0-B	3/27/17	nd	0.35	0.39	5.03	27	97
UST2-W-5.0-SW	3/27/17	0.063	1.89	1.27	14.7	104	99
UST2-E-5.0-SW	3/27/17	nd	0.78	1.04	12.9	77	98
H2-S-12.0-B MS	3/27/17	109%	100%				97
H2-S-12.0-B MSD	3/27/17	105%	102%				100
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170327-10
Client Project # 1071-010

Analyses of Diesel (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/27/17	100	nd	nd
G2-S-8.0-SW	3/27/17	96	nd	nd
H2-NW-8.0-SW	3/27/17	int	5600 E	nd
I3-NE-8.0-SW	3/27/17	79	nd	nd
H4-S-12.0-B	3/27/17	int	6350 E	nd
I4-SW-10.0-B	3/27/17	int	711	nd
I4-SW-10.0-B Dup	3/27/17	int	676	nd
H3-S-12.5-B	3/27/17	116	nd	nd
I3-SW-10.0-B	3/27/17	97	nd	nd
H2-S-12.0-B	3/27/17	94	nd	nd
H2-S-12.0-B Dup	3/27/17	69	nd	nd
UST2-6.0-B	3/27/17	int	9220 E	nd
UST2-W-5.0-SW	3/27/17	int	7380 E	nd
UST2-E-5.0-SW	3/27/17	int	9540 E	nd
Practical Quantitation Limit			50	250

"E" Indicates reported result is an estimate because it exceeds the calibration limit.
"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.
4139 Libby Road NE • Olympia, WA 98506-2518

April 7, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc.

Chain of Custody Record

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Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/27/17 Page: 1 of 1

Client: FARALLON

Project Manager: DON LANCE

Address: 925 5th AVE NW

Project Name: SOUNDER Project

City: ISSAQUAH State: WA Zip: 98027

Location: ~~Seattle~~ City, State: Seattle, WA

Phone: 425-295-0800 Fax: 425-295-0850

Collector: Ken Smith Date of Collection: 3/27/17, 3/28/17

Client Project # 1071-010

Email: DLANCE@FARALLONCONSULTING.COM

Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals		Field Notes
1 J9-NE-9.0-B	9.0	1305	S	1/4oz jar 2/40mL VOAs	X	X	X		X									collected 3/27/17
2 K9-NE-10.0-B	10.0	1400	S	↓	X	X	X		X									↓
3 BT-032817	~~NA~~	1010	W	1/3oz jar 3/40mL VOAs	X	X	X		X									3/28/17
4 H2-NE-8.0-SW	8.0	1150	S		X	X	X		X									↓
5 H4-S-13.0-B	13.0	1230	S	↓	X	X	X		X									
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by:	Date / Time	Received by:	Date / Time
Ken Smith	3/27/17 @ 1457	Paul Burk	3/27/17 1457
Ken Smith	3/28/17 1502	Paul Burk	3/28/17 1502
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N	
Temp.		°C	
Seals Intact?	Y	N	N/A
Total Number of Containers			

Remarks: ML

TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: *In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a cout of law.*

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

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Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170328-30
Client Project # 1071-010

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/28/17	nd	nd	nd	nd	nd	91
LCS	3/28/17	112%	108%				93
J9-NE-9.0-B	3/28/17	nd	nd	nd	nd	nd	95
K9-NE-10.0-B	3/28/17	nd	nd	nd	nd	nd	95
K9-NE-10.0-B Dup	3/28/17	nd	nd	nd	nd	nd	92
H2-NE-8.0-SW	3/28/17	nd	nd	nd	nd	nd	108
H4-5-13.0-B	3/28/17	nd	nd	nd	nd	nd	107
K9-NE-10.0-B MS	3/28/17	88%	91%				105
K9-NE-10.0-B MSD	3/28/17	102%	110%				83
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170328-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/28/17	97	nd	nd
J9-NE-9.0-B	3/28/17	98	nd	nd
K9-NE-10.0-B	3/28/17	81	nd	nd
K9-NE-10.0-B Dup	3/28/17	86	nd	nd
H2-NE-8.0-SW	3/28/17	103	nd	nd
H4-5-13.0-B	3/28/17	90	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170328-30
Client Project # 1071-010

Analyses of BTEX by EPA Method 8021B in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Surrogate Recovery (%)
Method Blank	3/28/17	nd	nd	nd	nd	91
LCS	3/28/17	112%	108%			93
BT-032817	3/28/17	nd	nd	nd	nd	101
BT-032817 Dup	3/28/17	nd	nd	nd	nd	96
BT-032817 MS	3/28/17	116%	116%			93
BT-032817 MSD	3/28/17	118%	108%			102
Practical Quantitation Limit		1	2	1	3	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Triflourotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170328-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/l)	Oil (µg/l)
Method Blank	3/28/17	97	nd	nd
BT-032817	3/28/17	85	nd	nd
BT-032817 Dup	3/28/17	91	nd	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.
4139 Libby Road NE • Olympia, WA 98506-2518

April 7, 2017

Don Lance
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Dear Mr. Lance:

Please find enclosed the analytical data report for the Sounder Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 3/29/17 Page: 1 of 1

Client: FARALLON
Project Manager: DON LANCE
Address: 975 5th Ave NW
Project Name: SOUNDER Project
City: Issaquah State: WA Zip: 98027
Location: 2050 East Marginal Way City, State: Seattle, WA
Phone: 425-295-0800 Fax: 425-295-0850
Collector: Ken Scott Date of Collection: 3/29/17
Client Project # 1071-010
Email: DLANCE@FARALLONCONSULTING.COM

Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals			Field Notes
1 EX4-W-11.0-B	11.0	1005	S	1/4oz JAR 2/40mL VOAs	X	X			X										
2 EX4-S-10.0-SW	10.0	1010	S	↓	X	X			X										
3 EX4-E-10.0-SW	10.0	1015	S		X	X			X										
4 EX4-E-11.0-B	11.0	1020	S		X	X			X										
5 EX4-W-10.0-SW	10.0	1025	S		X	X			X										
6 EX4-N-10.0-SW	10.0	1030	S		X	X			X										
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			

Relinquished by:	Date / Time	Received by:	Date / Time
Ken Scott	3/29/17 @ 1115		3/29/17 1115
Ken Scott	3/29/17 @ 1425		3/29/17 1425
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

Good Condition?	Y	N	
Temp.		°C	
Seals Intact?	Y	N	N/A
Total Number of Containers			

Remarks: ML

TAT: 24HR 48HR 5-DAY

Distribution: White - Lab, Yellow - File, Pink - Originator

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170329-30
Client Project # 1071-010

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	3/29/17	nd	nd	nd	nd	nd	101
LCS	3/29/17	94%	94%				119
EX4-W-11.0-B	3/29/17	nd	nd	nd	nd	nd	103
EX4-S-10.0-SW	3/29/17	nd	nd	nd	nd	nd	98
EX4-E-10.0-SW	3/29/17	nd	nd	nd	nd	nd	97
EX4-E-11.0-B	3/29/17	nd	nd	nd	nd	nd	93
EX4-W-10-SW	3/29/17	nd	nd	nd	nd	nd	108
EX4-W-10.0-SW Dup	3/29/17	nd	nd	nd	nd	nd	105
EX4-N-10.0-SW	3/29/17	nd	nd	nd	nd	nd	96
EX4-N-10.0-SW MS	3/29/17	90%	87%				115
EX4-N-10.0-SW MSD	3/29/17	101%	109%				94
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

SOUNDER PROJECT
Farallon Consulting, LLC
Seattle, Washington
Libby Project # L170329-30
Client Project # 1071-010

Analyses of Diesel & Oil (NWTPH-Dx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/29/17	101	nd	nd
EX4-W-11.0-B	3/29/17	93	nd	nd
EX4-S-10.0-SW	3/29/17	90	nd	nd
EX4-E-10.0-SW	3/29/17	93	nd	nd
EX4-E-11.0-B	3/29/17	89	nd	nd
EX4-W-10.0-SW	3/29/17	97	nd	nd
EX4-W-10.0-SW Dup	3/29/17	87	nd	nd
EX4-N-10.0-SW	3/29/17	95	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

March 2017 – Excavations 1 through 4, Other Laboratory Reports

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 22, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1703-185

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

Case Narrative

Samples were collected on March 20, 2017 and received by the laboratory on March 21, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Surrogate Standard 4-Bromofluorobenzene is outside control limits for sample C9-NW-8.0-SW due to sample matrix effects. The sample was re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C9-NE-8.0-SW**					
Laboratory ID:	03-185-01					
Dichlorodifluoromethane	ND	0.0037	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.015	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.012	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.012	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.012	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.016	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C9-NE-8.0-SW**					
Laboratory ID:	03-185-01					
1,1,2-Trichloroethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	0.020	0.0023	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.012	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.012	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.012	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0023	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*73-134*				
Toluene-d8	*106*	*81-124*				
4-Bromofluorobenzene	*96*	*80-131*				

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D9/E9-SW-8.0-SW**					
Laboratory ID:	03-185-02					
Dichlorodifluoromethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.015	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.011	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.011	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.011	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.015	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D9/E9-SW-8.0-SW**					
Laboratory ID:	03-185-02					
1,1,2-Trichloroethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	0.0075	0.0022	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.011	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.011	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.011	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0022	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*73-134*				
Toluene-d8	*99*	*81-124*				
4-Bromofluorobenzene	*92*	*80-131*				

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C8-NE-10.0-B**					
Laboratory ID:	03-185-03					
Dichlorodifluoromethane	ND	0.0025	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.010	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.0077	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.0077	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.0077	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C8-NE-10.0-B**					
Laboratory ID:	03-185-03					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	0.0018	0.0015	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.0077	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0077	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.0077	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*73-134*				
Toluene-d8	*103*	*81-124*				
4-Bromofluorobenzene	*100*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C9-NW-8.0-SW**					
Laboratory ID:	03-185-04					
Dichlorodifluoromethane	ND	0.0027	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.011	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.0084	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.0084	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.0084	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C9-NW-8.0-SW**					
Laboratory ID:	03-185-04					
1,1,2-Trichloroethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.0084	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0084	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.0084	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0017	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*73-134*				
Toluene-d8	*91*	*81-124*				
4-Bromofluorobenzene	*78*	*80-131*				Q

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F9/E9-SW-11.0-B**					
Laboratory ID:	03-185-05					
Dichlorodifluoromethane	ND	0.0058	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.024	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.018	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.018	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.018	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.025	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F9/E9-SW-11.0-B**					
Laboratory ID:	03-185-05					
1,1,2-Trichloroethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0036	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.018	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.19	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.19	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.97	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.97	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.19	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*73-134*				
Toluene-d8	*102*	*81-124*				
4-Bromofluorobenzene	*83*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F8/E8-SW-11.0-B**					
Laboratory ID:	03-185-06					
Dichlorodifluoromethane	ND	0.0056	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.023	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.017	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.017	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.017	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.024	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F8/E8-SW-11.0-B**					
Laboratory ID:	03-185-06					
1,1,2-Trichloroethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.017	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.017	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.017	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0035	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*73-134*				
Toluene-d8	*118*	*81-124*				
4-Bromofluorobenzene	*102*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C8-NW-9.0-SW**					
Laboratory ID:	03-185-07					
Dichlorodifluoromethane	ND	0.0032	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.013	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.010	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.010	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.010	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.014	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C8-NW-9.0-SW**					
Laboratory ID:	03-185-07					
1,1,2-Trichloroethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	0.0095	0.0020	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.010	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.010	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.010	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0020	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*73-134*				
Toluene-d8	*103*	*81-124*				
4-Bromofluorobenzene	*92*	*80-131*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D8/E8-SW-11.0-B**					
Laboratory ID:	03-185-08					
Dichlorodifluoromethane	ND	0.0045	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.019	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.014	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.014	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.014	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.019	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D8/E8-SW-11.0-B**					
Laboratory ID:	03-185-08					
1,1,2-Trichloroethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	0.0092	0.0028	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.014	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.014	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.014	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0028	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*73-134*				
Toluene-d8	*103*	*81-124*				
4-Bromofluorobenzene	*98*	*80-131*				

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HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0321S1					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	3-21-17	3-21-17	
Chloromethane	ND	0.0067	EPA 8260C	3-21-17	3-21-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Bromomethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Chloroethane	ND	0.0050	EPA 8260C	3-21-17	3-21-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Iodomethane	ND	0.0050	EPA 8260C	3-21-17	3-21-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-21-17	3-21-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Chloroform	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	3-21-17	3-21-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	

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METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0321S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Bromoform	ND	0.0050	EPA 8260C	3-21-17	3-21-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-21-17	3-21-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-21-17	3-21-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*73-134*				
Toluene-d8	*112*	*81-124*				
4-Bromofluorobenzene	*103*	*80-131*				

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0321S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0360**	**0.0393**	0.0500	0.0500	72	79	66-127	9	15	
Benzene	**0.0418**	**0.0450**	0.0500	0.0500	84	90	76-122	7	15	
Trichloroethene	**0.0444**	**0.0470**	0.0500	0.0500	89	94	78-120	6	15	
Toluene	**0.0459**	**0.0484**	0.0500	0.0500	92	97	83-120	5	15	
Chlorobenzene	**0.0442**	**0.0460**	0.0500	0.0500	88	92	81-120	4	15	
Surrogate:										
Dibromofluoromethane					*88*	*103*	*73-134*			
Toluene-d8					*96*	*105*	*81-124*			
4-Bromofluorobenzene					*89*	*97*	*80-131*			

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Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C9-NE-8.0-SW**					
Laboratory ID:	03-185-01					
Benzo[a]anthracene	**ND**	0.0096	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.0096	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*75*	*32 - 122*				
Pyrene-d10	*79*	*33 - 125*				
Terphenyl-d14	*80*	*36 - 118*				

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Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D9/E9-SW-8.0-SW**					
Laboratory ID:	03-185-02					
Benzo[a]anthracene	**ND**	0.0099	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.0099	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.0099	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.0099	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.0099	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0099	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.0099	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*70*	*32 - 122*				
Pyrene-d10	*71*	*33 - 125*				
Terphenyl-d14	*73*	*36 - 118*				

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Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C8-NE-10.0-B**					
Laboratory ID:	03-185-03					
Benzo[a]anthracene	**ND**	0.0089	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.0089	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.0089	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.0089	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.0089	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0089	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.0089	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*32 - 122*				
Pyrene-d10	*74*	*33 - 125*				
Terphenyl-d14	*71*	*36 - 118*				

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cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C9-NW-8.0-SW**					
Laboratory ID:	03-185-04					
Benzo[a]anthracene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*62*	*32 - 122*				
Pyrene-d10	*65*	*33 - 125*				
Terphenyl-d14	*62*	*36 - 118*				

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cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F9/E9-SW-11.0-B**					
Laboratory ID:	03-185-05					
Benzo[a]anthracene	**ND**	0.014	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.014	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.014	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.014	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.014	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.014	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.014	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*69*	*32 - 122*				
Pyrene-d10	*75*	*33 - 125*				
Terphenyl-d14	*75*	*36 - 118*				

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cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**F8/E8-SW-11.0-B**					
Laboratory ID:	03-185-06					
Benzo[a]anthracene	**ND**	0.013	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.013	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.013	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.013	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.013	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.013	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.013	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*60*	*32 - 122*				
Pyrene-d10	*61*	*33 - 125*				
Terphenyl-d14	*58*	*36 - 118*				

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cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C8-NW-9.0-SW**					
Laboratory ID:	03-185-07					
Benzo[a]anthracene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.0092	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*70*	*32 - 122*				
Pyrene-d10	*75*	*33 - 125*				
Terphenyl-d14	*73*	*36 - 118*				

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cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D8/E8-SW-11.0-B**					
Laboratory ID:	03-185-08					
Benzo[a]anthracene	**ND**	0.0098	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.0098	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.0098	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.0098	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.0098	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0098	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.0098	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*73*	*32 - 122*				
Pyrene-d10	*76*	*33 - 125*				
Terphenyl-d14	*72*	*36 - 118*				

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0321S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	3-21-17	3-21-17	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	3-21-17	3-21-17	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	3-21-17	3-21-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	3-21-17	3-21-17	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	3-21-17	3-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*32 - 122*				
Pyrene-d10	*92*	*33 - 125*				
Terphenyl-d14	*93*	*36 - 118*				

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

cPAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0321S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.0863**	**0.0843**	0.0833	0.0833	104	101	56 - 137	2	15	
Chrysene	**0.0805**	**0.0804**	0.0833	0.0833	97	97	59 - 122	0	15	
Benzo[b]fluoranthene	**0.0808**	**0.0819**	0.0833	0.0833	97	98	46 - 133	1	21	
Benzo(j,k)fluoranthene	**0.0832**	**0.0810**	0.0833	0.0833	100	97	47 - 129	3	21	
Benzo[a]pyrene	**0.0835**	**0.0833**	0.0833	0.0833	100	100	54 - 132	0	15	
Indeno(1,2,3-c,d)pyrene	**0.0818**	**0.0808**	0.0833	0.0833	98	97	54 - 129	1	15	
Dibenz[a,h]anthracene	**0.0817**	**0.0812**	0.0833	0.0833	98	97	59 - 122	1	15	
Surrogate:										
2-Fluorobiphenyl					*84*	*82*	*32 - 122*			
Pyrene-d10					*93*	*91*	*33 - 125*			
Terphenyl-d14					*91*	*89*	*36 - 118*			

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-185-01					
Client ID:	**C9-NE-8.0-SW**					
Arsenic	**ND**	14	6010C	3-22-17	3-22-17	
Cadmium	**ND**	0.72	6010C	3-22-17	3-22-17	
Chromium	**16**	0.72	6010C	3-22-17	3-22-17	
Lead	**ND**	7.2	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.36	7471B	3-21-17	3-21-17	
Lab ID:	03-185-02					
Client ID:	**D9/E9-SW-8.0-SW**					
Arsenic	**ND**	15	6010C	3-22-17	3-22-17	
Cadmium	**ND**	0.75	6010C	3-22-17	3-22-17	
Chromium	**20**	0.75	6010C	3-22-17	3-22-17	
Lead	**ND**	7.5	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.37	7471B	3-21-17	3-21-17	
Lab ID:	03-185-03					
Client ID:	**C8-NE-10.0-B**					
Arsenic	**ND**	13	6010C	3-22-17	3-22-17	
Cadmium	**ND**	0.67	6010C	3-22-17	3-22-17	
Chromium	**11**	0.67	6010C	3-22-17	3-22-17	
Lead	**ND**	6.7	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.33	7471B	3-21-17	3-21-17	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-185-04					
Client ID:	**C9-NW-8.0-SW**					
Arsenic	**ND**	14	6010C	3-22-17	3-22-17	
Cadmium	**ND**	0.69	6010C	3-22-17	3-22-17	
Chromium	**15**	0.69	6010C	3-22-17	3-22-17	
Lead	**ND**	6.9	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.35	7471B	3-21-17	3-21-17	
Lab ID:	03-185-05					
Client ID:	**F9/E9-SW-11.0-B**					
Arsenic	**14**	11	6010C	3-22-17	3-22-17	
Cadmium	**ND**	1.1	6010C	3-22-17	3-22-17	
Chromium	**23**	1.1	6010C	3-22-17	3-22-17	
Lead	**20**	11	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.53	7471B	3-21-17	3-21-17	
Lab ID:	03-185-06					
Client ID:	**F8/E8-SW-11.0-B**					
Arsenic	**12**	10	6010C	3-22-17	3-22-17	
Cadmium	**ND**	1.0	6010C	3-22-17	3-22-17	
Chromium	**22**	1.0	6010C	3-22-17	3-22-17	
Lead	**12**	10	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.51	7471B	3-21-17	3-21-17	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-185-07					
Client ID:	**C8-NW-9.0-SW**					
Arsenic	**ND**	14	6010C	3-22-17	3-22-17	
Cadmium	**ND**	0.69	6010C	3-22-17	3-22-17	
Chromium	**13**	0.69	6010C	3-22-17	3-22-17	
Lead	**ND**	6.9	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.34	7471B	3-21-17	3-21-17	
Lab ID:	03-185-08					
Client ID:	**D8/E8-SW-11.0-B**					
Arsenic	**ND**	15	6010C	3-22-17	3-22-17	
Cadmium	**ND**	0.73	6010C	3-22-17	3-22-17	
Chromium	**14**	0.73	6010C	3-22-17	3-22-17	
Lead	**ND**	7.3	6010C	3-22-17	3-22-17	
Mercury	**ND**	0.37	7471B	3-21-17	3-21-17	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted: 3-22-17
Date Analyzed: 3-22-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0322SM1

Analyte	Method	Result	PQL
Arsenic	6010C	**ND**	5.0
Cadmium	6010C	**ND**	0.50
Chromium	6010C	**ND**	0.50
Lead	6010C	**ND**	5.0

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL

Date Extracted:	3-21-17
Date Analyzed:	3-21-17
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0321S1

Analyte	Method	Result	PQL
Mercury	7471B	**ND**	0.25

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL METALS
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 3-22-17
Date Analyzed: 3-22-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-185-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	**ND**	**ND**	NA	5.0	
Cadmium	**ND**	**ND**	NA	0.50	
Chromium	**13.1**	**11.2**	16	0.50	
Lead	**ND**	**ND**	NA	5.0	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL

Date Extracted: 3-21-17
Date Analyzed: 3-21-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-150-12

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	**ND**	**ND**	NA	0.25	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL METALS
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 3-22-17
Date Analyzed: 3-22-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-185-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**94.8**	95	**93.8**	94	1	
Cadmium	50.0	**46.2**	92	**46.2**	92	0	
Chromium	100	**104**	91	**103**	90	0	
Lead	250	**222**	89	**222**	89	0	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL

Date Extracted: 3-21-17
Date Analyzed: 3-21-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-150-12

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	**0.538**	108	**0.537**	107	0	

Date of Report: March 22, 2017
Samples Submitted: March 21, 2017
Laboratory Reference: 1703-185
Project: 1071-010

% MOISTURE

Date Analyzed: 3-21-17

Client ID	Lab ID	% Moisture
C9-NE-8.0-SW	03-185-01	31
D9/E9-SW-8.0-SW	03-185-02	33
C8-NE-10.0-B	03-185-03	25
C9-NW-8.0-SW	03-185-04	28
F9/E9-SW-11.0-B	03-185-05	53
F8/E8-SW-11.0-B	03-185-06	51
C8-NW-9.0-SW	03-185-07	27
D8/E8-SW-11.0-B	03-185-08	32

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 03-185

Company: FARALLON
Project Number: 1071-010
Project Name: BOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Trull

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals 5	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	C9-NE-8.0-SW	3/20/17	1125	S	4						X		X						X			10
2	D9/E9-SW-8.0-SW		1130	S							X		X						X			
3	C8-NE-10.0-B		1135	S							X		X						X			
4	C9-NW-8.0-SW		1140	S							X		X						X			
5	F9/E9-SW-11.0-B		1155	S							X		X						X			
6	F8/E8-SW-11.0-B		1200	S							X		X						X			
7	C8-NW-9.0-SW		1430	S							X		X						X			
8	D8/E8-SW-11.0-B	↓	1440	S	↓						X		X						X			↓
									KS													

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Ken Trull	FARALLON	3/20/17	1700	
Received		CSC	3/21/17	0950	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 24, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1703-212

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on March 23, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

Case Narrative

Samples were collected on March 22, 2017 and received by the laboratory on March 23, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C7-NW-12.0-SW**					
Laboratory ID:	03-212-01					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C7-NW-12.0-SW**					
Laboratory ID:	03-212-01					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.0075	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*73-134*				
Toluene-d8	*108*	*81-124*				
4-Bromofluorobenzene	*94*	*80-131*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C7/D7-SE-14.0-B**					
Laboratory ID:	03-212-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	

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Laboratory Reference: 1703-212
Project: 1071-010

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C7/D7-SE-14.0-B**					
Laboratory ID:	03-212-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*73-134*				
Toluene-d8	*96*	*81-124*				
4-Bromofluorobenzene	*86*	*80-131*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D7/E7-SE-13.0-B**					
Laboratory ID:	03-212-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	

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Samples Submitted: March 23, 2017
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Project: 1071-010

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D7/E7-SE-13.0-B**					
Laboratory ID:	03-212-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*73-134*				
Toluene-d8	*110*	*81-124*				
4-Bromofluorobenzene	*95*	*80-131*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
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Project: 1071-010

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**E7-SE-12.0-SW**					
Laboratory ID:	03-212-04					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	

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Samples Submitted: March 23, 2017
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Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**E7-SE-12.0-SW**					
Laboratory ID:	03-212-04					
1,1,2-Trichloroethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.0084	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.0017	EPA 8260C	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*73-134*				
Toluene-d8	*94*	*81-124*				
4-Bromofluorobenzene	*87*	*80-131*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0323S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Chloromethane	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Bromomethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Chloroethane	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Iodomethane	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Chloroform	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0323S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Bromoform	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-23-17	3-23-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*73-134*				
Toluene-d8	*98*	*81-124*				
4-Bromofluorobenzene	*96*	*80-131*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0323S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0480**	**0.0501**	0.0500	0.0500	96	100	66-127	4	15	
Benzene	**0.0478**	**0.0494**	0.0500	0.0500	96	99	76-122	3	15	
Trichloroethene	**0.0476**	**0.0497**	0.0500	0.0500	95	99	78-120	4	15	
Toluene	**0.0499**	**0.0511**	0.0500	0.0500	100	102	83-120	2	15	
Chlorobenzene	**0.0445**	**0.0466**	0.0500	0.0500	89	93	81-120	5	15	
Surrogate:										
Dibromofluoromethane					*92*	*89*	*73-134*			
Toluene-d8					*100*	*94*	*81-124*			
4-Bromofluorobenzene					*93*	*88*	*80-131*			

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C7-NW-12.0-SW**					
Laboratory ID:	03-212-01					
Benzo[a]anthracene	**ND**	0.0091	EPA 8270D/SIM	3-23-17	3-23-17	
Chrysene	**ND**	0.0091	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[b]fluoranthene	**ND**	0.0091	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo(j,k)fluoranthene	**ND**	0.0091	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[a]pyrene	**ND**	0.0091	EPA 8270D/SIM	3-23-17	3-23-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0091	EPA 8270D/SIM	3-23-17	3-23-17	
Dibenz[a,h]anthracene	**ND**	0.0091	EPA 8270D/SIM	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*61*	*32 - 122*				
Pyrene-d10	*64*	*33 - 125*				
Terphenyl-d14	*65*	*36 - 118*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**C7/D7-SE-14.0-B**					
Laboratory ID:	03-212-02					
Benzo[a]anthracene	**ND**	0.0085	EPA 8270D/SIM	3-23-17	3-23-17	
Chrysene	**ND**	0.0085	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[b]fluoranthene	**ND**	0.0085	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo(j,k)fluoranthene	**ND**	0.0085	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[a]pyrene	**ND**	0.0085	EPA 8270D/SIM	3-23-17	3-23-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0085	EPA 8270D/SIM	3-23-17	3-23-17	
Dibenz[a,h]anthracene	**ND**	0.0085	EPA 8270D/SIM	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*66*	*32 - 122*				
Pyrene-d10	*70*	*33 - 125*				
Terphenyl-d14	*72*	*36 - 118*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**D7/E7-SE-13.0-B**					
Laboratory ID:	03-212-03					
Benzo[a]anthracene	**ND**	0.0089	EPA 8270D/SIM	3-23-17	3-23-17	
Chrysene	**ND**	0.0089	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[b]fluoranthene	**ND**	0.0089	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo(j,k)fluoranthene	**ND**	0.0089	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[a]pyrene	**ND**	0.0089	EPA 8270D/SIM	3-23-17	3-23-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0089	EPA 8270D/SIM	3-23-17	3-23-17	
Dibenz[a,h]anthracene	**ND**	0.0089	EPA 8270D/SIM	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*69*	*32 - 122*				
Pyrene-d10	*72*	*33 - 125*				
Terphenyl-d14	*74*	*36 - 118*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**E7-SE-12.0-SW**					
Laboratory ID:	03-212-04					
Benzo[a]anthracene	**ND**	0.0095	EPA 8270D/SIM	3-23-17	3-23-17	
Chrysene	**0.015**	0.0095	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[b]fluoranthene	**0.015**	0.0095	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270D/SIM	3-23-17	3-23-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270D/SIM	3-23-17	3-23-17	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270D/SIM	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*52*	*32 - 122*				
Pyrene-d10	*63*	*33 - 125*				
Terphenyl-d14	*72*	*36 - 118*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0323S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	3-23-17	3-23-17	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	3-23-17	3-23-17	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	3-23-17	3-23-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	3-23-17	3-23-17	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	3-23-17	3-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*94*	*32 - 122*				
Pyrene-d10	*96*	*33 - 125*				
Terphenyl-d14	*97*	*36 - 118*				

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-184-03										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0763**	**0.0812**	0.0833	0.0833	ND	92	97	30 - 143	6	31	
Chrysene	**0.0764**	**0.0806**	0.0833	0.0833	ND	92	97	32 - 129	5	33	
Benzo[b]fluoranthene	**0.0711**	**0.0771**	0.0833	0.0833	ND	85	93	23 - 140	8	29	
Benzo(j,k)fluoranthene	**0.0755**	**0.0789**	0.0833	0.0833	ND	91	95	32 - 119	4	30	
Benzo[a]pyrene	**0.0728**	**0.0770**	0.0833	0.0833	ND	87	92	31 - 131	6	32	
Indeno(1,2,3-c,d)pyrene	**0.0711**	**0.0750**	0.0833	0.0833	ND	85	90	31 - 130	5	28	
Dibenz[a,h]anthracene	**0.0728**	**0.0765**	0.0833	0.0833	ND	87	92	40 - 119	5	27	
Surrogate:											
2-Fluorobiphenyl						*90*	*99*	*32 - 122*			
Pyrene-d10						*82*	*92*	*33 - 125*			
Terphenyl-d14						*84*	*92*	*36 - 118*			

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-212-01					
Client ID:	**C7-NW-12.0-SW**					
Arsenic	**ND**	14	6010C	3-24-17	3-24-17	
Cadmium	**ND**	0.68	6010C	3-24-17	3-24-17	
Chromium	**17**	0.68	6010C	3-24-17	3-24-17	
Lead	**ND**	6.8	6010C	3-24-17	3-24-17	
Mercury	**ND**	0.34	7471B	3-24-17	3-24-17	
Lab ID:	03-212-02					
Client ID:	**C7/D7-SE-14.0-B**					
Arsenic	**ND**	13	6010C	3-24-17	3-24-17	
Cadmium	**ND**	0.64	6010C	3-24-17	3-24-17	
Chromium	**16**	0.64	6010C	3-24-17	3-24-17	
Lead	**ND**	6.4	6010C	3-24-17	3-24-17	
Mercury	**ND**	0.32	7471B	3-24-17	3-24-17	
Lab ID:	03-212-03					
Client ID:	**D7/E7-SE-13.0-B**					
Arsenic	**ND**	13	6010C	3-24-17	3-24-17	
Cadmium	**ND**	0.66	6010C	3-24-17	3-24-17	
Chromium	**18**	0.66	6010C	3-24-17	3-24-17	
Lead	**ND**	6.6	6010C	3-24-17	3-24-17	
Mercury	**ND**	0.33	7471B	3-24-17	3-24-17	

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-212-04					
Client ID:	**E7-SE-12.0-SW**					
Arsenic	**ND**	14	6010C	3-24-17	3-24-17	
Cadmium	**ND**	0.71	6010C	3-24-17	3-24-17	
Chromium	**17**	0.71	6010C	3-24-17	3-24-17	
Lead	**ND**	7.1	6010C	3-24-17	3-24-17	
Mercury	**ND**	0.36	7471B	3-24-17	3-24-17	

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B
METHOD BLANK QUALITY CONTROL

Date Extracted: 3-24-17
Date Analyzed: 3-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0324SM1&MB0324S1

Analyte	Method	Result	PQL
Arsenic	6010C	**ND**	10
Cadmium	6010C	**ND**	0.50
Chromium	6010C	**ND**	0.50
Lead	6010C	**ND**	5.0
Mercury	7471B	**ND**	0.25

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B
DUPLICATE QUALITY CONTROL

Date Extracted: 3-24-17
Date Analyzed: 3-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-212-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	**ND**	**ND**	NA	10	
Cadmium	**ND**	**ND**	NA	0.50	
Chromium	**12.8**	**13.4**	5	0.50	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B
MS/MSD QUALITY CONTROL

Date Extracted: 3-24-17
Date Analyzed: 3-24-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-212-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**92.2**	92	**95.5**	96	4	
Cadmium	50.0	**46.1**	92	**46.0**	92	0	
Chromium	100	**105**	93	**106**	93	0	
Lead	250	**226**	90	**226**	91	0	
Mercury	0.500	**0.567**	113	**0.560**	112	1	

Date of Report: March 24, 2017
Samples Submitted: March 23, 2017
Laboratory Reference: 1703-212
Project: 1071-010

% MOISTURE

Date Analyzed: 3-23-17

Client ID	Lab ID	% Moisture
C7-NW-12.0-SW	03-212-01	27
C7/D7-SE-14.0-B	03-212-02	22
D7/E7-SE-13.0-B	03-212-03	25
E7-SE-12.0-SW	03-212-04	30

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 03-212

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Smith

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	C7-NW-12.0-SW	3/22/17	1350	S	4						X			X						X							
2	C7/D7-SE-14.0-B		1400	S	4						X			X						X							
3	D7/E7-SE-13.0-B		1405	S	4						X			X						X							
4	E7-SE-12.0-SW		1445	S	4						X			X						X							

	Signature	Company	Date	Time
Relinquished	Ken Smith	FARALLON	1730	
Received	RZM	a/pm	9:10	
Relinquished	RZM	a/pm	10:05	
Received		OSE	3/23/17	1005
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 27, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1703-230

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on March 24, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

Case Narrative

Samples were collected on March 23, 2017 and received by the laboratory on March 24, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

HEM-Oil and Grease EPA 1664A Analysis

Samples with IDs BT-1st-032317, BT-2nd-032317 and BT-3rd-032317 were composited in the lab prior to extraction. The initial volume was brought to 1000mL with deionized water.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP1-N-032317**					
Laboratory ID:	03-230-05					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chloroform	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP1-N-032317**					
Laboratory ID:	03-230-05					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*73-134*				
Toluene-d8	*96*	*81-124*				
4-Bromofluorobenzene	*87*	*80-131*				

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP1-C-032317**					
Laboratory ID:	03-230-06					
Dichlorodifluoromethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	0.010	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	0.010	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	0.010	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	0.010	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Chloroform	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP1-C-032317**					
Laboratory ID:	03-230-06					
1,1,2-Trichloroethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	0.010	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	0.010	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.010	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.0021	EPA 8260C	3-24-17	3-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*73-134*				
Toluene-d8	*111*	*81-124*				
4-Bromofluorobenzene	*102*	*80-131*				

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP1-S-032317**					
Laboratory ID:	03-230-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Chloroform	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	

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Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP1-S-032317**					
Laboratory ID:	03-230-07					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	3-24-17	3-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*73-134*				
Toluene-d8	*105*	*81-124*				
4-Bromofluorobenzene	*95*	*80-131*				

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP2-C-032317**					
Laboratory ID:	03-230-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chloroform	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SP2-C-032317**					
Laboratory ID:	03-230-08					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.0065	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	3-24-17	3-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*73-134*				
Toluene-d8	*115*	*81-124*				
4-Bromofluorobenzene	*106*	*80-131*				

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0324S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Chloromethane	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Bromomethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Chloroethane	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Iodomethane	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Chloroform	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0324S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Bromoform	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-24-17	3-24-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-24-17	3-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*73-134*				
Toluene-d8	*104*	*81-124*				
4-Bromofluorobenzene	*93*	*80-131*				

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result				Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0324S1									
	SB	SBD	SBD	SBD	SB	SBD				
1,1-Dichloroethene	**0.0553**	**0.0566**	0.0500	0.0500	111	113	66-127	2	15	
Benzene	**0.0547**	**0.0568**	0.0500	0.0500	109	114	76-122	4	15	
Trichloroethene	**0.0537**	**0.0548**	0.0500	0.0500	107	110	78-120	2	15	
Toluene	**0.0553**	**0.0591**	0.0500	0.0500	111	118	83-120	7	15	
Chlorobenzene	**0.0488**	**0.0518**	0.0500	0.0500	98	104	81-120	6	15	
Surrogate:										
Dibromofluoromethane					*105*	*100*	*73-134*			
Toluene-d8					*106*	*108*	*81-124*			
4-Bromofluorobenzene					*100*	*101*	*80-131*			

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HEXANE EXTRACTABLE MATERIAL
OIL AND GREASE
EPA 1664A

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**BT-1st,2nd,3rd-032317 Comp.**					
Laboratory ID:	03-230-01,02,03 Comp.					
Hexane Extractable Material	**ND**	7.0	EPA 1664A	3-24-17	3-27-17	

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

HEXANE EXTRACTABLE MATERIAL
OIL AND GREASE
EPA 1664A
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Hexane Extractable Material	**ND**	5.0	EPA 1664A	3-24-17	3-27-17	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0324W1									
	SB	SBD	SB	SBD	SB	SBD				
HEM	34.7	34.2	40.0	40.0	87	86	81-109	1	11	

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

BTEX
EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**BT-032317**					
Laboratory ID:	03-230-04					
Benzene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
Toluene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
Ethyl Benzene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
m,p-Xylene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
o-Xylene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*61-118*				

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

BTEX
EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Benzene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
Toluene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
Ethyl Benzene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
m,p-Xylene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
o-Xylene	**ND**	1.0	EPA 8021B	3-24-17	3-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*61-118*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	03-213-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*86*	*91*	*61-118*			
MATRIX SPIKES											
Laboratory ID:	03-213-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**50.8**	**53.2**	50.0	50.0	ND	**102**	**106**	80-120	5	13	
Toluene	**51.9**	**54.0**	50.0	50.0	ND	**104**	**108**	81-115	4	14	
Ethyl Benzene	**52.8**	**55.3**	50.0	50.0	ND	**106**	**111**	81-114	5	12	
m,p-Xylene	**52.7**	**54.8**	50.0	50.0	ND	**105**	**110**	81-114	4	13	
o-Xylene	**52.7**	**54.4**	50.0	50.0	ND	**105**	**109**	81-113	3	11	
Surrogate:											
Fluorobenzene						*105*	*106*	*61-118*			

Date of Report: March 27, 2017
Samples Submitted: March 24, 2017
Laboratory Reference: 1703-230
Project: 1071-010

% MOISTURE

Date Analyzed: 3-24-17

Client ID	Lab ID	% Moisture
SP1-N-032317	03-230-05	9
SP1-C-032317	03-230-06	5
SP1-S-032317	03-230-07	9
SP2-C-032317	03-230-08	8

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: 03-230

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER project
Project Manager: DON LANCE
Sampled by: Ken Scott

Turnaround Request (in working days)
(Check One) ~~Water~~ Soil

- [ ] ~~Same Day~~ DB
- [x] 1 Day (Water / Soil)
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days) (TPH analysis 5 Days)
- [ ] ______ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Non polar FOG	BTEX 8021			% Moisture
1	BT-1st-032317	3/23/17	1205	W	2																		X	composite			
2	BT-2Nd-032317		1210	W	2																		X	composite			
3	BT-3rd-032317		1215	W	2																		X	composite			
4	BT-032317		1220	W	4																			X			
5	SP1-N-032317		1325	S	4						X																X
6	SP1-C-032317		1330	S	4						X																↓
7	SP1-S-032317		1335	S	4						X																↓
8	SP2-C-032317		1345	S	4						X																↓

	Signature	Company	Date	Time
Relinquished	Ken Scott	FARALLON	3/23/17	1730
Received	[signature]	OSE	3/24/17	1200
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 29, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1703-272

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on March 28, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

Case Narrative

Samples were collected on March 27, 2017 and received by the laboratory on March 28, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**J9-NE-9.0-B**					
Laboratory ID:	03-272-01					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Chloromethane	ND	0.0087	EPA 8260C	3-28-17	3-28-17	
Vinyl Chloride	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Bromomethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Chloroethane	ND	0.0087	EPA 8260C	3-28-17	3-28-17	
Trichlorofluoromethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloroethene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Iodomethane	ND	0.012	EPA 8260C	3-28-17	3-28-17	
Methylene Chloride	ND	0.0087	EPA 8260C	3-28-17	3-28-17	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloroethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
2,2-Dichloropropane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
(cis) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Bromochloromethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Chloroform	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,1,1-Trichloroethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Carbon Tetrachloride	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloropropene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Trichloroethene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Dibromomethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Bromodichloromethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
2-Chloroethyl Vinyl Ether	ND	0.0087	EPA 8260C	3-28-17	3-28-17	
(cis) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
(trans) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**J9-NE-9.0-B**					
Laboratory ID:	03-272-01					
1,1,2-Trichloroethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Tetrachloroethene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,3-Dichloropropane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Dibromochloromethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Chlorobenzene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Bromoform	ND	0.0087	EPA 8260C	3-28-17	3-28-17	
Bromobenzene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,1,2,2-Tetrachloroethane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
2-Chlorotoluene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
4-Chlorotoluene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,3-Dichlorobenzene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,4-Dichlorobenzene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,2-Dichlorobenzene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
1,2-Dibromo-3-chloropropane	ND	0.0087	EPA 8260C	3-28-17	3-28-17	
1,2,4-Trichlorobenzene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Hexachlorobutadiene	ND	0.0087	EPA 8260C	3-28-17	3-28-17	
1,2,3-Trichlorobenzene	ND	0.0017	EPA 8260C	3-28-17	3-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*73-134*				
Toluene-d8	*113*	*81-124*				
4-Bromofluorobenzene	*107*	*80-131*				

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**K9-NE-10.0-B**					
Laboratory ID:	03-272-02					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Chloromethane	ND	0.0077	EPA 8260C	3-28-17	3-28-17	
Vinyl Chloride	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Bromomethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Chloroethane	ND	0.0077	EPA 8260C	3-28-17	3-28-17	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Iodomethane	ND	0.010	EPA 8260C	3-28-17	3-28-17	
Methylene Chloride	ND	0.0077	EPA 8260C	3-28-17	3-28-17	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Bromochloromethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Chloroform	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Trichloroethene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Dibromomethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Bromodichloromethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	3-28-17	3-28-17	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**K9-NE-10.0-B**					
Laboratory ID:	03-272-02					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Tetrachloroethene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Dibromochloromethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Chlorobenzene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Bromoform	ND	0.0077	EPA 8260C	3-28-17	3-28-17	
Bromobenzene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
2-Chlorotoluene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
4-Chlorotoluene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
1,2-Dibromo-3-chloropropane	ND	0.0077	EPA 8260C	3-28-17	3-28-17	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Hexachlorobutadiene	ND	0.0077	EPA 8260C	3-28-17	3-28-17	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	3-28-17	3-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*73-134*				
Toluene-d8	*109*	*81-124*				
4-Bromofluorobenzene	*107*	*80-131*				

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0328S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Chloromethane	ND	0.0050	EPA 8260C	3-28-17	3-28-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Bromomethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Chloroethane	ND	0.0050	EPA 8260C	3-28-17	3-28-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Iodomethane	ND	0.0067	EPA 8260C	3-28-17	3-28-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-28-17	3-28-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Chloroform	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-28-17	3-28-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0328S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Bromoform	ND	0.0050	EPA 8260C	3-28-17	3-28-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-28-17	3-28-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-28-17	3-28-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-28-17	3-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*73-134*				
Toluene-d8	*111*	*81-124*				
4-Bromofluorobenzene	*114*	*80-131*				

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0328S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0546**	**0.0533**	0.0500	0.0500	109	107	66-127	2	15	
Benzene	**0.0554**	**0.0563**	0.0500	0.0500	111	113	76-122	2	15	
Trichloroethene	**0.0576**	**0.0559**	0.0500	0.0500	115	112	78-120	3	15	
Toluene	**0.0585**	**0.0583**	0.0500	0.0500	117	117	83-120	0	15	
Chlorobenzene	**0.0533**	**0.0526**	0.0500	0.0500	107	105	81-120	1	15	
Surrogate:										
Dibromofluoromethane					*94*	*98*	*73-134*			
Toluene-d8					*102*	*102*	*81-124*			
4-Bromofluorobenzene					*100*	*102*	*80-131*			

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**J9-NE-9.0-B**					
Laboratory ID:	03-272-01					
Benzo[a]anthracene	**ND**	0.0099	EPA 8270D/SIM	3-28-17	3-29-17	
Chrysene	**ND**	0.0099	EPA 8270D/SIM	3-28-17	3-29-17	
Benzo[b]fluoranthene	**ND**	0.0099	EPA 8270D/SIM	3-28-17	3-29-17	
Benzo(j,k)fluoranthene	**ND**	0.0099	EPA 8270D/SIM	3-28-17	3-29-17	
Benzo[a]pyrene	**ND**	0.0099	EPA 8270D/SIM	3-28-17	3-29-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0099	EPA 8270D/SIM	3-28-17	3-29-17	
Dibenz[a,h]anthracene	**ND**	0.0099	EPA 8270D/SIM	3-28-17	3-29-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*58*	*32 - 122*				
Pyrene-d10	*60*	*33 - 125*				
Terphenyl-d14	*61*	*36 - 118*				

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

cPAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**K9-NE-10.0-B**					
Laboratory ID:	03-272-02					
Benzo[a]anthracene	**ND**	0.0097	EPA 8270D/SIM	3-28-17	3-29-17	
Chrysene	**ND**	0.0097	EPA 8270D/SIM	3-28-17	3-29-17	
Benzo[b]fluoranthene	**ND**	0.0097	EPA 8270D/SIM	3-28-17	3-29-17	
Benzo(j,k)fluoranthene	**ND**	0.0097	EPA 8270D/SIM	3-28-17	3-29-17	
Benzo[a]pyrene	**ND**	0.0097	EPA 8270D/SIM	3-28-17	3-29-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0097	EPA 8270D/SIM	3-28-17	3-29-17	
Dibenz[a,h]anthracene	**ND**	0.0097	EPA 8270D/SIM	3-28-17	3-29-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*60*	*32 - 122*				
Pyrene-d10	*60*	*33 - 125*				
Terphenyl-d14	*61*	*36 - 118*				

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

cPAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0328S1					
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	3-28-17	3-28-17	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	3-28-17	3-28-17	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	3-28-17	3-28-17	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	3-28-17	3-28-17	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	3-28-17	3-28-17	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	3-28-17	3-28-17	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	3-28-17	3-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*32 - 122*				
Pyrene-d10	*90*	*33 - 125*				
Terphenyl-d14	*90*	*36 - 118*				

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

cPAHs EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-218-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	**0.0704**	**0.0695**	0.0833	0.0833	ND	85	83	30 - 143	1	31	
Chrysene	**0.0712**	**0.0675**	0.0833	0.0833	ND	85	81	32 - 129	5	33	
Benzo[b]fluoranthene	**0.0677**	**0.0667**	0.0833	0.0833	ND	81	80	23 - 140	1	29	
Benzo(j,k)fluoranthene	**0.0674**	**0.0636**	0.0833	0.0833	ND	81	76	32 - 119	6	30	
Benzo[a]pyrene	**0.0657**	**0.0628**	0.0833	0.0833	ND	79	75	31 - 131	5	32	
Indeno(1,2,3-c,d)pyrene	**0.0646**	**0.0628**	0.0833	0.0833	ND	78	75	31 - 130	3	28	
Dibenz[a,h]anthracene	**0.0651**	**0.0629**	0.0833	0.0833	ND	78	76	40 - 119	3	27	
Surrogate:											
2-Fluorobiphenyl						*70*	*67*	*32 - 122*			
Pyrene-d10						*76*	*73*	*33 - 125*			
Terphenyl-d14						*76*	*73*	*36 - 118*			

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

TOTAL METALS
EPA 6010C/7471B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-272-01					
Client ID:	**J9-NE-9.0-B**					
Arsenic	**ND**	15	6010C	2-1-29	2-1-29	
Cadmium	**ND**	0.75	6010C	2-1-29	2-1-29	
Chromium	**21**	0.75	6010C	2-1-29	2-1-29	
Lead	**ND**	7.5	6010C	2-1-29	2-1-29	
Mercury	**ND**	0.37	7471B	2-1-29	2-1-29	
Lab ID:	03-272-02					
Client ID:	**K9-NE-10.0-B**					
Arsenic	**ND**	14	6010C	2-1-29	2-1-29	
Cadmium	**ND**	0.72	6010C	2-1-29	2-1-29	
Chromium	**22**	0.72	6010C	2-1-29	2-1-29	
Lead	**ND**	7.2	6010C	2-1-29	2-1-29	
Mercury	**ND**	0.36	7471B	2-1-29	2-1-29	

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-1-29
Date Analyzed: 2-1-29

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0329SM1&MB0329S1

Analyte	Method	Result	PQL
Arsenic	6010C	**ND**	10
Cadmium	6010C	**ND**	0.50
Chromium	6010C	**ND**	0.50
Lead	6010C	**ND**	5.0
Mercury	7471B	**ND**	0.25

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

TOTAL METALS
EPA 6010C
DUPLICATE QUALITY CONTROL

Date Extracted: 2-1-29
Date Analyzed: 2-1-29

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-272-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	**ND**	**ND**	NA	10	
Cadmium	**ND**	**ND**	NA	0.50	
Chromium	**14.2**	**14.5**	2	0.50	
Lead	**ND**	**ND**	NA	5.0	
Mercury	**ND**	**ND**	NA	0.25	

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

TOTAL METALS
EPA 6010C
MS/MSD QUALITY CONTROL

Date Extracted: 2-1-29
Date Analyzed: 2-1-29

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-272-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**94.4**	94	**94.6**	95	0	
Cadmium	50.0	**47.8**	96	**47.8**	96	0	
Chromium	100	**108**	94	**108**	94	0	
Lead	250	**229**	92	**232**	93	1	
Mercury	0.500	**0.517**	103	**0.518**	104	0	

Date of Report: March 29, 2017
Samples Submitted: March 28, 2017
Laboratory Reference: 1703-272
Project: 1071-010

% MOISTURE

Date Analyzed: 3-28-17

Client ID	Lab ID	% Moisture
J9-NE-9.0-B	03-272-01	33
K9-NE-10.0-B	03-272-02	31

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Smith

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 03-272

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals 5	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	J9-NE-9.0-B	3/27/17	1305	S	6						X			X						X							10
2	K9-NE-10.0-B	↓	1400	S	6						X			X						X							12
							X	X																			

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Ken Smith	FARALLON	3/27/17	1630	
Received		CORE	3/28/17	1355	
Relinquished					
Received					
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

April and May 2017 – Excavation 5, Laboratory Reports

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 17, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1704-132

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on April 13, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

Case Narrative

Samples were collected on April 13, 2017 and received by the laboratory on April 13, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Some MTCA Method A cleanup levels are non-achievable for sample GRAB-041317 due to the necessary dilution of the sample.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

NWTPH-HCID

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GRAB-041317**					
Laboratory ID:	04-132-01					
Gasoline Range Organics	**Detected**	220	NWTPH-HCID	4-14-17	4-14-17	
Diesel Fuel #2	**Detected**	550	NWTPH-HCID	4-14-17	4-14-17	
Lube Oil	**Detected**	1100	NWTPH-HCID	4-14-17	4-14-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

NWTPH-HCID
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0414S2					
Gasoline Range Organics	**ND**	20	NWTPH-HCID	4-14-17	4-17-17	
Diesel Range Organics	**ND**	50	NWTPH-HCID	4-14-17	4-17-17	
Lube Oil Range Organics	**ND**	100	NWTPH-HCID	4-14-17	4-17-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GRAB-041317**					
Laboratory ID:	04-132-01					
Dichlorodifluoromethane	ND	0.085	EPA 8260C	4-14-17	4-14-17	
Chloromethane	ND	0.24	EPA 8260C	4-14-17	4-14-17	
Vinyl Chloride	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Bromomethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Chloroethane	ND	0.24	EPA 8260C	4-14-17	4-14-17	
Trichlorofluoromethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Iodomethane	ND	0.24	EPA 8260C	4-14-17	4-14-17	
Methylene Chloride	ND	0.35	EPA 8260C	4-14-17	4-14-17	
(trans) 1,2-Dichloroethene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
2,2-Dichloropropane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
(cis) 1,2-Dichloroethene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Bromochloromethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Chloroform	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,1,1-Trichloroethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Carbon Tetrachloride	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloropropene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Benzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloroethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Trichloroethene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloropropane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Dibromomethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Bromodichloromethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
2-Chloroethyl Vinyl Ether	ND	0.24	EPA 8260C	4-14-17	4-14-17	
(cis) 1,3-Dichloropropene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Toluene	ND	0.24	EPA 8260C	4-14-17	4-14-17	
(trans) 1,3-Dichloropropene	ND	0.047	EPA 8260C	4-14-17	4-14-17	

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GRAB-041317**					
Laboratory ID:	04-132-01					
1,1,2-Trichloroethane	ND	0.062	EPA 8260C	4-14-17	4-14-17	
Tetrachloroethene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,3-Dichloropropane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Dibromochloromethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromoethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Chlorobenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,1,1,2-Tetrachloroethane	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Ethylbenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
m,p-Xylene	ND	0.095	EPA 8260C	4-14-17	4-14-17	
o-Xylene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Bromoform	ND	0.24	EPA 8260C	4-14-17	4-14-17	
Bromobenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,1,2,2-Tetrachloroethane	ND	0.062	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichloropropane	ND	0.062	EPA 8260C	4-14-17	4-14-17	
2-Chlorotoluene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
4-Chlorotoluene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,3-Dichlorobenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,4-Dichlorobenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,2-Dichlorobenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromo-3-chloropropane	ND	0.32	EPA 8260C	4-14-17	4-14-17	
1,2,4-Trichlorobenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Hexachlorobutadiene	ND	0.24	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichlorobenzene	ND	0.047	EPA 8260C	4-14-17	4-14-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*73-134*				
Toluene-d8	*96*	*81-124*				
4-Bromofluorobenzene	*111*	*80-131*				

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0414S1					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	4-14-17	4-14-17	
Chloromethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromomethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Chloroethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Iodomethane	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Methylene Chloride	ND	0.0073	EPA 8260C	4-14-17	4-14-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromochloromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Chloroform	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Benzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Trichloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Dibromomethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Toluene	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0414S1					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Chlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Ethylbenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
m,p-Xylene	ND	0.0020	EPA 8260C	4-14-17	4-14-17	
o-Xylene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Bromoform	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
Bromobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	4-14-17	4-14-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	4-14-17	4-14-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	4-14-17	4-14-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	4-14-17	4-14-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*73-134*				
Toluene-d8	*104*	*81-124*				
4-Bromofluorobenzene	*118*	*80-131*				

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0414S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0470**	**0.0536**	0.0500	0.0500	94	107	66-127	13	15	
Benzene	**0.0470**	**0.0499**	0.0500	0.0500	94	100	76-122	6	15	
Trichloroethene	**0.0502**	**0.0521**	0.0500	0.0500	100	104	78-120	4	15	
Toluene	**0.0475**	**0.0506**	0.0500	0.0500	95	101	83-120	6	15	
Chlorobenzene	**0.0444**	**0.0477**	0.0500	0.0500	89	95	81-120	7	15	
Surrogate:										
Dibromofluoromethane					*87*	*91*	*73-134*			
Toluene-d8					*92*	*99*	*81-124*			
4-Bromofluorobenzene					*103*	*112*	*80-131*			

Date of Report: April 17, 2017
Samples Submitted: April 13, 2017
Laboratory Reference: 1704-132
Project: 1071-010

% MOISTURE

Date Analyzed: 4-13-17

Client ID	Lab ID	% Moisture
GRAB-041317	04-132-01	9

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 1071-010
Project Name: Sounder Project
Project Manager: Dan Lance
Sampled by: Ryan Ostrom

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 04-132

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID *	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C +BTEX	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	GRAB-041317	4/13/17	1300	S	5	X					X																X

	Signature	Company	Date	Time
Relinquished	Ryan Ostrom	Farallon	4/13/17	1405
Received		ONE	4/13/17	1405
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* provide estimated quantitation.

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 24, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1704-205

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on April 21, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

Case Narrative

Samples were collected on April 20, 2017 and received by the laboratory on April 21, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N-SW-8.0**					
Laboratory ID:	04-205-01					
Gasoline	**ND**	6.0	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*63-124*				
Client ID:	**NE-SW-8.0**					
Laboratory ID:	04-205-02					
Gasoline	**ND**	5.1	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*79*	*63-124*				
Client ID:	**E-SW-8.0**					
Laboratory ID:	04-205-03					
Gasoline	**ND**	5.1	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*82*	*63-124*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421S1					
Gasoline	**ND**	5.0	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*78*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-208-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*82*	*82*	*63-124*			

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N-SW-8.0**					
Laboratory ID:	04-205-01					
Benzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0052	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0021	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*73-134*				
Toluene-d8	*115*	*81-124*				
4-Bromofluorobenzene	*93*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NE-SW-8.0**					
Laboratory ID:	04-205-02					
Benzene	ND	0.00087	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0044	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.00087	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0017	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.00087	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*73-134*				
Toluene-d8	*106*	*81-124*				
4-Bromofluorobenzene	*91*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**E-SW-8.0**					
Laboratory ID:	04-205-03					
Benzene	ND	0.00092	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0046	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.00092	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0018	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.00092	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*73-134*				
Toluene-d8	*118*	*81-124*				
4-Bromofluorobenzene	*96*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

BTEX
EPA 8260C
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0421S1					
Benzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0020	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*123*	*73-134*				
Toluene-d8	*123*	*81-124*				
4-Bromofluorobenzene	*103*	*80-131*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0421S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0552**	**0.0564**	0.0500	0.0500	110	113	66-127	2	15	
Benzene	**0.0542**	**0.0538**	0.0500	0.0500	108	108	76-122	1	15	
Trichloroethene	**0.0500**	**0.0535**	0.0500	0.0500	100	107	78-120	7	15	
Toluene	**0.0504**	**0.0546**	0.0500	0.0500	101	109	83-120	8	15	
Chlorobenzene	**0.0437**	**0.0478**	0.0500	0.0500	87	96	81-120	9	15	
Surrogate:										
Dibromofluoromethane					*130*	*124*	*73-134*			
Toluene-d8					*114*	*119*	*81-124*			
4-Bromofluorobenzene					*86*	*87*	*80-131*			

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N-SW-8.0**					
Laboratory ID:	04-205-01					
Diesel Range Organics	**ND**	29	NWTPH-Dx	4-21-17	4-21-17	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**NE-SW-8.0**					
Laboratory ID:	04-205-02					
Diesel Range Organics	**ND**	28	NWTPH-Dx	4-21-17	4-21-17	
Lube Oil Range Organics	**130**	56	NWTPH-Dx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**E-SW-8.0**					
Laboratory ID:	04-205-03					
Diesel Range Organics	**ND**	27	NWTPH-Dx	4-21-17	4-21-17	
Lube Oil Range Organics	**ND**	53	NWTPH-Dx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	4-21-17	4-21-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	04-204-02									
	ORIG	DUP								
Diesel Fuel #2	**102**	**70.6**	NA	NA		NA	NA	36	NA	X1
Lube Oil	**501**	**503**	NA	NA		NA	NA	0	NA	X1
Surrogate:										
o-Terphenyl						*109* *84*	*50-150*			

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-205
Project: 1071-010

% MOISTURE

Date Analyzed: 4-21-17

Client ID	Lab ID	% Moisture
N-SW-8.0	04-205-01	14
NE-SW-8.0	04-205-02	11
E-SW-8.0	04-205-03	6

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1071-010
Project Name: Sounder Project
Project Manager: Don Lance
Sampled by: Ryan Ostrom

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 04-205

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX *	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	N-SW-8.0	4/20/17	1017	S	5		X		X														X
2	NE-SW-8.0	↓	1018	↓	↓		X		X														
3	E-SW-8.0	↓	1019	↓	↓		X		X														

RO

	Signature	Company	Date	Time
Relinquished	Ryan Ostrom	Farallon	4/20/17	1600
Received	[illegible]	alpha	4/21/17	10:15
Relinquished	[illegible]	alpha	4/21/17	11:50
Received	[illegible]	COSC	4/21/17	1150
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

*BTEX by Method 8260.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 24, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1704-210

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on April 21, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

Case Narrative

Samples were collected on April 21, 2017 and received by the laboratory on April 21, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N1-SW-042117-8.0**					
Laboratory ID:	04-210-01					
Gasoline	**ND**	8.1	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*63-124*				
Client ID:	**N2-SW-042117-8.0**					
Laboratory ID:	04-210-02					
Gasoline	**ND**	9.7	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*63-124*				
Client ID:	**NW-SW-042117-8.0**					
Laboratory ID:	04-210-03					
Gasoline	**ND**	9.4	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*82*	*63-124*				
Client ID:	**W1-SW-042117-9.0**					
Laboratory ID:	04-210-04					
Gasoline	**ND**	7.3	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*63-124*				
Client ID:	**SE-SW-042117-8.0**					
Laboratory ID:	04-210-05					
Gasoline	**ND**	5.9	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*63-124*				
Client ID:	**W2-SW-042117-9.0**					
Laboratory ID:	04-210-06					
Gasoline	**ND**	6.3	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*79*	*63-124*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421S2					
Gasoline	**ND**	5.0	NWTPH-Gx	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*80*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-205-02										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*79*	*80*	*63-124*			

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N1-SW-042117-8.0**					
Laboratory ID:	04-210-01					
Diesel Range Organics	**ND**	33	NWTPH-Dx	4-23-17	4-23-17	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	4-23-17	4-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**N2-SW-042117-8.0**					
Laboratory ID:	04-210-02					
Diesel Range Organics	**ND**	36	NWTPH-Dx	4-23-17	4-23-17	
Lube Oil Range Organics	**ND**	72	NWTPH-Dx	4-23-17	4-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**NW-SW-042117-8.0**					
Laboratory ID:	04-210-03					
Diesel Range Organics	**ND**	37	NWTPH-Dx	4-23-17	4-23-17	
Lube Oil Range Organics	**100**	74	NWTPH-Dx	4-23-17	4-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**W1-SW-042117-9.0**					
Laboratory ID:	04-210-04					
Diesel Range Organics	**ND**	33	NWTPH-Dx	4-23-17	4-23-17	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	4-23-17	4-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**SE-SW-042117-8.0**					
Laboratory ID:	04-210-05					
Diesel Range Organics	**ND**	29	NWTPH-Dx	4-23-17	4-23-17	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	4-23-17	4-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**W2-SW-042117-9.0**					
Laboratory ID:	04-210-06					
Diesel Range Organics	**1700**	320	NWTPH-Dx	4-23-17	4-24-17	
Lube Oil Range Organics	**2800**	640	NWTPH-Dx	4-23-17	4-24-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*---*	*50-150*				S

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0423S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	4-23-17	4-23-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	4-23-17	4-23-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-210-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*96*	*89*	*50-150*			

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N1-SW-042117-8.0**					
Laboratory ID:	04-210-01					
Benzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0066	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0026	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*73-134*				
Toluene-d8	*105*	*81-124*				
4-Bromofluorobenzene	*114*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N2-SW-042117-8.0**					
Laboratory ID:	04-210-02					
Benzene	ND	0.0018	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0089	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0018	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0036	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0018	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*73-134*				
Toluene-d8	*106*	*81-124*				
4-Bromofluorobenzene	*108*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NW-SW-042117-8.0**					
Laboratory ID:	04-210-03					
Benzene	ND	0.0018	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0092	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0018	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0037	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0018	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*73-134*				
Toluene-d8	*105*	*81-124*				
4-Bromofluorobenzene	*107*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**W1-SW-042117-9.0**					
Laboratory ID:	04-210-04					
Benzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0064	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0025	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0013	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*73-134*				
Toluene-d8	*104*	*81-124*				
4-Bromofluorobenzene	*111*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SE-SW-042117-8.0**					
Laboratory ID:	04-210-05					
Benzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0059	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0024	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*73-134*				
Toluene-d8	*108*	*81-124*				
4-Bromofluorobenzene	*108*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**W2-SW-042117-9.0**					
Laboratory ID:	04-210-06					
Benzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0058	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0023	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0012	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*73-134*				
Toluene-d8	*108*	*81-124*				
4-Bromofluorobenzene	*109*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0421S2					
Benzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Toluene	ND	0.0050	EPA 8260C	4-21-17	4-21-17	
Ethylbenzene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
m,p-Xylene	ND	0.0020	EPA 8260C	4-21-17	4-21-17	
o-Xylene	ND	0.0010	EPA 8260C	4-21-17	4-21-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*73-134*				
Toluene-d8	*112*	*81-124*				
4-Bromofluorobenzene	*116*	*80-131*				

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

BTEX
EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0421S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0491**	**0.0486**	0.0500	0.0500	98	97	66-127	1	15	
Benzene	**0.0505**	**0.0499**	0.0500	0.0500	101	100	76-122	1	15	
Trichloroethene	**0.0532**	**0.0510**	0.0500	0.0500	106	102	78-120	4	15	
Toluene	**0.0537**	**0.0523**	0.0500	0.0500	107	105	83-120	3	15	
Chlorobenzene	**0.0542**	**0.0507**	0.0500	0.0500	108	101	81-120	7	15	
Surrogate:										
Dibromofluoromethane					*94*	*94*	*73-134*			
Toluene-d8					*98*	*100*	*81-124*			
4-Bromofluorobenzene					*105*	*102*	*80-131*			

Date of Report: April 24, 2017
Samples Submitted: April 21, 2017
Laboratory Reference: 1704-210
Project: 1071-010

% MOISTURE

Date Analyzed: 4-21-17

Client ID	Lab ID	% Moisture
N1-SW-042117-8.0	04-210-01	24
N2-SW-042117-8.0	04-210-02	31
NW-SW-042117-8.0	04-210-03	32
W1-SW-042117-9.0	04-210-04	24
SE-SW-042117-8.0	04-210-05	14
W2-SW-042117-9.0	04-210-06	22

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 1071-010
Project Name: 6050 E. Marginal Way
Project Manager: Don Lance
Sampled by: Russell Luiten

Turnaround Request (in working days)

(Check One)

☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 04-210

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	N1-SW-042117-8.0	4/21	758	S	5
2	N2-SW-042117-8.0		900		
3	NW-SW-042117-8.0		942		
4	W1-SW-042117-9.0		1035		
5	DE-SW-042117-8.0		1101		
6	W2-SW-042117-9.0		1125		

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C DELETE	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1		X		X														
2		X		X														
3		X		X														
4		X		X														
5		X		X														
6		X		X														

	Signature	Company	Date	Time
Relinquished			4/21/17	1414
Received			4/21/17	2145
Relinquished			4/21/17	1525
Received			4/21/17	1525
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 1, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1704-280

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on April 28, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

Case Narrative

Samples were collected on April 28, 2017 and received by the laboratory on April 28, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B5-042817-12.0**					
Laboratory ID:	04-280-01					
Gasoline	**ND**	8.1	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*63-124*				
Client ID:	**B6-042817-12.0**					
Laboratory ID:	04-280-02					
Gasoline	**ND**	8.2	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*63-124*				

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0501S1					
Gasoline	**ND**	5.0	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*77*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-280-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*81*	*80*	*63-124*			

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B5-042817-12.0**					
Laboratory ID:	04-280-01					
Benzene	0.0013	0.0012	EPA 8260C	4-28-17	4-28-17	
Toluene	ND	0.0061	EPA 8260C	4-28-17	4-28-17	
Ethylbenzene	ND	0.0012	EPA 8260C	4-28-17	4-28-17	
m,p-Xylene	ND	0.0025	EPA 8260C	4-28-17	4-28-17	
o-Xylene	ND	0.0012	EPA 8260C	4-28-17	4-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*73-134*				
Toluene-d8	*104*	*81-124*				
4-Bromofluorobenzene	*98*	*80-131*				

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B6-042817-12.0**					
Laboratory ID:	04-280-02					
Benzene	ND	0.0013	EPA 8260C	4-28-17	4-28-17	
Toluene	ND	0.0064	EPA 8260C	4-28-17	4-28-17	
Ethylbenzene	ND	0.0013	EPA 8260C	4-28-17	4-28-17	
m,p-Xylene	ND	0.0026	EPA 8260C	4-28-17	4-28-17	
o-Xylene	ND	0.0013	EPA 8260C	4-28-17	4-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*73-134*				
Toluene-d8	*108*	*81-124*				
4-Bromofluorobenzene	*99*	*80-131*				

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

BTEX EPA 8260C
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0428S1					
Benzene	ND	0.0010	EPA 8260C	4-28-17	4-28-17	
Toluene	ND	0.0050	EPA 8260C	4-28-17	4-28-17	
Ethylbenzene	ND	0.0010	EPA 8260C	4-28-17	4-28-17	
m,p-Xylene	ND	0.0020	EPA 8260C	4-28-17	4-28-17	
o-Xylene	ND	0.0010	EPA 8260C	4-28-17	4-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*73-134*				
Toluene-d8	*111*	*81-124*				
4-Bromofluorobenzene	*109*	*80-131*				

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

BTEX EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0428S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0529**	**0.0544**	0.0500	0.0500	106	109	66-127	3	15	
Benzene	**0.0511**	**0.0537**	0.0500	0.0500	102	107	76-122	5	15	
Trichloroethene	**0.0523**	**0.0528**	0.0500	0.0500	105	106	78-120	1	15	
Toluene	**0.0550**	**0.0545**	0.0500	0.0500	110	109	83-120	1	15	
Chlorobenzene	**0.0522**	**0.0525**	0.0500	0.0500	104	105	81-120	1	15	
Surrogate:										
Dibromofluoromethane					*97*	*108*	*73-134*			
Toluene-d8					*101*	*103*	*81-124*			
4-Bromofluorobenzene					*101*	*110*	*80-131*			

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B5-042817-12.0**					
Laboratory ID:	04-280-01					
Diesel Range Organics	**ND**	34	NWTPH-Dx	4-28-17	4-28-17	
Lube Oil Range Organics	**ND**	68	NWTPH-Dx	4-28-17	4-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**B6-042817-12.0**					
Laboratory ID:	04-280-02					
Diesel Range Organics	**ND**	34	NWTPH-Dx	4-28-17	4-28-17	
Lube Oil Range Organics	**ND**	68	NWTPH-Dx	4-28-17	4-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	4-28-17	4-28-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	4-28-17	4-28-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-274-01										
	ORIG	DUP									
Diesel Range Organics	**80.2**	**25.3**	NA	NA		NA		NA	104	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*80*	*93*	*50-150*			

Date of Report: May 1, 2017
Samples Submitted: April 28, 2017
Laboratory Reference: 1704-280
Project: 1071-010

% MOISTURE

Date Analyzed: 4-28-17

Client ID	Lab ID	% Moisture
B5-042817-12.0	04-280-01	26
B6-042817-12.0	04-280-02	27

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: 04-280

Company: Farallon
Project Number: 1071-010
Project Name: Sandvik Property
Project Manager: Dan Lauer
Sampled by: Russell Linton

Turnaround Request (in working days)
(Check One)
- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ ______ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX -8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	B5-042817-12.0	4/28	1156	S	5		X		X																		X
2	B6-042817-12.0	6	1257	S	5		X		X																		X

	Signature	Company	Date	Time
Relinquished	[signature]	Farallon	4/28/17	1548
Received	[signature]	OSE	4/28/17	1545
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 2, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1704-289

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on April 29, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

Case Narrative

Samples were collected on April 27, 2017 and received by the laboratory on April 29, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SW1-SW-042717**					
Laboratory ID:	04-289-01					
Gasoline	**ND**	10	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*63-124*				
Client ID:	**W3-SW-042717**					
Laboratory ID:	04-289-02					
Gasoline	**ND**	5.8	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*78*	*63-124*				
Client ID:	**SE1-SW-042717**					
Laboratory ID:	04-289-03					
Gasoline	**ND**	7.8	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*78*	*63-124*				
Client ID:	**E1-SW-042717**					
Laboratory ID:	04-289-04					
Gasoline	**ND**	7.3	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*80*	*63-124*				
Client ID:	**W4-SW-042717**					
Laboratory ID:	04-289-05					
Gasoline	**ND**	7.9	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*63-124*				
Client ID:	**B1-042717**					
Laboratory ID:	04-289-06					
Gasoline	**ND**	7.7	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*63-124*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B2-042717**					
Laboratory ID:	04-289-07					
Gasoline	**ND**	7.9	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*78*	*63-124*				
Client ID:	**B3-042717**					
Laboratory ID:	04-289-08					
Gasoline	**ND**	6.8	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*63-124*				
Client ID:	**B4-042717**					
Laboratory ID:	04-289-09					
Gasoline	**ND**	8.1	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*78*	*63-124*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0501S2					
Gasoline	**ND**	5.0	NWTPH-Gx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-289-03										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*78*	*78*	*63-124*			

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SW1-SW-042717**					
Laboratory ID:	04-289-01					
Benzene	ND	0.0013	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0067	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0013	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0027	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0013	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*118*	*73-134*				
Toluene-d8	*108*	*81-124*				
4-Bromofluorobenzene	*89*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**W3-SW-042717**					
Laboratory ID:	04-289-02					
Benzene	ND	0.0010	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0052	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0010	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0021	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0010	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*116*	*81-124*				
4-Bromofluorobenzene	*109*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SE1-SW-042717**					
Laboratory ID:	04-289-03					
Benzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0057	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0023	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*111*	*81-124*				
4-Bromofluorobenzene	*105*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**E1-SW-042717**					
Laboratory ID:	04-289-04					
Benzene	ND	0.0012	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0058	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0012	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0023	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0012	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*73-134*				
Toluene-d8	*111*	*81-124*				
4-Bromofluorobenzene	*102*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**W4-SW-042717**					
Laboratory ID:	04-289-05					
Benzene	ND	0.0012	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0060	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0012	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0024	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0012	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*73-134*				
Toluene-d8	*107*	*81-124*				
4-Bromofluorobenzene	*95*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B1-042717**					
Laboratory ID:	04-289-06					
Benzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0054	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0021	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*73-134*				
Toluene-d8	*110*	*81-124*				
4-Bromofluorobenzene	*109*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B2-042717**					
Laboratory ID:	04-289-07					
Benzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0055	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0022	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*73-134*				
Toluene-d8	*113*	*81-124*				
4-Bromofluorobenzene	*111*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B3-042717**					
Laboratory ID:	04-289-08					
Benzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0055	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0022	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*73-134*				
Toluene-d8	*115*	*81-124*				
4-Bromofluorobenzene	*107*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B4-042717**					
Laboratory ID:	04-289-09					
Benzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0055	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0022	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0011	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*112*	*81-124*				
4-Bromofluorobenzene	*110*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0501S2					
Benzene	ND	0.0010	EPA 8260C	5-1-17	5-1-17	
Toluene	ND	0.0050	EPA 8260C	5-1-17	5-1-17	
Ethylbenzene	ND	0.0010	EPA 8260C	5-1-17	5-1-17	
m,p-Xylene	ND	0.0020	EPA 8260C	5-1-17	5-1-17	
o-Xylene	ND	0.0010	EPA 8260C	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*73-134*				
Toluene-d8	*117*	*81-124*				
4-Bromofluorobenzene	*115*	*80-131*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

BTEX EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0501S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0489**	**0.0524**	0.0500	0.0500	98	105	66-127	7	15	
Benzene	**0.0505**	**0.0526**	0.0500	0.0500	101	105	76-122	4	15	
Trichloroethene	**0.0512**	**0.0513**	0.0500	0.0500	102	103	78-120	0	15	
Toluene	**0.0540**	**0.0551**	0.0500	0.0500	108	110	83-120	2	15	
Chlorobenzene	**0.0523**	**0.0523**	0.0500	0.0500	105	105	81-120	0	15	
Surrogate:										
Dibromofluoromethane					*104*	*105*	*73-134*			
Toluene-d8					*107*	*105*	*81-124*			
4-Bromofluorobenzene					*107*	*102*	*80-131*			

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SW1-SW-042717**					
Laboratory ID:	04-289-01					
Diesel Range Organics	**ND**	39	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	77	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*64*	*50-150*				
Client ID:	**W3-SW-042717**					
Laboratory ID:	04-289-02					
Diesel Range Organics	**ND**	31	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Client ID:	**SE1-SW-042717**					
Laboratory ID:	04-289-03					
Diesel Range Organics	**ND**	34	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	68	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*61*	*50-150*				
Client ID:	**E1-SW-042717**					
Laboratory ID:	04-289-04					
Diesel Range Organics	**ND**	34	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	68	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*59*	*50-150*				
Client ID:	**W4-SW-042717**					
Laboratory ID:	04-289-05					
Diesel Range Organics	**ND**	36	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	71	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*63*	*50-150*				
Client ID:	**B1-042717**					
Laboratory ID:	04-289-06					
Diesel Range Organics	**ND**	35	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	70	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B2-042717**					
Laboratory ID:	04-289-07					
Diesel Range Organics	**ND**	35	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	70	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**B3-042717**					
Laboratory ID:	04-289-08					
Diesel Range Organics	**ND**	33	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				
Client ID:	**B4-042717**					
Laboratory ID:	04-289-09					
Diesel Range Organics	**ND**	34	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	68	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*67*	*50-150*				

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0501S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-1-17	5-1-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-1-17	5-1-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*115*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-289-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*64*	*71*	*50-150*			

Date of Report: May 2, 2017
Samples Submitted: April 29, 2017
Laboratory Reference: 1704-289
Project: 1071-010

% MOISTURE

Date Analyzed: 5-1-17

Client ID	Lab ID	% Moisture
SW1-SW-042717	04-289-01	35
W3-SW-042717	04-289-02	19
SE1-SW-042717	04-289-03	27
E1-SW-042717	04-289-04	26
W4-SW-042717	04-289-05	30
B1-042717	04-289-06	28
B2-042717	04-289-07	29
B3-042717	04-289-08	24
B4-042717	04-289-09	26

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1071-010
Project Name: Sounder Project
Project Manager: Don Lance
Sampled by: Ryan Ostrom

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 04-289

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	SW1-SW-042717	4/27/17	0815	Soil	5		X		X																		X
2	W3-SW-042717		0820				X		X																		X
3	SE1-SW-042717		0845				X		X																		X
4	E1-SW-042717		0850				X		X																		X
5	W4-SW-042717		1030				X		X																		X
6	B1-042717		1105				X		X																		X
7	B2-042717		1245				X		X																		X
8	B3-042717		1300				X		X																		X
9	B4-042717		1355				X		X																		X
RO																											

	Signature	Company	Date	Time
Relinquished	Ryan Ostrom	Farallon	4/27/17	1530
Received		OnSite Env.	4/28/17	1155
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 3, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1705-024

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on May 2, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

Case Narrative

Samples were collected on May 1, 2017 and received by the laboratory on May 2, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B7-050117-11.5**					
Laboratory ID:	05-024-01					
Gasoline	**ND**	7.0	NWTPH-Gx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*63-124*				
Client ID:	**B8-050117-12.0**					
Laboratory ID:	05-024-02					
Gasoline	**ND**	7.6	NWTPH-Gx	5-2-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*63-124*				
Client ID:	**B9-050117-11.5**					
Laboratory ID:	05-024-03					
Gasoline	**ND**	8.8	NWTPH-Gx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*63-124*				
Client ID:	**B10-050117-13.0**					
Laboratory ID:	05-024-04					
Gasoline	**ND**	9.4	NWTPH-Gx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*63-124*				

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502S1					
Gasoline	**ND**	5.0	NWTPH-Gx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*79*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-026-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*83*	*82*	*63-124*			

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B7-050117-11.5**					
Laboratory ID:	05-024-01					
Benzene	ND	0.0010	EPA 8260C	5-2-17	5-2-17	
Toluene	ND	0.0052	EPA 8260C	5-2-17	5-2-17	
Ethylbenzene	0.0011	0.0010	EPA 8260C	5-2-17	5-2-17	
m,p-Xylene	0.0051	0.0021	EPA 8260C	5-2-17	5-2-17	
o-Xylene	0.0021	0.0010	EPA 8260C	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*73-134*				
Toluene-d8	*107*	*81-124*				
4-Bromofluorobenzene	*98*	*80-131*				

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B8-050117-12.0**					
Laboratory ID:	05-024-02					
Benzene	ND	0.0013	EPA 8260C	5-2-17	5-2-17	
Toluene	ND	0.0067	EPA 8260C	5-2-17	5-2-17	
Ethylbenzene	ND	0.0013	EPA 8260C	5-2-17	5-2-17	
m,p-Xylene	ND	0.0027	EPA 8260C	5-2-17	5-2-17	
o-Xylene	ND	0.0013	EPA 8260C	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*73-134*				
Toluene-d8	*111*	*81-124*				
4-Bromofluorobenzene	*109*	*80-131*				

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B9-050117-11.5**					
Laboratory ID:	05-024-03					
Benzene	ND	0.0014	EPA 8260C	5-2-17	5-2-17	
Toluene	ND	0.0068	EPA 8260C	5-2-17	5-2-17	
Ethylbenzene	ND	0.0014	EPA 8260C	5-2-17	5-2-17	
m,p-Xylene	ND	0.0027	EPA 8260C	5-2-17	5-2-17	
o-Xylene	ND	0.0014	EPA 8260C	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*116*	*73-134*				
Toluene-d8	*112*	*81-124*				
4-Bromofluorobenzene	*107*	*80-131*				

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

BTEX EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B10-050117-13.0**					
Laboratory ID:	05-024-04					
Benzene	ND	0.0014	EPA 8260C	5-2-17	5-2-17	
Toluene	ND	0.0070	EPA 8260C	5-2-17	5-2-17	
Ethylbenzene	ND	0.0014	EPA 8260C	5-2-17	5-2-17	
m,p-Xylene	ND	0.0028	EPA 8260C	5-2-17	5-2-17	
o-Xylene	ND	0.0014	EPA 8260C	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*73-134*				
Toluene-d8	*109*	*81-124*				
4-Bromofluorobenzene	*97*	*80-131*				

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

BTEX EPA 8260C
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0502S2					
Benzene	ND	0.0010	EPA 8260C	5-2-17	5-2-17	
Toluene	ND	0.0050	EPA 8260C	5-2-17	5-2-17	
Ethylbenzene	ND	0.0010	EPA 8260C	5-2-17	5-2-17	
m,p-Xylene	ND	0.0020	EPA 8260C	5-2-17	5-2-17	
o-Xylene	ND	0.0010	EPA 8260C	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*73-134*				
Toluene-d8	*116*	*81-124*				
4-Bromofluorobenzene	*111*	*80-131*				

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

BTEX EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0502S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0511**	**0.0500**	0.0500	0.0500	102	100	66-127	2	15	
Benzene	**0.0523**	**0.0523**	0.0500	0.0500	105	105	76-122	0	15	
Trichloroethene	**0.0522**	**0.0520**	0.0500	0.0500	104	104	78-120	0	15	
Toluene	**0.0560**	**0.0566**	0.0500	0.0500	112	113	83-120	1	15	
Chlorobenzene	**0.0513**	**0.0505**	0.0500	0.0500	103	101	81-120	2	15	
Surrogate:										
Dibromofluoromethane					*104*	*102*	*73-134*			
Toluene-d8					*106*	*104*	*81-124*			
4-Bromofluorobenzene					*104*	*102*	*80-131*			

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B7-050117-11.5**					
Laboratory ID:	05-024-01					
Diesel Fuel #2	**100**	30	NWTPH-Dx	5-2-17	5-2-17	N
Lube Oil	**500**	60	NWTPH-Dx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**B8-050117-12.0**					
Laboratory ID:	05-024-02					
Diesel Fuel #2	**110**	34	NWTPH-Dx	5-2-17	5-2-17	
Lube Oil	**110**	68	NWTPH-Dx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**B9-050117-11.5**					
Laboratory ID:	05-024-03					
Diesel Range Organics	**ND**	35	NWTPH-Dx	5-2-17	5-2-17	
Lube Oil Range Organics	**ND**	69	NWTPH-Dx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**B10-050117-13.0**					
Laboratory ID:	05-024-04					
Diesel Range Organics	**ND**	36	NWTPH-Dx	5-2-17	5-2-17	
Lube Oil Range Organics	**130**	72	NWTPH-Dx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-2-17	5-2-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-2-17	5-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-014-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*81*	*76*	*50-150*			

Date of Report: May 3, 2017
Samples Submitted: May 2, 2017
Laboratory Reference: 1705-024
Project: 1071-010

% MOISTURE

Date Analyzed: 5-2-17

Client ID	Lab ID	% Moisture
B7-050117-11.5	05-024-01	17
B8-050117-12.0	05-024-02	27
B9-050117-11.5	05-024-03	28
B10-050117-13.0	05-024-04	31

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1 D3

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: SOUNDR PROJECT
Project Name: 1071-010
Project Manager: DON LANCH
Sampled by: RUSSELL LAITEN

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 05-024

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX - 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	B7-050117-11.5	5/1/17	900	S	5		X		X																		X
2	B8-050117-12.0		1001				X		X																		
3	B9-050117-11.5		1023				X		X																		
4	B10-050117-13.0		1155				X		X																		

	Signature	Company	Date	Time
Relinquished		FARALLON	5/1/17	1530
Received		Alpha	5/2/17	10:20
Relinquished		Alpha	5/2/17	10:50
Received		CRS	5/2/17	1150
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 5, 2017

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1705-049

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on May 3, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

Case Narrative

Samples were collected on May 3, 2017 and received by the laboratory on May 3, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NE-050317-9.5**					
Laboratory ID:	05-049-04					
Gasoline	**ND**	6.2	NWTPH-Gx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*63-124*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NNW-050317-8.5**					
Laboratory ID:	05-049-01					
Gasoline	**ND**	7.4	NWTPH-Gx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*63-124*				
Client ID:	**NWW-050317-8.5**					
Laboratory ID:	05-049-02					
Gasoline	**ND**	9.3	NWTPH-Gx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*63-124*				
Client ID:	**NEB-050317-12.0**					
Laboratory ID:	05-049-03					
Gasoline	**ND**	6.6	NWTPH-Gx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*63-124*				
Client ID:	**NW-050317-9.0**					
Laboratory ID:	05-049-05					
Gasoline	**ND**	7.5	NWTPH-Gx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*82*	*63-124*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503S1					
Gasoline	**ND**	5.0	NWTPH-Gx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*79*	*63-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-042-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*82*	*82*	*63-124*			

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NE-050317-9.5**					
Laboratory ID:	05-049-04					
Benzene	ND	0.0010	EPA 8260C	5-4-17	5-4-17	
Toluene	ND	0.0051	EPA 8260C	5-4-17	5-4-17	
Ethylbenzene	ND	0.0010	EPA 8260C	5-4-17	5-4-17	
m,p-Xylene	ND	0.0020	EPA 8260C	5-4-17	5-4-17	
o-Xylene	ND	0.0010	EPA 8260C	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*73-134*				
Toluene-d8	*109*	*81-124*				
4-Bromofluorobenzene	*101*	*80-131*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NNW-050317-8.5**					
Laboratory ID:	05-049-01					
Benzene	ND	0.0011	EPA 8260C	5-4-17	5-4-17	
Toluene	ND	0.0056	EPA 8260C	5-4-17	5-4-17	
Ethylbenzene	ND	0.0011	EPA 8260C	5-4-17	5-4-17	
m,p-Xylene	ND	0.0023	EPA 8260C	5-4-17	5-4-17	
o-Xylene	ND	0.0011	EPA 8260C	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*73-134*				
Toluene-d8	*113*	*81-124*				
4-Bromofluorobenzene	*102*	*80-131*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NWW-050317-8.5**					
Laboratory ID:	05-049-02					
Benzene	ND	0.0017	EPA 8260C	5-4-17	5-4-17	
Toluene	ND	0.0085	EPA 8260C	5-4-17	5-4-17	
Ethylbenzene	ND	0.0017	EPA 8260C	5-4-17	5-4-17	
m,p-Xylene	ND	0.0034	EPA 8260C	5-4-17	5-4-17	
o-Xylene	ND	0.0017	EPA 8260C	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*73-134*				
Toluene-d8	*110*	*81-124*				
4-Bromofluorobenzene	*95*	*80-131*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NEB-050317-12.0**					
Laboratory ID:	05-049-03					
Benzene	ND	0.0011	EPA 8260C	5-4-17	5-4-17	
Toluene	ND	0.0056	EPA 8260C	5-4-17	5-4-17	
Ethylbenzene	ND	0.0011	EPA 8260C	5-4-17	5-4-17	
m,p-Xylene	ND	0.0022	EPA 8260C	5-4-17	5-4-17	
o-Xylene	ND	0.0011	EPA 8260C	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*73-134*				
Toluene-d8	*111*	*81-124*				
4-Bromofluorobenzene	*102*	*80-131*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

BTEX
EPA 8260C

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NW-050317-9.0**					
Laboratory ID:	05-049-05					
Benzene	ND	0.0013	EPA 8260C	5-4-17	5-4-17	
Toluene	ND	0.0064	EPA 8260C	5-4-17	5-4-17	
Ethylbenzene	ND	0.0013	EPA 8260C	5-4-17	5-4-17	
m,p-Xylene	ND	0.0025	EPA 8260C	5-4-17	5-4-17	
o-Xylene	ND	0.0013	EPA 8260C	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*116*	*73-134*				
Toluene-d8	*112*	*81-124*				
4-Bromofluorobenzene	*106*	*80-131*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

BTEX EPA 8260C
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0504S1					
Benzene	ND	0.0010	EPA 8260C	5-4-17	5-4-17	
Toluene	ND	0.0050	EPA 8260C	5-4-17	5-4-17	
Ethylbenzene	ND	0.0010	EPA 8260C	5-4-17	5-4-17	
m,p-Xylene	ND	0.0020	EPA 8260C	5-4-17	5-4-17	
o-Xylene	ND	0.0010	EPA 8260C	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*73-134*				
Toluene-d8	*116*	*81-124*				
4-Bromofluorobenzene	*111*	*80-131*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017

Laboratory Reference: 1705-049
Project: 1071-010

BTEX EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0504S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0478**	**0.0466**	0.0500	0.0500	96	93	66-127	3	15	
Benzene	**0.0505**	**0.0453**	0.0500	0.0500	101	91	76-122	11	15	
Trichloroethene	**0.0507**	**0.0502**	0.0500	0.0500	101	100	78-120	1	15	
Toluene	**0.0535**	**0.0543**	0.0500	0.0500	107	109	83-120	1	15	
Chlorobenzene	**0.0492**	**0.0495**	0.0500	0.0500	98	99	81-120	1	15	
Surrogate:										
Dibromofluoromethane					*106*	*106*	*73-134*			
Toluene-d8					*108*	*108*	*81-124*			
4-Bromofluorobenzene					*103*	*104*	*80-131*			

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NE-050317-9.5**					
Laboratory ID:	05-049-04					
Diesel Range Organics	**ND**	29	NWTPH-Dx	5-3-17	5-3-17	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503S4					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-3-17	5-3-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-3-17	5-3-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-042-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*87*	*77*	*50-150*			

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NNW-050317-8.5**					
Laboratory ID:	05-049-01					
Diesel Range Organics	**ND**	33	NWTPH-Dx	5-4-17	5-4-17	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**NWW-050317-8.5**					
Laboratory ID:	05-049-02					
Diesel Range Organics	**ND**	39	NWTPH-Dx	5-4-17	5-4-17	
Lube Oil Range Organics	**ND**	77	NWTPH-Dx	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*140*	*50-150*				
Client ID:	**NEB-050317-12.0**					
Laboratory ID:	05-049-03					
Diesel Range Organics	**ND**	30	NWTPH-Dx	5-4-17	5-4-17	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**NW-050317-9.0**					
Laboratory ID:	05-049-05					
Diesel Range Organics	**ND**	32	NWTPH-Dx	5-4-17	5-4-17	
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	5-4-17	5-4-17	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	5-4-17	5-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-049-05										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*86*	*79*	*50-150*			

Date of Report: May 5, 2017
Samples Submitted: May 3, 2017
Laboratory Reference: 1705-049
Project: 1071-010

% MOISTURE

Date Analyzed: 5-3-17

Client ID	Lab ID	% Moisture
NNW-050317-8.5	05-049-01	25
NWW-050317-8.5	05-049-02	35
NEB-050317-12.0	05-049-03	17
NE-050317-9.5	05-049-04	14
NW-050317-9.0	05-049-05	22

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-010
Project Name: PROJECT SOMMOR
Project Manager: DON LANCE
Sampled by: RUSSELL LUPTON

Turnaround Request (in working days)
(Check One)
☒ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 05-049

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	24/Same DAY				% Moisture
1	NNW-050317-8.5	5/3	0825	S	5		X		X																		X
2	NNW-050317-8.5		0910																								
3	NEB-050317-12.0		1214																								
4	NE-050317-9.5		1346																				X				
8	NW-050317-9.0		1443																								

	Signature	Company	Date	Time
Relinquished		FARALLON	5/3/17	1620
Received		CORE	5/3/17	1620
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
NE-05

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

APPENDIX C
TERRESTRIAL ECOLOGICAL EVALUATION FORM

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

MULTI-TENANT WAREHOUSE

MULTI-TENANT WAREHOUSE

SLIP 2

4TH AVENUE SOUTH

500' BUFFER OF SITE BOUNDARY

EAST MARGINAL WAY SOUTH

SOUTH MICHIGAN STREET

LEGEND

- 500 FOOT BUFFER OF APPROXIMATE SITE BOUNDARY
- PROPERTY BOUNDARY
- APPROXIMATE SITE BOUNDARY
- KING COUNTY PARCELS

N

0 160

SCALE IN FEET

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Oregon
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California
Oakland | Sacramento | Irvine

FIGURE 1

500 FOOT BUFFER AROUND SITE BOUNDARY
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: tperrin | Checked By: JC | Date: 9/13/2017 | Disc Reference:

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Voluntary Cleanup Program

Washington State Department of Ecology
Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE	
Please identify below the hazardous waste site for which you are documenting an evaluation.	
Facility/Site Name: Consolidated Freightways Seattle	
Facility/Site Address: 6050 E. Marginal Way, Seattle, WA 98108	
Facility/Site No: 54757868	VCP Project No.: NW3050

Step 2: IDENTIFY EVALUATOR		
Please identify below the person who conducted the evaluation and their contact information.		
Name: Jeanette Mullin		Title: Environmental Manager
Organization: Farallon Consulting		
Mailing address: 975 5th Avenue NW		
City: Issaquah	State: WA	Zip code: 98027
Phone: (425) 394-4149	Fax: (425) 295-0850	E-mail: jmullin@farallonconsulting.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

☒ Yes *If you answered **"YES,"** then answer **Question 2**.*

☐ No or Unknown *If you answered **"NO" or "UKNOWN,"** then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? *Check all that apply. Then skip to **Step 4** of this form.*

Point of Compliance: WAC 173-340-7491(1)(a)

☐ All soil contamination is, or will be,* at least 15 feet below the surface.

☐ All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

☐ All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

☐ There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.

☒ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

[±] "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

[#] "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No or Unknown *If you answered **"NO"** or **"UNKNOWN,"** then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

☐ Yes *If you answered **"YES,"** then answer **Question 3** below.*

☐ No *If you answered **"NO,"** then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

☐ Yes *If you answered **"YES,"** then answer **Question 4** below.*

☐ No *If you answered **"NO,"** then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*

☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? *Check all that apply. Then skip to **Step 4** of this form.*

Exposure Analysis: WAC 173-340-7492(2)(a)

☐ Area of soil contamination at the Site is not more than 350 square feet.

☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.

☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. *See* WAC 173-340-7493(1)(c).

1. Was there a problem? *See* WAC 173-340-7493(2).

☐ Yes *If you answered **"YES,"** then answer **Question 2** below.*

☐ No *If you answered **"NO,"** then identify the reason here and then skip to **Question 5** below:*

- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? *See* WAC 173-340-7493(3).

☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*

☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use? *Check all that apply. See* WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

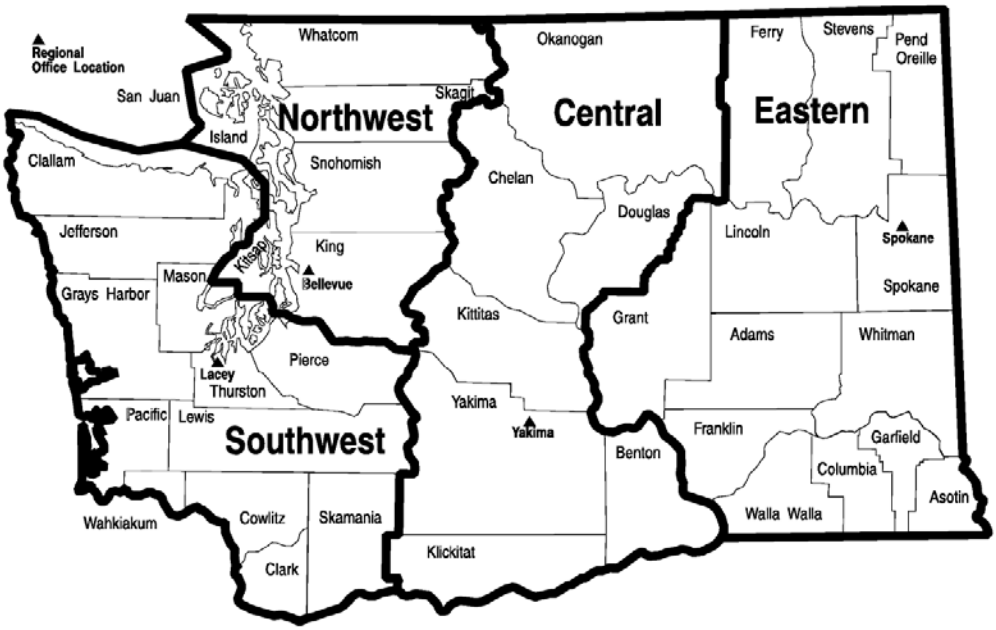
☐ Yes If so, please identify the Ecology staff who approved those steps:

☐ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.

Northwest Region: Attn: VCP Coordinator 3190 160th Ave. SE Bellevue, WA 98008-5452	**Central Region:** Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	**Eastern Region:** Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295



APPENDIX D
ENVIRONMENTAL MEDIA MANAGEMENT PLAN FIGURES

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

EAST MARGINAL WAY SOUTH

MW-6 <260/<420/---/---

MW-5 430/<410/---/---

MW-3 **510/620**/<100/<0.20

MW-4 <260/<410/<100/<0.20

MW-2 **2,700**/<490/280/<0.20

FORMER DIESEL USTs
(DECOMMISSIONED 1998)

FORMER DIESEL, MOTOR
OIL, AND WASTE OIL USTs
(DECOMMISSIONED 1988)

PRODUCT LINE
TRENCH

RW-2

3,700/<640/800/<0.20

FORMER SHOP BUILDING

FORMER
OIL-WATER
SEPARATOR

FORMER WASH RACK

EXISTING 20,000
GALLON DIESEL UST

MW-1 NOT SAMPLED

LEGEND

- PROPERTY BOUNDARY
- FORMER BUILDING FOOTPRINT
- LIMITS OF UNDERGROUND STORAGE TANK (UST) EXCAVATION
- PUBLIC ROAD RIGHT-OF-WAY
- EXISTING UST
- MW-1 MONITORING WELL (GOLDER ASSOCIATES 1998 AND 2001)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- <260/<410/<100/<2.0 GROUNDWATER SAMPLE ANALYTICAL RESULTS MICROGRAMS PER LITER FOR [DRO/ORO/GRO/BENZENE]

GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

DRO = TPH AS DIESEL-RANGE ORGANICS

BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS

< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

-- = NOT ANALYZED

ALL LOCATIONS ARE APPROXIMATE

0 50
Scale in feet

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Issaquah | Bellingham | Seattle

Oregon
Portland | Bend | Baker City

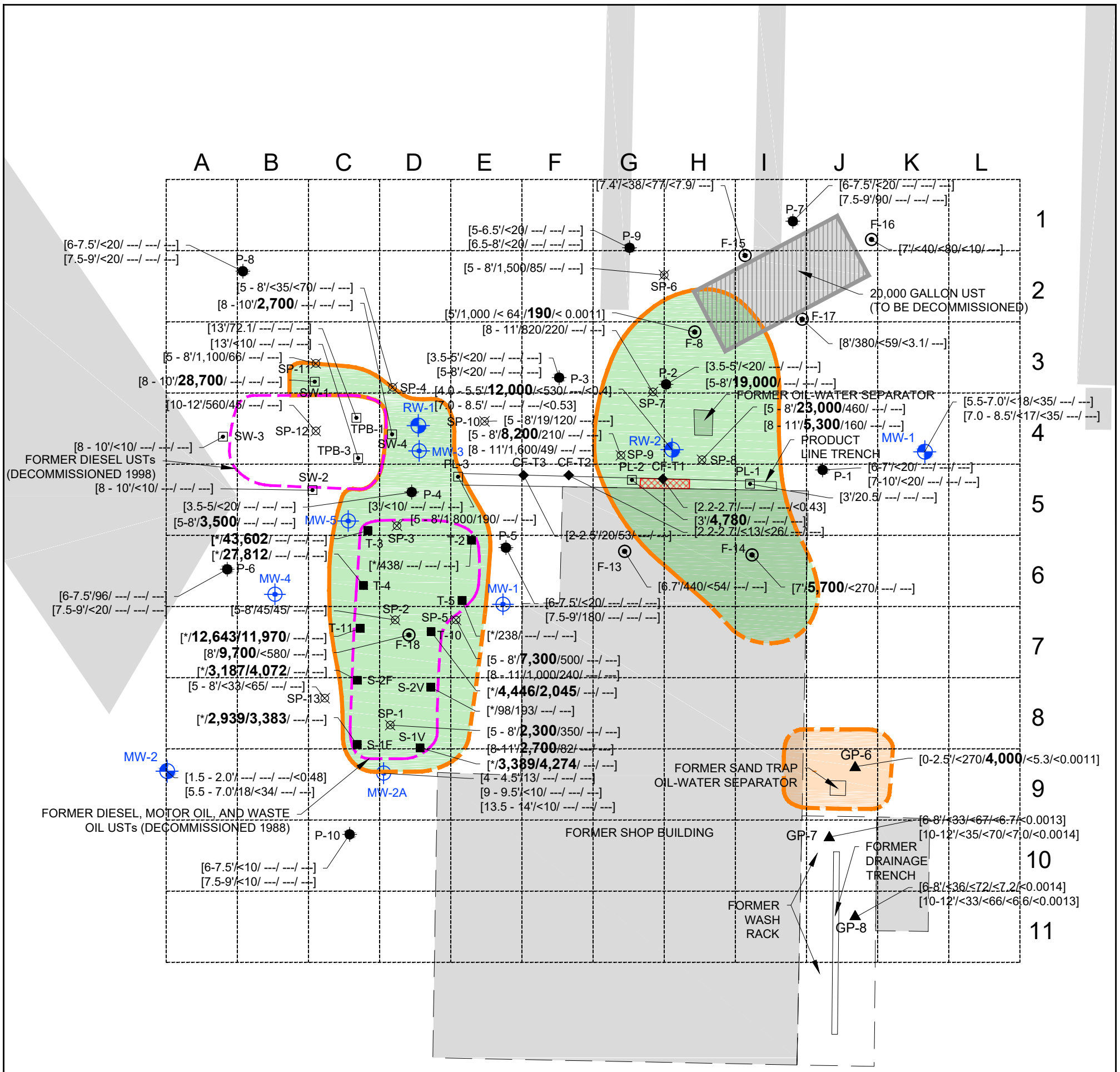
California
Oakland | Sacramento | Irvine

FIGURE 9

GROUNDWATER ANALYTICAL RESULTS FOR
AUGUST 12 AND SEPTEMBER 23, 2014
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: DJR Checked By: DLM/DEW Date: 11/2/2015 Disk Reference: 1071-010_01D.DWG

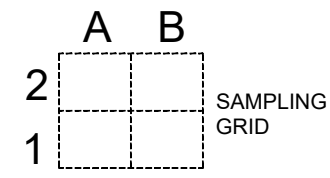


LEGEND

- FORMER BUILDING FOOTPRINT
- APPROXIMATE EXTENT OF TPH IN SOIL EXCEEDING MTCA METHOD A CLEANUP LEVELS, DASHED WHERE INFERRED
- MW-4 MONITORING WELL (BLYMER ENGINEERS 1988)
- MW-1 MONITORING WELL (GOLDER ASSOCIATES 1998)
- F-13 BORING (FARALLON 2014)
- SP2 BORING (SHANNON & WILSON 1997)
- T-3 TRENCH SAMPLING LOCATION (GOLDER ASSOCIATES 1998)
- SW-3 CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF THE DIESEL USTs (FLUOR DANIEL GTI 1998)
- CF-T-4 CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- P-3 BORING (GOLDER ASSOCIATES 2001)
- GP-6 BORING (GOLDER ASSOCIATES 2004)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- LIMITS OF UNDERGROUND STORAGE TANK (UST) EXCAVATION
- EXISTING UST
- [7'/<27/<55/<4.5/ ---] SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM FOR [DEPTH/DRO/ORO/GRO/BENZENE]
- DEPTH IN FEET BELOW ORIGINAL GRADE
- GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS
- ORO = TPH AS OIL-RANGE ORGANICS
- DRO = TPH AS DIESEL-RANGE ORGANICS

SOIL DISPOSAL CATEGORY

- APPROXIMATE EXTENT OF CATEGORY 1 SOIL
- APPROXIMATE EXTENT OF CATEGORY 3 SOIL



SAMPLING GRID

- BGS = BELOW GROUND SURFACE
- **BOLD** = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS
- < = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT
- -- = NOT ANALYZED
- * = SAMPLE DEPTH UNKNOWN
- ALL LOCATIONS ARE APPROXIMATE

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Oregon
Portland | Bend | Baker City
California
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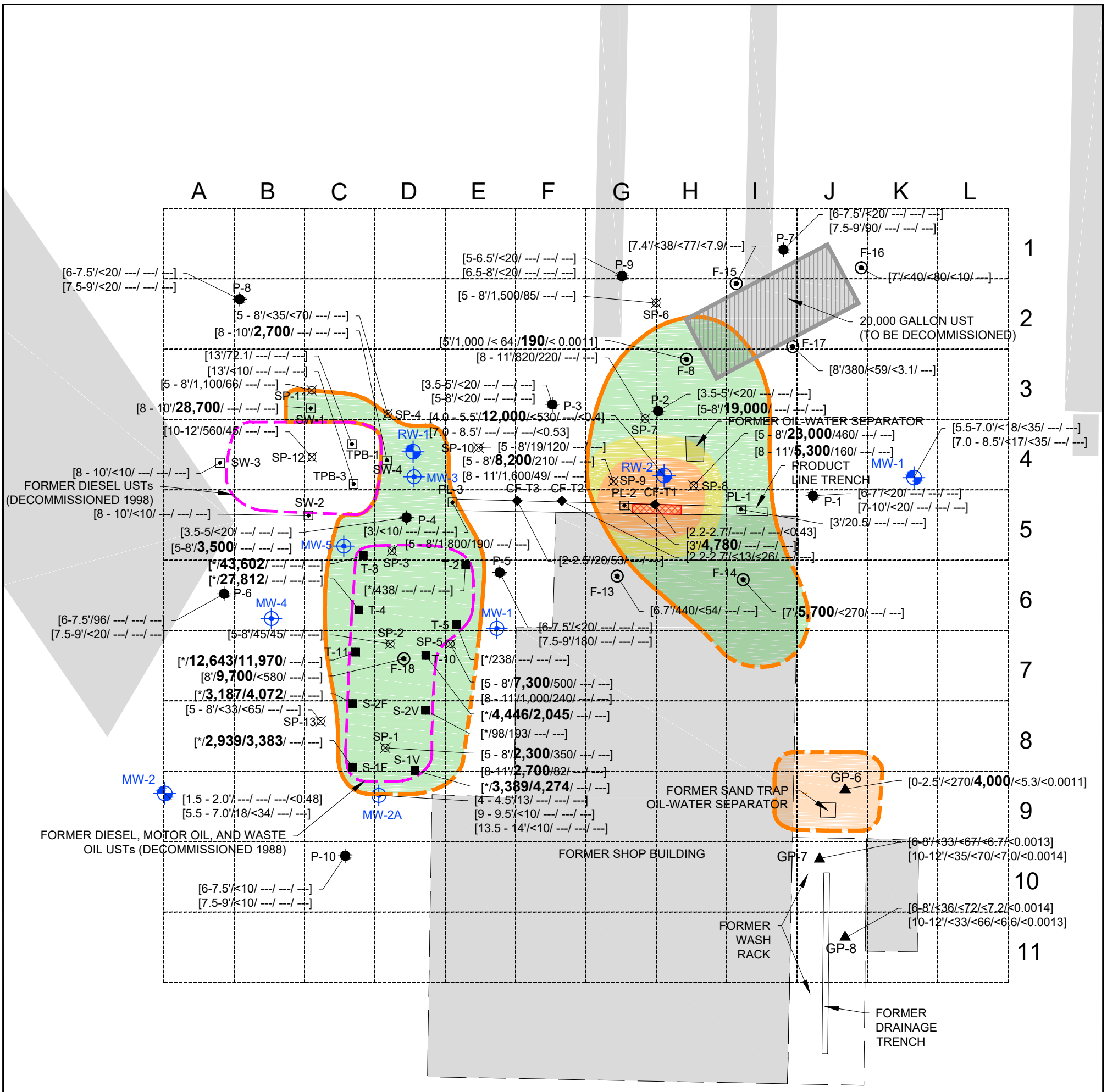
FIGURE 10

SOIL ANALYTICAL RESULTS
AND DISPOSAL CATEGORY 0-2' BGS
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: DJR | Checked By: DLM/DEW | Date: 11/2/2015 | Disk Reference: 1071-010_01D.DWG

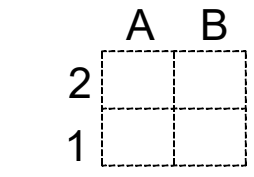


LEGEND

- FORMER BUILDING FOOTPRINT
- APPROXIMATE EXTENT OF TPH IN SOIL EXCEEDING MTCA METHOD A CLEANUP LEVELS, DASHED WHERE INFERRED
- MW-4 — MONITORING WELL (BLYMER ENGINEERS 1988)
- MW-1 — MONITORING WELL (GOLDER ASSOCIATES 1998)
- F-13 — BORING (FARALLON 2014)
- SP2 — BORING (SHANNON & WILSON 1997)
- T-3 — TRENCH SAMPLING LOCATION (GOLDER ASSOCIATES 1998)
- SW-3 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF THE DIESEL USTs (FLUOR DANIEL GTI 1998)
- CF-T-4 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- P-3 — BORING (GOLDER ASSOCIATES 2001)
- GP-6 — BORING (GOLDER ASSOCIATES 2004)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- LIMITS OF UNDERGROUND STORAGE TANK (UST) EXCAVATION
- EXISTING UST
- [7'/<27/<55/<4.5/ ---] — SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM FOR [DEPTH/DRO/ORO/GRO/BENZENE]
- DEPTH IN FEET BELOW ORIGINAL GRADE
- GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS
- ORO = TPH AS OIL-RANGE ORGANICS
- DRO = TPH AS DIESEL-RANGE ORGANICS

SOIL DISPOSAL CATEGORY

- APPROXIMATE EXTENT OF CATEGORY 1 SOIL
- APPROXIMATE EXTENT OF CATEGORY 2 SOIL
- APPROXIMATE EXTENT OF CATEGORY 3 SOIL



SAMPLING GRID

BGS = BELOW GROUND SURFACE

BOLD = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS

< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

-- = NOT ANALYZED

* = SAMPLE DEPTH UNKNOWN

ALL LOCATIONS ARE APPROXIMATE

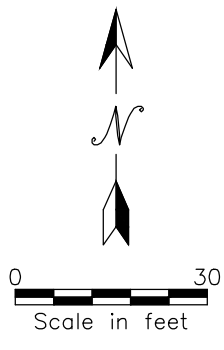


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FIGURE 11

SOIL ANALYTICAL RESULTS
AND DISPOSAL CATEGORY 2-4' BGS
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

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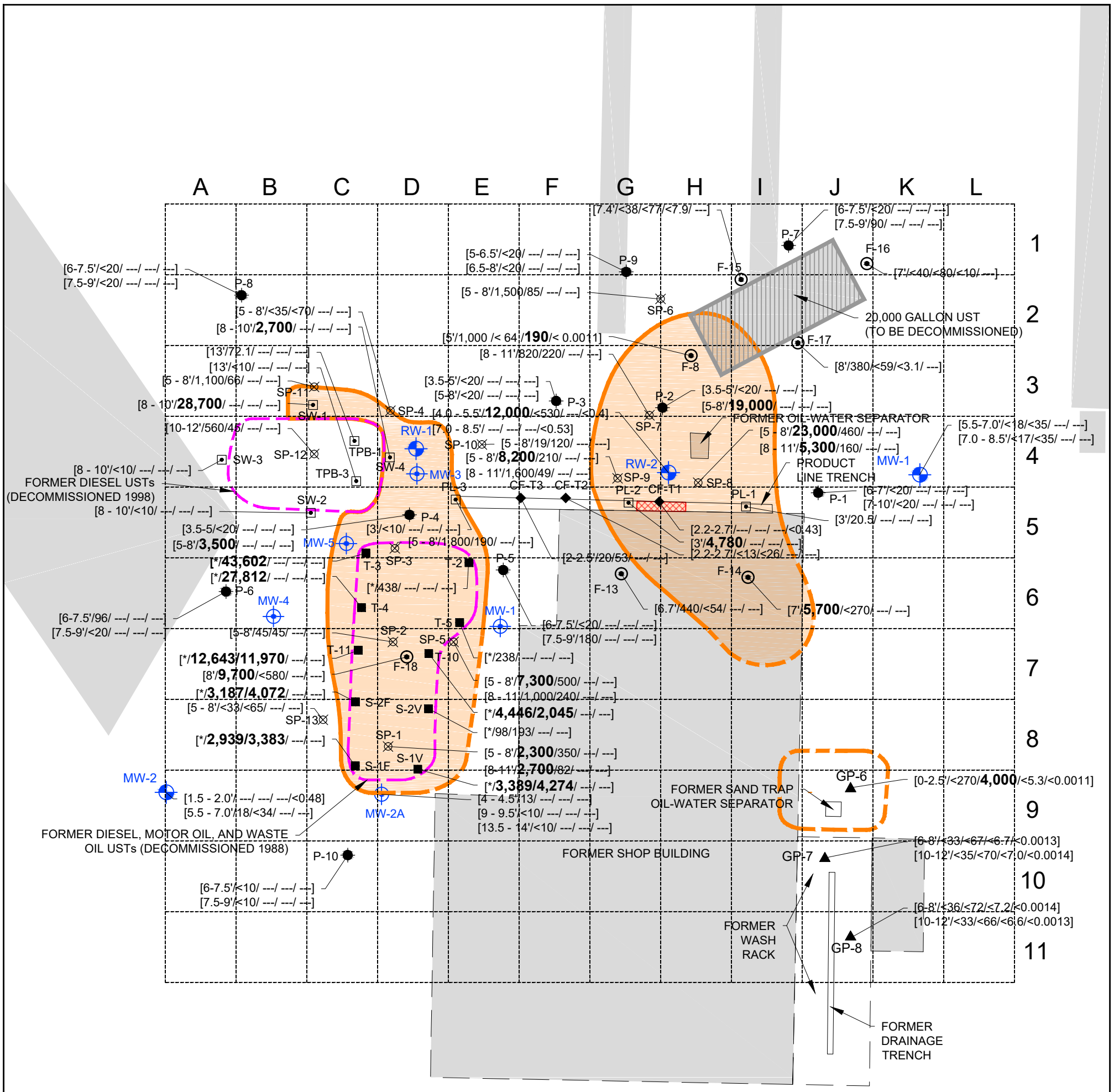

LEGEND

- FORMER BUILDING FOOTPRINT
- APPROXIMATE EXTENT OF TPH IN SOIL EXCEEDING MTCA METHOD A CLEANUP LEVELS, DASHED WHERE INFERRED
- MW-4 — MONITORING WELL (BLYMER ENGINEERS 1988)
- MW-1 — MONITORING WELL (GOLDER ASSOCIATES 1998)
- F-13 — BORING (FARALLON 2014)
- SP2 — BORING (SHANNON & WILSON 1997)
- T-3 — TRENCH SAMPLING LOCATION (GOLDER ASSOCIATES 1998)
- SW-3 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF THE DIESEL USTs (FLUOR DANIEL GTI 1998)
- CF-T-4 — CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- P-3 — BORING (GOLDER ASSOCIATES 2001)
- GP-6 — BORING (GOLDER ASSOCIATES 2004)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- LIMITS OF UNDERGROUND STORAGE TANK (UST) EXCAVATION
- EXISTING UST
- [7'/<27/<55/<4.5/ ---] — SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM FOR [DEPTH/DRO/ORO/GRO/BENZENE]
- DEPTH IN FEET BELOW ORIGINAL GRADE
- GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS
- ORO = TPH AS OIL-RANGE ORGANICS
- DRO = TPH AS DIESEL-RANGE ORGANICS

SOIL DISPOSAL CATEGORY

- APPROXIMATE EXTENT OF CATEGORY 3 SOIL

A B
2
1
SAMPLING GRID

- BGS = BELOW GROUND SURFACE
- **BOLD** = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS
- < = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT
- -- = NOT ANALYZED
- * = SAMPLE DEPTH UNKNOWN
- ALL LOCATIONS ARE APPROXIMATE

0 30
Scale in feet

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FIGURE 12

SOIL ANALYTICAL RESULTS
AND DISPOSAL CATEGORY 4-8' BGS
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

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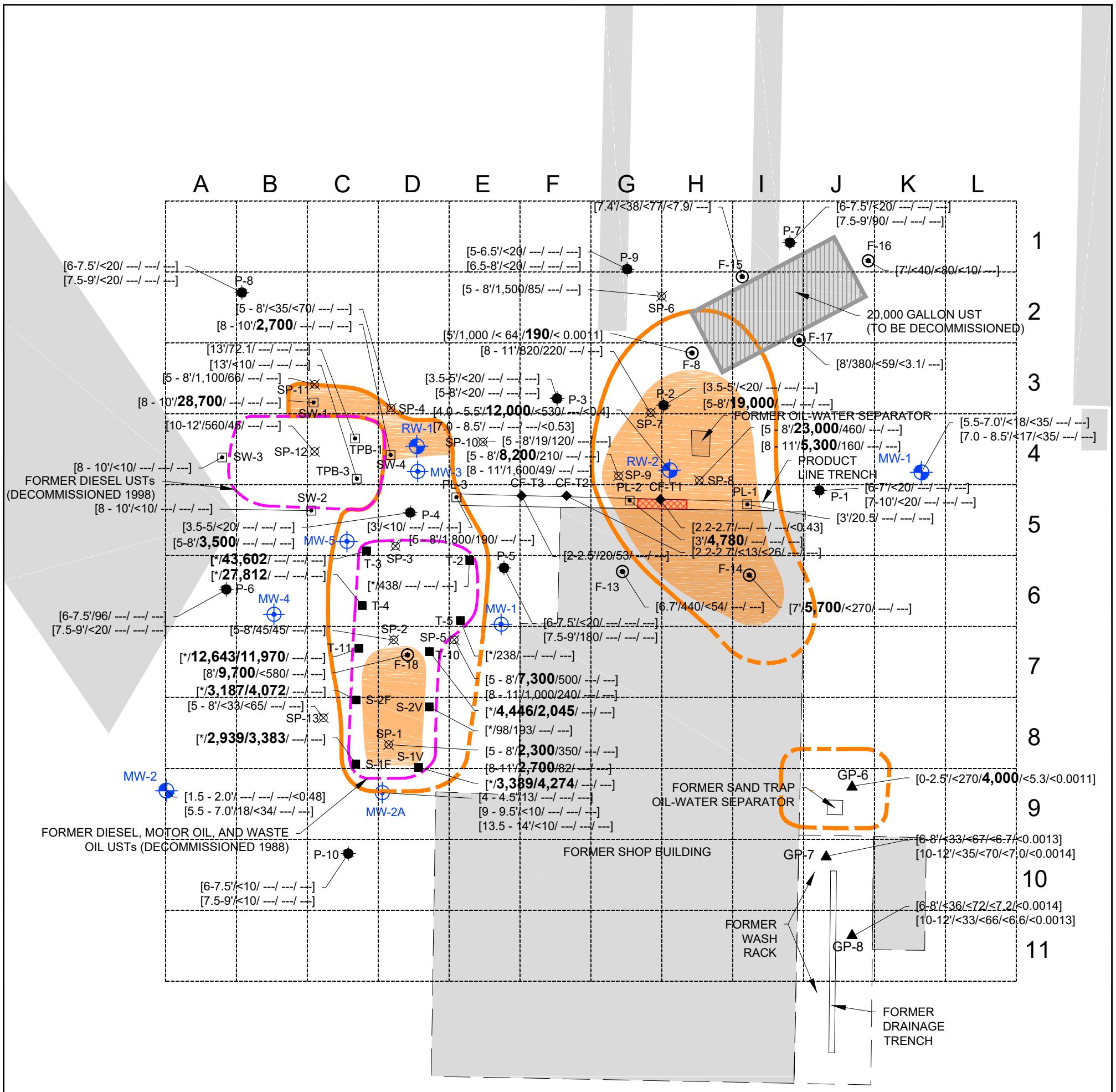

LEGEND

- FORMER BUILDING FOOTPRINT
- APPROXIMATE EXTENT OF TPH IN SOIL EXCEEDING MTCA METHOD A CLEANUP LEVELS, DASHED WHERE INFERRED
- MW-4 MONITORING WELL (BLYMER ENGINEERS 1988)
- MW-1 MONITORING WELL (GOLDER ASSOCIATES 1998)
- F-13 BORING (FARALLON 2014)
- SP2 BORING (SHANNON & WILSON 1997)
- T-3 TRENCH SAMPLING LOCATION (GOLDER ASSOCIATES 1998)
- SW-3 CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF THE DIESEL USTs (FLUOR DANIEL GTI 1998)
- CF-T-4 CONFIRMATIONAL SOIL SAMPLE ASSOCIATED WITH DECOMMISSIONING OF DIESEL, MOTOR OIL, AND WASTE OIL USTs (BLYMER ENGINEERS 1988)
- P-3 BORING (GOLDER ASSOCIATES 2001)
- GP-6 BORING (GOLDER ASSOCIATES 2004)
- CONCRETE SURFACES
- FORMER FUEL LINE LEAK AREA
- LIMITS OF UNDERGROUND STORAGE TANK (UST) EXCAVATION
- EXISTING UST
- [7'/<27/<55/<4.5/ ---] SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM FOR [DEPTH/DRO/ORO/GRO/BENZENE]
- DEPTH IN FEET BELOW ORIGINAL GRADE
- GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS
- ORO = TPH AS OIL-RANGE ORGANICS
- DRO = TPH AS DIESEL-RANGE ORGANICS

SOIL DISPOSAL CATEGORY

- APPROXIMATE EXTENT OF CATEGORY 3 SOIL

A B
2
1
SAMPLING GRID

- BGS = BELOW GROUND SURFACE
- **BOLD** = INDICATES CONCENTRATIONS EXCEEDING WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION METHOD A CLEANUP LEVELS
- < = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT
- -- = NOT ANALYZED
- * = SAMPLE DEPTH UNKNOWN
- ALL LOCATIONS ARE APPROXIMATE

0 30
Scale in feet

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FIGURE 13

SOIL ANALYTICAL RESULTS
AND DISPOSAL CATEGORY 8-12' BGS
FORMER SHOP BUILDING UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

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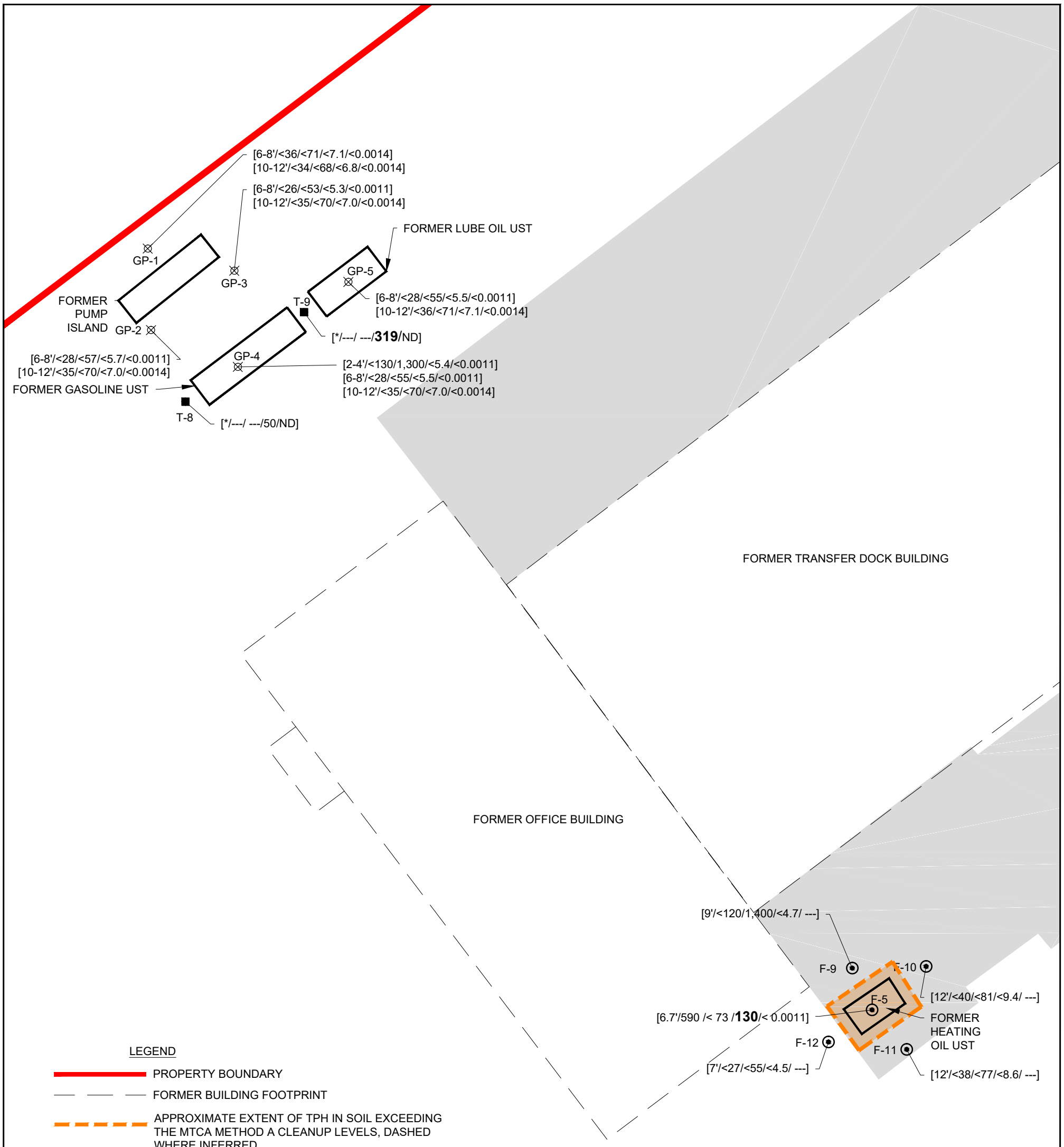

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FIGURE 14

SOIL ANALYTICAL RESULTS
AND DISPOSAL CATEGORY 4-8' BGS
FORMER NORTHWEST UST AREA
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: DJR | Checked By: DLM/DEW | Date: 11/2/2015 | Disk Reference: 1071-010_01D.DWG

APPENDIX E
UNDERGROUND STORAGE TANK DECOMMISSIONING DOCUMENTS

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

September 2016 - Diesel UST Decommissioning

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TECHNICAL MEMORANDUM

TO: Janet Frentzel – Georgetown Crossroads, LLC

FROM: Kenneth Scott, Project Scientist
Donald Lance, L.G., L.H.G., Senior Geologist
Scott Allin, R.E.P.A., Principal Environmental Scientist

DATE: October 20, 2016

RE: **SITE ASSESSMENT FOR UST DECOMMISSIONING**
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON
FARALLON PN: 1071-010

Farallon Consulting, L.L.C. (Farallon) has prepared this Technical Memorandum to summarize the results from the underground storage tank (UST) decommissioning and site assessment activities conducted September 6 through 9, 2016 for a 20,000-gallon diesel fuel UST at the Georgetown Crossroads, LLC property at 6050 East Marginal Way South in Seattle, Washington (herein referred to as the Property) (Figure 1). The UST was registered in the Washington State Department of Ecology (Ecology) Regulated UST Database (UST Database)[1] as UST No. 11012. The Property has been identified by Ecology as Facility Site No. 54757868 and Cleanup Site No. 6262, and is known as the Former Consolidated Freightways Property.

BACKGROUND

The Property is east of the intersection of East Marginal Way and State Route 509 and consists of King County Tax Parcel No. 536720-4646, which totals 13.72 acres of land currently covered entirely by asphaltic pavement and concrete surfaces. No aboveground structures are present on the Property. The Property operated as a trucking terminal owned by Consolidated Freightways, Inc. (Consolidated Freightways) from approximately 1960 to 2003, and included an office and transfer dock building on the northern portion of the Property, and a shop building with maintenance support facilities on the southern portion of the Property. Properties in the general vicinity are zoned for industrial and commercial uses.

Consolidated Freightways installed the diesel fuel UST on the Property in 1998 for use in refueling haul trucks. The UST and associated product supply lines were constructed of double-walled reinforced fiberglass, and included the most-current leak-detection, spill prevention, and overfill-

[1]Washington State Department of Ecology Toxics Cleanup Program Web Reporting, UST Site/Tank Data Summary: https://fortress.wa.gov/ecy/tcpwebreporting/report.aspx.

prevention features available at the time of installation. The most-recent status of the UST reported in the UST Database identified the tank as temporarily closed in 2003, which coincides with the time of cessation of Consolidated Freightways operations on the Property. The diesel dispenser for the UST was located at the northern end of the shop building, and was decommissioned by others during demolition of the shop building in 2003. The approximate location of the former diesel dispenser is depicted on Figure 2.

Several previous generations of USTs were used on the Property and subsequently decommissioned. Releases of petroleum hydrocarbons to soil and groundwater related to the use of these USTs have been reported. A summary of previous investigations and remedial actions conducted on the Property is provided in the *Remedial Investigation, Focused Feasibility Study, and Cleanup Action Plan, 6050 East Marginal Way South Property, Seattle, Washington* dated February 11, 2016, prepared by Farallon (RI/FFS/CAP). Additional remedial actions will be conducted during redevelopment of the Property in 2017.

UST DECOMMISSIONING

The UST decommissioning services were provided by Wyser Construction Company, Inc. of Snohomish, Washington (Wyser). Mr. Michael Redford of Wyser served as the Washington State UST Decommissioning Supervisor (Certification No. ICC00061806). The decommissioning activities were conducted in accordance with the UST regulations established in Chapter 173-360 of the Washington Administrative Code. Mr. Kenneth Scott of Farallon served as the Washington State UST Site Assessor (Certification No. 1042927). The site assessment was conducted in accordance with the Ecology *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* dated February 1991, revised April 2003 (Ecology Guidance Document).

Farallon initiated the UST decommissioning process by submitting a 30-Day Notice for USTs (30-Day Notice) to Ecology on June 8, 2016 to provide notification of plans to decommission the UST. Wyser obtained a Commercial Tank Removal/Decommissioning permit (Decommissioning Permit) from the Fire Marshal's Office of the Seattle Fire Department on September 6, 2016. Copies of the 30-Day Notice and the Decommissioning Permit are provided in Attachment A.

The UST decommissioning field activities were conducted from September 6 through 9, 2016. The activities are summarized below by date. Select field photographs are provided in Attachment B.

SEPTEMBER 6, 2016

- Wyser mobilized to the Property and set up an exclusion zone around the excavation area (Photograph 1). Wyser initiated the excavation work by breaking up and removing the concrete pad and surrounding asphaltic pavement overlying the UST. The concrete pad measured approximately 19 feet in width, 46 feet in length, and 1.5 feet in thickness. The broken concrete and pavement were loaded into dump trucks and transported off the Property for recycling. Wyser applied air pressure to the product supply lines at the former diesel dispenser location to transfer any residual diesel fuel in the lines back into the UST.

- Marine Vacuum Services, Inc. of Seattle, Washington (Mar-Vac) performed a triple-rinse cleaning of the UST interior, and removed approximately 100 gallons of wash water, which was transported off the Property for disposal. A copy of the Mar-Vac UST Pump and Rinse Certificate is provided in Attachment A.
- Sound Testing, Inc. of Seattle, Washington (Sound Testing) provided a certified Marine Chemist to assess the internal atmosphere of the UST in preparation for removal. Sound Testing issued Marine Chemist Certificate No. 46755 confirming that the UST was safe for excavation, transport, and demolition. A copy of the certificate is provided in Attachment A. Inerting of the UST atmosphere was not required. An inspector from the Seattle Fire Department was present to confirm that the requirements of the Decommissioning Permit were met, and provided authorization for the UST removal.
- Wyser completed the uncovering of and excavating around the UST, removed all connections and hold-down straps, and lifted the UST from the excavation for inspection and opening (Photographs 2 through 5). No evidence of damage to or deterioration of the UST was observed.
- Farallon conducted field-screening of soil during the excavation process. No evidence of soil staining, sheen, or petroleum-like odors was noted. Concentrations of volatile organic compounds exceeding background concentrations, as measured using a photoionization detector, were not detected. Following removal of the UST, groundwater was observed in the excavation at a depth of 6.5 feet below the surrounding pavement surface (bps). No petroleum-like sheen was observed on the groundwater.

SEPTEMBER 7, 2016

Farallon collected site assessment soil samples from the four sidewalls of the excavation at a depth of 6.5 feet bps, and from the bottom of the excavation at a depth of 13 feet bps. All soil samples were obtained from the excavation using the track hoe excavator; the samples for analysis were collected directly from the track hoe bucket. The soil sampling and analytical results are discussed below.

In-place soil observed in the excavation sidewalls beneath the concrete pad consisted of the following:

- Silty sand with gravel fill at depths of 1.5 to 2.5 feet bps;
- Silty sand at depths of 2.5 to 7.0 feet bps;
- Silt at depths of 7.0 to 8.0 feet bps; and
- Silty sand at depths of 8.0 to 13.0 feet bps.

Wyser used the track hoe to break the UST into pieces, (Photograph 6), which were loaded into a dump truck and transported off the Property for disposal as solid waste. Before backfilling, Wyser placed a lining of plastic sheeting along the western and southern sidewalls of the open excavation. The lining will provide a visual marker to define the boundaries of the former location of the UST during the remedial excavation that will be conducted in conjunction with Property redevelopment.

Wyser began backfilling by placing quarry spalls to a height of approximately 2 feet above the groundwater level, and then placed and compacted structural fill imported from the Seattle facility of aggregate supplier Glacier Northwest (Photograph 7). The original UST fill material, which consisted primarily of clean pea gravel removed during the UST uncovering, was returned to the excavation for use as structural fill.

SEPTEMBER 8 AND 9, 2016

Wyser completed the placement and compacting of structural backfill, placed and compacted 1.5 feet of crushed base-course gravel flush with the pavement surface (Photograph 8), and completed cleanup and demobilization activities.

SITE ASSESSMENT SOIL SAMPLING AND ANALYSIS

Discrete soil samples were collected from the UST excavation to meet the site assessment soil sampling requirements of the Ecology Guidance Document. Samples were collected from the north, east, south, and west sidewalls at a depth of 6.5 feet bps, and from the UST bottom at a depth of 13 feet bps. The locations are depicted on Figure 2.

Site assessment soil samples were not collected from beneath the former diesel dispenser or product supply lines (Figure 2). Those areas will be excavated and sampled during a remedial excavation that will be conducted in conjunction with redevelopment of the Property in 2017, discussed in the RI/FFS/CAP.

The site assessment soil samples were submitted to OnSite Environmental Inc. of Redmond, Washington for analysis for the analytes listed in Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Table 830-1 as requiring testing for diesel releases, as follows:

- Total petroleum hydrocarbons as diesel-range organics (DRO) and as oil-range organics (ORO) using Northwest Method NWTPH-Dx;
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) Method 8021B; and
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) and total naphthalenes by EPA Method 8270D/SIM.

The analytical results for DRO, ORO, BTEX, and total naphthalenes are summarized in Table 1. Analytical results for DRO, ORO, and benzene at each site assessment sample location are shown on Figure 2. The laboratory analytical report is provided in Attachment C.

DRO, BTEX, and cPAHs were not detected at concentrations exceeding laboratory practical quantitation limits (PQLs) in the soil samples analyzed. ORO was detected at a concentration exceeding the laboratory PQL, but less than the MTCA Method A cleanup level, in the sample collected from the west sidewall of the excavation. ORO was not detected at a concentration exceeding the laboratory PQL in the other soil samples collected from the excavation. Both

1-methynaphthalene and 2-methylnaphthalene were detected at concentrations exceeding the laboratory PQLs, but less than the MTCA Method A cleanup level for total naphthalenes, in the sample collected from the north sidewall of the excavation. Naphthalenes were not detected at concentrations exceeding laboratory PQLs in the other soil samples collected from the excavation.

Groundwater in the UST excavation stabilized at a level of 6.5 feet bps. Groundwater at the Property is tidally influenced and can vary throughout each day depending on the tidal cycle. No petroleum-like sheen was observed on groundwater. Groundwater samples were not collected during the decommissioning of the UST because previous groundwater investigations identified the nature and extent of petroleum hydrocarbons in groundwater from historical releases from former USTs on the Property, as discussed in the RI/FFS/CAP. Additional evaluation of groundwater will be conducted in conjunction with redevelopment of the Property in 2017.

UST CLOSURE DOCUMENTATION

The results from the UST decommissioning process described in this Technical Memorandum confirm that the 20,000-gallon diesel fuel UST has been permanently decommissioned by removal. No evidence of petroleum hydrocarbon contamination was noted during the field-screening of soil at the time of the UST excavation, or observed on groundwater in the excavation following removal of the UST. Results from the site assessment soil sampling and analysis indicate that diesel-related petroleum hydrocarbon constituents either were not detected at concentrations exceeding MTCA Method A cleanup levels, or were not detected at concentrations exceeding laboratory PQLs.

The following Ecology forms have been completed and signed by the applicable individuals to confirm completion of Ecology requirements for properly decommissioning the UST:

- *Permanent Closure Notice for Underground Storage Tanks*; and
- *Site Check/Site Assessment Checklist for Underground Storage Tanks*.

Copies of these forms are provided in Attachment A.

Farallon trusts that the information provided in this Technical Memorandum meets your and Ecology needs for UST decommissioning and site assessment reporting. Please contact Donald Lance at (425) 295-0800 if you have questions or require additional information.

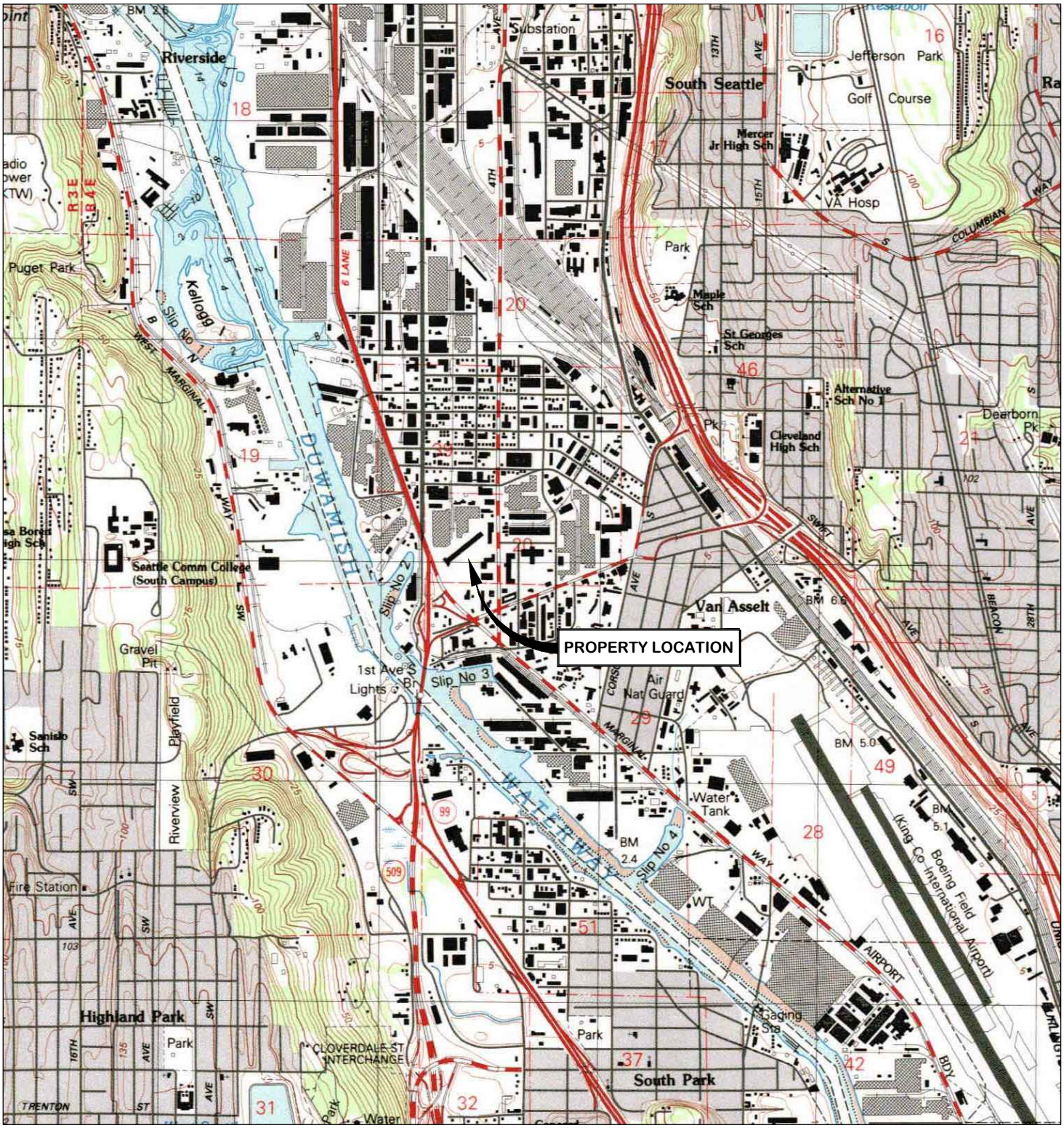
Attachments: Figure 1, *Property Vicinity Map*
Figure 2, *UST Site Assessment Soil Analytical Results for Petroleum Hydrocarbons*
Table 1, *Summary of Soil Analytical Results for TPH, BTEX, and Total Naphthalenes*
Attachment A, UST Decommissioning Documentation
Attachment B, Photographs
Attachment C, Laboratory Analytical Report

KS/DML/SA:bjj

FIGURES

SITE ASSESSMENT FOR UST DECOMMISSIONING
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010



REFERENCE: 7.5 MINUTE USGS QUADRANGLE SEATTLE, WASHINGTON. DATED 1983

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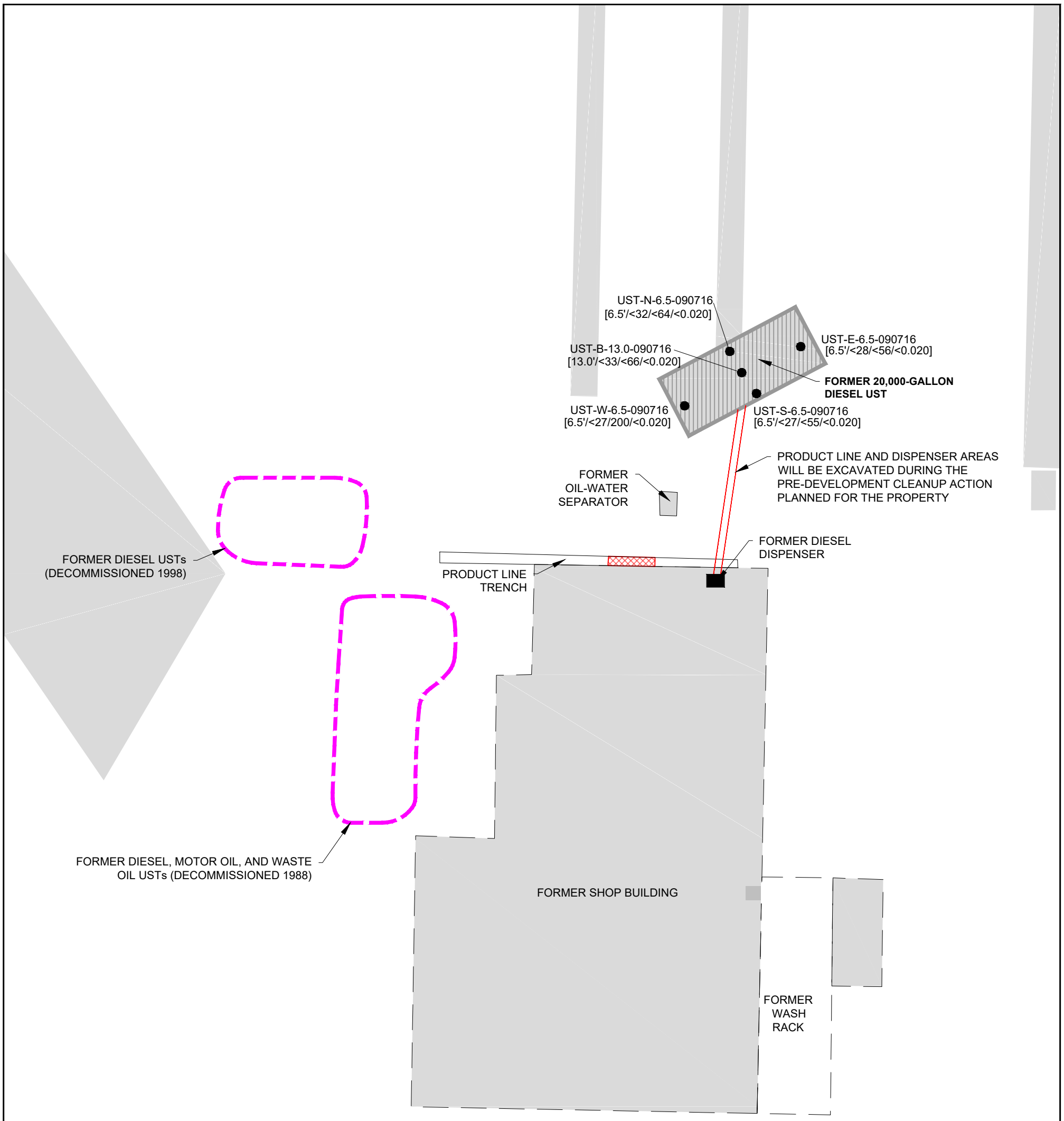
FIGURE 1

PROPERTY VICINITY MAP
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: DJR | Checked By: DLM | Date: 12/1□/2015 | Disk Reference: 1071-010_A.dwg



LEGEND

PRODUCT LINE

UST-N-6.5-090716 ● SITE ASSESMENT SOIL SAMPLE LOCATION

[6.5/<32/<64/<0.020] SOIL ANALYTICAL RESULT [DEPTH/DRO/ORO/B]

SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)

DEPTH IN FEET BELOW GROUND SURFACE

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

B = BENZENE

< = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT

CONCRETE SURFACES

FORMER FUEL LINE LEAK AREA

LIMITS OF UNDERGROUND STORAGE TANK (UST) EXCAVATION

FORMER UST

ALL LOCATIONS ARE APPROXIMATE

0 30
Scale in feet

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FIGURE 2

UST SITE ASSESSMENT SOIL ANALYTICAL RESULTS FOR PETROLEUM HYDROCARBONS
6050 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

FARALLON PN: 1071-010

Drawn By: DJR Checked By: DLM Date: 9/29/2016 Disk Reference: 1071-010_E.DWG

TABLE

SITE ASSESSMENT FOR UST DECOMMISSIONING
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

Table 1
Summary of Soil Analytical Results for TPH, BTEX, and Total Naphthalenes
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (milligrams per kilogram)							
				DRO[2]	ORO[2]	GRO	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Total Naphthalenes[4]
UST North Sidewall	UST-N-6.5-090716	6.5	09/07/2016	<32	<64	---	<0.020	<0.092	<0.092	<0.184	0.4487
UST West Sidewall	UST-W-6.5-090716	6.5	09/07/2016	<27	200	---	<0.020	<0.052	<0.052	<0.104	<0.0107
UST South Sidewall	UST-S-6.5-090716	6.5	09/07/2016	<27	<55	---	<0.020	<0.050	<0.050	<0.100	<0.0110
UST East Sidewall	UST-E-6.5-090716	6.5	09/07/2016	<28	<56	---	<0.020	<0.056	<0.056	<0.112	<0.0113
UST Bottom	UST-B-13.0-090716	13.0	09/07/2016	<33	<66	---	<0.020	<0.079	<0.079	<0.158	<0.0131
MTCA Method A Cleanup Levels[5]				**2,000**	**2,000**	**100**	**0.03**	**7**	**6**	**9**	**5**

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

--- Denotes sample not analyzed.

[1]Depth in feet below surrounding pavement surface.

[2]Analyzed by Northwest Method NWTPH-Dx.

[3]Analyzed by U.S. Environmental Protection Agency (EPA) Method 8021B.

[4]Analyzed by EPA Method 8270D/SIM.

[5]MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

GRO = TPH as gasoline-range organics

MTCA = Washington State Model Toxics Control Act Cleanup Regulation

ORO = TPH as oil-range organics

total naphthalenes = sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene

ATTACHMENT A
UST DECOMMISSIONING DOCUMENTATION

SITE ASSESSMENT FOR UST DECOMMISSIONING
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

DEPARTMENT OF ECOLOGY
State of Washington

30-DAY NOTICE
FOR UNDERGROUND STORAGE TANKS

UST ID #: 11012
County: King

This form provides Ecology 30-days' advanced notice for the following projects, as required by Chapter 173-360 WAC.
Instructions are found on the back page.

Please ✓ the appropriate box: ☐ Intent to Install ☒ Intent to Close ☐ Change-in-Service

I. SITE INFORMATION		II. OWNER/OPERATOR INFORMATION	
Tag or UBI # (if applicable):		Owner/Operator Name:	Georgetown Crossroads, LLC
UST ID # (if applicable):	11012	Business Name:	c/o Janet Frentzel
Site Name:	Former Consolidated Freightways	Mailing Address:	Pier 1, Bay 1
Site Address:	6050 East Marginal Way S.	City:	San Francisco State: CA Zip: 94111
City:	Seattle	Phone:	415-394-9000
Phone:	None	Email:	jfrentzel@prologis.com

III. CERTIFIED SERVICE PROVIDER(S)

Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.

Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.

1) ☐ Installer ☒ Decommissioner ☐ Site Assessor

Company Name:	Wyser Construction Co., Inc.	Certification Type:	ICC UST Decommissioner
Service Provider Name:	Mike Redford	Cert. No.: ICC00061806	Exp. Date: 3/14/2017
Provider Phone:	425-742-0898	Provider Email:	darren@wyserdirt.com

2) ☐ Installer ☐ Decommissioner ☒ Site Assessor

Company Name:	Farallon Consulting LLC	Certification Type:	ICC Wash. Site Assessment
Service Provider Name:	Ryan Ostrom	Cert. No.: ICC00241793	Exp. Date: 10/7/2017
Provider Phone:	425-295-0800	Provider Email:	rostrom@farallonconsulting.com

IV. TANK INFORMATION

TANK ID	SUBSTANCE STORED	TANK CAPACITY	DATE PROJECT IS EXPECTED TO BEGIN	COMMENTS
11012	Diesel	20,000 gal	8/15/2016	

TUES 9/6/16 11:00

RECEIVED
AUG 25 2016
PERMIT SECTION

Your Seattle Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908 — **Commercial Tank Removal/Decommissioning**

Permit Fee: $218.00

Date Issued: 9-6-16

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME WYSER Construction Co., Inc.		
MAILING ADDRESS 19015 109th Avenue SE		SUITE
CITY Snohomish	STATE WA	ZIP 98296
JOBSITE ADDRESS 6050 East Marginal Way South		
CONTACT PERSON ~~Darren Ness~~ MIKE	PHONE NUMBER (425) 742.0898	206-396-1185

Number of Tank(s): 1 Tank Size(s): 20,000-gallon ☐ Aboveground tank

Product(s) Previously Contained: Diesel ☒ Underground tank

☒ Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)

☐ Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)

Hot work being conducted: ☐ No ☒ Yes (If yes, a separate hot work permit is required)

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office – Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: *Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)*

FMO USE:
CC Check No.: 7730825 16
Receipt No.: 5-265349
Application ID#: 106338

APPROVED BY:
Inspector: S. MARCUS SFD ID# 1372
Name of Marine Chemist SCHMIDT Certificate # 711
Date: 9-6-16

(01/16)

COMMERCIAL TANK REMOVAL/DECOMMISSIONING PERMIT CONDITIONS

1. Two (2) portable fire extinguishers each having a minimum rating of 40 BC shall be on site within 50 feet of the operation. Fire extinguishers shall be inspected, approved and certified annually.

2. Rope or ribbon barricades located at least 10 feet from the tank shall surround every outdoor storage tank removal or decommissioning operation or the operation shall be enclosed in a fenced yard.

3. "No Smoking" signs shall be posted in readily visible locations.

4. No hot work is allowed on a tank system prior to issuance of this permit and the tank is certified "Safe for Hot Work" by a Certified Marine Chemist. Hot work means any activities involving riveting, welding, burning, brazing, soldering, heating, chopping, grinding, ripping, drilling, cutting with a chop saw or "Sawzall", abrasive blasting, use of powder-actuated tools or similar spark-producing operations, crushing or mechanically shearing to facilitate opening for cleaning, disposal, scrapping for recycling purposes.

5. A separate temporary Seattle Fire Department permit (Code 4913) or a validation number assigned in conjunction with an annual hot work permit (Code 4911 or 4912) is required prior to any hot work operations.

6. Permits may cover multiple tanks located at the same address. If additional tanks are to be removed or abandoned at later dates, separate permits shall be obtained. Each address location requires a separate permit application regardless of whether multiple address locations are physically next to one another.

7. Additional fees will be charged if inspectors are required to work other than normal business hours. (Normal business hours are Monday through Friday, 8:00 a.m. to 4:30 p.m.)

8. No excavation of an underground tank is permitted prior to inspection by the Seattle Fire Marshal's Office.
   Exception: Removal of the top layer of asphalt or concrete only with no removal of dirt, pea gravel or soil over the underground storage tank. Further excavation may be allowed by a Seattle Fire Department Special Hazards Unit Inspector prior to the initial inspection depending on conditions and if the tank has been inerted by a Marine Chemist who is present on site. The name of the inspector and the time permission was given shall be made available at time of inspection.

9. Prior to inspection, to ensure tanks and connected piping are completely free of all flammable or combustible liquids, a receipt or certificate must be on site indicating the tanks have been pumped and rinsed by an approved company. Product and rinse water must be disposed of in an approved manner.

10. For tanks being decommissioned in place that previously contained Class I liquids, a Certified Marine Chemist certificate must be issued and available on site for inspection certifying that the tank has been properly inerted prior to filling.

11. No tank shall be filled prior to an inspection by the Seattle Fire Marshal's Office.

12. Tanks being decommissioned in place must be filled with a lean concrete mixture. Filling with foam is prohibited.

13. A Marine Chemist's certificate verifying the tank has been properly inerted or is otherwise certified "Safe for Hot Work" shall be issued and available on site for inspection for each underground and aboveground tank being removed regardless of the product previously contained.

14. If tanks are being removed, the tanks' atmosphere must be inert using one of the following approved methods:
    - Dry ice (pellets or chunks of solid CO_2). Minimum 40 lbs per 1000 gallons of tank capacity is recommended.
    - Compressed CO_2 gas in cylinders (Note: This method may only be performed by a Certified Marine Chemist).
    - Purging with air (gas-freeing) using Venturi tube apparatus, with proper bonding and grounding and after the tank has been pumped and rinsed by an approved company.

15. A maximum reading of less than 6% of oxygen must be obtained prior to the removal of the tanks if CO_2 or another inert gas, as approved by the Marine Chemist, is used to inert the tank or, a reading of 0% LEL must be obtained prior to removal of the tank if the air-purging (Venturi air moving devices) method is used.

16. All local, state and federal regulations for confined space entry shall be complied with prior to entering an underground storage tank.

17. Tanks with baffles to prevent movement of liquid must be certified gas-freed or inerted by a Certified Marine Chemist or a Petroleum Industry Safety Engineer regularly engaged in that business prior to removal.

18. Tanks being removed must be removed from the site and relocated to a remote, approved facility on the same day that the permit is issued.

19. During the hot work operations, digging, excavating, hauling or transport of petroleum storage tanks that have not been cleaned and gas-freed, tanks must be inerted to less than 6% oxygen. All openings are to be cap closed and secured except for one 1/8" hole drilled through a cap. These tanks are to be sprayed painted with "INERTED, DO NOT ENTER" or "INERTED WITH CO_2, NOT SAFE FOR WORKERS".

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR

CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size: 20,000 GAL Diesel

Last Contents Empty Diesel Tank

Tank Location: 6050 MARGINAL Way
Seattle WA.

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are **NOT GAS FREE** or **NOT SAFE FOR HOT WORK**

Tank Owner: _____

Contractor: WYSER

M.V.S. Representative: _____

Date: 9-6-2016

Notes:

This Memorandum is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 024155

Carrier No. # 126

Page _____ of _____

MARINE VACUUM SERVICE, INC

(Name of carrier) (SCAC)

Date 9-6-16

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee MARINE VACUUM SERVICE, INC
Street 1516 S. GRAHAM ST
City SEATTLE State WA Zip Code 98108

FROM:
Shipper WASER CONSTRUCTION
Street 6050 E. Marginal Way
City Seattle State WA Zip Code

24 hr. Emergency Contact Tel. No. 800-640-7401

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 TT		Pump Wash 3x pit Rinse Empty Tank waste Washwater →	100	6 LL		

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER _____

PER X _____

CARRIER MARINE VACUUM SERVICE, INC

PER _____

DATE 9-6-16

4

Permanent post-office address of shipper.

SOUND TESTING, INC.
P.O. BOX 16204 SEATTLE, WA 98116
(206) 932-0206 FAX (206) 937-3848
WWW.SOUNDTESTINGINC.COM

MARINE CHEMIST CERTIFICATE

SERIAL Nº 46755

Wyser Const.	Wyser Const.	9/6/2016
Survey Requested by	Vessel Owner or Agent	Date
ULST (20k gallon) - Fiberglass	ULST	6050 E. Marginal Wy
Vessel	Type of Vessel	Specific Location of Vessel
Diesel Fuel (3x)	O_2, LEL, H_2S, CO, VOCs, VISUAL	11:00 am.
Last Three (3) Loadings	Tests Performed	Time Survey Completed

L 20.6% O_2, 0% LEL, 2 ppm H_2S, 2 ppm CO, 9 ppm VOCs in Village)

Tank Stripped - Min. Residual.
- + 3x Rinsed -

* Tank may be safely excavated & transported & demolish *

- Not Safe for Workers -
(No Entry Applies).

- Not Safe for Hot Work -
(No burning / welding applies)

In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

ATMOSPHERE SAFE FOR WORKERS means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

SAFE FOR HOT WORK means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or locked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."

Signed _____ Name _____ WYSER Company 9-6-16 Date

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed _____ Marine Chemist _____ Certificate No.

POSTING

DEPARTMENT OF ECOLOGY
State of Washington

PERMANENT CLOSURE NOTICE
FOR UNDERGROUND STORAGE TANKS

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.

UST ID #: 11012

County: King

I. UST FACILITY	II. OWNER/OPERATOR INFORMATION
Facility Compliance Tag #:	Owner/Operator Name: Georgetown Crossroads, LLC
UST ID #: 11012	Business Name: c/o Janet Frentzel
Site Name: Former Consolidated Freightways	Address: Pier 1, Bay 1
Site Address: 6050 East Marginal Way South	City: San Francisco State: CA Zip: 94111
City: Seattle	Phone: 415.394.9000
Phone: N/A	Email: jfrentzel@prologis.com

III. CERTIFIED UST DECOMMISSIONER

Company Name: WYSER Construction Co., Inc.	Service Provider Name: Mike Redford
Address: 19015 109th Avenue SE	Certification Type: ICC UST Decommissioner
City: Snohomish State: WA Zip: 98296	Cert. No.: ICC00061806 Exp. Date: 3/14/07
Provider Phone: 425.742.0898	Provider Email: darren@wyserdirt.com
Provider Signature: Mike Redford	***Date:*** 9-13-16

IV. TANK INFORMATION

TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	CLOSURE METHOD			CLOSURE DATE
			removal	closed-in-place	change-in-service	
11012	20,000 gallon	diesel	☒	☐	☐	9/7/16
			☐	☐	☐	
			☐	☐	☐	
			☐	☐	☐	
			☐	☐	☐	
			☐	☐	☐	

V. REQUIRED SIGNATURE

Signature acknowledges UST(s) comply with UST regulation WAC 173-360-380 Permanent Closure Requirements.

Date	Signature of Tank Owner/Operator or Authorized Representative	Print or Type Name
9/14/16	Janet K. Frentzel	Janet K. Frentzel

ECY 020-94 (October 2015)

PERMANENT CLOSURE NOTICE
FOR UNDERGROUND STORAGE TANKS

INSTRUCTIONS

This form must be completed and submitted **within thirty days of completing** permanent closure activities to the following address:

Dept. of Ecology
UST Section
PO Box 47655
Olympia, WA 98504-7655

I./II. UST Facility and Owner/Operator: Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number. If all tanks at the site are permanently closed, the facility compliance tag must be returned with this notice.

III. UST Decommissioner: It is the responsibility of the ICC-certified Decommissioner to follow proper tank closure procedures in accordance with WAC 173-360-375. The Decommissioner signature certifies these procedures were followed.

IV. Tank Information: Use the same Tank IDs that are listed on the facility's Business License. List the last substance stored in each tank, the tank sizes, the method by which the tank is being closed, and the date closure activities were conducted. All closure methods require a site assessment be conducted in accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*.

V. Required Signature: The owner and/or operator's signature is required. Also, the owner and/or operator is responsible for reporting confirmed releases to Ecology within 24 hours.

All confirmed releases must be reported to Ecology by the owner immediately and by service providers within 72 hours of the discovery of the condition. If the owner or operator is not immediately available, the report should be made directly to Ecology.

Be sure to contact your local fire marshal and other local jurisdictions. They may have other codes and regulations that apply to a permanent tank closure.

Further questions? *Please contact your regional office below and ask for a tank inspector to assist you.*

Regional Office	Counties Served
Central (509) 575-2490	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima
Eastern (509) 329-3400	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman
HQ (360) 407-7170	Federal facilities in Western Washington
Northwest (425) 649-7000	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom
Southwest (360) 407-6300	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

or find a complete list of UST inspectors at:
www.ecy.wa.gov/programs/tcp/ust-lust/people.html

UST ID #: _____

County: _____

SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.

State of Washington

I. UST FACILITY		II. OWNER/OPERATOR INFORMATION		
Facility Compliance Tag #: Not known		Owner/Operator Name: Georgetown Crossroads, LLC		
UST ID #: 11012		Business Name: c/o Ms. Janet Frentzel		
Site Name: Former Consolidated Freightways Seattle		Address: Pier 1, Bay 1		
Site Address: 6050 East Marginal Way South		City: San Francisco	State: CA	Zip: 94111
City: Seattle		Phone: 415-394-9000		
Phone: None		Email: jfrentzel@prologis.com		

III. CERTIFIED SITE ASSESSOR				
Service Provider Name: Kenneth Scott		Company Name: Farallon Consulting, L.L.C.		
Cell Phone: 425-765-1134	Email: kscott@farallonconsulting.com	Address: 975 5th Avenue NW		
Certification #: 1042927	Exp. Date: 4/16/2018	City: Issaquah	State: WA	Zip: 98027

IV. TANK INFORMATION

TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
11012	20,000 gallons	Diesel	9/7/2016

V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)

☐ Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).

☐ Release investigation following a failed tank and/or line tightness test.

☐ Release investigation following discovery of contaminated soil and/or groundwater.

☐ Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.

☐ UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).

☐ Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.

☒ Other (describe): UST decommissioning by removal in conjunction with Property redevelopment.

VI. CHECKLIST

The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*.	YES	NO
1. The location of the UST site is shown on a vicinity map.	☒	☐
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	☒	☐
3. A summary of UST system data is provided (Section 3.1)	☒	☐
4. The soils characteristics at the UST site are described. (Section 5.2)	☒	☐
5. Is there any apparent groundwater in the tank excavation?	☒	☐
6. A brief description of the surrounding land use is provided. (Section 3.1)	☒	☐
7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	☒	☐
8. The following items are provided in one or more sketches:		
• Location and ID number for all field samples collected	☒	☐
• If applicable, groundwater samples are distinguished from soil samples	☐	☒
• Location of samples collected from stockpiled excavated soil	☐	☒
• Tank and piping locations and limits of excavation pit	☒	☐
• Adjacent structures and streets	☒	☐
• Approximate locations of any on-site and nearby utilities	☒	☐
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	☒	☐
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	☒	☐
11. Any factors that may have compromised the quality of the data or validity of the results are described.	☒	☐
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	☐	☒

VII. REQUIRED SIGNATURES

Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.

Kenneth Scott	Kenneth A. Scott	9/16/2016
Print or Type Name	Signature of Certified Site Assessor	Date

SITE CHECK/SITE ASSESSMENT CHECKLIST
FOR UNDERGROUND STORAGE TANKS

INSTRUCTIONS

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or "change-in-service" of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted **within thirty days of completing** these activities to the following address:

Dept. of Ecology
UST Section
PO Box 47655
Olympia, WA 98504-7655

I./II. UST Facility and Owner/Operator Information: Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.

III. Service Provider Information: It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology's *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*.

IV. Tank Information: Use the same Tank identification numbers listed on the facility's Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.

V. Required Signature: The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

Further questions? *Please contact your regional office below and ask for a tank inspector to assist you.*

Regional Office	Counties Served
Central (509) 575-2490	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima
Eastern (509) 329-3400	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman
HQ (360) 407-7170	Federal facilities in Western Washington
Northwest (425) 649-7000	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom
Southwest (360) 407-6300	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

or find a complete list of UST inspectors at:
www.ecy.wa.gov/programs/tcp/ust-lust/people.html

ATTACHMENT B
PHOTOGRAPHS

SITE ASSESSMENT FOR UST DECOMMISSIONING
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

PHOTOGRAPHS

Site Assessment for UST Decommissioning
6050 East Marginal Way South
Seattle, Washington
Farallon PN: 1071-010

Photograph 1: Concrete pad overlying the underground storage tank (UST) prior to start of excavation, looking west.

Photograph 2: Partial excavation of northern side of UST hold, looking west.

Photograph 3: Uncovered UST floating on groundwater following removal of hold-down straps, looking west.

Photograph 4: Southern side of removed UST.

Photograph 5: Bottom of removed UST.

Photograph 6: Track hoe breaking up the UST for disposal.

Photograph 7: Partially backfilled UST excavation, looking southwest.

Photograph 8: Completed surface of backfilled and compacted UST excavation, looking south.

Photograph 1: Concrete pad overlying the underground storage tank (UST) prior to start of excavation, looking west.

Photograph 2: Partial excavation of northern side of UST hold, looking west.

Photograph 3: Uncovered UST floating on groundwater following removal of hold-down straps, looking west.

Photograph 4: Southern side of removed UST.

Photograph 5: Bottom of removed UST.

Photograph 6: Track hoe breaking up the UST for disposal.

Photograph 7: Partially backfilled UST excavation, looking southwest.

Photograph 8: Completed surface of backfilled and compacted UST excavation, looking south.

ATTACHMENT C
LABORATORY ANALYTICAL REPORT

SITE ASSESSMENT FOR UST DECOMMISSIONING
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2016

Don Lance
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 1071-010
Laboratory Reference No. 1609-080

Dear Don:

Enclosed are the analytical results and associated quality control data for samples submitted on September 8, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

Case Narrative

Samples were collected on September 7, 2016 and received by the laboratory on September 8, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

BTEX by EPA 8021B Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

BTEX
EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-N-6.5-090716**					
Laboratory ID:	09-080-01					
Benzene	**ND**	0.020	EPA 8021B	9-9-16	9-9-16	
Toluene	**ND**	0.092	EPA 8021B	9-9-16	9-9-16	
Ethyl Benzene	**ND**	0.092	EPA 8021B	9-9-16	9-9-16	
m,p-Xylene	**ND**	0.092	EPA 8021B	9-9-16	9-9-16	
o-Xylene	**ND**	0.092	EPA 8021B	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*68-129*				
Client ID:	**UST-W-6.5-090716**					
Laboratory ID:	09-080-02					
Benzene	**ND**	0.020	EPA 8021B	9-9-16	9-12-16	
Toluene	**ND**	0.052	EPA 8021B	9-9-16	9-12-16	
Ethyl Benzene	**ND**	0.052	EPA 8021B	9-9-16	9-12-16	
m,p-Xylene	**ND**	0.052	EPA 8021B	9-9-16	9-12-16	
o-Xylene	**ND**	0.052	EPA 8021B	9-9-16	9-12-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*68-129*				
Client ID:	**UST-S-6.5-090716**					
Laboratory ID:	09-080-03					
Benzene	**ND**	0.020	EPA 8021B	9-9-16	9-12-16	
Toluene	**ND**	0.050	EPA 8021B	9-9-16	9-12-16	
Ethyl Benzene	**ND**	0.050	EPA 8021B	9-9-16	9-12-16	
m,p-Xylene	**ND**	0.050	EPA 8021B	9-9-16	9-12-16	
o-Xylene	**ND**	0.050	EPA 8021B	9-9-16	9-12-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*68-129*				
Client ID:	**UST-E-6.5-090716**					
Laboratory ID:	09-080-04					
Benzene	**ND**	0.020	EPA 8021B	9-9-16	9-12-16	
Toluene	**ND**	0.056	EPA 8021B	9-9-16	9-12-16	
Ethyl Benzene	**ND**	0.056	EPA 8021B	9-9-16	9-12-16	
m,p-Xylene	**ND**	0.056	EPA 8021B	9-9-16	9-12-16	
o-Xylene	**ND**	0.056	EPA 8021B	9-9-16	9-12-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*68-129*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

BTEX
EPA 8021B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-B-13.0-090716**					
Laboratory ID:	09-080-05					
Benzene	**ND**	0.020	EPA 8021B	9-9-16	9-12-16	
Toluene	**ND**	0.079	EPA 8021B	9-9-16	9-12-16	
Ethyl Benzene	**ND**	0.079	EPA 8021B	9-9-16	9-12-16	
m,p-Xylene	**ND**	0.079	EPA 8021B	9-9-16	9-12-16	
o-Xylene	**ND**	0.079	EPA 8021B	9-9-16	9-12-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*68-129*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

BTEX
EPA 8021B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0909S1					
Benzene	**ND**	0.020	EPA 8021B	9-9-16	9-9-16	
Toluene	**ND**	0.050	EPA 8021B	9-9-16	9-9-16	
Ethyl Benzene	**ND**	0.050	EPA 8021B	9-9-16	9-9-16	
m,p-Xylene	**ND**	0.050	EPA 8021B	9-9-16	9-9-16	
o-Xylene	**ND**	0.050	EPA 8021B	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*68-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-080-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*103*	*102*	*68-129*			
SPIKE BLANKS											
Laboratory ID:	SB0909S1										
	SB	SBD	SB	SBD		SB	SBD				
Benzene	**0.980**	**1.06**	1.00	1.00		**98**	**106**	76-124	8	17	
Toluene	**0.985**	**1.06**	1.00	1.00		**99**	**106**	78-124	7	16	
Ethyl Benzene	**1.03**	**1.08**	1.00	1.00		**103**	**108**	77-123	5	17	
m,p-Xylene	**0.966**	**1.03**	1.00	1.00		**97**	**103**	78-124	6	17	
o-Xylene	**0.990**	**1.07**	1.00	1.00		**99**	**107**	76-123	8	18	
Surrogate:											
Fluorobenzene						*96*	*103*	*68-129*			

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-N-6.5-090716**					
Laboratory ID:	09-080-01					
Diesel Range Organics	**ND**	32	NWTPH-Dx	9-9-16	9-9-16	
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*112*	*50-150*				
Client ID:	**UST-W-6.5-090716**					
Laboratory ID:	09-080-02					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-9-16	9-9-16	
Lube Oil	**200**	53	NWTPH-Dx	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*116*	*50-150*				
Client ID:	**UST-S-6.5-090716**					
Laboratory ID:	09-080-03					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-9-16	9-9-16	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**UST-E-6.5-090716**					
Laboratory ID:	09-080-04					
Diesel Range Organics	**ND**	28	NWTPH-Dx	9-9-16	9-9-16	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**UST-B-13.0-090716**					
Laboratory ID:	09-080-05					
Diesel Range Organics	**ND**	33	NWTPH-Dx	9-9-16	9-9-16	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0909S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-9-16	9-9-16	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*128*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-080-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*112*	*113*	*50-150*			

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-N-6.5-090716**					
Laboratory ID:	09-080-01					
Naphthalene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
2-Methylnaphthalene	**0.0093**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
1-Methylnaphthalene	**0.0094**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]anthracene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Chrysene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[b]fluoranthene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo(j,k)fluoranthene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]pyrene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Dibenz[a,h]anthracene	**ND**	0.0086	EPA 8270D/SIM	9-9-16	9-10-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*70*	*32 - 115*				
Pyrene-d10	*74*	*30 - 124*				
Terphenyl-d14	*68*	*30 - 117*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-W-6.5-090716**					
Laboratory ID:	09-080-02					
Naphthalene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
2-Methylnaphthalene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
1-Methylnaphthalene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]anthracene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Chrysene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[b]fluoranthene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo(j,k)fluoranthene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]pyrene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Dibenz[a,h]anthracene	**ND**	0.0071	EPA 8270D/SIM	9-9-16	9-10-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*40*	*32 - 115*				
Pyrene-d10	*43*	*30 - 124*				
Terphenyl-d14	*39*	*30 - 117*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-S-6.5-090716**					
Laboratory ID:	09-080-03					
Naphthalene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
2-Methylnaphthalene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
1-Methylnaphthalene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]anthracene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Chrysene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[b]fluoranthene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo(j,k)fluoranthene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]pyrene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Dibenz[a,h]anthracene	**ND**	0.0073	EPA 8270D/SIM	9-9-16	9-10-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*32 - 115*				
Pyrene-d10	*85*	*30 - 124*				
Terphenyl-d14	*80*	*30 - 117*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-E-6.5-090716**					
Laboratory ID:	09-080-04					
Naphthalene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
2-Methylnaphthalene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
1-Methylnaphthalene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]anthracene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Chrysene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[b]fluoranthene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo(j,k)fluoranthene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]pyrene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Dibenz[a,h]anthracene	**ND**	0.0075	EPA 8270D/SIM	9-9-16	9-10-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*32 - 115*				
Pyrene-d10	*82*	*30 - 124*				
Terphenyl-d14	*77*	*30 - 117*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

PAHs EPA 8270D/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST-B-13.0-090716**					
Laboratory ID:	09-080-05					
Naphthalene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
2-Methylnaphthalene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
1-Methylnaphthalene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]anthracene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Chrysene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[b]fluoranthene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo(j,k)fluoranthene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Benzo[a]pyrene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Dibenz[a,h]anthracene	**ND**	0.0087	EPA 8270D/SIM	9-9-16	9-10-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*87*	*32 - 115*				
Pyrene-d10	*92*	*30 - 124*				
Terphenyl-d14	*85*	*30 - 117*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

PAHs EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0909S1					
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	9-9-16	9-9-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*90*	*32 - 115*				
Pyrene-d10	*93*	*30 - 124*				
Terphenyl-d14	*89*	*30 - 117*				

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

PAHs EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0909S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0750**	**0.0782**	0.0833	0.0833	90	94	61 - 112	4	15	
Benzo[a]anthracene	**0.0893**	**0.0915**	0.0833	0.0833	107	110	59 - 129	2	15	
Chrysene	**0.0881**	**0.0931**	0.0833	0.0833	106	112	60 - 122	6	15	
Benzo[b]fluoranthene	**0.0840**	**0.0902**	0.0833	0.0833	101	108	53 - 124	7	17	
Benzo(j,k)fluoranthene	**0.0893**	**0.0894**	0.0833	0.0833	107	107	58 - 124	0	16	
Benzo[a]pyrene	**0.0903**	**0.0929**	0.0833	0.0833	108	112	62 - 127	3	15	
Indeno(1,2,3-c,d)pyrene	**0.0826**	**0.0845**	0.0833	0.0833	99	101	60 - 120	2	15	
Dibenz[a,h]anthracene	**0.0835**	**0.0873**	0.0833	0.0833	100	105	60 - 117	4	15	
Surrogate:										
2-Fluorobiphenyl					*88*	*88*	*32 - 115*			
Pyrene-d10					*95*	*96*	*30 - 124*			
Terphenyl-d14					*90*	*90*	*30 - 117*			

Date of Report: September 13, 2016
Samples Submitted: September 8, 2016
Laboratory Reference: 1609-080
Project: 1071-010

% MOISTURE

Date Analyzed: 9-9-16

Client ID	Lab ID	% Moisture
UST-N-6.5-090716	09-080-01	22
UST-W-6.5-090716	09-080-02	6
UST-S-6.5-090716	09-080-03	8
UST-E-6.5-090716	09-080-04	11
UST-B-13.0-090716	09-080-05	24

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1071-010
Project Name: SOUNDER Project
Project Manager: DON LANCE
Sampled by: Ken Scott

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 09-080

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX EPA 8021B	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level) + Total Naphthalenes	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	UST-N-6.5-090716	9/7/16	955	S	2		X		X			X	X									10
2	UST-W-6.5-090716		1005	S	2		X		X			X	X									
3	UST-S-6.5-090716		1010	S	2		X		X			X	X									
4	UST-E-6.5-090716		1015	S	2		X		X			X	X									
5	UST-B-13.0-090716		1025	S	2		X		X			X	X									

	Signature	Company	Date	Time
Relinquished	Ken Scott	FARALLON	9/7/16	1645
Received			9/8/16	1130
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

March 2017 – Heating Oil UST Decommissioning

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY
Site #:_____
Facility Site ID #:_____

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
PO Box 47655
Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): _____
Site/Business Name: Former Consolidated Freightways
Site Address: 6050 Marginal Way South (Street) Telephone: (415) 394-9600
Seattle (City), Washington (State), 98108 (Zip Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
ACE METAL UST UST2 # 677332	500-gallons	Heating-oil

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

_____ Investigate suspected release due to on-site environmental contamination.
_____ Investigate suspected release due to off-site environmental contamination.
_____ Extend temporary closure of UST system for more than 12 months.
_____ UST system undergoing change-in-service.
__X__ UST system permanently closed with tank removed.
_____ Abandoned tank containing product.
_____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
_____ Other (describe): _____

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.	YES	NO
1. The location of the UST site is shown on a vicinity map.	KS	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	KS	
3. A summary of UST system data is provided. (see Section 3.1.)	KS	
4. The soils characteristics at the UST site are described. (see Section 5.2)	KS	
5. Is there any apparent groundwater in the tank excavation?		KS
6. A brief description of the surrounding land use is provided. (see Section 3.1)	KS	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	KS	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	KS	
- groundwater samples distinguished from soil samples (if applicable)	KS	NA
- samples collected from stockpiled excavated soil		KS
- tank and piping locations and limits of excavation pit	KS	
- adjacent structures and streets	KS	
- approximate locations of any on-site and nearby utilities	KS	
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	KS	
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	KS	
11. Any factors that may have compromised the quality of the data or validity of the results are described.		KS

12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.	KS	

SITE ASSESSOR INFORMATION

Kenneth Scott — Person registered with Ecology

FARALLON — Firm Affiliated with

Business Address: 975 5th Avenue NW — Street

Telephone: (425) 295-0800

Issaquah, Washington. 98027

City / State / Zip Code

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

3/27/17 — Date

Ken Scott — Signature of Person Registered with Ecology

If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK
Closure and Site Assessment Notice

See back of form for instructions

FOR OFFICE USE ONLY
Site ID #: _____
Facility Site ID #: _____

Please ✓ the appropriate box(es)
☐ Temporary Tank Closure ☐ Change-In-Service ☐ Permanent Tank Closure ☐ Site Check/Site Assessment

Site Information

Site ID Number _____
(Available from Ecology if the tanks are registered)

Site/Business Name Former Consolidated Freightways
Street

Site Address 6050 Marginal Way South

City/State Seattle, Washington

Zip Code 98108 Telephone (___) _____

Owner Information

UST Owner/Operator Georgetown Crossroads, LLC
c/o Janet Frentzel

Mailing Address Pier 1, Bay 1
Street

P.O. Box

City/State San Francisco, California

Zip Code 94111 Telephone (415) 394-9000

Owners Signature _____

Tank Closure/Change-In-Service Company

Service Company Wyser Construction Co, Inc.

Certified Supervisor Mike Redford Decommissioning Certification No. ICC00061806

Supervisor's Signature _____ Date 3/27/17

Address 19015 109th Avenue SE
Street P.O. Box

Snohomish, Washington 98296 Telephone (206) 396-1185 425-742-0898
City State Zip Code

Site Check/Site Assessor

Certified Site Assessor Ken Scott

Address 975 5th Avenue NW
Street P.O. Box

Issaquah, Washington 98027 Telephone (425) 295-0800
City State Zip Code

Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
UST2 #677332	3/27/17	Tank removed	500-gallon	Heating-Oil

Contamination Present at the Time of Closure

☒ Yes ☐ No ☐ Unknown

Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

☐ Yes ☐ No

If contamination is present, has the release been reported to the appropriate regional office?

To receive this document in an alternat ive format, contact the Toxics Cleanup Program at 360-407-7170 (voice) or 1-800-833-6388 OR 711 (TTY)

ECY 020-94 (Rev. 2-06)

PRO-17-1495

Mon 3/27/17 @ 9AM

Your
Seattle
Fire Department

RECEIVED
MAR 2 3 2016
PERMIT SECTION

APPLICATION FOR TEMPORARY PERMIT

Code 7908 **Commercial Tank Removal/Decommissioning**

Permit Fee: $255.00 **Date Issued:** 3/27/17

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME WYSER Construction Co., Inc.		
MAILING ADDRESS 19015 109th Ave SE		SUITE
CITY Snohomish	STATE WA	ZIP 98296
JOBSITE ADDRESS 6050 East Marginal Way South		
CONTACT PERSON Mike Redford	PHONE NUMBER (206) 396.1181	

Number of Tank(s): 1 Tank Size(s): 500-g ☐ Aboveground tank

Product(s) Previously Contained: heating oil ☒ Underground tank

☒ Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)

☐ Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)

Val # 19

Hot work being conducted: ☐ No ☒ Yes (If yes, a separate hot work permit is required)

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office – Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: *Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)*

FMO USE:	**APPROVED BY:** Randy Devitt
Check No.: 905703 2317	Inspector: R L Devitt SFD ID# 1321
Receipt No.: 3273130	Name of Marine Chemist: Don Sly Certificate # 46855
Application ID#: 108385	Date:

(01/17)

SOUND TESTING, INC.
P.O. BOX 16204 SEATTLE, WA 98116
(206) 932-0206 FAX (206) 937-3848
WWW.SOUNDTESTINGINC.COM

MARINE CHEMIST CERTIFICATE

SERIAL Nº 46855

Survey Requested by	Vessel Owner or Agent	Date
WYSER	WYSER	MARCH 27 2017
Vessel	**Type of Vessel**	**Specific Location of Vessel**
SEE BELOW	~500 GAL STEEL UNDERGROUND	6050 E. MARG. WY
Last Three (3) Loadings	**Tests Performed**	**Time Survey Completed**
HEATING FUEL	O_2 LEL VISUAL	9:10AM

~500 GAL HEATING FUEL TANK — MAY BE SAFELY EXCAVATED.

O_2 = 21%
LEL = 0%

10:40 AM — SAFE FOR HOT WORK (INERT — O_2 ≤ 6%)

10:55 — HOT WORK COMPLETE

In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

ATMOSPHERE SAFE FOR WORKERS means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

SAFE FOR HOT WORK means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or locked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."

Signed _____
Name Company Date

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed Don Sly Nº 598
Marine Chemist Certificate No.

POSTING

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR

CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

PRO-17-1495

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size: 500 GALLONS

Last Contents HEATING OIL

Tank Location: 6050 E MARGINAL WAY S
SEATTLE, WA 98108

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are **NOT GAS FREE** or **NOT SAFE FOR HOT WORK**

Tank Owner: Pro Logis
6050 E MARGINAL WAY S
SEATTLE, WA 98108

Contractor: WESER CONSTRUCTION
19011 109th Ave SE
Snohomish WA 98296

M.V.S. Representative:

Date: 3-27-17

Notes:

SCHNITZER STEEL INDUSTRIES, INC. 23711 62rd Ave SE, Woodinville, WA 98072 (425) 481-1828

WYSER CONSTRUCTION
Vendor # WYSE01

Date: 03/31/17
Check No: 190869

TICKET# SHP DATE COMMODITY	GROSS	TARE	NET	VEHICLE ID	PRICE UM	FRT EXT TOTAL AMT
TOSZKG 03/27/17 TIN/LIGHT IRON	11520	11120	400	C91112C	60.0000 NT	0.00
VENDOR WYSE01 TOTALS (Pounds):			400		TOTAL DUE: $	

APPENDIX F
GROUNDWATER MONITORING WELL DECOMMISSIONING DOCUMENTS

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

DEPARTMENT OF ECOLOGY
State of Washington

Notice of Intent to Decommission a Well

Notification Number **AE39164**

This form and required fees **MUST BE RECEIVED** by the Department of Ecology **72 HOURS BEFORE** you construct a well.

Submit one completed form for each job site and required fee (check or money order only) to:
Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.

1. Property Owner	Phone Number		
Georgetown Crossroads LLC			
Mailing Address	**City**	**State**	**Zip Code**
60 State St Ste 1200	Boston	MA	02109
2. Agent (if different from above)	Phone Number		
Mailing Address	City	State	Zip Code

3. Well Location

Tax Parcel Number, Township, Range, Section, ¼, and ¼ ¼ are Required. Latitude and longitude (if available).

County Name					
King - 17					
Well Site Street Address	**City**	**State**	**Zip Code**		
6050 E Marginal Way S	Seattle	WA	98108		
Tax Parcel Number	**Township**	**Range**	**Section**	**¼ (within 160 acres)**	**¼ -¼ (within 40 acres)**
5367204646	24N	4E	20	SW	SW

Latitude Degrees	Latitude Time	Horizontal Collection Method
	min sec	
Longitude Degrees	**Longitude Time**	
	min sec	

4. Notice of Intent Number of well being decomissioned

Unique Well Tag Number of well being decomissioned (if applicable)

5. Well Type to Decommission

How Many? 7

6. Estimated Decommission Start Date 9/6/2016 12:00:0(Project Name Consolidated Freight

7. Professional's License Number

8. Well Drilling Company Name	Phone Number
ESN NORTHWEST	None Supplied
9. Well Driller Name	**Driller License Number**
RICHARD BATES	3174

10. **Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well :	$50.00
Soil Sampling, Dewatering, Environmental investigation wells:	No Fee
All other wells:	$20.00 each
Amount Enclosed $	$140

This notification number must be provided to your driller:

AE39164

anisa@esnnw.com

Your Notice of Intent has been processed as of 9/7/2016. Your Cash Journal Validation Number is: 461T1736.
This message being sent at (9/6/2016)

Okay

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE RW-2

SHEET 1 OF 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	6-inch I.D. Hollow Stem Auger	Moderate yellowish brown, silty fine to coarse SAND and fine GRAVEL, dry, petroleum odor (FILL)								404		Locking Well Cap; Flush Monument cemented in place; Medium Bentonite Chips
		Compact, olive gray, silty fine to coarse SAND, unstratified, strong petroleum odor, becoming wet below ~6 ft	SM			1	SS	40-32-50	82	512		Monterey #2/12 Sand
5						2	SS	17-15-14	29	450		~10.5-inch Borehole
		Olive gray, clayey SILT				3	SS	6-10-15	25	412		
		Loose to compact, dark gray, silty fine to medium SAND, wet, petroleum odor in sample	SM-SP									
10						4	SS	10-8-8	16	368		4-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
						5	SS	5-10-15	25	189		
15		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

RESOURCE PROTECTION WELL REPORT

START CARD NO. R28692

PROJECT NAME: CFW (CONSOLIDATED TREATMENT FACILITY) COUNTY: King

WELL IDENTIFICATION NO. AEB 453 ENTERED LOCATION: NE¼ SE¼ Sec 19 Twn 24N R 4E

DRILLING METHOD: HSA STREET ADDRESS OF WELL:

DRILLER: Brian G. Gosa 6050 E. Marginal Way S. - Seattle

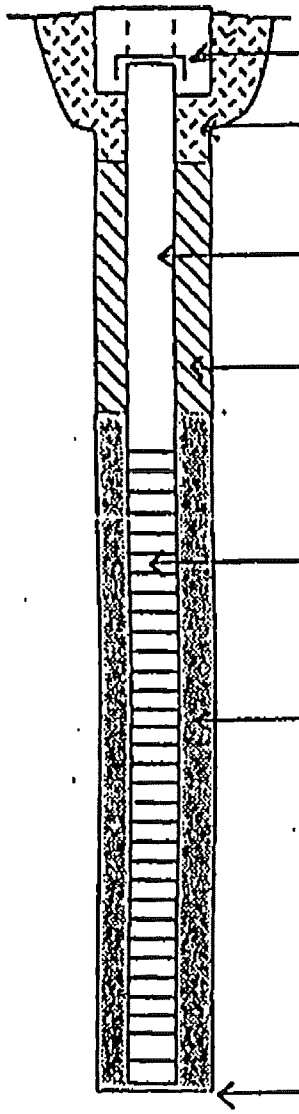
FIRM: Cascade Drilling, Inc. WATER LEVEL ELEVATION: 5'

SIGNATURE: [signature] GROUND SURFACE ELEVATION: N/A

CONSULTING FIRM: Golder Assoc. INSTALLED: 4/7/98

REPRESENTATIVE: R. Long / G. Zimmerman DEVELOPED: Yes

8146

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER	0 - 15 ft. black/grey silt + sand
	CONCRETE SURFACE SEAL DEPTH = 1/ft	- ft.
	PVC BLANK 4 "x 5'	
	BACKFILL 3 ft. TYPE: bent. Chips	- ft.
	PVC SCREEN 4 "x 10' SLOT SIZE: .010	
	GRAVEL PACK 11 ft. MATERIAL: 2/12 sand	
	WELL DEPTH 15' "	

RECEIVED
MAY 11 1998
NWRO-WR
DEPT OF ECOLOGY

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/09)

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE MW-3

SHEET 1 OF 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES: NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	4-inch I.D. Hollow Stem Auger	Gray, silty fine to coarse SAND and fine GRAVEL, dry (FILL)								3.3		Locking Well Cap; Flush Monument cemented in place; Medium Bentonite Chips
		Compact, dark gray, silty fine to medium SAND, stratified layers of clayey silt, trace wood pieces, becoming wet below 6.5 ft	SM			1	SS	14-13-16	29	1.0		
5						2	SS	10-12-12	24	1.1		Monterey #2/12 Sand; ATD
						3	SS	8-15-20	35	1.3		8-inch Borehole
10		Compact, dark gray, unstratified, silty fine to medium SAND, wet	SM-SP			4	SS	8-14-21	36	1.1		2-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
						5	SS	?	?	1.2		
15		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

RESOURCE PROTECTION WELL REPORT

START CARD NO. R28692

PROJECT NAME: CFW (CONSOLIDATED FREIGHT) COUNTY: King

WELL IDENTIFICATION NO. AEB 454 ENTERED LOCATION SE¼ SE¼ Sec 19 Twn 24N R 4E

DRILLING METHOD: HSA STREET ADDRESS OF WELL: 6200 E. Marginal Way S. - Seattle

DRILLER: Brian G. Gosa WATER LEVEL ELEVATION: 5'

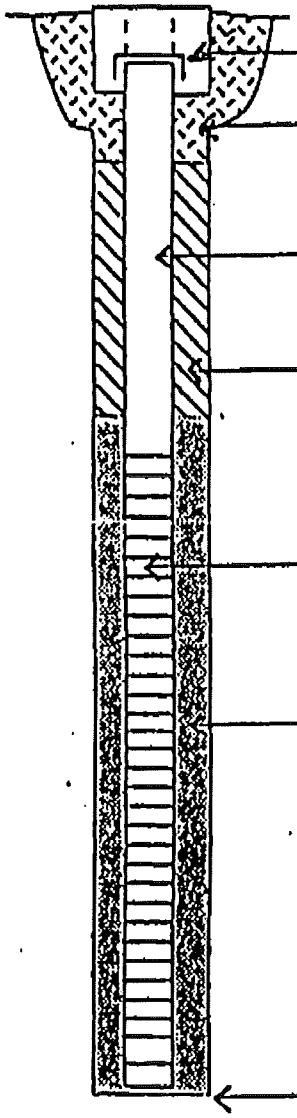
FIRM: Cascade Drilling, Inc. GROUND SURFACE ELEVATION: N/A

SIGNATURE: [signature] INSTALLED: 4/7/98

CONSULTING FIRM: Golder Assoc. DEVELOPED: Yes

REPRESENTATIVE: R. Long / G. Zimmerman

8146

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 1/ft PVC BLANK 2 "x 5 ' BACKFILL 3 ft. TYPE: bent. Chips PVC SCREEN 2 "x 10 ' SLOT SIZE: .010 GRAVEL PACK 11 ft. MATERIAL: 2/12 sand WELL DEPTH 15 ' "	0 - 15 ft. black/grey silt sand + gravels - ft. - ft.

RECEIVED
MAY 11 1998
NWRO - WR
DEPT OF ECOLOGY

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/09)

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE MW-2

SHEET 1 OF 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES NUMBER	TYPE	BLOWS / 6 IN. (140 lb. hammer 30 inch drop)	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	4-inch I.D. Hollow Stem Auger	Moderate brown and gray, silty medium to coarse SAND and fine GRAVEL, petroleum odor (FILL)								35		Locking Well Cap; Flush Monument cemented in place; Medium Bentonite Chips
5		Loose, olive gray, fine to medium sandy SILT, trace stratified layers clayey SILT, wet below 6.0 ft, petroleum odor	SM			1	SS	7-7-10	17	4.6		Monterey #2/12 Sand; ATD
						2	SS	6-7-8	15	4.3		
						3	SS	4-7-8	15	2.1		8-inch Borehole
10		Compact, dark gray, unstratified, silty fine to medium SAND, wet, no odor	SM-SP			4	SS	10-13-16	29	2.4		2-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
		Increase in grain size of sand to fine to coarse SAND				5	SS	4-7-8	15	1.3		
15		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

RESOURCE PROTECTION WELL REPORT

START CARD NO. R28692

PROJECT NAME: CFW (CONSOLIDATED TREATMENT) COUNTY: King

WELL IDENTIFICATION NO. AEB 452 ENTERED

LOCATION: SE¼ SE¼ Sec 19 Twn 24N R 4E

DRILLING METHOD: HSA

STREET ADDRESS OF WELL: 6050 E. Marginal Way S. - Seattle

DRILLER: Brian G. Gose

FIRM: Cascade Drilling, Inc.

WATER LEVEL ELEVATION: 5'

SIGNATURE: [signature]

GROUND SURFACE ELEVATION: N/A

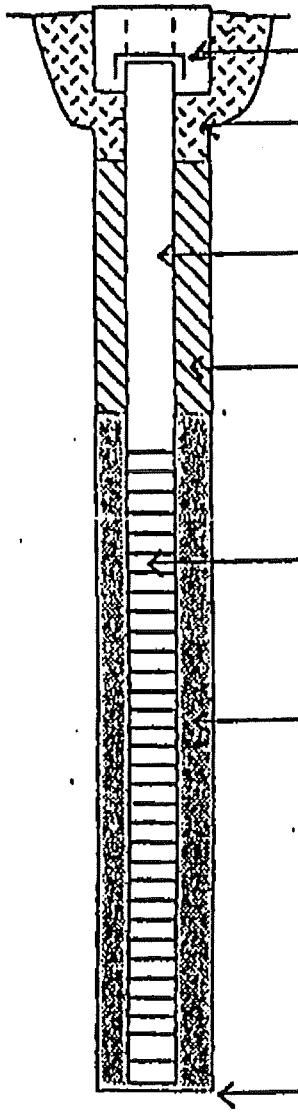
CONSULTING FIRM: Golder Assoc.

INSTALLED: 4/7/98

REPRESENTATIVE: R. Long / G. Zimmerman

DEVELOPED: Yes

8146

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 1/ft PVC BLANK 2 "x 5 ' BACKFILL 3 ft. TYPE: bent. Chips PVC SCREEN 2 "x 10 ' SLOT SIZE: .010 GRAVEL PACK 11 ft. MATERIAL: 2/12 Sand WELL DEPTH 15 . "	0 - 15 ft. black/grey silt sand + gravels - ft. - ft.

RECEIVED
MAY 11 1998
NWRO-WR
DEPT OF ECOLOGY

SCALE: 1" = _____ PAGE _____ OF _____

ECY 060-12 (Rev. 11/09)

PROJECT: CF/Risk Assessment/WA

RECORD OF BOREHOLE MW-1

SHEET 1 OF 1

DATUM:

PROJECT NUMBER: 983 1065

BORING LOCATION:

BORING DATE: 4/7/98

DEPTH FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH	SAMPLES NUMBER	TYPE	BLOWS / 6 IN. 140 lb. hammer 30 inch drop	N	PID	PENETRATION RESISTANCE BLOWS/FT. / WATER CONTENT, PERCENT (Wp, W, Wl)	MONITORING WELL GRAPHIC / WATER LEVEL
0	4-inch I.D. Hollow Stem Auger	Moderate brown, silty fine to coarse SAND and fine GRAVEL, dry (FILL)	SP							0.6		Locking Well Cap; Flush Monument cemented in place; Medium Bentonite Chips
		Loose, moderate brown and olive gray, silty fine to coarse SAND, becoming wet below ~6 ft bgs, trace wood pieces at ~8.0 ft bgs	SM			1	SS	6-10-7	17	0.7		Monterey #2/12 Sand
5						2	SS	11-20-12	32	0.7		ATD
						3	SS	6-9-10	19	2.2		~8-inch Borehole
10		Compact, olive gray, silty fine to medium SAND, wet	SM-SP			4	SS	9-19-20	39	1.8		2-inch I.D. Sch. 40 PVC 0.01-inch Slotted Screen
						5	SS	?	?	2.0		
15		Total depth 15.5 ft bgs										
20												
25												
30												

DRILL RIG: CME 75

DRILLING CONTRACTOR: Cascade Drilling

DRILLER: B. Gose

LOGGED: G. Zimmerman

CHECKED:

DATE: 4/17/98

Golder Associates

RESOURCE PROTECTION WELL REPORT 24-4-19R

START CARD NO. RZ8692

PROJECT NAME: CFW (CONSOLIDATED FREIGHT) COUNTY: King

WELL IDENTIFICATION NO. AEB457 ENTERED

LOCATION: SE¼ SE¼ Sec 19 Twn 24N R 4E

DRILLING METHOD: HSA

STREET ADDRESS OF WELL: 6000 E. Marginal Way S. - Seattle

DRILLER: Brian G. Goss

FIRM: Cascade Drilling, Inc.

WATER LEVEL ELEVATION: 5'

SIGNATURE:

GROUND SURFACE ELEVATION: N/A

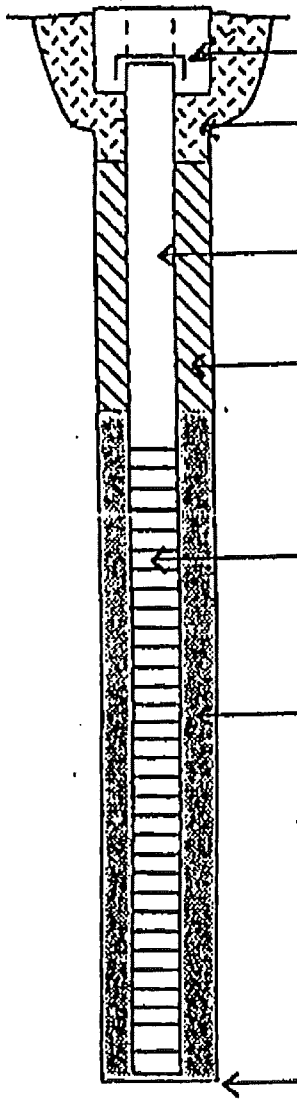
CONSULTING FIRM: Golder Assoc.

INSTALLED: 4/7/98

REPRESENTATIVE: R. Long / G. Zimmerman

DEVELOPED: Yes

8146

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 1/ft PVC BLANK 2 "x 5' BACKFILL 3 ft. TYPE: bent. Chips PVC SCREEN 2 "x 10' SLOT SIZE: .010 GRAVEL PACK 11 ft. MATERIAL: 2/12 sand WELL DEPTH 15' "	0 - 15 ft. black/grey silt sand & gravels - ft. - ft.

RECEIVED
MAY 11 1998
NWRO - WR
DEPT OF ECOLOGY

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/89)

RECORD OF BOREHOLE MW-6

SHEET 1 of 1

PROJECT: CF-Seattle
PROJECT NUMBER: 983-1065.810
LOCATION: CF- Seattle

DRILLING METHOD: 4" HSA
DRILLING DATE: 01/10/2001
DRILL RIG: CME-75

DATUM: MSL
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p W W_l	NOTES WATER LEVELS GRAPHIC
0	4" ID Hollow Stem Auger with 140lb drop hammer	0.0 - 3.0 Fine to medium SAND and Gravel (CLEAN FILL)										Well cap and flush mount monument locked
		3.0 - 8.5 Compact, dusky yellowish brown, non-stratified silty fine sand, moist to wet (ALLUVIUM)	SM		3.0	1	MC	9-9-9	18	1.5 / 1.5		Bentonite seal
5						2	MC	3-3-3	6	1.5 / 1.5		Filter pack with silica sand
		8.5 - 10.0 Loose, olive gray, weakly stratified, fine sandy SILT, wet (ALLUVIUM)	ML		8.5							
10		10.0 - 17.0 Loose, dark gray, non-stratified, silty fine SAND, wet (ALLUVIUM)			10.0	3	MC	3-4-4	8	1.5 / 1.5		2" PVC .01"Slotted pipe
		Becoming compact	SM			4	MC	4-5-17	22	1.5 / 1.5		
15												bottom of hole
		Boring completed at 17.0 ft.			17.0							ATD
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR: Cascade
DRILLER: Cody

LOGGED: GLZ
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD 9831065.GPJ GLDR_WA.GDT 2/15/01

90477

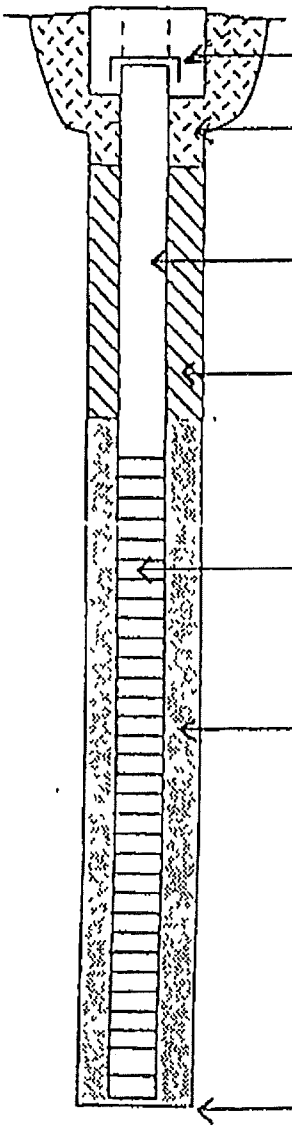
RESOURCE PROTECTION WELL REPORT

START CARD NO R46309

PROJECT NAME Consolidated Freightways
WELL IDENTIFICATION NO AGJ 986
DRILLING METHOD HSA
DRILLER Cody D. Pulis
FIRM Cascade Drilling, Inc.
SIGNATURE
CONSULTING FIRM Golder Associates
REPRESENTATIVE Garry Zimmerman

COUNTY: King 24-4E-20N
LOCATION SW 1/4 SW 1/4 Sec 20 Twn 24N R 4E
STREET ADDRESS OF WELL 6050 E. Marginal Wy So - Seattle
WATER LEVEL ELEVATION
GROUND SURFACE ELEVATION N/A
INSTALLED 1-10-01
DEVELOPED 1-10-01

1017

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 1/ft PVC BLANK 2 "x 7' BACKFILL 4' ft. TYPE: Bentonite Chips PVC SCREEN 2 "x 10' SLOT SIZE: .010 GRAVEL PACK 12 ft. MATERIAL: #2 Lonstar WELL DEPTH 17' "	0 - 5' ft. Fill 5 - 17' ft. Black sand - Organics - ft.

RECEIVED
JAN 31 2001
DEPT. OF ECOLOGY

SCALE 1" = _____ PAGE _____ OF _____

ECY 050 12 (Rev 11/89) 90477

RECORD OF BOREHOLE MW-5

SHEET 1 of 1

PROJECT: CF-Seattle
PROJECT NUMBER: 983-1065.810
LOCATION: CF- Seattle

DRILLING METHOD: 4" HSA
DRILLING DATE: 01/10/2001
DRILL RIG: CME-75

DATUM: MSL
AZIMUTH: N/A
COORDINATES: not surveyed

ELEVATION:
INCLINATION: -90

DEPTH (ft)	BORING METHOD	SOIL PROFILE: DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLES: NUMBER	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N	REC / ATT	PENETRATION RESISTANCE BLOWS / ft ■ (10 20 30 40) / WATER CONTENT (PERCENT) W_p — W — W_l	NOTES WATER LEVELS GRAPHIC
0	4" ID Hollow Stem Auger with 140lb drop hammer	0.0 - 0.5 Asphalt 0.5 - 6.0 Loose, medium light gray, fine to corse SAND and gravel (FILL)			0.5							Well cap and flush mount monument locked
5		6.0 - 7.0 Compact,dark gray, Silty fine SAND, damp to wet (ALLUVIUM)	SM		6.0	1	MC	15-17-17	34	1.5/1.5		Bentonite seal
		7.0 - 13.0 Firm, Olive gray, nonstratfied SILT, damp to wet (ALLUVIUM)	ML		7.0	2	MC	2-3-5	8	1.5/1.5		Filter pack with silica sand
10		Increase in fine SAND				3	MC	3-3-3	6	1.5/1.5		2" PVC .01"Slotted pipe
		13.0 - 17.0 Compact, grayish black, nonstratfied, silty fine SAND, wet (ALLUVIUM)	SP-SM		13.0	4	MC	4-4-11	15	1.3/1.5		ATD
15						5	MC	10-18-17	35	1.5/1.5		bottom of hole
		Boring completed at 17.0 ft.			17.0							
20												
25												
30												
35												
40												

1 in to 5 ft
DRILLING CONTRACTOR: Cascade
DRILLER: Cody

LOGGED: GLZ
CHECKED:
DATE:

Golder Associates

BOREHOLE RECORD 9831065.GPJ GLDR_WA.GDT 2/15/01

RESOURCE PROTECTION WELL REPORT

90478

START CARD NO. R46309

PROJECT NAME: Consolidated Freightways

COUNTY: King 24·4E·20N

WELL IDENTIFICATION NO: AG-J 987

LOCATION SW ¼ SW ¼ Sec 20 Twn 24N R 4E

DRILLING METHOD: HSA

STREET ADDRESS OF WELL: 6050 E. Marginal Wy So-Seattle

DRILLER: Cody D. Pulis

WATER LEVEL ELEVATION:

FIRM: Cascade Drilling, Inc.

GROUND SURFACE ELEVATION: N/A

SIGNATURE:

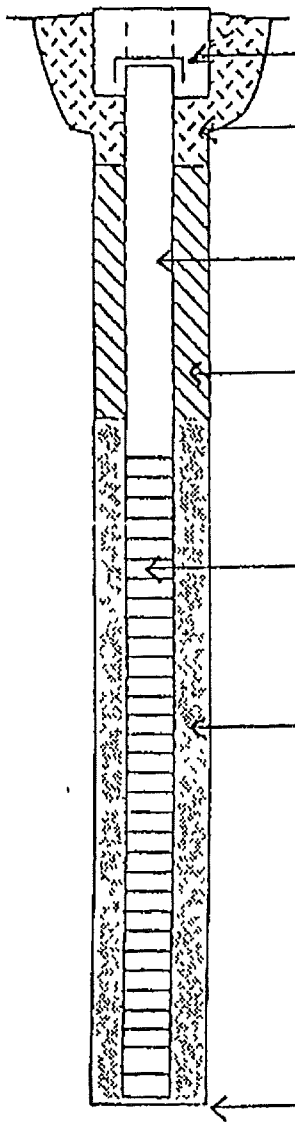
CONSULTING FIRM: Golder Associates

INSTALLED: 1-10-01

REPRESENTATIVE: Garry Zimmerman

DEVELOPED: 1-10-01

1017

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 1/ft PVC BLANK 2 "x 7 ' BACKFILL 4' ft. TYPE: Chips PVC SCREEN 2 "x 10 ' SLOT SIZE: 010 GRAVEL PACK 12 ft. MATERIAL: 2·12 Lonestar WELL DEPTH 17' "	0 - 5 ft. Fill 5 - 17 ft. Black sand & organics - ft.

SCALE 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/09) 90478

RECORD OF BOREHOLE MW-4

PROJECT: CF-Seattle
PROJECT NUMBER: 983-1065.810
LOCATION: CF- Seattle

DRILLING METHOD: 4" HSA
DRILLING DATE: 01/10/2001
DRILL RIG: CME-75

DATUM: MSL
AZIMUTH: N/A
COORDINATES: not surveyed

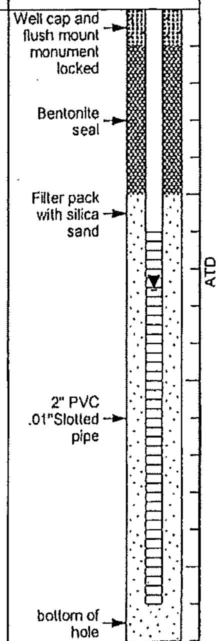
ELEVATION:
INCLINATION: -90

BORING METHOD: 4" ID Hollow Stem Auger woth 140lb drop hammer

DEPTH (ft)	DESCRIPTION	USCS	ELEV. / DEPTH (ft)	NUMBER	TYPE	BLOWS per 6 in (140 lb hammer, 30 inch drop)	N	REC / ATT
0	0.0 - 0.5 Asphalt							
	0.5 - 3.0 Gravel,sand,red brick with metal debris (FILL)		0.5					
	3.0 - 17.0 Compact to Dense, dusky yellowish brown to dark grey weekly stratified fine sandy SILT, silt fine sand, moist to wet (ALLUVIUM)	SM-ML	3.0					
5				1	MC	13-13-13	26	1.5/1.5
	Wet below 8.5 ft			2	MC	4-5-5	10	1.5/1.5
10				3	MC	7-8-8	16	1.5/1.5
	Becoming dense in fine sands			4	MC	11-20-21	41	1.5/1.5
17	Boring completed at 17.0 ft.		17.0					

PENETRATION RESISTANCE BLOWS / ft ■ (10, 20, 30, 40)
WATER CONTENT (PERCENT) W_p —— W —— W_l

NOTES WATER LEVELS GRAPHIC



1 in to 5 ft
DRILLING CONTRACTOR: Cascade
DRILLER: Cody

LOGGED: GLZ
CHECKED:
DATE:

Golder Associates

90479

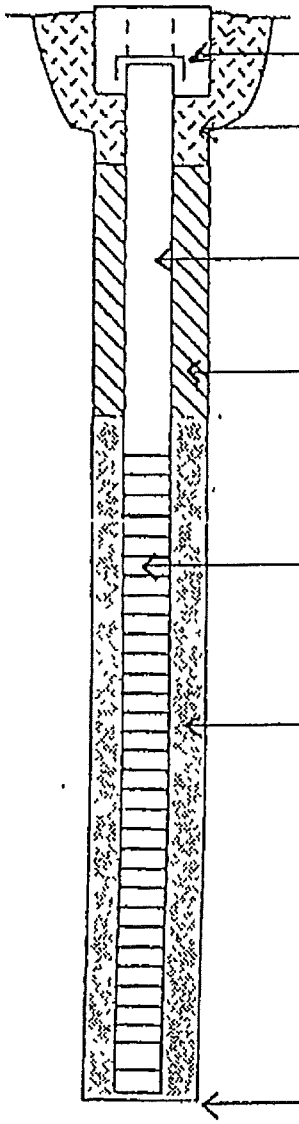
RESOURCE PROTECTION WELL REPORT

START CARD NO R46309

PROJECT NAME: Consolidated Freightways
WELL IDENTIFICATION NO AGJ 988
DRILLING METHOD HSA
DRILLER Cody D. Pulis
FIRM Cascade Drilling, Inc.
SIGNATURE
CONSULTING FIRM Golder Associates
REPRESENTATIVE Garry Zimmerman

COUNTY: King 21.4E.20N
LOCATION SW ¼ SW ¼ Sec 20 Twn 24N R 4E
STREET ADDRESS OF WELL 6050 E. Marginal Wy So - Seattle
WATER LEVEL ELEVATION
GROUND SURFACE ELEVATION N/A
INSTALLED 1-10-01
DEVELOPED 1-10-01

1017

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 1/ft PVC BLANK 2 "x 7' ' BACKFILL 4 ft. TYPE: Bentonite Chips PVC SCREEN 2 "x 10 ' SLOT SIZE: .010 GRAVEL PACK 12 ft. MATERIAL: 2-12 Colorstone WELL DEPTH 17' "	0 - 5 ft. Fill 5' - 17' ft. Black sand : organics - ft.

SCALE 1" = PAGE OF

ECY 050 12 (Rev. 11/99) 90479

ESN Northwest
Travel: Leave:_____
Arrive:_____

DAILY WORK REPORT

Total Travel Time:_____
Leave:_____
Arrive:_____

Total Work Time:_____

MATERIALS USED: PVC:	START: 9:00	FINISH: 10:00 OT:	JOB DATE: 9/6/16
PVC Screen: 3/4" 1" 2"	Operator: Brian	Helper: _____ 3rd:	Job#:
PVC Riser 3/4" 1" 2"	CLIENT: Faralon		Drill Rig: 45
Pre-Pack Screen 3/4" 1" 2"	JOB LOCATION: Seattle		Sup Truck:
Pre-Pack Riser 3/4" 1"	Probe Auger Geotech LAR (Other)		Trailer: yes
Slip Caps	WORK COMPLETED:	Well Development:	Reg Concrete Cores:
Thrd End Caps	Holes Total: (7)	Water Samples:	Geoprobe 7800 Cores:
J-Plugs	Broken Tools/		Sub Coring # & Size:
Other:	Notes:		
Misc Well:	RENTALS:		

Misc Well:	Tag Number	Hole Number	Description	Liners
8" Mon Reg: Steel:				
5" Mon	✓	MW 1	2" decommission 7 wells	1
Stick-up	✓	MW 2	2" chip in place	1
Bollards	✓	MW 3	2"	1
General:				
Med. Bent. (5)				
No. 8 Bent.	✓	MW 4	2"	1
Grout	✓	MW 5	2"	1
Sand	✓	MW 6	2"	1
Concrete	✓	RW/2	4"	1
Quickset				
Asphalt				
Other:				
Other:				
~~55 g Drum~~				
~~Mini Drum~~				
Plywood				
Probe/Sampling:				
Poly Tubing				
Teflon Tubing				
MC Liner 4'				
MC Liner 5'				
DT Liner 4'				
DT Liner 5'				
HP Liner 2'				
Liner End Caps				
Bailers				
Filters				
Tedlar Bags				
H2O Pts				
Rod Pts				
Casing Pts:2" 3"				
Casing Pts: 4"				
G.P. Pts				
Easy Draws				
Other Containers				

Client Signature:

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE39164

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *("x" in box)*

☐ Construction

☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: R28692

Consulting Firm _____

Unique Ecology Well IDTag No. AEB 453 (RW/2)

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer /Trainee Signature Cole Pickering

Driller or Trainee License No. 3216

If trainee, licensed driller's Signature and License Number: Chris Harnden 2508

Type of Well *("x in box)*

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner Georgtown Crossroads LLC

Site Address 6050 E Marginal Way S

City Seattle County King

Location SW1/4-1/4 SW1/4 Sec 20 Twn 24 R 04

EWM ☒ or WWM ☐

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

Long Deg _____ Min _____ Sec _____

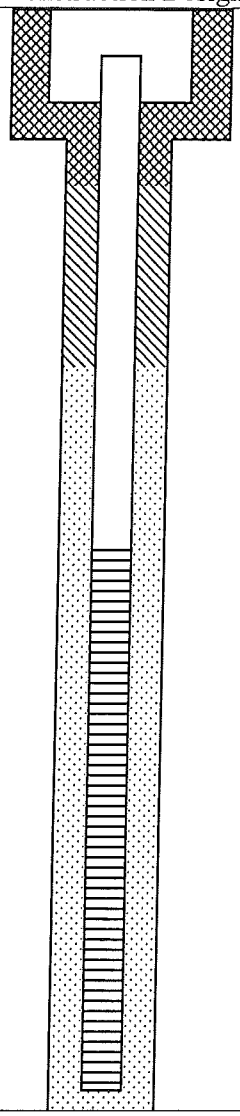
Tax Parcel No. 5367204646

Cased or Uncased Diameter 4" Static Level _____

Work/Decommission Start Date 9/6/16

Work/Decommission Completed Date 9/6/16

Construction Design



Well Data

MONUMENT TYPE: flush

REMOVED MONUMENT: YES/NO

PVC BLANK: _____

SCREEN: _____

WELL DEPTH: 15'

Formation Description

FORMATION NOT OBSERVED – WELL WAS DECOMMISSIONED

REMOVED MONUMENT: (YES) / NO

☒ WELL WAS CHIPPED/GROUTED IN PLACE

☐ ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= ____ PAGE 1 OF 1

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE39164

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *("x" in box)*

☐ Construction

☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: R28692

Consulting Firm _____

Unique Ecology Well IDTag No. AEB 454 (MW-3)

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer /Trainee Signature Cole Pickering

Driller or Trainee License No. 3216

If trainee, licensed driller's Signature and License Number: Chris Harnden 2508

Type of Well *("x in box)*

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner Georgtown Crossroads LLC

Site Address 6050 E Marginal Way S

City Seattle County King

Location SW1/4-1/4 SW1/4 Sec 20 Twn 24 R 04

EWM ☒ or WWM ☐

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

Long Deg _____ Min _____ Sec _____

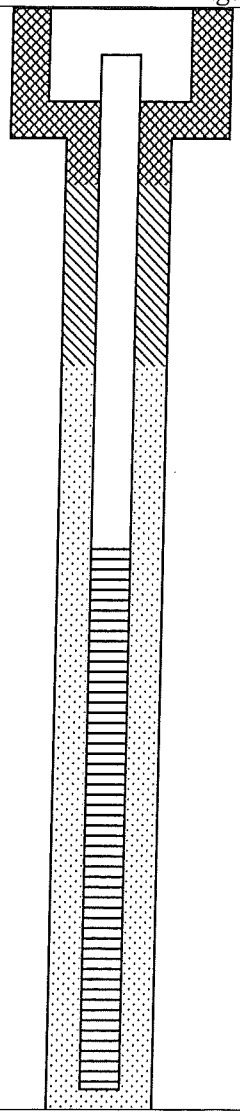
Tax Parcel No. 5367204646

Cased or Uncased Diameter 2" Static Level _____

Work/Decommission Start Date 9/6/16

Work/Decommission Completed Date 9/6/16

Construction Design



Well Data

MONUMENT TYPE: flush

REMOVED MONUMENT: YES/NO

PVC BLANK: _____

SCREEN: _____

WELL DEPTH: 15'

Formation Description

FORMATION NOT OBSERVED – WELL WAS DECOMMISSIONED

REMOVED MONUMENT: YES / NO

☒ WELL WAS CHIPPED/GROUTED IN PLACE

☐ ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= ____ PAGE 2 OF 7

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE39164

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *("x" in box)*

☐ Construction

☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: R28692

Consulting Firm _____

Unique Ecology Well IDTag No. AEB 452 (MW-2)

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer /Trainee Signature Cole Pickering

Driller or Trainee License No. 3216

If trainee, licensed driller's Signature and License Number: Anna Harnden 2508

Type of Well *("x in box)*

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner Georgtown Crossroads LLC

Site Address 6050 E Marginal Way S

City Seattle County King

Location SW1/4-1/4 SW1/4 Sec 20 Twn 24 R 04

EWM ☒ or WWM ☐

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

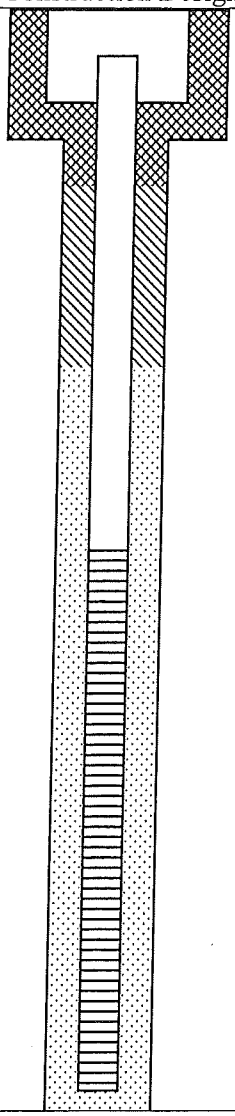
Long Deg _____ Min _____ Sec _____

Tax Parcel No. 5367204646

Cased or Uncased Diameter 2" Static Level _____

Work/Decommission Start Date 9/6/16

Work/Decommission Completed Date 9/6/16

Construction Design	Well Data	Formation Description
	MONUMENT TYPE: flush REMOVED MONUMENT: YES/NO PVC BLANK: _____ SCREEN: _____ WELL DEPTH: 15'	FORMATION NOT OBSERVED – WELL WAS DECOMMISSIONED REMOVED MONUMENT: YES / NO ☒ WELL WAS CHIPPED/GROUTED IN PLACE ☐ ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= ____ PAGE 3 OF 7

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE39164

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *("x" in box)*

☐ Construction

☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: R28692

Consulting Firm

Unique Ecology Well IDTag No. AEB 451 (MW-1)

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer /Trainee Signature Cole Pickering

Driller or Trainee License No. 3216

If trainee, licensed driller's Signature and License Number: Andrew Harndin 2508

Type of Well *("x in box)*

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner Georgtown Crossroads LLC

Site Address 6050 E Marginal Way S

City Seattle County King

Location SW1/4-1/4 SW1/4 Sec 20 Twn 24 R 04

EWM ☒ or WWM ☐

Lat/Long (s, t, r still REQUIRED) Lat Deg ____ Min ____ Sec ____

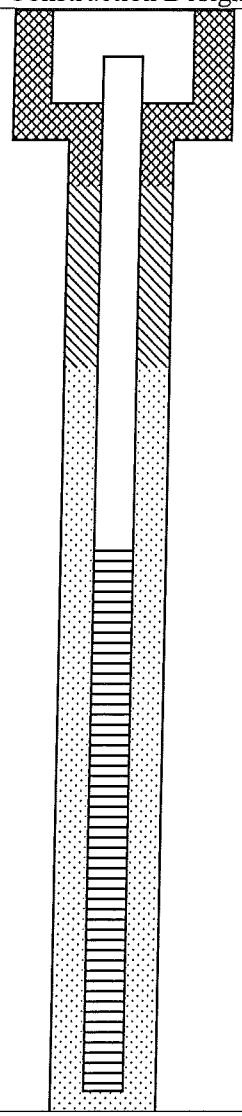
Long Deg ____ Min ____ Sec ____

Tax Parcel No. 5367204646

Cased or Uncased Diameter 2" Static Level ____

Work/Decommission Start Date 9/6/16

Work/Decommission Completed Date 9/6/16

Construction Design	Well Data	Formation Description
	MONUMENT TYPE: flush REMOVED MONUMENT: YES/NO PVC BLANK: SCREEN: WELL DEPTH: 15'	FORMATION NOT OBSERVED – WELL WAS DECOMMISSIONED REMOVED MONUMENT: YES / NO ☑ WELL WAS CHIPPED/GROUTED IN PLACE ☐ ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= ____ PAGE 4 OF 7

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE39164

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *("x" in box)*

☐ Construction

☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: R46309

Consulting Firm _____

Unique Ecology Well IDTag No. AGJ 986 (MW-6)

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer /Trainee Signature Cole Pickering

Driller or Trainee License No. 3216

If trainee, licensed driller's Signature and License Number:

Chris Harnden 2508

Type of Well *("x in box)*

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner Georgtown Crossroads LLC

Site Address 6050 E Marginal Way S

City Seattle County King

Location SW1/4-1/4 SW1/4 Sec 20 Twn 24 R 04

EWM ☒ or WWM ☐

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

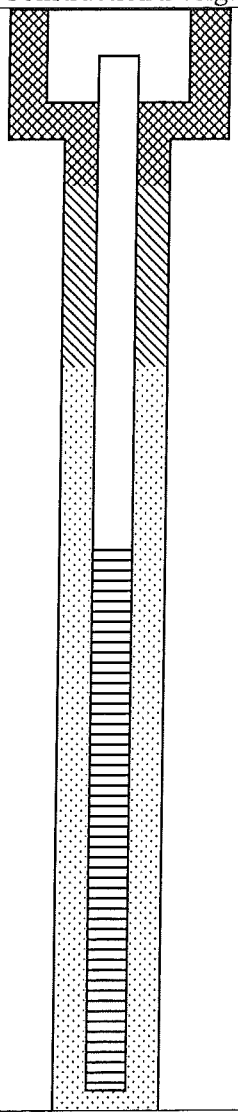
Long Deg _____ Min _____ Sec _____

Tax Parcel No. 5367204646

Cased or Uncased Diameter 2" Static Level _____

Work/Decommission Start Date 9/6/16

Work/Decommission Completed Date 9/6/16

Construction Design	Well Data	Formation Description
	MONUMENT TYPE: flush REMOVED MONUMENT: YES/NO PVC BLANK: _____ SCREEN: _____ WELL DEPTH: 17'	FORMATION NOT OBSERVED – WELL WAS DECOMMISSIONED REMOVED MONUMENT: YES / NO ☑ WELL WAS CHIPPED/GROUTED IN PLACE ☐ ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= ____ PAGE 5 OF 7

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE39164

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *("x" in box)*

☐ Construction

☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: R46309

Consulting Firm

Unique Ecology Well IDTag No. AGT-987

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer /Trainee Signature Cole Pickering

Driller or Trainee License No. 3216

If trainee, licensed driller's Signature and License Number: Chris Harnden 2508

Type of Well *("x in box)*

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner Georgtown Crossroads LLC

Site Address 6050 E Marginal Way S

City Seattle County King

Location SW1/4-1/4 SW1/4 Sec 20 Twn 24 R 04

EWM ☒ or WWM ☐

Lat/Long (s, t, r still REQUIRED) Lat Deg ____ Min ____ Sec ____

Long Deg ____ Min ____ Sec ____

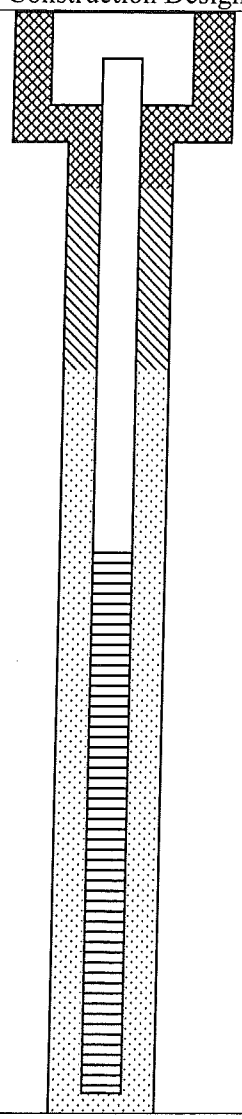
Tax Parcel No. 5367204646

Cased or Uncased Diameter 2" Static Level ____

Work/Decommission Start Date 9/6/16

Work/Decommission Completed Date 9/6/16

Construction Design



Well Data

MONUMENT TYPE: flush

REMOVED MONUMENT: YES/NO

PVC BLANK:

SCREEN:

WELL DEPTH: 17'

Formation Description

FORMATION NOT OBSERVED – WELL WAS DECOMMISSIONED

REMOVED MONUMENT: YES / NO

☒ WELL WAS CHIPPED/GROUTED IN PLACE

☐ ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= ____ PAGE 6 OF 7

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. AE39164

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *("x" in box)*

☐ Construction

☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: R46309

Consulting Firm _____

Unique Ecology Well IDTag No. AGJ-988 (MW-4)

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer /Trainee Signature Cole Pickering

Driller or Trainee License No. 3216

If trainee, licensed driller's Signature and License Number: Chris Harnden 2508

Type of Well *("x in box)*

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner Georgtown Crossroads LLC

Site Address 6050 E Marginal Way S

City Seattle County King

Location SW1/4-1/4 SW1/4 Sec 20 Twn 24 R 04

EWM ☒ or WWM ☐

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

Long Deg _____ Min _____ Sec _____

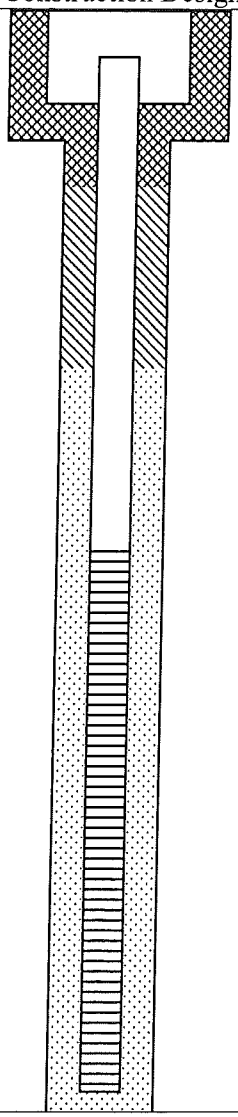
Tax Parcel No. 5367204646

Cased or Uncased Diameter 2" Static Level _____

Work/Decommission Start Date 9/6/16

Work/Decommission Completed Date 9/6/16

Construction Design



Well Data

MONUMENT TYPE: flush

REMOVED MONUMENT: YES NO

PVC BLANK: _____

SCREEN: _____

WELL DEPTH: 17'

Formation Description

FORMATION NOT OBSERVED – WELL WAS DECOMMISSIONED

REMOVED MONUMENT: YES NO

☐ WELL WAS CHIPPED/GROUTED IN PLACE

☐ ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= ____ PAGE 1 OF 1

APPENDIX G
SOIL DISPOSAL DOCUMENTATION

CLEANUP ACTION CLOSURE REPORT
6050 East Marginal Way South
Seattle, Washington

Farallon PN: 1071-010

November 1998 - Soil Disposal Documentation

TPS TECHNOLOGIES INC.

Tacoma, WA
Soil Recycling Facility

Soil Data and Certification Sheet

Date: _____

GENERATOR: Consolidated Freightways
Mailing Address: 175 Linfield Drive
Menlo Park, CA 94025

Contact: Ms. Lynne Carlson
Phone: (650 326-1700
Fax: (650) 617-6716
SITE NAME: Consolidated Freightways, Seatt
Street Address: 6050 East Marginal Way South
Seattle, WA

Contact: _____
Phone: ( )
Fax: ( )

CONSULTANT: Golder Associates, Inc.
Address: 4104-148th Ave. N.E.
Redmond, WA 98052

Contact: Rob Long / Gary Zimmerman
Phone: (425) 883-0777
Fax: (425) 882-5498
TRANSPORTER: TPS Technologies
Address: _____

Contact: _____
Phone: ( )
Fax: ( )

Site History

Type of contamination (gas, diesel, used oil, coal tar, etc) Diesel Estimated quantity in tons: 1,350

How did soil contamination occur? Release from Underground Storage Tank and piping

Source of Contamination: ☑ UST ☐ AST ☐ SPILL ☐ EMERGENCY RESPONSE ☐ OTHER _____

Name of Testing Lab: Sound Analytical Contact: Tom Watson Phone: 1-253-922-2310

How and where at site were samples taken? 5 discrete samples collected w/1.5 ft below surface of Pile. Plus 3 samples collected from pile during excavation (analyzed by North Creek)

Please check appropriate box below and attach all required analytical reports, including test methodologies used. Unless otherwise noted, discrete grab samples should be collected with the following frequency: Three samples for the first 150 tons; five samples for 750 tons or less, seven samples for 1500 tons or less, ten samples for 3000 tons or less, and one additional sample for each 750 additional tons.

☒ I certify that the soil referenced herein is contaminated solely by virgin petroleum products from leaking underground storage tank(s).

Attach analysis for the following:
1. Total petroleum hydrocarbons (WTPH-G, WTPH-D, 418-1)
2. Benzene/ toluene/ ethylbenzene/ xylene (Method 8020 BTEX for gasoline soils only)
3. Total lead (Method 6010, 7420, or 7421 for gasoline soils only)

Total Metals and 6010 also ran on 1 Composite

☐ I certify that some or all of the contaminants in the soil referenced herein is used oil or some other non-virgin petroleum product, or virgin petroleum or hydrocarbon product from a leaking above-ground storage tank or spill.

Attach analysis for the following:
1. Total petroleum hydrocarbons (WTPH-G, WTPH-D, or WTPH - 418.1 Modified)
2. Benzene/ toluene/ ethylbenzene/ xylene (Method 8020 BTEX for gasoline soils only)*
3. Halogenated Volatile Organics (Method 8010, 8021, or 8240)
4. Pesticides and PCB's (Method 8080)
5. Total metals concentration for (a) through (h): * (a) arsenic (b) barium (c) cadmium (d) chromium (e) lead (f) mercury (g) selenium (h) silver

* If elevated benzene and total metal concentrations are detected, additional analyses for TCLP benzene and TCLP metals may be required.

No soils referenced herein may be delivered until this certificate is received and approved by TPST, and TPST issues manifest(s) and assigns a delivery date. If any soils delivered to TPST are found to be "hazardous waste" pursuant to federal regulations or "dangerous waste" pursuant to state regulations, Client shall be solely responsible for their removal. If Client fails to so remove such soils, TPST, acting as Client's agent, may arrange for such removal at Client's expense.

This is a complete and accurate description of the soil referenced herein; no deliberate or willful omissions have been made and all known or suspected hazards have been disclosed herein. I further hereby certify that the soil is not "hazardous" or "dangerous" as defined by U.S. Environmental Protection Agency (EPA), State of Washington, or local regulations, and that no other knowledge concerning other TCLP constituents have been withheld. I further certify that the soils referenced herein contain no free liquids. All required analysis reports are attached.

Generator/Owner Authorized Signature: Lynne Carlson Date: 11/10/98

Print Name: LYNNE CARLSON Title: Mgr, Env Programs

Revised 02/16/96

Soil Master (c)

TPS Technologies, Inc.

Customer Job Report

Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number Name	SiteAddress	SiteCity	State	ZipCode
A03 -- 02091 CONSOLIDATED FREIGHT	6050 EAST MARGINAL WAY SOUTH	SEATTLE	WA	00000

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	11/16/9808:58	1003608	MERLIN	114,920M	40,440M	74,480	37.24
2	11/16/9808:59	1003608	SCOTT	113,920M	38,160M	75,760	37.88
3	11/16/9808:59	1003608	SHANE	108,340M	38,560M	69,780	34.89
4	11/16/9809:00	1003608	JOHN	103,740M	46,700M	57,040	28.52
5	11/16/9809:00	1003608	MERLIN	110,120M	40,440M	69,680	34.84
6	11/16/9809:01	1003608	SCOTT	109,480M	38,160M	71,320	35.66
7	11/16/9809:01	1003608	SHANE	110,040M	38,560M	71,480	35.74
8	11/16/9809:01	1003608	JOHN	109,420M	46,700M	62,720	31.36
9	11/16/9809:02	1003608	MERLIN	106,160M	40,440M	65,720	32.86
10	11/16/9809:02	1003608	SCOTT	110,480M	38,160M	72,320	36.16
11	11/16/9809:03	1003608	SHANE	110,180M	38,560M	71,620	35.81
12	11/16/9809:03	1003608	JOHN	110,260M	46,700M	63,560	31.78
13	11/16/9809:03	1003608	MERLIN	114,320M	40,440M	73,880	36.94
14	11/16/9809:03	1003608	SCOTT	111,360M	38,160M	73,200	36.60
15	11/16/9809:04	1003608	ALLEN	90,740M	37,680M	53,060	26.53
16	11/16/9809:04	1003608	SCOTT	100,360M	41,900M	58,460	29.23
17	11/16/9809:04	1003608	JAY	104,580M	43,240M	61,340	30.67
18	11/16/9809:05	1003608	JR	102,060M	37,280M	64,780	32.39
19	11/16/9809:05	1003608	DUSTIN	107,320M	41,460M	65,860	32.93
20	11/16/9809:06	1003608	SHANE	102,920M	38,560M	64,360	32.18
21	11/16/9809:07	1003608	JOHN	93,040M	46,700M	46,340	23.17
22	11/16/9809:07	1003608	LAMARR	102,080M	38,000M	64,080	32.04
23	11/16/9809:09	1003608	PEGGY	82,900M	33,680M	49,220	24.61
24	11/16/9809:10	1003608	DAN	104,420M	41,400M	63,020	31.51
25	11/16/9809:12	1003608	AL	115,500M	42,560M	72,940	36.47

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
33.30%	25	60.60%	1,350.00(tons)	818.01 (tons)

Post-it® Fax Note 7671 | Date 11/18 | # of pages ▶ 1

To Gary Zimmerman | From Lenee Watkins

Co./Dept. Golder Assoc. | Co. TPS

Phone # | Phone # 253/584-8430

Fax # 425/882-5498 | Fax #

Corrected Copy

[SM-RPT9]

11/17/98

March 14 to 31, 2017 - Soil Disposal Documentation

Waste Management

Customer Summary Report
Criteria: 03/01/2017 12:00 AM to 03/31/2017 11:59 PM
Business Unit Name: 8th Avenue Facility - S09681 (USA)
User: lmercer
Date: Mar 31 2017, 5:17:41 PM - Central Standard Time
Customer Name: WYSER CONSTRUCTION (GEORGETOWN CROSSROADS LLC)
Profile: 112159WAD

Ticket Date	Ticket ID	Customer	Generator	Profile	Truck	Tons
3/20/2017	2606	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	28.45
3/20/2017	2607	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	29.79
3/20/2017	2609	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	29.63
3/20/2017	2610	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	32.25
3/20/2017	2613	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	31.70
3/20/2017	2615	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	38.73
3/20/2017	2617	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	30.58
3/20/2017	2619	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	31.84
3/20/2017	2621	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	33.26
3/20/2017	2622	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	35.09
3/20/2017	2624	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	28.48
3/20/2017	2625	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	28.48
3/20/2017	2627	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	29.95
3/20/2017	2629	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	35.12
3/20/2017	2630	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	30.28
3/21/2017	2632	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	31.12
3/21/2017	2633	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	32.94
3/21/2017	2635	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	31.37
3/21/2017	2639	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	31.95
3/21/2017	2643	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	30.78
3/21/2017	2644	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	32.58
3/24/2017	2762	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	27.35
3/24/2017	2764	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	28.64
3/24/2017	2765	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	28.63
3/27/2017	2768	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	28.11
3/27/2017	2770	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	34.94
3/27/2017	2773	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	32.40
3/27/2017	2775	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	32.82
3/27/2017	2779	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	34.39
3/27/2017	2783	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	32.96
3/27/2017	2786	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	29.94
3/27/2017	2787	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	31.19
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3/27/2017	2793	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	33.39
3/27/2017	2795	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	26.94
3/27/2017	2796	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	28.35

Waste Management

3/27/2017	2798	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	32.41
3/27/2017	2800	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	33.07
3/29/2017	2843	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	30.98
3/29/2017	2847	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	32.21
3/29/2017	2852	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	33.13
3/29/2017	2855	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	W30	27.17
3/29/2017	2858	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	31.41
3/30/2017	2861	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	31.76
3/30/2017	2862	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	32.84
3/30/2017	2864	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	32.60
3/30/2017	2867	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	32.85
3/30/2017	2869	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	33.89
3/30/2017	2871	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	29.65
3/30/2017	2873	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	31.81
3/30/2017	2875	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	28.22
3/30/2017	2880	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	33.25
3/30/2017	2881	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	31.36
3/31/2017	2899	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	30.83
3/31/2017	2900	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	ZS7	29.63
3/31/2017	2902	WYSER CONSTRUCTION	WA-GEORGETOWN CROSSROADS LLC	112159WAD	LL4	26.39
Material Total	56					1753.52

Detail Contract Activity Report

All Ticket Types

Republic Services/Regional Disposal

Specific Contract(s) : 'LW-17038'

History and Waiting

* - Confirmed Qty Applied to Billing

LW-17038

Ticket Date		Customer	Material	Billing Quantity	
03/14/2017	947176	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	25.61	TN
03/14/2017	947183	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	25.69	TN
03/14/2017	947184	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	24.79	TN
03/14/2017	947190	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.03	TN
03/14/2017	947192	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	31.80	TN
03/14/2017	947195	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	32.96	TN
03/14/2017	947198	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	27.26	TN
03/14/2017	947199	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	29.50	TN
03/14/2017	947203	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	29.87	TN
03/14/2017	947204	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.12	TN
03/14/2017	947208	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.60	TN
03/15/2017	947216	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	25.20	TN
03/15/2017	947217	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	23.80	TN
03/15/2017	947225	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	24.23	TN
03/15/2017	947228	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	21.65	TN
03/17/2017	947300	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	27.71	TN
03/17/2017	947301	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	28.18	TN
03/17/2017	947302	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	32.21	TN
03/17/2017	947304	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	35.22	TN
03/17/2017	947306	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	31.24	TN
03/17/2017	947307	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.56	TN
03/17/2017	947309	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.93	TN
03/17/2017	947311	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	29.67	TN
03/17/2017	947315	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.92	TN
03/17/2017	947317	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	33.05	TN
03/17/2017	947321	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	32.19	TN
03/17/2017	947323	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.67	TN
03/17/2017	947325	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	31.84	TN
03/17/2017	947333	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	29.43	TN
03/17/2017	947338	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	31.30	TN
03/17/2017	947340	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	29.26	TN
03/17/2017	947343	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	13.65	TN
03/17/2017	947344	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	32.49	TN
03/17/2017	947345	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	29.32	TN
03/17/2017	947346	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	14.93	TN

03/23/2017	947475	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	28.55	TN
03/23/2017	947476	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	31.17	TN
03/23/2017	947484	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	32.57	TN
03/23/2017	947487	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	29.80	TN
03/23/2017	947497	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	30.72	TN
03/23/2017	947507	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	31.02	TN
03/23/2017	947511	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	28.83	TN
03/23/2017	947513	012878 - Wyser Construction	SW-CONT SOIL W/FUEl	31.52	TN

Tickets 43 Items Reported: 43

Material	Weight Inbound	Out
VH - SW-CONT SOIL W/FUEL	1,242.06	

Republic Services/Regional Disposal

WYSER INC
CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 14, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	L & L Transport	4030/947183	9:37 AM	25.69 ton	Regional Disposal	3/14/2017	Class 3 Soil	25.69	
2	L & L Transport	4030/947192	11:22 AM	31.80 ton	Regional Disposal	3/14/2017	Class 3 Soil	31.80	
3	L & L Transport	4030/947198	12:29 PM	27.26 ton	Regional Disposal	3/14/2017	Class 3 Soil	27.26	
4	L & L Transport	4030/947203	1:07 PM	29.87 ton	Regional Disposal	3/14/2017	Class 3 Soil	29.87	
5	L & L Transport	4030/947208	1:50 PM	30.60 ton	Regional Disposal	3/14/2017	Class 3 Soil	30.60	*145.22*
6	Z & S Trucking	1669/947176	8:12 AM	25.61 ton	Regional Disposal	3/14/2017	Class 3 Soil	25.61	
7	Z & S Trucking	1669/947184	9:42 AM	24.79 ton	Regional Disposal	3/14/2017	Class 3 Soil	24.79	
8	Z & S Trucking	1669/947190	11:06 AM	30.03 ton	Regional Disposal	3/14/2017	Class 3 Soil	30.03	
9	Z & S Trucking	1669/947195	11:46 AM	32.96 ton	Regional Disposal	3/14/2017	Class 3 Soil	32.96	
10	Z & S Trucking	1669/947199	12:37 PM	29.50 ton	Regional Disposal	3/14/2017	Class 3 Soil	29.50	
11	Z & S Trucking	1669/947204	1:23 PM	30.12 ton	Regional Disposal	3/14/2017	Class 3 Soil	30.12	*173.01*
12									
13									
14									
15									
16									
17									
18									
19									
20					Class	3 Soil	Total Tons	318.23	
21									
22									
23									

WYSER INC CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 15, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	L & L Transport	4031/947216	8:40 AM	25.20 ton	Regional Disposal	3/15/2017	Class 3 Soil	25.20	
2	L & L Transport	4031/947225	11:59 AM	24.23 ton	Regional Disposal	3/15/2017	Class 3 Soil	24.23	*49.43*
3	Dave Owens Trucking	734434/947217	8:42 AM	23.80 ton	Regional Disposal	3/15/2017	Class 3 Soil	23.80	
4	Dave Owens Trucking	734434/947228	12:02 PM	21.65 ton	Regional Disposal	3/15/2017	Class 3 Soil	21.65	*45.45*
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20					Class	3 Soil	Total Tons	94.88	
21									
22									
23									

WYSER INC CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 17, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	Wyser Construction	3167/947343	2:47 PM	13.65 ton	Regional Disposal	3/17/2017	Class 3 Soil	13.65	
2	Wyser Construction	3167/947346	3:18 PM	14.93 ton	Regional Disposal	3/17/2017	Class 3 Soil	14.93	*28.58*
3	L & L Transport	4033/947301	7:51 AM	28.18 ton	Regional Disposal	3/17/2017	Class 3 Soil	28.18	
4	L & L Transport	4033/947304	8:25 AM	35.22 ton	Regional Disposal	3/17/2017	Class 3 Soil	35.22	
5	L & L Transport	4033/947307	9:01 AM	30.56 ton	Regional Disposal	3/17/2017	Class 3 Soil	30.56	
6	L & L Transport	4033/947311	9:47 AM	29.67 ton	Regional Disposal	3/17/2017	Class 3 Soil	29.67	
7	L & L Transport	4033/947317	10:31 AM	33.05 ton	Regional Disposal	3/17/2017	Class 3 Soil	33.05	
8	L & L Transport	4033/947323	11:15 AM	30.67 ton	Regional Disposal	3/17/2017	Class 3 Soil	30.67	
9	L & L Transport	4033/947345	3:06 PM	29.32 ton	Regional Disposal	3/17/2017	Class 3 Soil	29.32	*216.67*
10	Z & S Trucking	1671/947300	7:44 AM	27.71 ton	Regional Disposal	3/17/2017	Class 3 Soil	27.71	
11	Z & S Trucking	1671/947302	8:15 AM	32.21 ton	Regional Disposal	3/17/2017	Class 3 Soil	32.21	
12	Z & S Trucking	1671/947306	8:55 AM	31.24 ton	Regional Disposal	3/17/2017	Class 3 Soil	31.24	
13	Z & S Trucking	1671/947309	9:41 AM	30.93 ton	Regional Disposal	3/17/2017	Class 3 Soil	30.93	
14	Z & S Trucking	1671/947315	10:22 AM	30.92 ton	Regional Disposal	3/17/2017	Class 3 Soil	30.92	
15	Z & S Trucking	1671/947321	11:00 AM	32.19 ton	Regional Disposal	3/17/2017	Class 3 Soil	32.19	
16	Z & S Trucking	1671/947325	11:42 AM	31.84 ton	Regional Disposal	3/17/2017	Class 3 Soil	31.84	
17	Z & S Trucking	1671/947333	12:42 PM	29.43 ton	Regional Disposal	3/17/2017	Class 3 Soil	29.43	
18	Z & S Trucking	1671/947338	1:15 PM	31.30 ton	Regional Disposal	3/17/2017	Class 3 Soil	31.30	
19	Z & S Trucking	1671/947340	2:00 PM	29.26 ton	Regional Disposal	3/17/2017	Class 3 Soil	29.26	
20	Z & S Trucking	1671/947344	2:51 PM	32.49 ton	Regional Disposal	3/17/2017	Class 3 Soil	32.49	*339.52*
21									
22									
23					Class	3 Soil	Total Tons	584.77	
24									

WYSER INC CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 20, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	Wyser Construction	3168/2607	9:00 AM	29.79 ton	Waste Management	3/20/2017	Class 3 Soil	29.79	
2	Wyser Construction	3168/2610	9:47 AM	32.25 ton	Waste Management	3/20/2017	Class 3 Soil	32.25	
3	Wyser Construction	3168/2615	11:07 AM	38.73 ton	Waste Management	3/20/2017	Class 3 Soil	38.73	
4	Wyser Construction	3168/2619	12:14 PM	31.84 ton	Waste Management	3/20/2017	Class 3 Soil	31.84	
5	Wyser Construction	3168/2622	12:52 PM	35.09 ton	Waste Management	3/20/2017	Class 3 Soil	35.09	
6	Wyser Construction	3168/2625	1:28 PM	28.48 ton	Waste Management	3/20/2017	Class 3 Soil	28.48	
7	Wyser Construction	3168/2629	2:28 PM	35.12 ton	Waste Management	3/20/2017	Class 3 Soil	35.12	*231.30*
8	L & L Transport	4035/2606	8:58 AM	28.45 ton	Waste Management	3/20/2017	Class 3 Soil	28.45	
9	L & L Transport	4035/2609	9:41 AM	29.63 ton	Waste Management	3/20/2017	Class 3 Soil	29.63	
10	L & L Transport	4035/2613	10:51 AM	31.70 ton	Waste Management	3/20/2017	Class 3 Soil	31.70	
11	L & L Transport	4035/2617	11:45 AM	30.58 ton	Waste Management	3/20/2017	Class 3 Soil	30.58	
12	L & L Transport	4035/2621	12:36 PM	33.26 ton	Waste Management	3/20/2017	Class 3 Soil	33.26	
13	L & L Transport	4035/2624	1:21 PM	28.48 ton	Waste Management	3/20/2017	Class 3 Soil	28.48	
14	L & L Transport	4035/2627	2:03 PM	29.95 ton	Waste Management	3/20/2017	Class 3 Soil	29.95	
15	L & L Transport	4035/2630	2:45 PM	30.28 ton	Waste Management	3/20/2017	Class 3 Soil	30.28	*242.33*
16									
17									
18									
19									
20					Class	3 Soil	Total Tons	473.63	
21									
22									
23									

WYSER INC
CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 21, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	Wyser Construction	3169/2632	7:51 AM	31.12 ton	Waste Management	3/21/2017	Class 3 Soil	31.12	
2	Wyser Construction	3169/2633	8:24 AM	32.94 ton	Waste Management	3/21/2017	Class 3 Soil	32.94	
3	Wyser Construction	3169/2635	8:54 AM	31.37 ton	Waste Management	3/21/2017	Class 3 Soil	31.37	
4	Wyser Construction	3169/2639	9:55 AM	31.95 ton	Waste Management	3/21/2017	Class 3 Soil	31.95	
5	Wyser Construction	3169/2643	10:35 AM	30.78 ton	Waste Management	3/21/2017	Class 3 Soil	30.78	
6	Wyser Construction	3169/2644	11:13 AM	32.58 ton	Waste Management	3/21/2017	Class 3 Soil	32.58	*190.74*
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20					Class	3 Soil	Total Tons	190.74	
21									
22									
23									

WYSER INC
CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 23, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	Wyser Construction	3174/947476	8:57 AM	31.17 ton	Regional Disposal	3/23/2017	Class 3 Soil	31.17	
2	Wyser Construction	3174/947487	10:06 AM	29.80 ton	Regional Disposal	3/23/2017	Class 3 Soil	29.80	
3	Wyser Construction	3174/947507	11:41 AM	31.02 ton	Regional Disposal	3/23/2017	Class 3 Soil	31.02	
4	Wyser Construction	3174/947513	12:59 PM	31.52 ton	Regional Disposal	3/23/2017	Class 3 Soil	31.52	*123.51*
5	L & L Transport	4038/947475	8:13 AM	28.55 ton	Regional Disposal	3/23/2017	Class 3 Soil	28.55	
6	L & L Transport	4038/947484	9:54 AM	32.57 ton	Regional Disposal	3/23/2017	Class 3 Soil	32.57	
7	L & L Transport	4038/947497	11:06 AM	30.72 ton	Regional Disposal	3/23/2017	Class 3 Soil	30.72	
8	L & L Transport	4038/947511	12:45 PM	28.83 ton	Regional Disposal	3/23/2017	Class 3 Soil	28.83	*120.67*
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20					Class	3 Soil	Total Tons	244.18	
21									
22									
23									

WYSER INC CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 24, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS
1	Wyser Construction	3177/2765	2:58 PM	28.63 ton	Waste Management	3/24/2017	Class 3 Soil	28.63
2	L & L Transport	4041/2762	2:33 PM	27.35 ton	Waste Management	3/24/2017	Class 3 Soil	27.35
3	Z & S Trucking	1678/2764	2:56 PM	28.64 ton	Waste Management	3/24/2017	Class 3 Soil	28.64
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20					Class	3 Soil	Total Tons	84.62
21								
22								
23								

WYSER INC
CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 27, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	Wyser Construction	3178/2768	7:26 AM	28.11 ton	Waste Management	3/27/2017	Class 3 Soil	28.11	
2	Wyser Construction	3178/2770	7:58 AM	34.94 ton	Waste Management	3/27/2017	Class 3 Soil	34.94	
3	Wyser Construction	3178/2773	8:32 AM	32.40 ton	Waste Management	3/27/2017	Class 3 Soil	32.40	
4	Wyser Construction	3178/2775	9:05 AM	32.82 ton	Waste Management	3/27/2017	Class 3 Soil	32.82	
5	Wyser Construction	3178/2779	9:43 AM	34.39 ton	Waste Management	3/27/2017	Class 3 Soil	34.39	
6	Wyser Construction	3178/2783	11:03 AM	32.96 ton	Waste Management	3/27/2017	Class 3 Soil	32.96	
7	Wyser Construction	3178/2786	12:08 PM	29.94 ton	Waste Management	3/27/2017	Class 3 Soil	29.94	
8	Wyser Construction	3178/2790	1:04 PM	33.64 ton	Waste Management	3/27/2017	Class 3 Soil	33.64	
9	Wyser Construction	3178/2795	1:45 PM	26.94 ton	Waste Management	3/27/2017	Class 3 Soil	26.94	
10	Wyser Construction	3178/2798	2:19 PM	32.41 ton	Waste Management	3/27/2017	Class 3 Soil	32.41	
11	Wyser Construction	3178/2800	3:00 PM	33.07 ton	Waste Management	3/27/2017	Class 3 Soil	33.07	*351.62*
12	Z & S Trucking	1680/2787	12:21 PM	31.19 ton	Waste Management	3/27/2017	Class 3 Soil	31.19	
13	Z & S Trucking	1680/2793	1:24 PM	33.39 ton	Waste Management	3/27/2017	Class 3 Soil	33.39	
14	Z & S Trucking	1680/2796	1:54 PM	28.35 ton	Waste Management	3/27/2017	Class 3 Soil	28.35	*92.93*
15									
16									
17									
18									
19					Class	3 Soil	Total Tons	444.55	
20									
21									
22									
23									

WYSER INC. CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 29, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	Wyser Construction	3181/2855	1:55 PM	27.17 ton	Waste Mgmt.	3/29/2017	Class 3 Soil	27.17	*27.17*
2	Z & S Trucking	1683/2843	11:08 AM	30.98 ton	Waste Mgmt.	3/29/2017	Class 3 Soil	30.98	
3	Z & S Trucking	1683/2847	12:28 PM	32.21 ton	Waste Mgmt.	3/29/2017	Class 3 Soil	32.21	
4	Z & S Trucking	1683/2852	1:39 PM	33.13 ton	Waste Mgmt.	3/29/2017	Class 3 Soil	33.13	
5	Z & S Trucking	1683/2858	2:46 PM	31.41 ton	Waste Mgmt.	3/29/2017	Class 3 Soil	31.41	*127.73*
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20					Class	3 Soil	Total Tons	154.90	
21									
22									
23									

WYSER INC CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 30, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS	
1	L & L Transport	4046/2861	7:22 AM	31.76 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	31.76	
2	L & L Transport	4046/2864	8:27 AM	32.60 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	32.60	
3	L & L Transport	4046/2871	9:57 AM	29.65 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	29.65	
4	L & L Transport	4046/2875	11:05 AM	28.22 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	28.22	
5	L & L Transport	4046/2880	1:10 PM	33.25 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	33.25	*155.48*
6	Z & S Trucking	1684/2862	7:46 AM	32.84 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	32.84	
7	Z & S Trucking	1684/2867	8:48 AM	32.85 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	32.85	
8	Z & S Trucking	1684/2869	9:46 AM	33.89 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	33.89	
9	Z & S Trucking	1684/2873	10:49 AM	31.81 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	31.81	
10	Z & S Trucking	1684/2881	1:17 PM	31.36 ton	Waste Mgmt.	3/30/2017	Class 3 Soil	31.36	*162.75*
11									
12									
13									
14									
15									
16									
17									
18									
19									
20					Class	3 Soil	Total Tons	318.23	
21									
22									
23									

WYSER INC CONSTRUCTION

EXPORT MATERIALS LOG

Prologis, Inc. **Georgetown Crossroads-Soil Cleanup** **DATE: March 31, 2017**
PRO-17-1495

LOAD NO.	TRUCKING COMPANY	MANIFEST #	DUMP TIME	ESTIMATED QUANTITY	LOCATION	DATE	TYPE OF MATERIALS	TONNAGE SLIPS
1	L & L Transport √	4049/2899	1:56 PM	30.83 ton	Waste Mgmt.	3/31/2017	Class 3 Soil	30.83
2	L & L Transport	4049/2902	2:30 PM	26.39 ton	Waste Mgmt.	3/31/2017	Class 3 Soil	26.39 *57.22*
3	Z & S Trucking √	1687/2900	2:05 PM	29.63 ton	Waste Mgmt.	3/31/2017	Class 3 Soil	29.63
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20					Class	3 Soil	Total Tons	86.85
21								
22								
23								

April 24 to May 3, 2017 - Soil Disposal Documentation

Waste Management

Customer Summary Report
Criteria: 04/17/2017 12:00 AM to 04/28/2017 11:59 PM
Business Unit Name: 8th Avenue Facility - S09681 (USA)
Customer Name: HOS BROS CONSTRUCTION INC (HOS BROS CONSTRUCTION INC)

Ticket Date	Ticket ID	Cust Code	MAS Unique ID	Generator	Profile	Truck	Tons	Total
4/28/2017	3624	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	28.86	$1,315.44
4/28/2017	3627	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	31.1	$1,417.54
4/28/2017	3657	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	24.15	$1,100.77
4/28/2017	3662	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	27.89	$1,271.24
4/28/2017	3664	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	29.68	$1,352.81
4/24/2017	3356	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	Profile	Fee	$75.00
Customer Total	**6**						**141.68**	**$6,532.80**

Waste Management

Customer Summary Report
Criteria: 05/01/2017 12:00 AM to 05/12/2017 11:59 PM
Business Unit Name: 8th Avenue Facility - S09681 (USA)
Customer Name: HOS BROS CONSTRUCTION INC (HOS BROS CONSTRUCTION INC)

Ticket Date	Ticket ID	Cust Code	Cust ID	Generator	Profile	Truck	Tons	Total
5/1/2017	3675	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	27.3	$1,244.33
5/1/2017	3676	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	29.5	$1,344.61
5/1/2017	3679	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	34.22	$1,559.75
5/1/2017	3680	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	40.91	$1,864.69
5/1/2017	3685	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	34.09	$1,553.83
5/1/2017	3686	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	25.17	$1,147.26
5/1/2017	3689	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	27.66	$1,260.74
5/1/2017	3690	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	25.76	$1,174.14
5/1/2017	3692	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	30.98	$1,412.07
5/1/2017	3696	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	28.87	$1,315.90
5/1/2017	3698	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	32.85	$1,497.31
5/1/2017	3699	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	28.85	$1,314.99
5/1/2017	3701	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	30.22	$1,377.43
5/1/2017	3705	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	27.05	$1,232.95
5/1/2017	3706	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	26.46	$1,206.05
5/1/2017	3708	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	29.77	$1,356.93
5/1/2017	3715	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	30.8	$1,403.86
5/1/2017	3718	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	27.27	$1,242.98
5/1/2017	3721	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	28.02	$1,277.15
5/1/2017	3725	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	27.99	$1,275.79
5/1/2017	3726	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	25.59	$1,166.40
5/1/2017	3728	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	26.74	$1,218.81
5/1/2017	3733	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	25.54	$1,164.11
5/1/2017	3734	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	30.57	$1,393.39
5/1/2017	3736	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	29.01	$1,322.29
5/1/2017	3745	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	31.87	$1,452.64
5/1/2017	3746	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	32.33	$1,473.61
5/1/2017	3748	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	34.17	$1,557.47
5/1/2017	3753	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	33.16	$1,511.43
5/1/2017	3754	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	30.63	$1,396.13
5/1/2017	3757	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1817	29.78	$1,357.37
5/1/2017	3760	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	28.16	$1,283.53
5/1/2017	3761	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	27.27	$1,242.98
5/1/2017	3767	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1828	27.83	$1,268.50
5/3/2017	3879	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	27.04	$1,232.48
5/3/2017	3880	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1821	24.04	$1,095.74
5/3/2017	3881	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1822	24.09	$1,098.03
5/3/2017	3886	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	23.61	$1,076.15
5/3/2017	3887	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1821	26.49	$1,207.42
5/3/2017	3889	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1822	27.32	$1,245.25
5/3/2017	3914	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1822	29.1	$1,326.38
5/3/2017	3917	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	28.17	$1,284.00
5/3/2017	3924	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1821	27.04	$1,232.48
5/3/2017	3928	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1822	25.95	$1,182.81
5/3/2017	3931	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	26.47	$1,206.51
5/3/2017	3933	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1821	22.68	$1,033.75
5/3/2017	3936	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1822	26.74	$1,218.81
5/3/2017	3940	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	28.29	$1,289.47
5/3/2017	3941	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1821	26.13	$1,191.02
5/3/2017	3947	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1822	28.17	$1,284.00
5/3/2017	3951	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	31.49	$1,435.32
5/3/2017	3958	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1822	24.91	$1,135.41
5/3/2017	3959	0000121	183478933002	WA-GEORGETOWN CROSSROADS LLC	112260WAD	H1818	24.16	$1,101.21
Customer Total	**53**						**1508.28**	**$68,747.66**