



CHEVRON BULK PLANT - PULLMAN
815 NE COLLEGE AVE, PULLMAN
TCP SITE INVESTIGATION REPORT

WHITMAN

04/2010





The Benham Companies, LLC
A Wholly Owned Subsidiary

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LETTER OF TRANSMITTAL

TO: Mr. Dan Carrier, Chevron Environmental Management Company

FROM: Mr. Don Wyll, SAIC

DATE: April 15, 2010

SUBJECT: Site Investigation Report
Former Standard Oil Bulk Plant/Chevron Site #206196
815 E. College Street
Pullman, Washington

RECEIVED

APR 19 2010

DEPARTMENT OF ECOLOGY
EASTERN REGIONAL OFFICE

Dear Mr. Carrier,

SAIC-Benham is pleased to submit the following Site Investigation Report for the Former Standard Oil Bulk Plant No. 206196 in Pullman, Washington. Enclosed, please find one copy of the *Site Investigation Report*.

Please direct any questions or comments regarding this report to Mr. Wyll at (425) 482-3315 or wylld@saic.com.

cc: Mr. John Reed, Washington State University
Mr. Mike Boatsman, WDOE, Eastern Region Toxics Cleanup Program
SAIC file

Enclosures as stated

**SITE INVESTIGATION REPORT
FORMER STANDARD OIL BULK PLANT
NO. 206196
815 NE College Street
Pullman, Washington**

April 15, 2010

**Prepared for:
Chevron Environmental Management Company
145 S. State College Blvd.
Brea, California 92821**

**Prepared by:
The Benham Companies, LLC
an SAIC Company
18912 North Creek Parkway, Suite 101
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**SITE INVESTIGATION REPORT
FORMER STANDARD OIL BULK PLANT
NO. 206196**

1. INTRODUCTION

This report documents the activities and findings of a soil investigation and groundwater monitoring performed by the Benham Companies, LLC, an SAIC Company (SAIC-Benham), on behalf of Chevron Environmental Management Company (Chevron). The purpose of this investigation was to delineate the vertical and lateral extent of soil impacts at the former Standard Oil bulk plant No. 206196 property located in Pullman, Washington.

2. SITE BACKGROUND

2.1 SITE DESCRIPTION

The former Standard Oil bulk plant is located at 815 NE College Street in the city of Pullman, Washington, on the campus of Washington State University (WSU). Former site facilities included an office building, a garage, a warehouse, eight aboveground storage tanks (ASTs), an underground septic tank, 500-gallon fuel oil underground storage tank (UST; removed in 1991), pumping equipment, loading rack, and an unloading header (Figure 1). The ASTs contained heating oil, diesel, unleaded gasoline, and supreme gasoline. The existing features on site include the original bulk plant garage, a storage shed, concrete platforms, and foundation from the former facility.

The area surrounding the site consists of an inactive coal power plant, owned by WSU, across College Avenue to the north; East Main Street (Highway 270) overpass embankment to the south; an embankment rising about 20 feet to Tacoma Street to the east; and Burlington Northern Santa Fe Railroad (BNSF) spur line, NE Spring Street, and a city park to the west.

2.2 PREVIOUS INVESTIGATIONS

Standard Oil owned the property and operated the bulk plant from approximately 1921 to 1981. In 1981 the facility was decommissioned, and the property was sold to WSU in October of 1982 for 1 dollar. Petroleum hydrocarbons were first discovered on the site in August 1991 during a geotechnical investigation for the Washington State Department of Transportation (WSDOT). Petroleum-impacted soils and groundwater were encountered in borings drilled for the proposed construction of the Highway 270 Bridge (RZA-AGRA, 1992).

Between 1991 and 1993, several site investigations had been conducted. Site investigation activities included advancing several soil borings and installing monitoring wells MW-1 through MW-10. Gasoline-, diesel-, and heavy oil-range hydrocarbons; and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected at concentrations greater than Washington Department of Ecology (WDOE) Model Toxics Control Act (MTCA) Method A cleanup levels in soil and groundwater beneath the former bulk plant property and off-site property to the west and northwest (RZA-AGRA, 1993).

In June 1993, passive product skimmers were placed in MW-8 and MW-10. Hand bailing of light non-aqueous phase liquid (LNAPL) was initiated in MW-9 in December 1996. Approximately 5.8 gallons of LNAPL were removed from the three wells in the period between June 1993 and May 1997.

In 1995, approximately 1,200 cubic yards of contaminated soil were removed from the site during the WSDOT's bridge construction project. An additional 300 cubic yards of contaminated soil was stockpiled on the former bulk plant site and was later removed. The soil was excavated from the southwest corner of the former bulk plant property, just southeast of MW-2. During the excavation, approximately 27,500 gallons of water were removed, tested, and disposed in the sanitary sewer in accordance with the City of Pullman's disposal criteria.

In November 2000, a site investigation was performed that included the installation of four monitoring wells (MW-9A, MW-10A, MW-13, and MW-14) and one soil boring (B-10) to further characterize subsurface soil and groundwater quality in relation to petroleum hydrocarbons. Gasoline- and diesel-range hydrocarbons and benzene were detected in boring B-10 and monitoring well MW-14 at concentrations exceeding MTCA Method A cleanup levels (KHM, 2000).

Between November 2001 and March 2002, four additional wells were installed (MW-15, MW-16 and MW-17, and MW-6A) to further assess and document site conditions at the subject property. Gasoline-range hydrocarbons and benzene and total xylenes in soil were detected in borings B-15/MW-15 and B-17/MW-17 at concentrations exceeding MTCA Method A cleanup levels. Diesel-range hydrocarbons were detected in soil in borings B-6A/MW-6A and B17/MW-17 at concentrations exceeding MTCA Method A cleanup levels, and heavy oil-range hydrocarbons were detected in B-6A/MW-6A at a concentration exceeding MTCA Method A cleanup levels (Delta, 2002).

Monitoring wells MW-18, MW-19, and MW-20 were installed in September 2008 by SAIC to delineate the down-gradient extent of the dissolved-phase groundwater plume. Gasoline-, diesel-, and heavy oil-range hydrocarbons, as well as BTEX and methyl tertiary butyl ether (MTBE) detections were either below cleanup levels or below laboratory method detection limits in all soil and groundwater samples from the off-site monitoring wells.

Since April 2009, the off-site monitoring wells have been sampled quarterly and LNAPL has been bailed during these sampling events from MW-8, MW-9A, MW-14, and MW-16.

3. SUBSURFACE CONDITIONS

3.1 GEOLOGY

The geology of the site is characterized by fluvial sediments and flood plain deposits from the South Fork Palouse River, which overlies the Miocene age Wanapum Formation Priest Rapids Member basalt. Overlying the fluvial deposits is fill material that consists of silty sand and gravel with metal, polyvinyl chloride (PVC), and concrete debris. The fill material is approximately 3 feet thick beneath the former bulk plant and increases up to 9 feet in thickness toward the west near MW-20. Underlying the fill material, fluvial sediments and flood plain deposits are up to 12 feet in thickness and consist of sandy silt and clay with occasional organic-rich silt layers. The Wanapum Formation Priest Rapids Member underlies the fluvial deposits and its upper surface varies in depth. The basalt unit has been observed up to a depth of 2,210 feet below ground surface (bgs).

3.2 HYDROGEOLOGY

Groundwater levels in the monitoring wells were observed at depths between 3.17 and 9.50 feet bgs during the most recent groundwater monitoring event in August 2009. In general, flow beneath the site appears to be to the northwest at a gradient of 0.013 foot per foot (ft/ft).

Groundwater flow direction is generally to the northwest toward the South Fork of the Palouse River, which is located approximately 600 feet west of the site.

4. INVESTIGATION ACTIVITIES

This site investigation was performed between October 21st and October 30th, 2009, and was designed to delineate the vertical and lateral extent of soil impacts at the former bulk plant property. The field investigation included advancement of soil borings and installation of groundwater monitoring wells MW-21 through MW-23. The lateral extent of the site investigation was limited by train tracks to the west, steep topography to the south and east, and utilities and NE College Street to the north. The vertical extent was limited by bedrock encountered in many of the borings. Bedrock was encountered and refusal was met between 4.5 and 17 feet bgs in the soil borings drilled during the investigation.

All soil borings, except for SB-10, were cleared to a minimum depth of 8 feet bgs using a vacuum truck or hand auger. Bedrock was encountered in boring SB-10 at 4.5 feet bgs. A total of 21 soil borings (SB-1 to SB-18) were completed and sampled to final depth with a Geoprobe[®] direct-push rig. Three of the 21 borings (MW-21, MW-22 and MW-23) were later completed as 4-inch groundwater monitoring wells with a hollow-stem auger.

4.1 SOIL SAMPLING

Borings were logged in accordance with the Unified Soil Classification System (USCS), Visual Manual Procedures (American Society for Testing and Materials Method D2488), and field screened for the presence of sheen and organic vapors with a photo-ionization detector (PID). Boring logs are presented as Appendix A.

Three soil samples were collected from each boring for laboratory analysis. Samples were collected in borings just above and below the water table, and at the base of each boring. All samples were analyzed by Lancaster Laboratories, Inc. located in Lancaster, Pennsylvania. Soil analytical results are presented in Table 1. Complete laboratory reports are presented as Appendix B.

All samples collected from the soil borings were analyzed for the following parameters:

- Gasoline-range hydrocarbons by WDOE Method NWTPH-Gx;
- Diesel-range hydrocarbons by WDOE Method NWTPH-Dx;
- Heavy-oil range hydrocarbons by WDOE Method NWTPH-Dx; and
- BTEX by United States Environmental Protection Agency (USEPA) Method 8260B.

Select samples where soil impacts were suspected based on field screening were additionally analyzed for the following parameters:

- Lead by USEPA Method 6020;
- MTBE by USEPA Method 8260B;
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by USEPA Method 8270 SIM;
- Naphthalene by USEPA Method 8260B;
- Volatile petroleum hydrocarbons (VPH) by Ecology Method WA-VPH; and
- Extractable petroleum hydrocarbons (EPH) by Ecology Method WA-EPH.

Additional soil samples were analyzed for Total Organic Content by USEPA Method 9060A modified, where field screening indicated no impacts were present.

All reusable sampling equipment was decontaminated by washing in a Liquinox™ solution followed by an initial rinse in tap water and a final rinse in deionized water. Hand augers, sample collection bowls, and split spoon sample barrels were decontaminated immediately after collecting, logging, and screening each sample. Augers were decontaminated by pressure washing between each sampling location. All other sampling equipment, such as gloves, plastic bags, and disposable bailers were placed into a waste container after each use.

Soil, decontamination water, development water, and purge water accumulated during investigation activities were temporarily stored on the property in 55-gallon drums and were taken to CEMEX's facility for thermal treatment and recycling in November 2009.

4.2 MONITORING WELL INSTALLATION AND DEVELOPMENT

Monitoring wells MW-21, MW-22, and MW-23 were constructed in accordance with the Minimum Standards for Construction and Maintenance of Wells (Chapter 173-160 WAC). The wells were constructed of 4-inch diameter, schedule 40 PVC casing and screened with 0.010-inch slotted casing. The annular space around the slotted well screens were filled with Monterey sand (#2/12), extending a minimum of 1 foot above the top of the well screens. One to 2 feet of hydrated bentonite chips were placed above the sand as an annular sealant. The well head covers have watertight and expandable seals to protect the wells against surface water infiltration. The monitoring wells were finished with a concrete seal and a flush-grade steel well monument. Well installation logs are presented as Appendix A.

Following construction, all monitoring wells were developed by surging with a surge block and water was subsequently removed from each of the wells until 10 well-casing volumes were removed using a 4 inch-diameter disposable bailer.

4.3 LIGHT NON-AQUEOUS PHASE LIQUIDS BAILING AND RECOVERY

Light non-aqueous phase liquids (LNAPL) were measured and bailed from monitoring wells MW-8, MW-9A, MW-14, and MW-16 on October 21st, 28th, and 30th, 2009. The LNAPL thicknesses were measured prior to product bailing with a product interface probe and results are presented in Table 2.

5. NATURE AND EXTENT OF PETROLEUM IMPACTS

5.1 SOIL

Based on field screening and soil analytical results, petroleum-impacted soil exists on the subject property exceeding MTCA Method A cleanup levels.

Gasoline and benzene appear to be the most widespread constituents of concern across the site as depicted in Figure 2 and 3, respectively. Gasoline was detected in all of the soil borings installed in October 2009 at concentrations above MTCA Method A cleanup levels. The highest concentrations of gasoline in soil were detected northwest of the former AST tank farm in borings SB-3, SB-12, and MW-21, and on the northern portion of the property in SB-8 west of the former truck trailer loading rack, at an average depth of 4 to 6 feet bgs. A sample collected at 4 feet bgs in boring SB-8 had the highest gasoline-range hydrocarbon detection of 6,600 milligrams per kilogram (mg/kg). Detections of benzene also occur near the former truck trailer loading rack and the former AST farm at concentrations significantly above MTCA Method A cleanup levels.

Diesel-range hydrocarbons with concentrations detected above MTCA Method A cleanup levels appear to be limited to the southern portion of the property northwest of the former AST farm, and are relatively shallow, between 2 and 4 feet bgs (Figure 4). Despite being detected at concentrations above MTCA Method A cleanup levels in boring MW-6A off site during a 2002 site investigation, heavy-oil range hydrocarbons were not detected in any of the borings on site at concentrations exceeding MTCA Method A cleanup levels (Table 1). Figures 5 through 7 present the approximate extent of one or more petroleum constituents exceeding MTCA Method A soil cleanup levels in geologic cross sections.

Petroleum-impacted soil has been fully delineated on site; however, impacts may extend beneath the rail spur line to the west. Soil borings installed in 2008, further west of the rail spur line, were either below MTCA Method A cleanup levels or below laboratory detection limits.

5.2 GROUNDWATER

During the second and third quarter (April 3rd and August 3rd) 2009 groundwater sampling events, no constituents sampled had detections above laboratory method detection limits in the off-site wells (Figure 8) MW-12, MW-18, MW-19, and MW 20 (Table 3).

During the on-site groundwater sampling event that occurred on December 9th, 2009, gasoline- and diesel-range hydrocarbons and benzene were detected in groundwater at concentrations exceeding MTCA Method A cleanup levels in wells MW-21, MW-22, and MW-23.

Additionally, toluene was detected at a concentration above MTCA Method A cleanup levels in monitoring well MW-23. Groundwater monitoring results are presented in Table 3 and a full laboratory report is presented as Appendix B.

5.3 LIGHT NON-AQUEOUS PHASE LIQUIDS

LNAPL was detected in monitoring wells MW-8, MW-9A, MW-14, and MW-16 during the site investigation. In general, LNAPL thicknesses decreased during the subsequent bailing events on October 21st, 28th, and 30th, 2009. Between the April 2009 bailing event and the site investigation that occurred in October 2009, approximately 20 gallons of product were removed. LNAPL did not recover to pre-bailed thicknesses in any of the monitoring wells where it was detected, and during the third round of measurements no product was detected in MW-8.

6. CONCLUSIONS

The horizontal and vertical extent of petroleum-impacted soil has been well defined by this investigation, and is widespread across the property and may extend to the west under the rail spur line. During the September 2008 investigation further to the west, no petroleum impacts were detected in off-site soil borings at concentrations exceeding MTCA Method A cleanup levels.

Gasoline-range hydrocarbons and benzene concentrations are the primary on-site constituents of concern, and typically occur between 4 and 6 feet bgs. Diesel-range hydrocarbons were detected at concentrations above MTCA Method A cleanup levels, but appear to be limited to the southern portion of the site northwest of the former ASTs at a relatively shallow depth of 2 to 5 feet bgs. The vertical extent of petroleum-impacted soil is confined by the bedrock, which ranges in depth between 4 and 17 feet bgs.

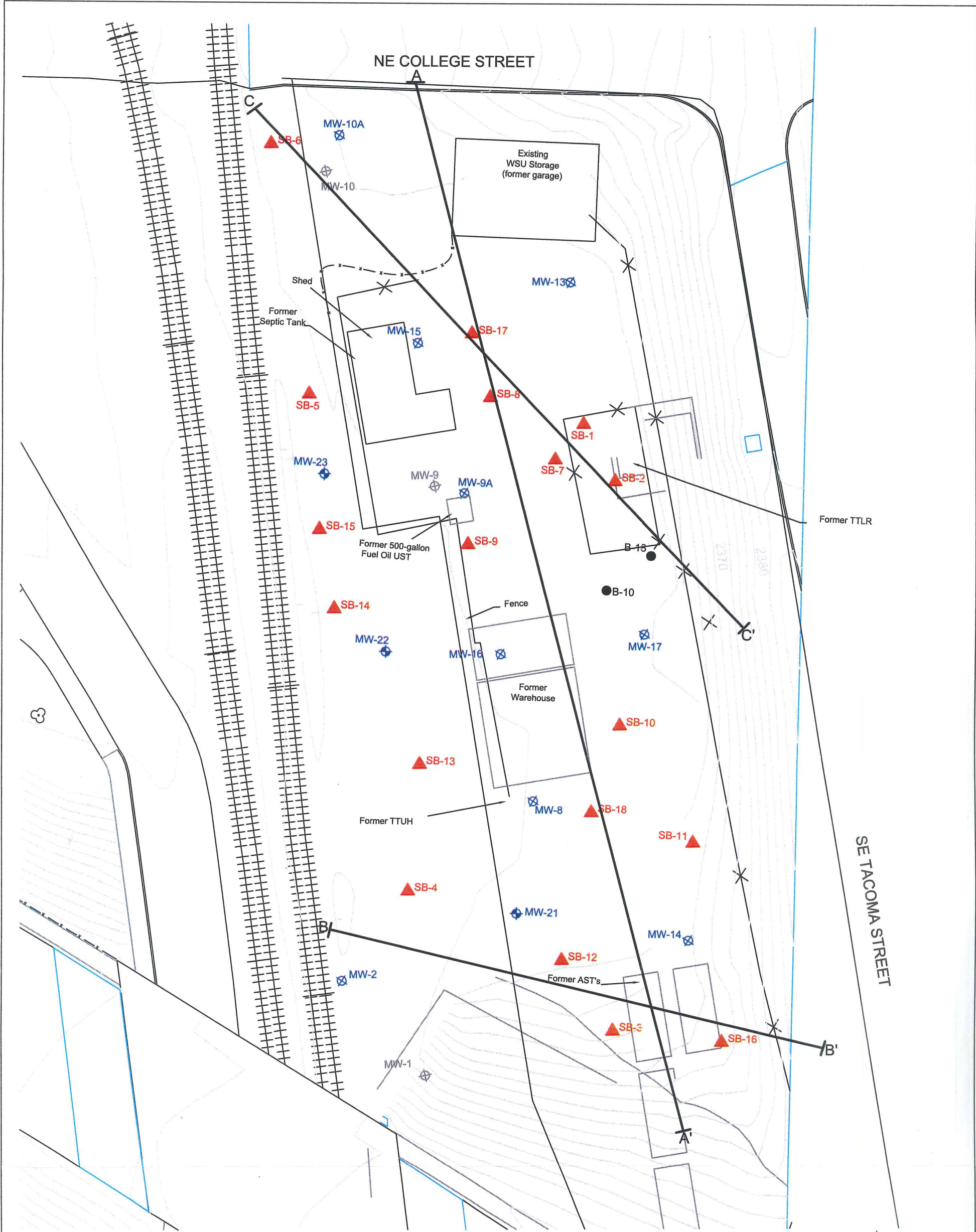
The horizontal extent of petroleum-impacted groundwater has been well defined and does not extend to the South Fork Palouse River. Since 2007, dissolved-phase hydrocarbon constituents

in groundwater have not been detected in off-site monitoring wells at concentrations exceeding their respective method detection limits. Groundwater samples collected from on-site monitoring wells between 2007 and 2008 showed a decrease or stabilization of hydrocarbon concentrations. Monitoring at the property since April 2009 indicates that the seasonal fluctuation of groundwater elevations may have some impact on LNAPL thickness; however, bailing of LNAPL from monitoring wells MW-8, MW-9A, MW-14, and MW-16 has been generally successful at decreasing or stabilizing the thickness of LNAPL. Since April 2009, 20 gallons of LNAPL have been removed from the four wells.

7. REFERENCES

- Delta 2002. *Sub-surface Environmental Investigation, Former Chevron Bulk Plant 20-6196, 815 College Avenue, Pullman, Washington.* Dated March 29, 2002.
- KHM 2000. *Groundwater Monitoring Well Installation and Enhanced Fluid Recovery, Former Chevron Bulk Terminal No. 100-1224, 815 College Avenue, Pullman, Washington.* Dated June 18, 2001.
- RZA-AGRA 1992. *Level I Environmental Site Assessment, BNRR Overcrossing, Bridge No. 270/4 Replacement, Pullman, Washington.* Dated June 26, 1992.
- RZA-AGRA 1993. *Environmental Site Assessment, Former Bulk Storage Facility, Pullman, WA.*

Figures



LEGEND:

- ▲ SB-4
- ⊕ MW-21
- ⊗ MW-1
- ⊕ MW-6
- ⊗ MW-7
- B-18
- TTLR

- SOIL BORING LOCATIONS (SAIC, 2009)
- GROUNDWATER MONITORING WELL LOCATIONS(SAIC, 2009)
- GROUNDWATER MONITORING WELL
- ABANDONED/ DESTROYED MONITORING WELL
- UNABLE TO LOCATE GROUNDWATER MONITORING WELL
- HISTORICAL BORING LOCATIONS
- TRUCK TRAILER LOADING RACK

- ASTs
- TTUH
- UST
- WSU
- Trees
- Transect Lines

- ABOVEGROUND STORAGE TANK
- TRUCK TRAILER UNLOADING HEADER
- UNDERGROUND STORAGE STORAGE TANK
- WASHINGTON STATE UNIVERSITY
- TREES
- TRANSECT LINES

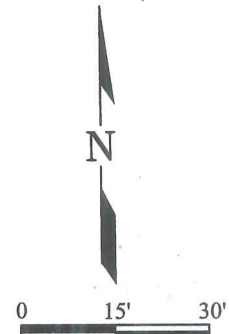


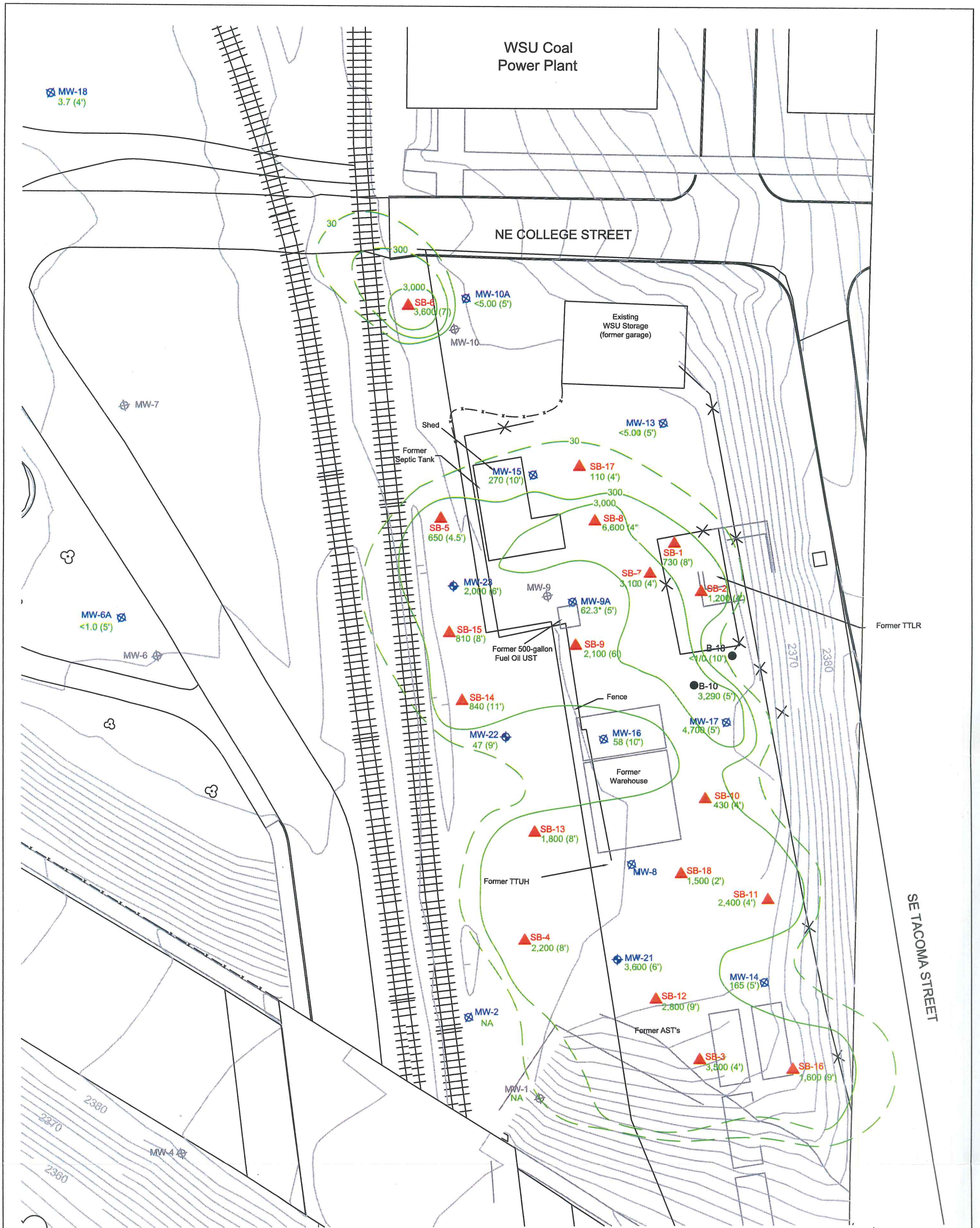
Figure Modified from drawing provided by City of Pullman Public Works and Gettler Ryan Inc.



Former Standard Oil Bulk Plant
Chevron Facility No. 20-6196
815 NE College Street
Pullman, Washington

**FIGURE 1
Site Map**

DATE:02/15/2010 DRAWING: Site Investigation 2009.dwg



LEGEND:

- ▲ SB-4 SOIL BORING LOCATIONS (SAIC, 2009)
- ⊕ MW-21 GROUNDWATER MONITORING WELL LOCATIONS (SAIC, 2009)
- ⊗ MW-1 GROUNDWATER MONITORING WELL
- ⊕ MW-6 ABANDONED/ DESTROYED MONITORING WELL
- B-18 HISTORICAL BORING LOCATIONS
- TTLR TRUCK TRAILER LOADING RACK

- 1,600 (9') MAXIMUM CONCENTRATION OF GASOLINE-RANGE HYDROCARBONS IN SOIL IN MILLIGRAMS PER KILOGRAM (MG/KG) AND SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
- 30 GASOLINE-RANGE HYDROCARBON CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- <math><1.0</math> CONCENTRATION DID NOT EXCEED LISTED METHOD DETECTION OR LABORATORY REPORTING LIMIT
- NA NOT ANALYZED

- ASTs ABOVEGROUND STORAGE TANK
- TTUH TRUCK TRAILER UNLOADING HEADER
- UST UNDERGROUND STORAGE TANK
- WSU WASHINGTON STATE UNIVERSITY
- TREES

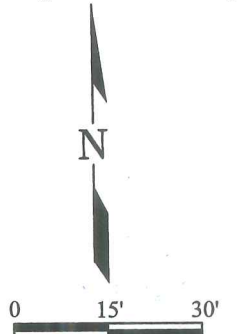


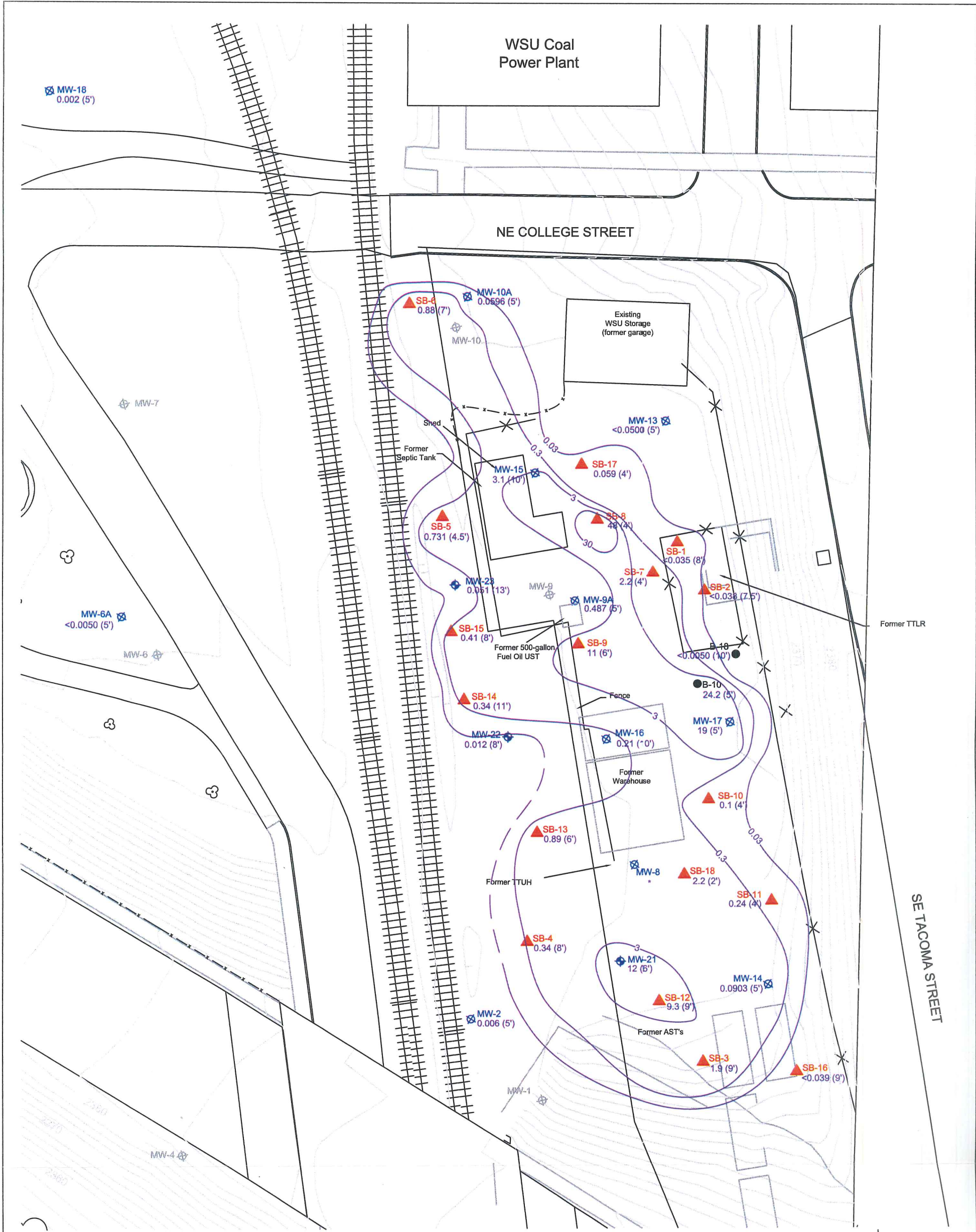
Figure Modified from drawing provided by City of Pullman Public Works and Gettler Ryan Inc.



Former Standard Oil Bulk Plant
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Pullman, Washington

FIGURE 2
Maximum Gasoline-Range Hydrocarbon
Concentrations in Soil

DATE: 02/05/2010 DRAWING: 2010 Soil Concentrations.dwg



LEGEND:

- ▲ SB-4 SOIL BORING LOCATIONS (SAIC, 2009)
- ⊕ MW-21 GROUNDWATER MONITORING WELL LOCATIONS (SAIC, 2009)
- ⊗ MW-1 GROUNDWATER MONITORING WELL
- ⊕ MW-6 ABANDONED/ DESTROYED MONITORING WELL
- B-18 HISTORICAL BORING LOCATIONS
- TTLR TRUCK TRAILER LOADING RACK

- 0.006 (5') MAXIMUM CONCENTRATION OF BENZENE IN SOIL IN MILLIGRAMS PER KILOGRAM (MG/KG) AND SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
- 0.3 BENZENE CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- <0.0050 CONCENTRATION DID NOT EXCEED LISTED METHOD DETECTION OR LABORATORY REPORTING LIMIT

- ASTs ABOVEGROUND STORAGE TANK
- TTUH TRUCK TRAILER UNLOADING HEADER
- UST UNDERGROUND STORAGE STORAGE TANK
- WSU WASHINGTON STATE UNIVERSITY
- ☉ TREES



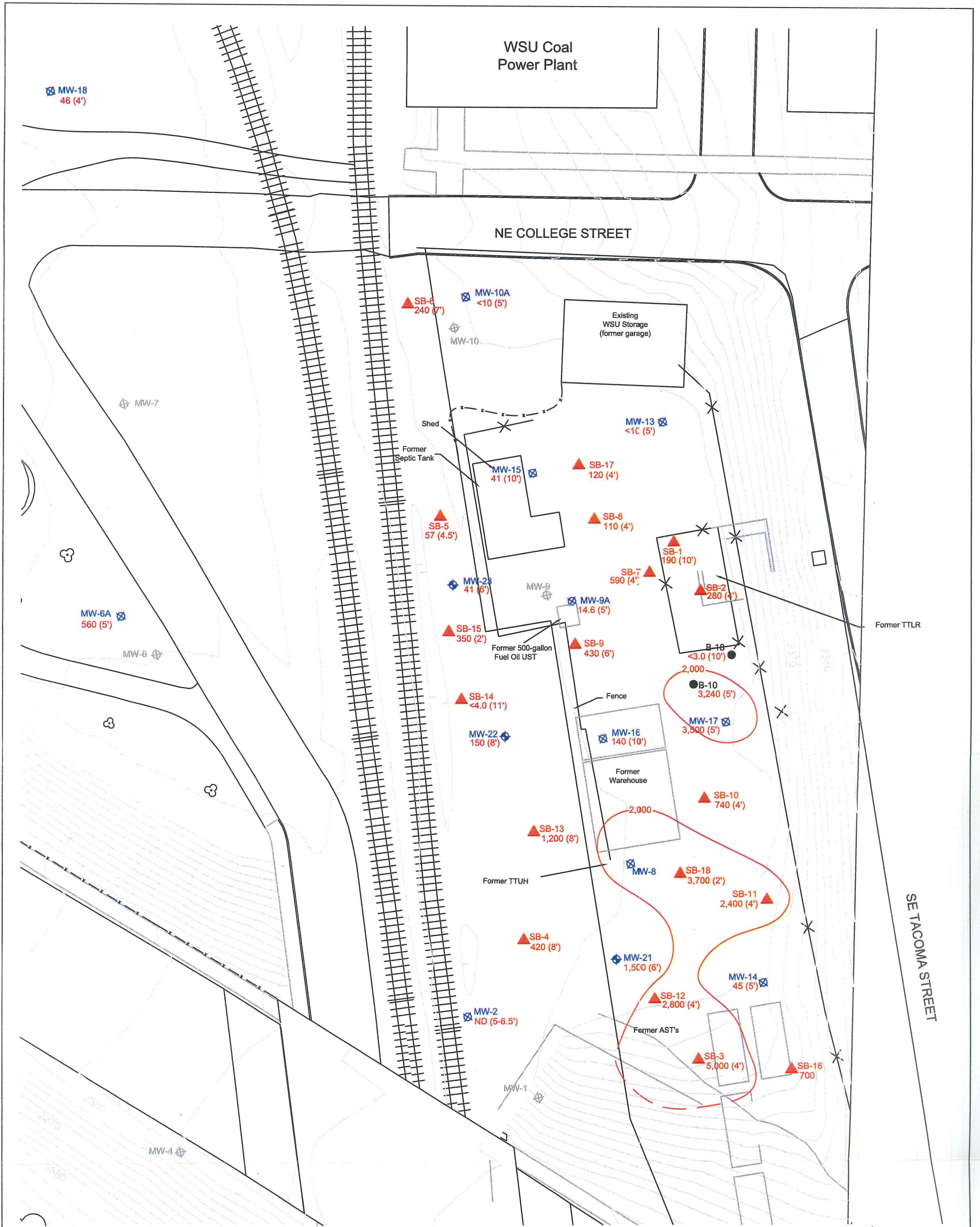
Figure Modified from drawing provided by City of Pullman Public Works and Gettler Ryan Inc.



Former Standard Oil Bulk Plant
Chevron Facility No. 20-6196
815 NE College Street
Pullman, Washington

FIGURE 3
Maximum Benzene Concentrations in Soil

DATE: 02/05/2010 DRAWING: 2010 Soil Concentrations.dwg



LEGEND:

- ▲ SB-4 SOIL BORING LOCATIONS (SAIC, 2009)
- ⊕ MW-21 GROUNDWATER MONITORING WELL LOCATIONS (SAIC, 2009)
- ⊗ MW-1 GROUNDWATER MONITORING WELL
- ⊕ MW-6 ABANDONED/ DESTROYED MONITORING WELL
- B-18 HISTORICAL BORING LOCATIONS
- TTLR TRUCK TRAILER LOADING RACK

- 2,000 (8') MAXIMUM CONCENTRATION OF DIESEL-RANGE HYDROCARBONS IN SOIL IN MILLIGRAMS PER KILOGRAM (MG/KG) AND SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
- - - 20 DIESEL-RANGE HYDROCARBON CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- <4.0 ND CONCENTRATION DID NOT EXCEED LISTED METHOD DETECTION OR LABORATORY REPORTING LIMIT (SHOWN AS ND IF LIMIT VALUE IS UNKNOWN)

- ASTs ABOVEGROUND STORAGE TANK
- TTUH TRUCK TRAILER UNLOADING HEADER
- UST UNDERGROUND STORAGE TANK
- WSU WASHINGTON STATE UNIVERSITY
- TREES

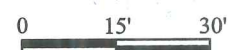


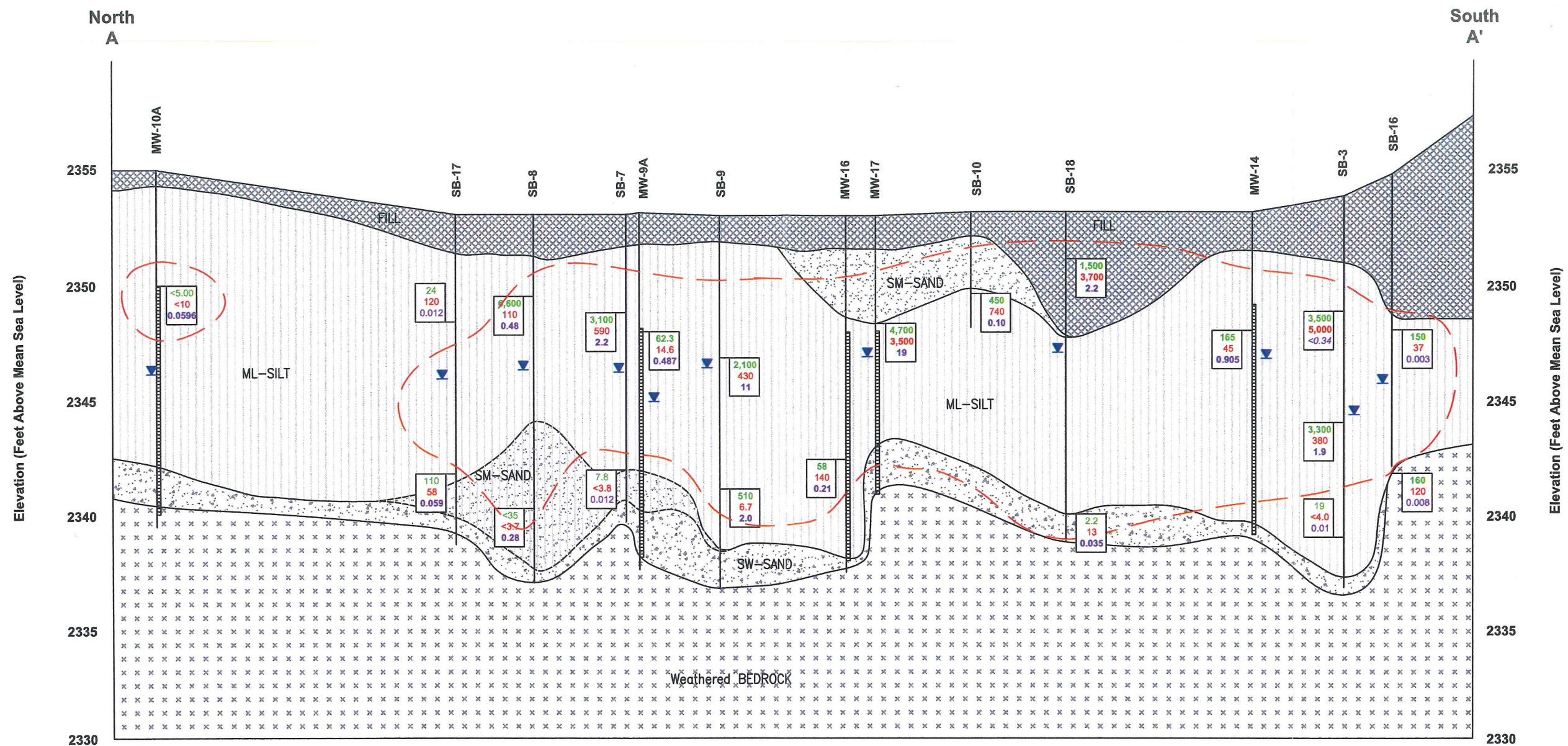
Figure Modified from drawing provided by City of Pullman Public Works and Gettler Ryan Inc.



Former Standard Oil Bulk Plant
Chevron Facility No. 20-6196
815 NE College Street
Pullman, Washington

FIGURE 4
Maximum Diesel-Range Hydrocarbon
Concentrations in Soil

DATE: 02/05/2010 DRAWING: 2010 Soil Concentrations.dwg



Legend:

- Boring
- Screened Interval
- Groundwater Elevation
- Groundwater Elevation Recorded During Soil Boring/Monitoring Well Installation

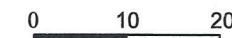


Approximate Extent of Area with One or More Contaminants Exceeding Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels (CULs)

- 2.2 Gasoline-Range Hydrocarbon Concentration in Soil in Milligrams per Kilogram (mg/kg)
- 13 Diesel-Range Hydrocarbon Concentration in Soil in mg/kg
- 0.003 Benzene Concentration in Soil in mg/kg
- 150 Concentration Exceeding MTCA Method A Soil CUL
- <4.0 Concentration was Below Method Detection or Laboratory Reporting Limits
- <0.34 Non-Detect Value Exceeding MTCA Method A CUL

Soil/Rock Classification Legend:

- FILL - Gravel, concrete pieces, and fine to coarse sand
- ML - Dark brown to dark gray SILT with very little sand. Occasional gravel
- MLS - Sandy SILT or SILT with $\geq 10\%$ sand. Occasional gravel
- Contact Line Between Soil Types
- SM - Fine to coarse SAND with $\geq 20\%$ silt. Occasional gravel.
- SW - Fine to coarse, silty, gravelly SAND
- Weathered BEDROCK



0 10 20 Feet

Horizontal Scale 1" = 30'

Vertical Exaggeration 6:1 (1" = 5')



Former Standard Oil Bulk Plant
Chevron Facility No. 20-6196
815 NE College Street
Pullman, Washington

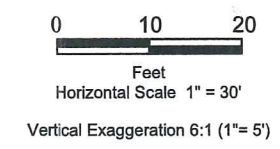
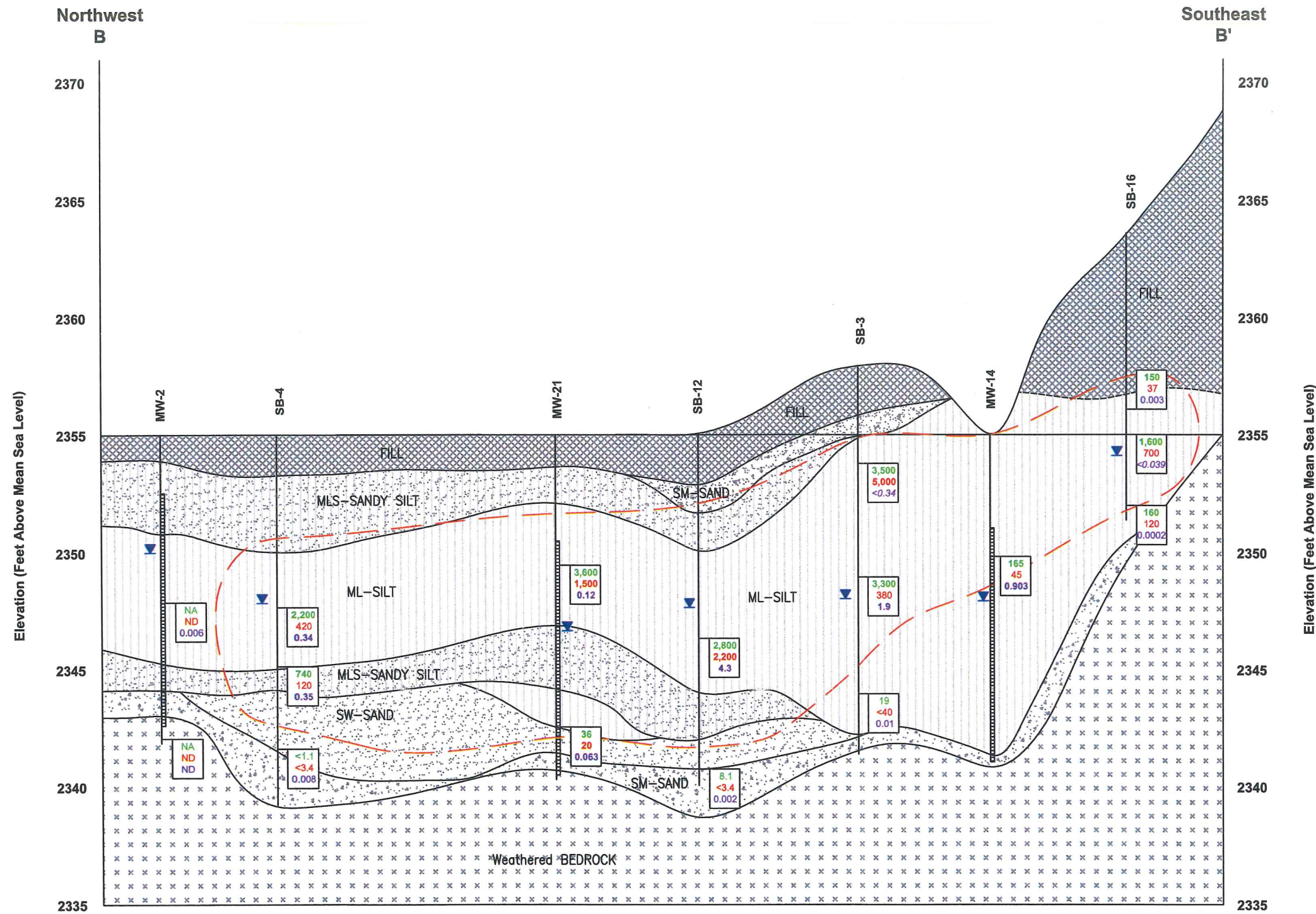
FIGURE 5
Generalized Geologic Cross-Section
A-A'

Legend:

- Boring
- Screened Interval
- Groundwater Elevation
- ▼ Groundwater Elevation Recorded During Soil Boring/Monitoring Well Installation
- Approximate Extent of Area with One or More Contaminants Exceeding Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels (CULs)
- 2.2 Gasoline-Range Hydrocarbon Concentration in Soil in Milligrams per Kilogram (mg/kg)
- 13 Diesel-Range Hydrocarbon Concentration in Soil in mg/kg
- 0.003 Benzene Concentration in Soil in mg/kg
- 150 Concentration Exceeding MTCA Method A Soil CUL
- <4.0 Concentration was Below Method Detection or Laboratory Reporting Limits
- <0.34 Non-Detect Value Exceeding MTCA Method A CUL

Soil/Rock Classification Legend:

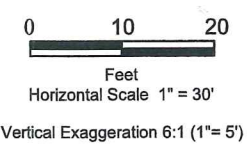
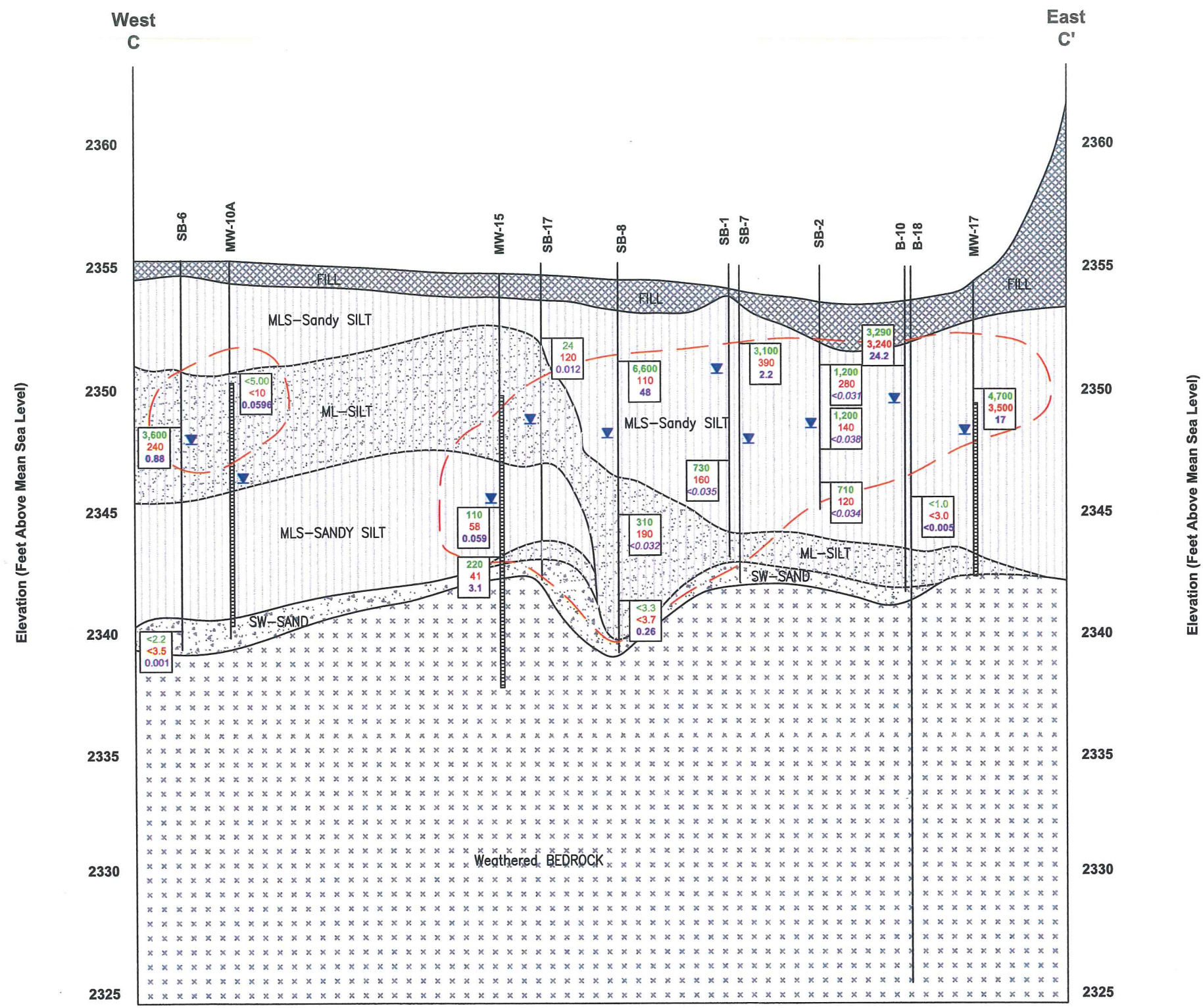
- FILL - Gravel, concrete pieces, and fine to coarse sand
- ML - Dark brown to dark gray SILT with very little sand. Occasional gravel
- MLS - Sandy SILT or SILT with ≥ 10% sand. Occasional gravel
- SM - Fine to coarse SAND with ≥20% silt. Occasional gravel.
- SW - Fine to coarse, silty, gravelly SAND
- Weathered BEDROCK
- Contact Line Between Soil Types



Former Standard Oil Bulk Plant
Chevron Facility No. 20-6196
815 NE College Street
Pullman, Washington

FIGURE 6
Generalized Geologic Cross-Section B-B'

DATE: 02/08/2010 DRAWING: 206196_X-Sect.dwg



Former Standard Oil Bulk Plant
Chevron Facility No. 20-6196
815 NE College Street
Pullman, Washington

FIGURE 7
Generalized Geologic Cross-Section
C-C'

DATE: 02/08/2010 DRAWING: 206196_X-Sept.dwg



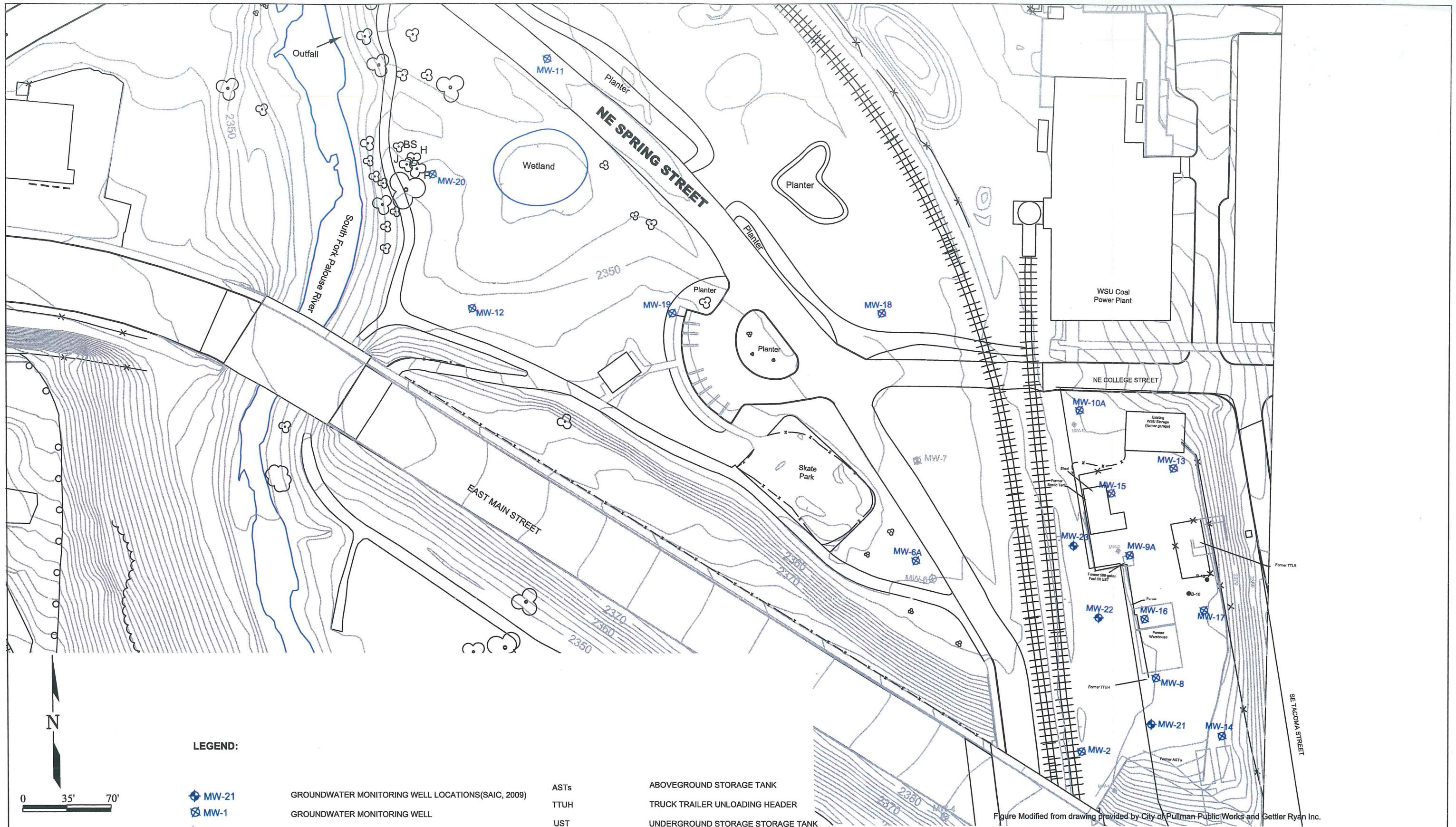


Figure Modified from drawing provided by City of Pullman Public Works and Gettler Ryan Inc.



LEGEND:			
MW-21	GROUNDWATER MONITORING WELL LOCATIONS(SAIC, 2009)	ASTs	ABOVEGROUND STORAGE TANK
MW-1	GROUNDWATER MONITORING WELL	TTUH	TRUCK TRAILER UNLOADING HEADER
MW-6	ABANDONED/ DESTROYED MONITORING WELL	UST	UNDERGROUND STORAGE STORAGE TANK
MW-7	UNABLE TO LOCATE GROUNDWATER MONITORING WELL	WSU	WASHINGTON STATE UNIVERSITY
B-18	HISTORICAL BORING LOCATIONS	TREES	
TTLR	TRUCK TRAILER LOADING RACK		

Former Standard Oil Bulk Plant
 Chevron Facility No. 20-6196
 815 NE College Street
 Pullman, Washington

FIGURE 8
 Groundwater Monitoring Well Locations

Tables

Table 1
Soil Analytical Results - Petroleum Constituents
Former Standard Oil Bulk Plant No. 206196
815 NE College Street
Pullman, Washington

Sample No.	Sample Location	Depth (ft)	Sample Date	HCID	TPH-G (mg/kg)	TPH-G (mg/kg)	TPH-O (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Lead (mg/kg)	MTBE (mg/kg)	cPAH (mg/kg)	Naphthalene (mg/kg)	EDB (mg/kg)	EDC (mg/kg)
MW-1, S-2 ²	MW-1 ¹	5 - 6.5	1992	D	--	1889	--	1.45*	ND	0.925	0.559	20.7	--	--	--	--	--
MW-1, S-4 ²	MW-1 ¹	10 - 11.5	1992	ND	--	ND	--	ND	0.041	0.005	0.017	19.2	--	--	--	--	--
MW-2, S-3 ²	MW-2 ¹	7.5 - 9	1992	ND	--	ND	--	0.006	ND	0.054	0.079	17.9	--	--	--	--	--
MW-2, S-5 ²	MW-2 ¹	12.5 - 13.2	1992	ND	--	ND	--	ND	ND	ND	ND	15.3	--	--	--	--	--
MW-3, S-2 ²	MW-3 ¹	7.5 - 9	1992	ND	--	ND	--	ND	ND	ND	ND	23.3	--	--	--	--	--
MW-3, S-3 ²	MW-3 ¹	12 - 13.4	1992	ND	--	ND	--	ND	ND	ND	ND	15.4	--	--	--	--	--
MW-4, S-1 ²	MW-4 ¹	2.5 - 4	1992	ND	--	ND	--	ND	ND	ND	ND	52.7	--	--	--	--	--
MW-4, S-2 ²	MW-4 ¹	7.5-9	1992	ND	--	ND	--	ND	ND	ND	ND	23.5	--	--	--	--	--
MW-5, S-1 ²	MW-5 ¹	6-7.5	1992	ND	--	ND	--	ND	ND	ND	ND	44.8	--	--	--	--	--
B-7, S-2 ²	B-7 ¹	5-6.5	1992	ND	--	ND	--	0.106	ND	0.536	0.216	32.6	--	--	--	--	--
B-7, S-3 ²	B-7 ¹	7.5-9	1992	D	--	700	--	--	--	--	--	--	--	--	--	--	--
B-7, S-5 ²	B-7 ¹	12.5-14	1992	ND	--	ND	--	ND	ND	0.538	0.218	21.7	--	--	--	--	--
B-8, S-2 ²	B-8 ¹	7-8.5	1992	ND	--	ND	--	ND	ND	ND	ND	28.1	--	--	--	--	--
B-8, S-3 ²	B-8 ¹	12-13.2	1992	ND	--	ND	--	ND	ND	ND	ND	20	--	--	--	--	--
B-9, S-2 ²	B-9 ¹	7.5-9	1992	D	--	428	--	0.038	ND	ND	ND	19.2	--	--	--	--	--
B-9, S-3 ²	B-9 ¹	12.5-14	1992	ND	--	ND	--	ND	ND	ND	ND	19.1	--	--	--	--	--
TP-9, S-1 ²	TP-9 ¹	5-5.5	1992	G	--	533	--	5.35	2.3	2.17	21.1	--	--	--	--	--	--
TP-9, S-2 ²	TP-9 ¹	6-7	1992	G	--	1129	--	0.065	2.77	1.33	5.0	--	--	--	--	--	--
B-6A-5 ³	MW-6A	5	11/12/2001	NA	<1.0	560	8100	<0.0050	<0.0050	<0.0050	<0.015	--	<0.050	--	--	--	--
B-15-10 ³	MW-15	10	11/13/2001	NA	270	41	33	3.1	0.75	8.9	27	--	1.5	--	--	--	--
B-16-10 ³	MW-16	10	11/13/2001	NA	58	140	<50	0.21	<0.050	0.26	<0.50	--	<0.50	--	--	--	--
B-17-5 ³	MW-17	5	11/13/2001	NA	4700	3500	<1000	19	63	7.3	65	--	11	--	--	--	--
B-18-10 ³	B-18	10	11/13/2001	NA	<1.0	<3.0	<10	<0.0050	<0.0050	<0.0050	<0.015	--	<0.050	--	--	--	--
MW-9A-5 ⁴	MW-9A	5	11/17/2000	NA	62.3	14.6	<25	0.487	1.25	1.84	6.46	19.5	--	--	--	--	--
MW-10A-5 ⁴	MW-10A	5	11/17/2000	NA	<5.00	<10	<25	0.0596	0.181	<0.0500	0.176	32.2	--	--	--	--	--
B-10-5 ⁴	B-10	5	11/17/2000	NA	3290	3240	306	24.2	8.95	76.7	171	27.5	--	--	--	--	--
MW-14-5 ⁴	MW-14	5	11/17/2000	NA	165	45	<25	0.903	0.298	1.0	5.0	<12.5	--	--	--	--	--
MW-13-5 ⁴	MW-13	5	11/17/2000	NA	<5.00	<10	<25	<0.0500	0.0919	<0.0500	0.11	<12.5	--	--	--	--	--
MW-18-4 ²	MW-18	4	9/10/2008	NA	3.7	46	190	0.002	<0.002	<0.002	<0.002	--	<0.001	--	--	--	--
MW-18-6 ⁵	MW-18	6	9/10/2008	NA	<1.6	<4.2	<14	0.001	<0.001	<0.001	<0.001	--	<0.0006	--	--	--	--
MW-18-10 ³	MW-18	10	9/10/2008	NA	<1.1	<3.5	<12	<0.0005	<0.001	<0.001	<0.001	--	<0.0005	--	--	--	--
MW-19-4 ²	MW-19	4	9/9/2008	NA	<1.2	<3.7	<12	0.001	<0.001	<0.001	<0.001	--	<0.0006	--	--	--	--
MW-19-9.5 ³	MW-19	9.5	9/9/2008	NA	<1.7	<4.2	<14	0.0009	<0.001	<0.001	<0.001	--	<0.0006	--	--	--	--
MW-19-14 ³	MW-19	14	9/9/2008	NA	<1.0	<3.5	<12	<0.0005	<0.001	<0.001	<0.001	--	<0.0005	--	--	--	--
MW-20-4 ³	MW-20	4	9/9/2008	NA	<1.8	<4.3	<14	0.001	0.004	<0.001	<0.001	--	<0.0007	--	--	--	--
MW-20-6.5 ³	MW-20	6.5	9/9/2008	NA	<1.5	<4.1	<14	0.0009	<0.001	<0.001	<0.001	--	<0.0006	--	--	--	--
MW-20-12 ³	MW-20	12	9/9/2008	NA	<1.1	<3.5	15	<0.0004	<0.0009	<0.0009	<0.0009	--	<0.0004	--	--	--	--
MW-21-6 ³	MW-21	6	10/28/2009	NA	3600	1500	<320	12	1.4	140	410	--	--	0.000098	3.2	--	--
MW-21-13 ³	MW-21	13	10/28/2009	NA	36	20	<12	0.063	0.004	0.19	0.31	--	--	--	--	--	--

Table 1
Soil Analytical Results - Petroleum Constituents
Former Standard Oil Bulk Plant No. 206196
815 NE College Street
Pullman, Washington

Sample No.	Sample Location	Depth (ft)	Sample Date	HCID	TPH-G (mg/kg)	TPH-G (mg/kg)	TPH-O (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Lead (mg/kg)	MTBE (mg/kg)	cPAH (mg/kg)	Naphthalene (mg/kg)	EDB (mg/kg)	EDC (mg/kg)
MW-22-6 ^s	MW-22	6	10/28/2009	NA	32	54	58	0.0009	<0.001	<0.001	<0.001	--	--	--	--	--	--
MW-22-8 ^s	MW-22	8	10/29/2009	NA	47	150	<14	0.009	<0.001	0.002	0.003	--	--	--	--	--	--
MW-22-13 ^s	MW-22	13	10/29/2009	NA	<1.2	<3.6	<12	0.012	<0.0009	<0.0009	<0.0009	--	--	--	--	--	--
MW-23-6 ^s	MW-23	6	10/28/2009	NA	2000	41	<14	<0.17	<0.33	15	0.42	--	--	--	--	--	--
MW-23-13 ^s	MW-23	13	10/28/2009	N	<1.3	<3.5	<12	0.051	0.004	0.024	0.0005	--	--	--	--	--	--
SB-1-8 ^s	SB-1	8	10/27/2009	NA	730	160	58	<0.035	<0.070	<0.070	<0.070	--	--	--	--	--	--
SB-1-10 ^s	SB-1	10	10/27/2009	NA	310	190	210	<0.032	<0.063	<0.063	<0.063	--	--	--	--	--	--
SB-2-4 ^s	SB-2	4	10/22/2009	NA	1200	280	<26	<0.031	<0.061	1.3	0.12	--	--	--	--	--	--
SB-2-7.5 ^s	SB-2	7.5	10/22/2009	NA	1200	140	<14	<0.038	<0.076	1.2	0.32	--	--	--	--	--	--
SB-2-9 ^s	SB-2	9	10/27/2009	NA	710	120	<13	<0.034	<0.067	<0.067	<0.067	--	--	--	--	--	--
SB-3-4 ^s	SB-3	4	10/27/2009	NA	3500	5000	<630	<0.34	<0.68	11	2.6	--	--	--	--	--	--
SB-3-9 ^s	SB-3	9	10/27/2009	NA	3300	380	<26	1.9	1.9	86	420	--	--	0.001517	1.3	--	--
SB-3-14 ^s	SB-3	14	10/27/2009	NA	19	<4.0	<13	0.01	0.002	0.003	0.004	--	--	--	--	--	--
SB-4-8 ^s	SB-4	8	10/27/2009	NA	2200	420	<29	0.34	0.13	5.4	0.2	--	--	--	--	--	--
SB-4-10 ^s	SB-4	10	10/28/2009	NA	740	130	<12	0.3	0.059	1.3	0.19	--	--	--	--	--	--
SB-4-14 ^s	SB-4	14	10/28/2009	NA	<1.1	<3.4	<11	0.008	<0.0009	<0.0009	<0.0009	--	--	--	--	--	--
SB-5-4.5 ^s	SB-5	4.5	10/27/2009	NA	650	57	<13	0.731	0.092	22.3	7.3	17.7	0.812	0	1.1	<0.074	<0.074
SB-5-8 ^s	SB-5	8	10/27/2009	NA	290	5.7	<14	<0.38	<0.076	3.1	2.4	--	--	--	--	--	--
SB-5-11 ^s	SB-5	11	10/28/2009	NA	490	6.3	<12	0.49	0.089	6.3	1.1	--	--	--	--	--	--
SB-6-7 ^s	SB-6	7	10/27/2009	NA	3600	240	33	0.88	0.21	210	96	--	--	--	--	--	--
SB-6-15 ^s	SB-6	15	10/28/2009	NA	2.2	<3.5	<12	0.001	<0.0009	0.013	0.002	--	--	--	--	--	--
SB-7-4 ^s	SB-7	4	10/22/2009	NA	3100	590	<70	2.2	1.5	110	79	--	--	--	--	--	--
SB-7-12 ^s	SB-7	12	10/27/2009	NA	7.8	<3.8	<13	0.012	0.011	0.33	0.11	--	--	--	--	--	--
SB-8-4 ^s	SB-8	4	10/23/2009	NA	6600	110	51	48	13	380	1100	--	--	0.005781	6.7	--	--
SB-8-14 ^s	SB-8	14	10/28/2009	NA	<3.3	<3.7	<12	0.26	0.009	0.06	0.031	--	--	--	--	--	--
SB-9-6 ^s	SB-9	6	10/23/2009	NA	2100	430	<140	11	27	26	110	--	--	--	--	--	--
SB-9-13 ^s	SB-9	13	10/27/2009	NA	510	6.7	<13	2	0.5	15	4.9	--	--	--	--	--	--
SB-9-15 ^s	SB-9	15	10/27/2009	NA	17	<3.4	<11	0.018	0.014	0.22	0.15	--	--	--	--	--	--
SB-10-4 ^s	SB-10	4	10/28/2009	NA	430	740	<120	0.1	0.13	0.12	0.21	--	--	--	--	--	--
SB-11-4 ^s	SB-11	4	10/27/2009	NA	2400	2400	<660	0.24	<0.13	63	51	--	--	0.05021	9.2	--	--
SB-11-11 ^s	SB-11	11	10/27/2009	NA	1100	270	<23	<0.034	<0.067	<0.067	<0.067	--	--	--	--	--	--
SB-12-4 ^s	SB-12	4	10/29/2009	NA	860	2800	400	0.21	0.096	6	14	--	--	--	--	--	--
SB-12-9 ^s	SB-12	9	10/29/2009	NA	2800	2200	<140	4.3	1.2	31	46	--	--	--	--	--	--
SB-12-14 ^s	SB-12	14	10/29/2009	NA	8.1	<3.4	<11	0.002	<0.001	0.01	0.004	--	--	--	--	--	--
SB-13-6 ^s	SB-13	6	10/23/2009	NA	450	430	280	0.89	0.22	0.18	0.93	--	--	--	--	--	--
SB-13-8 ^s	SB-13	8	10/27/2009	NA	1800	1200	<72	0.22	1.45	0.91	2.1	95.3	1.02	0.000096	1.8	<0.092	<0.092
SB-13-13 ^s	SB-13	13	10/28/2009	NA	2.5	<3.5	<12	0.008	<0.0008	0.002	<0.0008	--	--	--	--	--	--
SB-14-6 ^s	SB-14	6	10/28/2009	NA	5.7	<3.7	<12	0.0008	<0.001	<0.001	<0.001	--	--	--	--	--	--
SB-14-11 ^s	SB-14	11	10/28/2009	NA	840	<4.0	<13	0.34	<0.075	1.1	0.21	--	--	--	--	--	--
SB-14-13 ^s	SB-14	13	10/28/2009	NA	1.5	<3.5	<12	0.039	0.003	0.007	0.002	--	--	--	--	--	--

Table 1
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Former Standard Oil Bulk Plant No. 206196
815 NE College Street
Pullman, Washington

Sample No.	Sample Location	Depth (ft)	Sample Date	HCID	TPH-G (mg/kg)	TPH-G (mg/kg)	TPH-O (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Lead (mg/kg)	MTBE (mg/kg)	cPAH (mg/kg)	Naphthalene (mg/kg)	EDB (mg/kg)	EDC (mg/kg)
SB-15-2 ²	SB-15	2	10/28/2009	NA	360	350	830	0.41	0.45	0.52	3.4	--	--	--	--	--	--
SB-15-8 ³	SB-15	8	10/28/2009	NA	870	39	<14	0.4	0.14	6	0.63	--	--	--	--	--	--
SB-15-12 ³	SB-15	12	10/28/2009	NA	3.1	<3.4	<11	0.091	0.004	0.092	0.02	--	--	--	--	--	--
SB-16-8 ³	SB-16	8	10/29/2009	NA	150	37	<14	0.003	<0.001	0.041	0.038	--	--	--	--	--	--
SB-16-9 ³	SB-16	9	10/29/2009	NA	1600	700	<63	<0.039	<0.078	0.66	0.7	--	--	--	--	--	--
SB-16-12 ³	SB-16	12	10/29/2009	NA	160	120	<13	0.0008	<0.001	<0.001	<0.001	--	--	--	--	--	--
SB-17-4 ³	SB-17	4	10/29/2009	NA	24	120	130	0.012	0.002	0.34	0.033	--	--	--	--	--	--
SB-17-12 ³	SB-17	12	10/29/09	NA	110	58	65	0.059	0.002	0.041	0.012	--	--	--	--	--	--
SB-18-2 ³	SB-18	2	10/29/2009	NA	1500	3700	<310	2.2	0.38	17	3.1	--	--	--	--	--	--
SB-18-9 ³	SB-18	9	10/29/2009	NA	890	130	31	1.4	<0.092	6.8	0.36	--	--	--	--	--	--
SB-18-13 ³	SB-18	13	10/29/2009	NA	2.2	13	<13	0.035	0.002	0.042	0.003	--	--	--	--	--	--
MTCA Method A Cleanup Levels					30	2000	2000	0.03	7	6	9	250	0.1	0.1	5	0.005	NA

Notes:

Model Toxic Control Act (MTCA) Cleanup Regulations Chapter 173-340 WAC

Gasoline-range hydrocarbons analyzed by WDOE Method NWTPH-Gx (SAIC 2009).

Diesel-range hydrocarbons and heavy-oil range hydrocarbons analyzed by State of Washington Department of Ecology (WDOE) Method NWTPH-Dx extended range w/ silica-gel cleanup (SAIC 2009).

Benzene, toluene, ethylbenzene, total xylenes (BTEX), and MTBE analyzed by USEPA Method 8260 (SAIC 2009).

-- = Not analyzed

Bold detections are those values exceeding the appropriate MTCA cleanup levels

Italicized non-detected values are those detection or reporting limits that exceed the appropriate MTCA cleanup level.

cPAH = toxicity equivalency of benzo(a)pyrene was calculated using toxicity equivalency factors (WDOE, 2007)

MTBE = Methyl tert-butyl ether

SB = Soil Boring

ND = < Detection Limit, Laboratory Results not available

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-O = Total Petroleum Hydrocarbons as Oil

TPH-G = Total Petroleum Hydrocarbons as Gasoline

¹ = boring location was possibly excavated in 1995 during bridge construction.

² = soil sample collected from boring by RZA AGRA Inc.

³ = soil sample collected from boring by Delta Environmental

⁴ = soil sample collected from boring by KHM Environmental

⁵ = soil sample collected from boring by Science Applications International Corporation no analytical reports for (RZA, 1992)

*MW-1 was excavated in 1992

Table 2
2009 Light Non Aqueous Phase Liquid Bailing Summary
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

MW-8	DTP (ft)	DTW (ft)	Product Thickness (ft)	Volume Bailed (gal)	Comments
4/1/2009	NM	NM	<0.01	0	
6/4/2009	NM	NM	<0.01	0	visible sheen
7/31/2009	NM	NM	<0.01	0	
8/27/2009	NM	NM	0.01	<1/10	
10/21/2009	9.05	9.63	0.58	1	LNAPL Brown
10/28/2009	9.12	9.4	0.28	**	Brown
10/30/2009	--	9.05	0	**	

MW-9A	DTP (ft)	DTW (ft)	Product Thickness (ft)	Volume Bailed (gal)	Comments
4/1/2009	NM	NM	<0.01	0	
6/4/2009	NM	NM	2.09	2.5	thickness stabilized at 0.03 feet
7/31/2009	NM	NM	0.14	0.25	
8/27/2009	NM	NM	0.21	1.5	
10/21/2009	7.37	7.64	0.27	0.25	
10/28/2009	6.97	7.14	0.17	**	Honey Brown
10/30/2009	7.1	7.23	0.13	**	

MW-14	DTP (ft)	DTW (ft)	Product Thickness (ft)	Volume Bailed (gal)	Comments
10/21/2009*	6.79	7.46	0.67	2	Brown
10/28/2009	6.95	7.12	0.17	**	Brown
10/30/2009	6.88	7.05	0.17	**	

MW-16	DTP (ft)	DTW (ft)	Product Thickness (ft)	Volume Bailed (gal)	Comments
4/1/2009	NM	NM	0.09	0.25	
6/4/2009	NM	NM	<0.01	0	visible sheen
7/31/2009	NM	NM	<0.05	0.5	Ending Thickness 0.5 gal
8/27/2009	NM	NM	0.22	2	
10/21/2009	9.83	10.34	0.51	3.5	
10/28/2009	9.75	9.96	0.21	**	
10/30/2009	9.66	9.8	0.14	**	

- Notes:
- ** LNAPL volume bailed was not recorded. LNAPL was bailed in these events until no measurable thickness was detected or LNAPL thickness had stabilized.
 - * Well was not located until October 6th, 2009
 - < Measured product thickness was less than number specified.
 - NM = Groundwater Depth and Product Depth were not measured.
 - DTP= Depth to Product
 - DTW= Depth to Water
 - ft= feet
 - gal= gallons

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-2																
03/29/92 ¹	2,354.29	--	--	--	--	--	ND	--	--	950	24	25	5.0	--	120	--
04/23/92	2,354.29	--	8.38	--	2,345.91	--	--	--	--	--	--	--	--	--	--	--
12/17/92	2,354.29	--	8.72	--	2,345.57	--	--	--	--	--	--	--	--	--	--	--
12/18/92 ⁴	2,354.29	--	--	--	--	4,300	2,400	--	4,300	1,300	53	310	160	--	29	ND
02/23/93	2,354.29	--	8.16	--	2,346.13	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,354.29	--	7.71	--	2,346.58	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,354.29	--	6.97	--	2,347.32	ND	400	--	630	260	5.9	33	--	--	--	--
05/11/93	2,354.29	--	6.31	--	2,347.98	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,354.29	--	9.10	--	2,345.19	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,354.29	--	9.22	--	2,345.07	5,000	1,300	--	2,900	1,500	34	230	29	--	--	ND
08/13/93	2,354.29	--	9.92	--	2,344.37	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,354.29	--	10.40	--	2,343.89	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,354.29	--	10.87	--	2,343.42	4,700	3,800	--	2,600	1,300	54	110	49	--	--	ND
03/04/94	2,354.29	--	8.77	--	2,345.52	1,700	1,300	--	1,600	500	18	66	32	--	--	--
06/08/94	2,354.29	--	9.18	--	2,345.11	6,000	1,300	--	1,100	730	24	49	28	--	--	ND
09/14/94	2,354.29	--	10.97	--	2,343.32	6.0	9,210	--	3,220	870	33	27	39	--	132	ND
01/25/95	2,354.29	--	10.96	--	2,343.33	--	280	--	423	54	1.0	ND	4.0	--	--	ND
11/04/97	2,354.29	--	7.41	--	2,346.88	--	ND	ND	ND	0.529	ND	ND	ND	--	--	--
05/05/98	2,354.29	--	8.40	--	2,345.89	--	--	--	2,060	204	7.37	39.2	20.4	--	--	--
03/18/99	2,354.29	--	6.54	0.00	2,347.75	--	--	--	159	66.1	2.09	20.7	2.64	ND	--	--
06/30/99	2,354.29	--	8.47	0.00	2,345.82	--	--	--	1,170	119	ND ²	ND ²	ND ²	ND ²	--	--
09/03/99	2,354.29	--	8.18	0.00	2,346.11	--	ND ⁹	ND ⁹	1,300	31.0	3.88	1.56	ND ²	--	--	--
11/21/99	2,354.29	--	8.25	0.00	2,346.04	--	ND ⁹	ND ⁹	946	40.8	7.72	2.14	6.47	--	--	--
02/19-20/00	2,354.29	--	5.85	0.00	2,348.44	--	ND ^{2,9}	ND ^{2,9}	1,540	627	25.8	166	34.3	--	--	--
05/06/00	-- ¹²	--	7.34	0.00	--	--	ND ⁹	ND ⁹	658	140	5.32	37.4	7.36	--	--	--
08/08/00	-- ¹²	--	8.26	0.00	--	--	ND ⁹	ND ⁹	1,690	312	22.6	23.9	21.4	--	--	--
11/12/00	-- ¹²	--	8.10	0.00	--	--	627 ⁹	ND ⁹	2,100	251	11.9	12.7	22.8	--	--	--
02/22/01	-- ¹²	--	6.59	0.00	--	--	ND ⁹	ND ⁹	6,950	534	24.9	134	28.1	--	--	--
05/22/01	-- ¹²	--	6.68	0.00	--	--	<250 ⁹	<750 ⁹	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
08/13/01	-- ¹²	--	8.57	0.00	--	--	<250 ⁹	<750 ⁹	3,460	141	9.35	12.2	11.3	--	--	--
11/11/01	-- ¹²	--	8.76	0.00	--	--	<250 ⁹	<750 ⁹	3,700	170	18.8	<10.0	17.2	--	--	--
01/31/02	-- ¹²	--	5.49	0.00	--	--	349 ⁹	<750 ⁹	147	10.7	<2.00	1.82	<1.50	--	--	--
06/03/02	-- ¹²	--	7.42	0.00	--	--	950 ⁹	<750 ⁹	1,400	360	17	110	17	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)	
MW-2 (cont)																	
08/28/02	-- ¹²	--	8.09	0.00	--	--	910 ⁹	<250 ⁹	2,000	230	12	31	8.9	--	--	--	
11/19/02	-- ¹²	--	9.31	0.00	--	--	--	--	--	--	--	--	--	--	--	--	
02/20/03	-- ¹²	--	5.21	0.00	--	--	<250 ⁹	<250 ⁹	<50	0.71	<0.50	<0.50	<1.5	<2.5	--	--	
05/17/03	-- ¹²	--	6.19	0.00	--	--	--	--	--	--	--	--	--	--	--	--	
08/22/03	-- ¹²	--	7.95	0.00	--	--	990 ⁹	<250 ⁹	1,100	190	7.5	22	7.5	--	--	--	
11/28/03	-- ¹²	--	8.31	0.00	--	--	--	--	--	--	--	--	--	--	--	--	
02/17/04	-- ¹²	--	5.08	0.00	--	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
06/09/04	-- ¹²	--	6.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	
08/11/04	-- ¹²	--	7.25	0.00	--	--	--	--	--	--	--	--	--	--	--	--	
11/21/04	-- ¹²	--	7.38	0.00	--	--	3,000 ⁹	680 ⁹	840	210	6.1	24	17	--	--	--	
02/20/05	-- ¹²	--	7.05	0.00	--	--	10,000 ⁹	970 ⁹	880	270	9.3	28	12	--	--	--	
05/29/05	-- ¹²	--	6.35	0.00	--	--	--	--	--	--	--	--	--	--	--	--	
08/18/05	-- ¹²	--	7.65	0.00	--	--	600 ^{9,18}	<250 ⁹	400	15	0.9	<0.5	1.5	--	--	--	
11/26/05	-- ¹²	--	7.46	0.00	--	--	--	--	--	--	--	--	--	--	--	--	
02/20/06	-- ¹²	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/12/06	-- ¹²	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/06/06	-- ¹²	--	7.63	0.00	--	--	590 ⁹	110 ⁹	720	180	2.6	16	<1.5	--	--	--	
08/06/07	-- ¹²	--	7.42	0.00	--	--	1,300 ⁹	190 ⁹	660	82	2.3	8.7	2.7	--	--	--	
08/19/08	-- ¹²	--	8.05	0.00	--	--	590 ⁹	440 ⁹	1,100	110 ²¹	5.7 ²¹	9.8 ²¹	4.4 ²¹	--	--	--	
04/01/09	2354.29	--	8.03	0.00	2346.26	--	NOT SAMPLED			--	--	--	--	--	--	--	
06/04/09	2354.29	--	6.62	0.00	2347.67	--	NOT SAMPLED			--	--	--	--	--	--	--	
07/31/09	2354.29	--	7.99	0.00	2346.30	--	NOT SAMPLED			--	--	--	--	--	--	--	
08/27/09	2354.29	--	7.65	0.00	2346.64	--	NOT SAMPLED			--	--	--	--	--	--	--	
MW-6A																	
01/31/02	2,348.83	INACCESSIBLE - DUE TO SNOW AND ICE				--	--	--	--	--	--	--	--	--	--	--	--
06/03/02	2,348.83	--	3.66	0.00	2,345.17	--	980 ⁹	<750 ⁹	640	460	3.1	9.1	12	--	--	<1.2	
08/28/02	2,348.83	--	4.06	0.00	2,344.77	--	1,400 ⁹	3,500 ⁹	1,100	310	1.9	2.9	6.5	--	--	3.1	
11/19/02	2,348.83	--	5.28	0.00	2,343.55	--	600 ⁹	860 ⁹	1,000	200	2.1	5.0	<15	--	--	--	
02/20/03	2,348.83	--	2.31	0.00	2,346.52	--	420 ⁹	<250 ⁹	910	280	2.4	4.9	10	<5.0	--	--	
05/17/03	2,348.83	--	3.31	0.00	2,345.52	--	620 ⁹	480 ⁹	400	140	0.9	3.0	3.6	--	--	--	
08/22/03	2,348.83	--	3.73	0.00	2,345.10	--	1,000 ⁹	270 ⁹	1,400	330	1.6	8.9	11	--	--	--	
11/28/03	2,348.83	--	4.28	0.00	2,344.55	--	<800 ⁹	<1,000 ⁹	800	120	0.9	1.7	3.0	--	--	--	
02/17/04	2,348.83	--	2.19	0.00	2,346.64	--	610 ⁹	320 ⁹	820	140	1.6	2.3	7.1	--	--	--	

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-6A (cont)																
06/09/04	2,348.83	--	2.68	0.00	2,346.15	--	<400 ⁹	<500 ⁹	230	76	0.7	1.5	2.4	--	--	--
08/11/04	2,348.83	--	3.31	0.00	2,345.52	--	910 ⁹	490 ⁹	510	130	1.3	1.8	5.5	--	--	--
11/21/04	2,348.83	--	3.44	0.00	2,345.39	--	<250 ⁹	<250 ⁹	560	70	0.8	1.4	3.5	--	--	--
02/20/05	2,348.83	--	3.27	0.00	2,345.56	--	<250 ⁹	<250 ⁹	610	65	0.8	1.7	5.1	--	--	--
05/29/05	2,348.83	--	2.74	0.00	2,346.09	--	<250 ⁹	<250 ⁹	<50	1.1	<0.5	<0.5	<1.5	--	--	--
08/18/05	2,348.83	--	3.52	0.00	2,345.31	--	480 ⁹	380 ⁹	360	33	0.5	0.8	1.7	--	--	--
11/26/05	2,348.83	--	3.53	0.00	2,345.30	--	<88 ⁹	<110 ⁹	<48	0.6	<0.5	<0.5	<1.5	--	--	--
02/20/06	2,348.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/06	2,348.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,348.83	--	3.55	0.00	2,345.28	--	260 ⁹	<99 ⁹	140	12	<0.5	<0.5	<1.5	--	--	--
08/06/07	2,348.83	--	3.38	0.00	2,345.45	--	670 ⁹	200 ⁹	510	35	1	1.2	<5.0	--	--	--
08/19/08	2,348.83	--	3.67	0.00	2,345.16	--	760 ⁹	480 ⁹	730	64 ²²	<0.5 ²²	2.1 ²²	6.0 ²²	--	--	--
09/11/08	2,348.83	--	3.64	0.00	2,345.19	--	<81 ⁹	390 ⁹	220	7.5 ²²	<2.0 ²²	<0.5 ²²	<1.5 ²²	--	--	--
04/01/09	2,348.83	--	3.64	0.00	2,345.19	--	--	--	--	--	--	--	--	--	--	--
06/04/09	2,348.83	--	2.86	0.00	2,345.97	--	--	--	--	--	--	--	--	--	--	--
07/31/09	2,348.83	--	3.69	0.00	2,345.14	--	--	--	--	--	--	--	--	--	--	--
08/27/09	2,348.83	--	3.38	0.00	2,345.45	--	--	--	--	--	--	--	--	--	--	--
MW-7																
02/17/92 ⁵	2,347.72	--	4.21	--	2,343.51	ND	1,600	--	580	200	8.1	70	23	--	2,500	ND
03/09/93	2,347.72	--	3.43	--	2,344.29	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,347.72	--	3.10	--	2,344.62	1,300	300	--	4,500	590	61	580	--	--	--	--
05/11/93	2,347.72	--	2.60	--	2,345.12	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,347.72	--	4.05	--	2,343.67	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,347.72	--	4.48	--	2,343.24	ND	260	--	300	200	5.1	24	1.0	--	--	ND
08/13/93	2,347.72	--	4.68	--	2,343.04	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,347.72	--	4.93	--	2,342.79	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,347.72	--	5.18	--	2,342.54	ND	ND	--	220	64	1.6	0.7	2.0	--	--	ND
03/04/94	2,347.72	--	4.04	--	2,343.68	ND	ND	--	210	51	1.2	0.5	1.4	--	--	--
06/08/94	2,347.72	--	4.45	--	2,343.27	ND	ND	--	130	44	2.2	0.5	1.0	--	--	ND
09/14/94	2,347.72	--	5.32	--	2,342.40	ND	67	--	87	49	ND	ND	ND	--	19	ND
01/25/95	2,347.72	--	3.05	--	2,344.67	--	130	--	2,900	281	29	326	649	--	--	ND
11/04/97	2,347.72	--	3.90	--	2,343.82	--	310	ND	2,620	501	11.9	383	91.8	--	--	--
05/05/98	2,347.72	--	3.99	--	2,343.73	--	--	--	1,820	488	12.9	295	77.8	--	--	--
03/18/99	2,347.72	--	3.72	0.00	2,344.00	--	--	--	5,090	649	32.5	815	719	ND ²	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-7 (cont)																
06/30/99	2,347.72	--	4.45	0.00	2,343.27	--	--	--	ND ²	636	ND ²	41.4	25.2	ND ²	--	--
09/03/99	2,347.72	--	3.59	0.00	2,344.13	--	ND ⁹	ND ⁹	682	621	11.3	9.13	21.3	--	--	--
11/21/99	2,347.72	--	2.49	0.00	2,345.23	--	ND ⁹	ND ⁹	401	10.2	11.1	1.56	10.5	--	--	--
02/19-20/00	2,347.72	--	1.76	0.00	2,345.96	--	ND ⁹	ND ⁹	5,050	765	41.8	1,040	527	--	--	--
05/06/00	2,347.72	--	2.41	0.00	2,345.31	--	ND ⁹	ND ⁹	2,820	345	27.3	520	103	--	--	--
08/08/00	2,347.72	--	2.84	0.00	2,344.88	--	ND ⁹	ND ⁹	996	558	8.96	21.5	29.4	--	--	--
11/12/00	2,347.72	--	2.57	0.00	2,345.15	--	424 ⁹	ND ⁹	1,350	534	20.0	22.4	33.8	--	--	--
02/22/01	2,347.72	INACCESSIBLE - VEHICLE PARKED OVER WELL														
05/22/01	2,347.72	INACCESSIBLE - VEHICLE PARKED OVER WELL														
08/13/01	2,347.72	INACCESSIBLE - VEHICLE PARKED OVER WELL														
11/11/01	2,347.72	--	3.79	0.00	2,343.93	--	<250 ⁹	<750 ⁹	3,880	610	8.57	12.9	29.9	--	--	--
01/31/02	2,347.72	INACCESSIBLE - VEHICLE PARKED OVER WELL														
06/03/02	2,347.72	--	4.03	0.00	2,343.69	SAMPLED SEMI-ANNUALLY										
08/28/02	2,347.72	--	3.10	0.00	2,344.62	--	450 ⁹	<250 ⁹	1,200	750	5.5	20	21	--	--	--
11/19/02	2,347.72	--	4.39	0.00	2,343.33	SAMPLED SEMI-ANNUALLY										
02/20/03	2,347.72	INACCESSIBLE - VEHICLE PARKED OVER WELL														
05/17/03	2,347.72	--	4.04	0.00	2,343.68	SAMPLED SEMI-ANNUALLY										
08/22/03	2,347.72	INACCESSIBLE - VEHICLE PARKED OVER WELL														
11/28/03	2,347.72	--	3.47	0.00	2,344.25	SAMPLED SEMI-ANNUALLY										
02/17/04	2,347.72	INACCESSIBLE - WELL IN GATED AREA														
06/09/04	2,347.72	UNABLE TO LOCATE														
08/11/04	2,347.72	UNABLE TO LOCATE														
11/21/04	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														
02/20/05	2,347.72	UNABLE TO LOCATE														
05/29/05	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														
08/18/05	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														
11/26/05	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														
02/20/06	2,347.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/06	2,347.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														
08/06/07	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														
08/19/08	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														
08/19/08	2,347.72	UNABLE TO LOCATE - COVERED BY LANDSCAPING														

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-8																
12/16/92	2,355.45	--	--	--	--	270,000	8,700	--	29,000	1,200	620	1,600	3,200	--	47	3.2
12/17/92 ⁵	2,355.45	--	8.66	--	2,346.79	79,000	200,000	--	16,000	1,600	320	2,100	3,400	--	190	11
02/23/93	2,355.45	--	8.32	--	2,347.13	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,355.45	--	7.70	--	2,347.75	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,355.45	6.99	7.24	0.25	2,348.41**	--	--	--	--	--	--	--	--	--	--	--
05/11/93	2,355.45	6.23	7.18	0.95	2,349.03**	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,355.45	9.42	9.80	0.38	2,345.95**	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,355.45	10.21	10.53	0.32	2,345.18**	--	--	--	--	--	--	--	--	--	--	--
08/13/93	2,355.45	--	10.45	--	2,345.00	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,355.45	--	10.59	--	2,344.86	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,355.45	--	10.72	--	2,344.73	--	--	--	--	--	--	--	--	--	--	--
06/08/94	2,355.45	9.78	9.82	0.04	2,345.66**	--	--	--	--	--	--	--	--	--	--	--
09/14/94	2,355.45	11.60	11.89	0.29	2,343.79**	--	--	--	--	--	--	--	--	--	--	--
01/25/95	2,355.45	--	8.57	--	2,346.88	--	--	--	--	--	--	--	--	--	--	--
05/16/95	2,355.45	--	9.34	0.02	2,346.13**	--	--	--	--	--	--	--	--	--	--	--
08/08/95	2,355.45	10.00	10.20	0.20	2,345.41**	--	--	--	--	--	--	--	--	--	--	--
11/14/95	2,355.45	--	8.81	--	2,346.64	--	120,000	12,000	270,000	840	ND ²	2,500	7,800	--	--	9.0
02/13/96	2,355.45	--	5.39	--	2,350.06	--	63,000	7,600	1,800,000	1,600	840	23,000	77,000	--	--	10
05/16/97	2,355.45	6.35	6.37	0.02	2,349.10**	--	--	--	--	--	--	--	--	--	--	--
11/04/97	2,355.45	--	7.90	Sheen	2,347.55	--	--	--	--	--	--	--	--	--	--	6.95
05/05/98	2,355.45	8.46	8.48	0.02	2,346.99**	--	--	--	--	--	--	--	--	--	--	--
03/18/99	2,355.45	6.78	6.79	0.01	2,348.67***	--	--	--	--	--	--	--	--	--	--	--
06/30/99	2,355.45	8.84	8.99	0.15	2,346.58***	--	--	--	--	--	--	--	--	--	--	--
09/03/99	2,355.45	8.22	8.35	0.13	2,347.20***	--	--	--	--	--	--	--	--	--	--	--
11/21/99	2,355.45	7.59	7.66	0.07	2,347.85***	--	--	--	--	--	--	--	--	--	--	--
02/19-20/00 ¹¹	2,355.45	5.13	5.33	0.20	2,350.28***	--	12,900 ⁹	1,570 ⁹	39,400	1,670	38.9	2,950	11,600	--	--	--
05/06/00 ¹¹	2,355.45	7.29	7.58	0.29	2,348.10***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
08/08/00 ¹¹	2,355.45	8.14	8.37	0.23	2,347.26***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
11/12/00 ¹¹	2,355.45	7.93	8.05	0.12	2,347.50***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
02/22/01 ¹³	2,355.45	6.24	6.30	0.06	2,349.20***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
05/22/01	2,355.45	6.04	7.04	1.00	2,349.21***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
08/13/01	2,355.45	8.59	9.04	0.45	2,346.77***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
11/11/01	2,355.45	8.62	9.00	0.38	2,346.75***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)	
MW-8 (cont)																	
01/31/02	2,355.45	5.09	5.61	0.52	2,350.26***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
06/03/02	2,355.45	7.38	7.58	0.20	2,348.03***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
08/02/02	2,355.45	8.38	8.71	0.33	2,347.00***	--	--	--	--	--	--	--	--	--	--	--	
08/28/02	2,355.45	8.31	8.46	0.15	2,347.11***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
09/20/02	2,355.45	8.71	8.98	0.27	2,346.69***	--	--	--	--	--	--	--	--	--	--	--	
11/06/02	2,355.45	8.71	9.13	0.42	2,346.66***	--	--	--	--	--	--	--	--	--	--	--	
11/19/02	2,355.45	9.86	10.86	1.00	2,345.39***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
01/03/03	2,355.45	9.71	10.28	0.57	2,345.63***	--	--	--	--	--	--	--	--	--	--	--	
01/30/03	2,355.45	8.59	9.32	0.73	2,346.71***	--	--	--	--	--	--	--	--	--	--	--	
02/20/03	2,355.45	5.02	5.49	0.47	2,350.34***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
03/21/03	2,355.45	9.84	10.45	0.61	2,345.49***	--	--	--	--	--	--	--	--	--	--	--	
05/06/03	2,355.45	6.76	7.07	0.31	2,348.63***	--	--	--	--	--	--	--	--	--	--	--	
05/17/03	2,355.45	6.81	7.10	0.29	2,348.58***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
06/29/03	2,355.45	7.06	7.39	0.33	2,348.32***	--	--	--	--	--	--	--	--	--	--	--	
07/28/03	2,355.45	8.03	8.30	0.27	2,347.37***	--	--	--	--	--	--	--	--	--	--	--	
08/22/03	2,355.45	8.34	8.60	0.26	2,347.06***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
09/23/03	2,355.45	8.60	8.88	0.28	2,346.79**	--	--	--	--	--	--	--	--	--	--	--	
11/01/03	2,355.45	8.22	8.47	0.25	2,347.18**	--	--	--	--	--	--	--	--	--	--	--	
11/28/03	2,355.45	8.96	9.25	0.29	2,346.43**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
12/29/03 ¹⁶	2,355.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02/02/04	2,355.45	6.67	6.91	0.24	2,348.73**	--	--	--	--	--	--	--	--	--	--	--	
02/17/04	2,355.45	4.96	5.10	0.16	2,350.48**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
06/09/04	2,355.45	6.04	6.12	0.08	2,349.39**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
08/11/04	2,355.45	7.40	7.54	0.14	2,348.02**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
11/21/04	2,355.45	7.02	7.16	0.14	2,348.40**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
02/20/05	2,355.45	6.92	7.10	0.18	2,348.49**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
05/29/05	2,355.45	6.35	6.52	0.17	2,349.07**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
08/18/05	2,355.45	7.92	8.29	0.37	2,347.46**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
11/26/05	2,355.45	7.00	7.24	0.24	2,348.40**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
02/20/06	2,355.45	6.78	6.99	0.21	2,348.63***	SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
05/12/06	2,355.45	6.11	7.20	1.09	2,349.12***	SAMPLED ANNUALLY				--	--	--	--	--	--	--	--
08/06/06	2,355.45	7.77	8.02	0.25	2,347.63***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	
08/06/07	2,355.45	7.32	7.37	0.05	2,348.12***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)	
MW-8 (cont)																	
08/19/08	2,355.45	7.95	8.23	0.28	2,347.44***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
09/11/08	2,355.45	8.50	8.27	0.26	2,347.39***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
04/01/09	2,355.45	--	--	<0.01	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
06/04/09	2,355.45	--	--	<0.01	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
07/31/09	2,355.45	--	--	<0.01	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
08/27/09	2,355.45	--	--	<0.01	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
MW-9A																	
02/22/01	2,353.68	5.45	6.31	0.86	2,348.06***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
05/22/01	2,353.68	-- ¹⁴	-- ¹⁴	10.64	-- ¹⁴	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
08/13/01	2,353.68	6.70	7.76	1.06	2,346.77***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
11/11/01	2,353.68	6.75	7.70	0.95	2,346.74***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
01/31/02	2,353.68	INACCESSIBLE - DUE TO SNOW AND ICE				--	--	--	--	--	--	--	--	--	--	--	--
06/03/02	2,353.68	5.72	6.90	1.18	2,347.72***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
08/02/02	2,353.68	6.59	7.70	1.11	2,346.87***	--	--	--	--	--	--	--	--	--	--	--	
08/28/02	2,353.68	6.88	7.45	0.57	2,346.69***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
09/20/02	2,353.68	6.82	7.91	1.09	2,346.64***	--	--	--	--	--	--	--	--	--	--	--	
11/06/02	2,353.68	7.42	8.06	0.64	2,346.13***	--	--	--	--	--	--	--	--	--	--	--	
11/19/02	2,353.68	8.11	8.50	0.39	2,345.49***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
01/03/03	2,353.68	8.04	8.46	0.42	2,345.56***	--	--	--	--	--	--	--	--	--	--	--	
01/30/03	2,353.68	6.94	7.43	0.49	2,346.64***	--	--	--	--	--	--	--	--	--	--	--	
02/20/03	2,353.68	3.39	3.96	0.57	2,350.18***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
03/21/03	2,353.68	8.13	8.51	0.38	2,345.47***	--	--	--	--	--	--	--	--	--	--	--	
05/06/03	2,353.68	5.03	5.60	0.57	2,348.54***	--	--	--	--	--	--	--	--	--	--	--	
05/17/03	2,353.68	3.62	4.14	0.52	2,349.96***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
06/29/03	2,353.68	5.33	5.88	0.55	2,348.24***	--	--	--	--	--	--	--	--	--	--	--	
07/28/03	2,353.68	7.01	7.51	0.50	2,346.57***	--	--	--	--	--	--	--	--	--	--	--	
08/22/03	2,353.68	6.50	7.86	1.36	2,346.91***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
09/23/03	2,353.68	6.40	6.91	0.51	2,347.18**	--	--	--	--	--	--	--	--	--	--	--	
11/01/03	2,353.68	7.21	7.69	0.48	2,346.37**	--	--	--	--	--	--	--	--	--	--	--	
11/28/03	2,353.68	7.10	7.41	0.31	2,346.52**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
12/29/03 ¹⁶	2,353.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
02/02/04	2,353.68	5.52	5.99	0.47	2,348.07**	--	--	--	--	--	--	--	--	--	--	--	
02/17/04	2,353.68	4.35	4.67	0.32	2,349.27**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-9A (cont)																
06/09/04	2,353.68	4.15	5.60	1.45	2,349.24**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
08/11/04	2,353.68	2.97	4.44	1.47	2,350.42**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
11/21/04	2,353.68	4.19	5.67	1.48	2,349.19**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
02/20/05	2,353.68	2.56	4.02	1.46	2,350.83**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
05/29/05	2,353.68	2.43	3.46	1.03	2,351.04**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
08/18/05	2,353.68	6.30	7.63	1.33	2,347.11**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
11/26/05	2,353.68	4.44	5.76	1.32	2,348.98**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
02/20/06	2,353.68	2.69	3.98	1.31	2,350.75**	SAMPLED ANNUALLY				--	--	--	--	--	--	--
05/12/06	2,353.68	2.63	3.92	1.29	2,350.79**	SAMPLED ANNUALLY				--	--	--	--	--	--	--
08/06/06	2,353.68	3.23	4.44	1.21	2,350.21**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
08/06/07	2,353.68	5.05	7.33	2.28	2,348.17**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
08/19/08	2,353.68	5.50	7.49	1.99	2,347.78**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
09/11/08	2,353.68	6.95	6.27	0.69	2,347.96**	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
04/01/09	2,353.68	--	--	<0.01	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
06/04/09	2,353.68	--	--	2.09	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
07/31/09	2,353.68	--	--	0.14	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
08/27/09	2,353.68	--	--	0.22	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--	--	--	--
MW-10A																
02/22/01	2,355.03	--	8.58	0.00	2,346.45	--	1,620 ⁹	ND ⁹	487	0.695	0.959	ND	ND	--	--	--
05/22/01	2,355.03	--	8.51	0.00	2,346.52	--	<250 ⁹	<750 ⁹	219	<0.500	<0.500	<0.500	<1.00	--	--	--
08/13/01	2,355.03	--	8.23	0.00	2,346.80	--	266 ⁹	<750 ⁹	135	1.81	<0.500	<0.500	<1.00	--	--	--
11/11/01	2,355.03	--	9.48	0.00	2,345.55	--	<250 ⁹	<750 ⁹	283	1.82	<1.00	<1.00	<1.50	--	--	--
01/31/02	2,355.03	INACCESSIBLE - DUE TO SNOW AND ICE				--	--	--	--	--	--	--	--	--	--	--
06/03/02	2,355.03	--	8.56	0.00	2,346.47	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--
08/28/02	2,355.03	--	8.81	0.00	2,346.22	--	<250 ⁹	<250 ⁹	<50	0.61	<0.50	<0.50	<1.5	--	--	--
11/19/02	2,355.03	--	9.74	0.00	2,345.29	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--
02/20/03	2,355.03	--	7.90	0.00	2,347.13	--	<250 ⁹	<250 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
05/17/03	2,355.03	--	8.22	0.00	2,346.81	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--
08/22/03	2,355.03	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--	--
11/28/03	2,355.03	--	9.02	0.00	2,346.01	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--
02/17/04	2,355.03	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--	--
06/09/04	2,355.03	--	8.80	0.00	2,346.23	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)	
MW-10A (cont)																	
08/11/04	2,355.03	--	7.80	0.00	2,347.23	--	<250 ^o	<250 ^o	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
11/21/04	2,355.03	--	7.89	0.00	2,347.14	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--	--	--	--	
02/20/05	2,355.03	--	8.33	0.00	2,346.70	--	<250 ^o	<250 ^o	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
05/29/05	2,355.03	--	8.88	0.00	2,346.15	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--	--	--	--	
08/18/05	2,355.03	--	8.58	0.00	2,346.45	--	<250 ^o	<250 ^o	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
11/26/05	2,355.03	--	7.93	0.00	2,347.10	SAMPLED SEMI-ANNUALLY		--	--	--	--	--	--	--	--	--	
02/20/06	2,355.03	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--	--	--	--	--
05/12/06	2,355.03	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,355.03	--	8.71	0.00	2,346.32	--	96 ^o	<100 ^o	62	1.8	0.6	<0.5	<1.5	--	--	--	
08/06/07	2,355.03	--	8.19	0.00	2,346.84	--	160 ^o	<98 ^o	61	2.7	<0.5	<0.5	<1.5	--	--	--	
08/19/08	2,355.03	UNABLE TO LOCATE - BURIED UNDER GRAVEL				--	--	--	--	--	--	--	--	--	--	--	--
04/01/09	2,355.03	--	6.74	0.00	2,348.29	--	--	--	--	--	--	--	--	--	--	--	
06/04/09	2,355.03	--	8.58	0.00	2,346.45	--	--	--	--	--	--	--	--	--	--	--	
07/31/09	2,355.03	--	8.49	0.00	2,346.54	--	--	--	--	--	--	--	--	--	--	--	
08/27/09	2,355.03	--	8.62	0.00	2,346.41	--	--	--	--	--	--	--	--	--	--	--	
MW-11																	
02/23/93	2,345.24	--	4.06	--	2,341.18	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	
03/09/93	2,345.24	--	3.98	--	2,341.26	--	--	--	--	--	--	--	--	--	--	--	
04/10/93	2,345.24	--	3.90	--	2,341.34	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
05/11/93	2,345.24	--	3.89	--	2,341.35	--	--	--	--	--	--	--	--	--	--	--	
06/17/93	2,345.24	--	4.28	--	2,340.96	--	--	--	--	--	--	--	--	--	--	--	
07/16/93	2,345.24	--	4.27	--	2,340.97	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND	
08/13/93	2,345.24	--	4.46	--	2,340.78	--	--	--	--	--	--	--	--	--	--	--	
09/15/93	2,345.24	--	4.63	--	2,340.61	--	--	--	--	--	--	--	--	--	--	--	
10/29/93	2,345.24	--	4.89	--	2,340.35	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND	
03/04/94	2,345.24	--	4.13	--	2,341.11	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	
06/08/94	2,345.24	--	4.29	--	2,340.95	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND	
09/14/94	2,345.24	--	5.03	--	2,340.21	ND	ND	--	ND	ND	700	ND	ND	--	15	ND	
01/25/95	2,345.24	--	3.87	--	2,341.37	--	ND	--	ND	ND	ND	ND	ND	--	--	ND	
05/16/95	2,345.24	--	4.27	--	2,340.97	--	--	--	--	--	--	--	--	--	--	--	
08/08/95	2,345.24	--	4.38	--	2,340.86	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND	
11/14/95	2,345.24	--	3.84	--	2,341.40	--	ND	ND	ND	ND	ND	ND	1.3	--	--	ND	

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)	
MW-11 (cont)																	
02/13/96	2,345.24	--	3.54	--	2,341.70	--	ND	ND	ND	ND	ND	ND	ND	--	--	ND	
05/16/97	2,345.24	--	3.89	--	2,341.35	--	ND	--	ND	ND	ND	ND	ND	--	7.9	--	
11/04/97	2,345.24	--	3.80	--	2,341.44	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	
05/05/98	2,345.24	--	4.04	--	2,341.20	--	--	--	ND	ND	ND	ND	ND	--	--	--	
03/18/99	2,345.24	--	3.37	0.00	2,341.87	--	--	--	ND	ND	ND	ND	ND	--	--	--	
06/30/99	2,345.24	--	3.88	0.00	2,341.36	--	--	--	ND	ND	ND	ND	ND	ND	--	--	
09/03/99	2,345.24	--	3.83	0.00	2,341.41	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--	
11/21/99	2,345.24	--	3.50	0.00	2,341.74	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--	
02/19-20/00	2,345.24	--	2.95	0.00	2,342.29	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--	
05/06/00	2,345.24	--	3.47	0.00	2,341.77	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--	
08/08/00	2,345.24	--	3.66	0.00	2,341.58	--	ND ⁹	ND ⁹	127	1.04	ND	ND	ND	--	--	--	
11/12/00	2,345.24	--	3.40	0.00	2,341.84	SAMPLED SEMI-ANNUALLY											
02/22/01	2,345.24	--	3.34	0.00	2,341.90	--	ND ⁹	ND ⁹	52.9	0.888	ND	0.506	ND	--	--	--	
05/22/01	2,345.24	--	3.11	0.00	2,342.13	SAMPLED SEMI-ANNUALLY											
08/13/01	2,345.24	--	3.68	0.00	2,341.56	--	<250 ⁹	<750 ⁹	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--	
11/11/01	2,345.24	--	4.41	0.00	2,340.83	SAMPLED SEMI-ANNUALLY											
01/31/02	2,345.24	INACCESSIBLE - DUE TO SNOW AND ICE				--	--	--	--	--	--	--	--	--	--	--	--
06/03/02	2,345.24	--	4.65	0.00	2,340.59	SAMPLED SEMI-ANNUALLY											
08/28/02	2,345.24	--	4.68	0.00	2,340.56	--	<250 ⁹	750 ⁹	<50	<0.50	<0.50	<0.50	<1.5	--	--	--	
11/19/02	2,345.24	--	4.58	0.00	2,340.66	SAMPLED SEMI-ANNUALLY											
02/20/03	2,345.24	--	3.68	0.00	2,341.56	--	1,000 ⁹	6,800 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	
05/17/03	2,345.24	--	3.95	0.00	2,341.29	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
08/22/03	2,345.24	--	4.02	0.00	2,341.22	--	720 ⁹	3,500 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
11/28/03	2,345.24	--	4.04	0.00	2,341.20	--	<800 ⁹	1,500 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
02/17/04	2,345.24	--	3.68	0.00	2,341.56	--	<250 ⁹	770 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
06/09/04	2,345.24	--	3.72	0.00	2,341.52	--	<250 ⁹	770 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
08/11/04	2,345.24	--	4.15	0.00	2,341.09	--	320 ⁹	1,900 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
11/21/04	2,345.24	--	4.31	0.00	2,340.93	--	<250 ⁹	320 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
02/20/05	2,345.24	--	4.02	0.00	2,341.22	--	<800 ⁹	5,700 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
05/29/05	2,345.24	--	3.93	0.00	2,341.31	--	270 ^{9,17}	1,100 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
08/18/05	2,345.24	--	4.35	0.00	2,340.89	--	1,200 ⁹	4,800 ⁹	<50	<0.5	0.8	<0.5	<1.5	--	--	--	
11/26/05	2,345.24	--	4.44	0.00	2,340.80	--	330 ^{9,20}	1,300 ⁹	<48	<0.5	<0.5	<0.5	<1.5	--	--	--	
02/20/06	2,345.24	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-11 (cont)																
05/12/06	2,345.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,345.24	--	4.30	0.00	2,340.94	--	<8,000 ⁹	49,000 ⁹	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
08/06/07	2,345.24	--	4.40	0.00	2,340.84	--	300 ⁹	1,600 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/19/08	2,345.24	--	4.35	0.00	2,340.89	--	<400 ⁹	1,700 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
04/01/09	2,345.24	NOT MONITORED OR SAMPLED				--	--	--	--	--	--	--	--	--	--	--
MW-12																
02/23/93	2,351.43	--	8.46	--	2,342.97	ND	ND	--	ND	ND	ND	ND	ND	--	--	--
03/09/93	2,351.43	--	8.30	--	2,343.13	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,351.43	--	8.11	--	2,343.32	ND	ND	--	ND	ND	ND	ND	--	--	--	--
05/11/93	2,351.43	--	7.86	--	2,343.57	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,351.43	--	9.49	--	2,341.94	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,351.43	--	10.21	--	2,341.22	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
08/13/93	2,351.43	--	10.72	--	2,340.71	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,351.43	--	11.31	--	2,340.12	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,351.43	--	11.44	--	2,339.99	--	ND	--	ND	ND	ND	ND	ND	--	--	ND
03/04/94	2,351.43	--	9.03	--	2,342.40	ND	ND	--	ND	ND	ND	ND	ND	--	--	--
06/08/94	2,351.43	--	9.31	--	2,342.12	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
09/14/94	2,351.43	--	11.96	--	2,339.47	ND	ND	--	ND	ND	ND	ND	ND	--	241	ND
01/25/95	2,351.43	--	7.82	--	2,343.61	--	ND	--	ND	ND	ND	ND	ND	--	--	ND
05/16/95	2,351.43	--	9.38	--	2,342.05	--	--	--	--	--	--	--	--	--	--	--
08/08/95	2,351.43	--	10.56	--	2,340.87	ND	ND	--	ND	ND	ND	ND	ND	--	--	--
11/14/95	2,351.43	--	14.80	--	2,336.63	--	ND	ND	ND	ND	ND	ND	ND	--	--	ND
02/13/96	2,351.43	--	6.65	--	2,344.78	--	260	ND	ND	ND	ND	ND	ND	--	--	ND
05/16/97	2,351.43	--	8.52	--	2,342.91	--	ND	--	ND	ND	ND	ND	ND	--	48.2	ND
11/04/97	2,351.43	--	8.30	--	2,343.13	--	ND	ND	ND	ND	ND	ND	ND	--	--	--
05/05/98	2,351.43	--	9.05	--	2,342.38	--	--	--	ND	ND	ND	ND	ND	--	--	--
03/18/99	2,351.43	--	8.11	0.00	2,343.32	--	--	--	ND	ND	ND	ND	ND	ND	--	--
06/30/99	2,351.43	--	9.40	0.00	2,342.03	--	--	--	ND	ND	ND	ND	ND	ND	--	--
09/03/99	2,351.43	--	9.32	0.00	2,342.11	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--
11/21/99	2,351.43	--	8.50	0.00	2,342.93	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--
02/19-20/00	2,351.43	--	7.59	0.00	2,343.84	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--
05/06/00	2,351.43	--	8.52	0.00	2,342.91	--	ND ⁹	ND ⁹	ND	ND	ND	ND	ND	--	--	--
08/08/00	2,351.43	--	8.85	0.00	2,342.58	--	ND ⁹	ND ⁹	ND	ND	ND	ND	1.00	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-12 (cont)																
11/12/00	2,351.43	--	8.35	0.00	2,343.08	SAMPLED SEMI-ANNUALLY										
02/22/01	2,351.43	--	8.34	0.00	2,343.09	--	ND ^{2,9}	ND ^{2,9}	ND	ND	ND	ND	ND	--	--	--
05/22/01	2,351.43	--	8.21	0.00	2,343.22	SAMPLED SEMI-ANNUALLY										
08/13/01	2,351.43	INACCESSIBLE ¹⁵		--	--	--	--	--	--	--	--	--	--	--	--	--
11/11/01	2,351.43	--	9.44	0.00	2,341.99	SAMPLED SEMI-ANNUALLY										
01/31/02	2,351.43	--	7.86	0.00	2,343.57	--	<250 ⁹	<750 ⁹	<100	<0.500	<2.00	<1.00	<1.50	--	--	--
06/03/02	2,351.43	--	9.71	0.00	2,341.72	SAMPLED SEMI-ANNUALLY										
08/28/02	2,351.43	--	9.64	0.00	2,341.79	--	<250 ⁹	<250 ⁹	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
11/19/02	2,351.43	--	9.55	0.00	2,341.88	SAMPLED SEMI-ANNUALLY										
02/20/03	2,351.43	--	7.53	0.00	2,343.90	--	<250 ⁹	<250 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
05/17/03	2,351.43	--	8.19	0.00	2,343.24	SAMPLED SEMI-ANNUALLY										
08/22/03	2,351.43	--	8.49	0.00	2,342.94	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/28/03	2,351.43	--	8.53	0.00	2,342.90	SAMPLED SEMI-ANNUALLY										
02/17/04	2,351.43	--	7.74	0.00	2,343.69	--	<800 ⁹	<1,000 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
06/09/04	2,351.43	--	7.78	0.00	2,343.65	SAMPLED SEMI-ANNUALLY										
08/11/04	2,351.43	--	9.00	0.00	2,342.43	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/21/04	2,351.43	--	9.12	0.00	2,342.31	SAMPLED SEMI-ANNUALLY										
02/20/05	2,351.43	--	8.86	0.00	2,342.57	--	<250 ⁹	370 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
05/29/05	2,351.43	--	8.75	0.00	2,342.68	SAMPLED SEMI-ANNUALLY										
08/18/05	2,351.43	--	7.59	0.00	2,343.84	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/26/05	2,351.43	--	8.38	0.00	2,343.05	SAMPLED SEMI-ANNUALLY										
02/20/06	2,351.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/06	2,351.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,351.43	INACCESSIBLE - DUE TO A HORNET NEST				--	--	--	--	--	--	--	--	--	--	--
08/06/07	2,351.43	--	9.16	0.00	2,342.27	--	100 ⁹	<100 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/19/08	2,351.43	--	9.28	0.00	2,342.15	--	<79 ⁹	<99 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
09/11/08	2,351.43	--	6.88	0.00	2,344.55	--	<79 ⁹	<99 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
04/01/09	2,351.43	--	4.69	0.00	2,346.74	--	<29 ⁹	<68 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
06/04/09	2,351.43	--	6.52	0.00	2,344.91	--	--	--	--	--	--	--	--	--	--	--
07/31/09	2,351.43	--	6.90	0.00	2,344.53	--	<29 ⁹	<68 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/27/09	2,351.43	--	6.49	0.00	2,344.94	--	--	--	--	--	--	--	--	--	--	--
04/01/09	2,352.43	--	4.54	1.00	2,347.89	--	<29 ⁹	<68 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
07/31/09	2,353.43	--	6.90	2.00	2,346.53	--	<29 ⁹	<68 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-13																
02/22/01	2,353.93	UNABLE TO LOCATE - COVERED BY GRAVEL														
05/22/01	2,353.93	UNABLE TO LOCATE - COVERED BY GRAVEL														
08/13/01	2,353.93	UNABLE TO LOCATE - COVERED BY GRAVEL														
11/11/01	2,353.93	UNABLE TO LOCATE - COVERED BY GRAVEL														
01/31/02	2,357.30	--	5.78	0.00	2,351.52	--	<250 ⁹	<750 ⁹	<100	<0.500	<2.00	<1.00	<1.50	--	--	<1.00
06/03/02	2,357.30	--	6.63	0.00	2,350.67	--	<250 ⁹	<750 ⁹	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
08/28/02	2,357.30	--	7.24	0.00	2,350.06	--	<250 ⁹	<250 ⁹	<50	<0.50	0.50	<0.50	<1.5	--	--	--
11/19/02	2,357.30	--	5.69	0.00	2,351.61	--	<250 ⁹	<250 ⁹	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
02/20/03	2,357.30	--	6.14	0.00	2,351.16	--	<250 ⁹	<250 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--
05/17/03	2,357.30	--	6.80	0.00	2,350.50	--	1,900 ⁹	11,000 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/22/03	2,357.30	--	7.15	0.00	2,350.15	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/28/03	2,357.30	--	8.10	0.00	2,349.20	--	290 ⁹	260 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
02/17/04	2,357.30	--	5.58	0.00	2,351.72	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
06/09/04	2,357.30	--	7.54	0.00	2,349.76	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/11/04	2,357.30	--	4.93	0.00	2,352.37	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/21/04	2,357.30	--	6.42	0.00	2,350.88	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
02/20/05	2,357.30	--	6.21	0.00	2,351.09	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
05/29/05	2,357.30	--	7.79	0.00	2,349.51	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/18/05	2,357.30	--	5.91	0.00	2,351.39	--	<250 ⁹	<250 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/26/05	2,357.30	--	6.51	0.00	2,350.79	--	<86 ⁹	<110 ⁴	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
02/20/06	2,357.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/06	2,357.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,357.30	--	6.97	0.00	2,350.33	--	<80 ⁹	<100 ⁹	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
08/06/07	2,357.30	--	7.00	0.00	2,350.30	--	<80 ⁹	<99 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/19/08	2,357.30	--	7.01	0.00	2,350.29	--	<79 ⁹	<99 ⁹	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
09/11/08	2,357.30	--	8.54	0.00	2,348.76	--	--	--	--	--	--	--	--	--	--	--
04/01/09	2,357.30	--	3.31	0.00	2,353.99	--	--	--	--	--	--	--	--	--	--	--
06/04/09	2,357.30	--	7.52	0.00	2,349.78	--	--	--	--	--	--	--	--	--	--	--
07/31/09	2,357.30	--	6.71	0.00	2,350.59	--	--	--	--	--	--	--	--	--	--	--
08/27/09	2,357.30	--	7.65	0.00	2,349.65	--	--	--	--	--	--	--	--	--	--	--
MW-14																
02/22/01	2,353.34	--	4.40	0.00	2,348.94	--	109,000 ⁹	5,520 ⁹	38,300	948	151	548	1,450	--	--	--
05/22/01	2,353.34	5.52	7.74	2.22	2,347.38***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
08/13/01	2,353.34	5.82	8.00	2.18	2,347.08***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)	
MW-14 (cont)																	
11/11/01	2,353.34	5.90	8.01	2.11	2,347.02***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
01/31/02	2,353.34	INACCESSIBLE - DUE TO SNOW AND ICE				--	--	--	--	--	--	--	--	--	--	--	--
06/03/02	2,353.34	4.81	5.73	0.92	2,348.35***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
08/02/02	2,353.34	5.80	6.65	0.85	2,347.37***	--	--	--	--	--	--	--	--	--	--	--	--
08/28/02	2,353.34	5.80	6.41	0.61	2,347.42***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
09/20/02	2,353.34	6.04	7.06	1.02	2,347.10***	--	--	--	--	--	--	--	--	--	--	--	--
11/06/02	2,353.34	6.36	7.08	0.72	2,346.84***	--	--	--	--	--	--	--	--	--	--	--	--
11/19/02	2,353.34	7.82	8.23	0.41	2,345.44***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
01/03/03	2,353.34	7.73	8.17	0.44	2,345.52***	--	--	--	--	--	--	--	--	--	--	--	--
01/30/03	2,353.34	6.61	7.07	0.46	2,346.64***	--	--	--	--	--	--	--	--	--	--	--	--
02/20/03	2,353.34	3.07	3.69	0.62	2,350.15***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
03/21/03	2,353.34	7.79	8.21	0.42	2,345.47***	--	--	--	--	--	--	--	--	--	--	--	--
05/06/03	2,353.34	4.88	5.42	0.54	2,348.35***	--	--	--	--	--	--	--	--	--	--	--	--
05/17/03	2,353.34	3.82	4.40	0.58	2,349.40***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
06/29/03	2,353.34	5.09	5.60	0.51	2,348.15***	--	--	--	--	--	--	--	--	--	--	--	--
07/28/03	2,353.34	7.24	7.81	0.57	2,345.99***	--	--	--	--	--	--	--	--	--	--	--	--
08/22/03	2,353.34	7.51	7.84	0.33	2,345.76***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
09/23/03	2,353.34	6.55	7.09	0.54	2,346.68**	--	--	--	--	--	--	--	--	--	--	--	--
11/01/03	2,353.34	7.45	7.98	0.53	2,345.78**	--	--	--	--	--	--	--	--	--	--	--	--
11/28/03	2,353.34	6.76	7.80	1.04	2,346.37**	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--	--
12/29/03 ¹⁶	2,353.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/02/04	2,353.34	4.63	5.12	0.49	2,348.61**	--	--	--	--	--	--	--	--	--	--	--	--
02/17/04	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
06/09/04	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
08/11/04	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
11/21/04	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
02/20/05	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
05/29/05	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
08/18/05	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
11/26/05	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
02/20/06	2,353.34	UNABLE TO LOCATE - COVERED BY ROCK PILE															
05/12/06	2,353.34	UNABLE TO LOCATE - AREA COVERED BY GRAVEL															
08/06/06	2,353.34	UNABLE TO LOCATE - AREA COVERED BY GRAVEL															

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-14 (cont)																
08/06/07	2,353.34	UNABLE TO LOCATE - AREA COVERED BY GRAVEL						--	--	--	--	--	--	--	--	--
08/19/08	2,353.34	UNABLE TO LOCATE - AREA COVERED BY GRAVEL						--	--	--	--	--	--	--	--	--
04/01/09	2,353.34	UNABLE TO LOCATE - AREA COVERED BY GRAVEL						--	--	--	--	--	--	--	--	--
MW-15																
01/31/02	2,356.82	--	7.24	0.00	2,349.58	--	486 ⁹	<750 ⁹	11,900	745	168	713	2,150	--	--	1.47
06/03/02	2,356.82	--	9.63	0.00	2,347.19	--	1,000 ⁹	<750 ⁹	26,000	300	200	1,900	6,800	--	--	--
08/28/02	2,356.82	--	10.50	0.00	2,346.32	--	920 ⁹	310 ⁹	22,000	600	210	1,200	4,700	--	--	--
11/19/02	2,356.82	--	11.73	0.00	2,345.09	--	7,700 ⁹	1,500 ⁹	18,000	1,100	130	840	2,900	--	--	--
02/20/03	2,356.82	--	7.09	0.00	2,349.73	--	680 ⁹	330 ⁹	1,200	59	15	58	200	<5.0	--	--
05/17/03	2,356.82	--	9.07	0.00	2,347.75	--	1,300 ⁹	780 ⁹	12,000	310	160	760	3,300	--	--	--
08/22/03	2,356.82	--	10.22	0.00	2,346.60	--	990 ⁹	470 ⁹	22,000	410	100	1,100	4,700	--	--	--
11/28/03	2,356.82	--	10.76	0.00	2,346.06	--	6,300 ⁹	1,400 ⁹	7,500	200	38	340	1,300	--	--	--
02/17/04	2,356.82	--	6.95	0.00	2,349.87	--	2,900 ⁹	1,300 ⁹	1,800	110	38	110	390	--	--	--
06/09/04	2,356.82	--	8.35	0.00	2,348.47	--	2,900 ⁹	1,800 ⁹	5,700	85	46	170	1,100	--	--	--
08/11/04	2,356.82	--	9.16	0.00	2,347.66	--	940 ⁹	460 ⁹	7,500	100	31	230	1,700	--	--	--
11/21/04	2,356.82	--	9.24	0.00	2,347.58	--	800 ⁹	<250 ⁹	15,000	580	170	890	3,200	--	--	--
02/20/05	2,356.82	--	9.04	0.00	2,347.78	--	520 ⁹	<250 ⁹	12,000	400	160	780	2,700	--	--	--
05/29/05	2,356.82	--	8.51	0.00	2,348.31	--	610 ^{9,17}	<500 ⁹	5,300	99	53	230	740	--	--	--
08/18/05	2,356.82	--	10.07	0.00	2,346.75	--	1,200 ⁹	560 ⁹	2,300	75	0.7	0.7	360	--	--	--
11/26/05	2,356.82	--	9.33	0.00	2,347.49	--	2,000 ^{9,19}	280 ⁹	6,800	360	92	470	1,500	--	--	--
02/20/06	2,356.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/12/06	2,356.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,356.82	--	9.91	0.00	2,346.91	--	1,700 ⁹	1,400 ⁹	3,400	290	60	150	760	--	--	--
08/06/07	2,356.82	--	9.24	0.00	2,347.58	--	600 ⁹	370 ⁹	3,400	250	50	220	700	--	--	--
08/19/08	2,356.82	--	9.19	0.00	2,347.63	--	240 ⁹	200 ⁹	3,000	210	45	220	680	--	--	--
04/01/09	2,356.82	--	9.84	0.00	2,346.98	--	--	--	--	--	--	--	--	--	--	--
04/01/09	2,356.82	--	5.38	0.00	2,351.44	--	--	--	--	--	--	--	--	--	--	--
06/04/09	2,356.82	--	8.61	0.00	2,348.21	--	--	--	--	--	--	--	--	--	--	--
07/31/09	2,356.82	--	9.24	0.00	2,347.58	--	--	--	--	--	--	--	--	--	--	--
08/27/09	2,356.82	--	9.50	0.00	2,347.32	--	--	--	--	--	--	--	--	--	--	--
MW-16																
01/31/02	2,355.96	--	5.62	0.00	2,350.34	--	390 ⁹	<750 ⁹	5,470	640	46.0	267	27.7	--	--	<1.00
06/03/02	2,355.96	--	8.19	0.00	2,347.77	--	900 ⁹	<750 ⁹	2,500	470	41	310	65	--	--	--
08/28/02	2,355.96	--	9.16	0.00	2,346.80	--	1,600 ⁹	270 ⁹	3,700	660	44	410	53	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-16 (cont)																
11/19/02	2,355.96	--	10.75	0.00	2,345.21	--	1,500 ⁹	<250 ⁹	3,200	570	36	380	56	--	--	--
02/20/03	2,355.96	--	5.76	0.00	2,350.20	--	870 ⁹	<250 ⁹	1,600	240	15	130	24	<10	--	--
05/17/03	2,355.96	7.55	7.58	0.03	2,348.40***	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
08/22/03	2,355.96	--	9.13	0.00	2,346.83	--	10,000 ⁹	<1,000 ⁹	1,800	760	40	240	39	--	--	--
11/28/03	2,355.96	--	9.78	0.00	2,346.18	--	2,600 ⁹	390 ⁹	2,200	530	27	250	32	--	--	--
02/17/04	2,355.96	--	5.58	0.00	2,350.38	--	2,900 ⁹	950 ⁹	1,300	180	11	89	14	--	--	--
06/09/04	2,355.96	6.72	6.86	0.14	2,349.21**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
08/11/04	2,355.96	8.11	8.16	0.05	2,347.84**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
11/21/04	2,355.96	7.81	8.00	0.19	2,348.11**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
02/20/05	2,355.96	7.86	8.04	0.18	2,348.06**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
05/29/05	2,355.96	6.81	7.40	0.59	2,349.03**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
08/18/05	2,355.96	8.74	9.15	0.41	2,347.14**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
11/26/05	2,355.96	7.63	7.90	0.27	2,348.28**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
02/20/06	2,355.96	7.57	7.88	0.31	2,348.33**	SAMPLED ANNUALLY										
05/12/06	2,355.96	7.09	7.84	0.75	2,348.72**	SAMPLED ANNUALLY										
08/06/06	2,355.96	8.55	9.01	0.46	2,347.32**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
08/06/07	2,355.96	8.05	8.62	0.57	2,347.80**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
08/19/08	2,355.96	8.61	9.57	0.96	2,347.16**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
09/11/08	2,355.96	9.47	8.92	0.55	2,346.38**	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
04/01/09	2,355.96	--	--	0.09	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
06/04/09	2,355.96	--	--	<0.01	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
07/31/09	2,355.96	--	--	0.05	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
08/27/09	2,355.96	--	--	0.22	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH										
MW-17																
01/31/02	2,354.19	INACCESSIBLE - DUE TO SNOW AND ICE				--	--	--	--	--	--	--	--	--	--	--
06/03/02	2,354.19	--	5.60	0.00	2,348.59	--	2,200 ⁹	<750 ⁹	7,900	840	180	1,600	730	--	--	3.3
08/28/02	2,354.19	--	6.92	0.00	2,347.27	--	1,600 ⁹	<250 ⁹	9,600	620	190	1,500	850	--	--	<1.2
11/19/02	2,354.19	--	8.39	0.00	2,345.80	--	3,400 ⁹	820 ⁹	7,600	690	140	1,400	380	--	--	--
02/20/03	2,354.19	--	3.26	0.00	2,350.93	--	1,200 ⁹	730 ⁹	9,800	820	240	2,000	880	<20	--	--
05/17/03	2,354.19	--	5.04	0.00	2,349.15	--	2,100 ⁹	390 ⁹	7,600	940	190	1,500	660	--	--	--
08/22/03	2,354.19	--	6.70	0.00	2,347.49	--	1,200 ⁹	<250 ⁹	9,000	480	160	1,400	640	--	--	--
11/28/03	2,354.19	--	7.38	0.00	2,346.81	--	1,200 ⁹	<250 ⁹	7,200	460	150	1,200	410	--	--	--
02/17/04	2,354.19	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--	--
06/09/04	2,354.19	--	4.16	0.00	2,350.03	--	730 ⁹	<500	7,700	530	170	1,600	550	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)	
MW-17 (cont)																	
08/11/04	2,354.19	--	5.12	0.00	2,349.07	--	1,100 ⁹	290 ⁹	7,800	400	160	1,500	610	--	--	--	
11/21/04	2,354.19	--	4.15	0.00	2,350.04	--	750 ⁹	<250 ⁹	7,400	380	150	1,400	560	--	--	--	
02/20/05	2,354.19	--	4.93	0.00	2,349.26	--	300 ⁹	450 ⁹	500	43	12	83	32	--	--	--	
05/29/05	2,354.19	--	4.33	0.00	2,349.86	--	680 ⁹	<250 ⁹	5,000	200	83	860	210	--	--	--	
08/18/05	2,354.19	--	6.44	0.00	2,347.75	--	1,400 ⁹	400 ⁹	1,900	68	2.8	0.9	170	--	--	--	
11/26/05	2,354.19	--	4.23	0.00	2,349.96	--	1,000 ^{9,19}	160 ⁹	6,100	260	110	950	370	--	--	--	
02/20/06	2,354.19	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--	--	--
05/12/06	2,354.19	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--	--	--
08/06/06	2,354.19	--	6.27	0.00	2,347.92	--	1,200 ⁹	420 ⁹	5,700	200	89	1,000	310	--	--	--	
08/06/07	2,354.19	--	5.11	0.00	2,349.08	--	980 ⁹	320 ⁹	7,700	100	90	1,600	450	--	--	--	
08/19/08	2,354.19	--	5.57	0.00	2,348.62	--	370 ⁹	<100 ⁹	6,000	110	58	1,300	430	--	--	--	
04/01/09	2,354.19	--	1.69	0.00	2,352.50	--	--	--	--	--	--	--	--	--	--	--	
06/04/09	2,354.19	--	4.66	0.00	2,349.53	--	--	--	--	--	--	--	--	--	--	--	
07/31/09	2,354.19	--	5.63	0.00	2,348.56	--	--	--	--	--	--	--	--	--	--	--	
08/27/09	2,354.19	--	5.96	0.00	2,348.23	--	--	--	--	--	--	--	--	--	--	--	
MW-18																	
09/11/08	2,346.62	--	3.71	0.00	2,342.91	--	<99	<120	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
04/01/09	2,346.62	--	2.21	0.00	2,344.41	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
06/04/09	2,346.62	--	3.46	0.00	2,343.16	--	--	--	--	--	--	--	--	--	--	--	
07/31/09	2,346.62	--	3.82	0.00	2,342.80	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
08/27/09	2,346.62	--	3.17	0.00	2,343.45	--	--	--	--	--	--	--	--	--	--	--	
04/01/09	2,346.62	--	4.76	1.00	2,341.86	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
07/31/09	2,347.62	--	3.82	0.00	2,343.80	--	<31	<72	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
MW-19																	
09/11/08	2,349.45	--	7.07	0.00	2,342.38	--	<800	<1,000	<50	<0.5	<0.5	<0.7	<1.5	--	--	--	
04/01/09	2,349.45	--	4.89	0.00	2,344.56	--	<29	<68	<50	<0.5	<0.5	<0.7	<1.5	--	--	--	
06/04/09	2,349.45	--	6.68	0.00	2,342.77	--	--	--	--	--	--	--	--	--	--	--	
07/31/09	2,349.45	--	7.13	0.00	2,342.32	--	<29	<68	<50	<0.5	<0.5	<0.7	<1.5	--	--	--	
08/27/09	2,349.45	--	6.78	0.00	2,342.67	--	--	--	--	--	--	--	--	--	--	--	
04/01/09	2,350.45	--	4.91	1.00	2,345.54	--	<30	<70	<50	<0.5	<0.5	<0.7	<1.5	--	--	--	
07/31/09	2,351.45	--	7.13	2.00	2,344.32	--	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-20																
09/11/08	2,345.88	--	5.44	0.00	2,340.44	--	<79	<99	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
04/01/09	2,345.88	--	3.67	0.00	2,342.21	--	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
06/04/09	2,345.88	--	5.00	0.00	2,340.88	--	--	--	--	--	--	--	--	--	--	--
07/31/09	2,345.88	--	5.33	0.00	2,340.55	--	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/27/09	2,345.88	--	4.62	0.00	2,341.26	--	--	--	--	--	--	--	--	--	--	--
04/10/09	2,346.88	--	3.69	1.00	2,343.19	--	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
07/31/09	2,347.88	--	5.33	2.00	2,342.55	--	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
MW-21																
12/08/09	NR	--	5.07		--	--	1,400	380	3,100	240	150	18	110	--	--	--
MW-22																
12/08/09	NR	--	4.92		--	--	1,300	410	3,200	470	200	23	23	--	--	--
MW-23																
12/08/09	NR	--	5.86		--	--	1,300	430	7,900	660	1,500	78	200	--	--	--
MW-1																
03/29/92 ¹	2,354.24	--	--	--	--	--	49,800	--	--	169	27	462	48	--	323	--
04/23/92	2,354.24	--	7.74	--	2,346.50	--	--	--	--	--	--	--	--	--	--	--
12/17/92	2,354.24	--	8.02	--	2,346.22	19,000	15,000	--	3,900	200	15	260	32	--	22	4.2
12/18/92 ³	2,354.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/23/92	2,354.24	--	7.46	--	2,346.78	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,354.24	--	7.27	--	2,346.97	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,354.24	--	6.52	--	2,347.72	28,000	10,000	--	3,000	98	14	130	--	--	--	--
05/11/93	2,354.24	--	6.00	--	2,348.24	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,354.24	--	8.50	--	2,345.74	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,354.24	--	8.61	--	2,345.63	9,400	5,400	--	2,800	120	31	200	46	--	--	ND
08/13/93	2,354.24	--	9.54	--	2,344.70	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,354.24	--	10.14	--	2,344.10	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,354.24	--	10.66	--	2,343.58	5,900	4,300	--	4,400	180	24	290	43	--	--	ND
03/04/94	2,354.24	--	8.29	--	2,345.95	44,000	55,000	--	1,900	610	110	110	15	--	--	--
06/08/94	2,354.24	--	8.53	--	2,345.71	10,000	1,400	--	2,100	620	120	120	27	--	--	ND
09/14/94	2,354.24	--	10.68	--	2,343.56	11.1	689	--	4,400	62.6	13	139	25	--	71	2.0
DESTROYED																

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-3																
03/29/92 ¹	2,354.43	--	--	--	--	--	ND	--	--	ND	ND	ND	ND	--	196	--
04/23/92	2,354.43	--	7.20	--	2,347.23	--	--	--	--	--	--	--	--	--	--	--
12/17/92	2,354.43	--	7.74	--	2,346.69	ND	ND	--	ND	ND	ND	ND	ND	--	45	2.2
02/23/93	2,354.43	--	6.98	--	2,347.45	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,354.43	--	6.72	--	2,347.71	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,354.43	--	6.27	--	2,348.16	ND	ND	--	ND	ND	ND	ND	--	--	--	--
05/11/93	2,354.43	--	6.24	--	2,348.19	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,354.43	--	8.53	--	2,345.90	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,354.43	--	9.11	--	2,345.32	ND	ND	--	ND	ND	ND	ND	ND	--	--	--
08/13/93	2,354.43	--	9.82	--	2,344.61	--	--	--	--	--	--	--	--	--	--	ND
09/15/93	2,354.43	--	10.34	--	2,344.09	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,354.43	--	10.86	--	2,343.57	ND	ND	--	ND	ND	ND	ND	ND	--	--	--
03/04/94	2,354.43	--	7.13	--	2,347.30	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
06/08/94	2,354.43	--	8.36	--	2,346.07	ND	ND	--	ND	ND	ND	ND	ND	--	--	--
09/14/94	2,354.43	--	10.95	--	2,343.48	ND	ND	--	ND	ND	ND	ND	ND	--	81	ND
01/25/95	2,354.43	--	8.09	--	2,346.34	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
DESTROYED																
MW-4																
03/29/92 ¹	2,352.35	--	--	--	--	--	ND	--	--	ND	ND	ND	ND	--	142	--
04/23/92	2,352.35	--	6.92	--	2,345.43	--	--	--	--	--	--	--	--	--	--	--
12/17/92	2,352.35	--	7.75	--	2,344.60	1,200	ND	--	ND	ND	ND	ND	ND	--	48	ND
02/23/93	2,352.35	--	6.82	--	2,345.53	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,352.35	--	6.72	--	2,345.63	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,352.35	--	5.78	--	2,346.57	ND	ND	--	ND	ND	ND	ND	--	--	--	--
05/11/93	2,352.35	--	5.56	--	2,346.79	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,352.35	--	7.58	--	2,344.77	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,352.35	--	8.19	--	2,344.16	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
08/13/93	2,352.35	--	8.63	--	2,343.72	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,352.35	--	9.10	--	2,343.25	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,352.35	--	9.51	--	2,342.84	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
03/04/94	2,352.35	--	7.76	--	2,344.59	ND	ND	--	ND	ND	ND	ND	ND	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-4 (cont)																
06/08/94	2,352.35	--	8.04	--	2,344.31	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
09/14/94	2,352.35	--	9.68	--	2,342.67	114	ND	--	ND	ND	ND	ND	ND	--	300	ND
01/25/95	2,352.35	--	6.42	--	2,345.93	--	51	--	ND	ND	ND	ND	ND	--	--	ND
DESTROYED																
MW-5																
03/29/92 ¹	2,353.38	--	--	--	--	--	ND	--	--	ND	ND	ND	ND	--	--	--
04/23/92	2,353.38	--	6.30	--	2,347.08	--	--	--	--	--	--	--	--	--	--	--
12/17/92 ⁵	2,353.38	--	6.86	--	2,346.52	ND	ND	--	ND	ND	ND	ND	ND	--	ND	3.0
02/23/93	2,353.38	--	6.12	--	2,347.26	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,353.38	--	5.99	--	2,347.39	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,353.38	--	5.00	--	2,348.38	ND	ND	--	ND	ND	ND	ND	--	--	--	--
05/11/93	2,353.38	--	4.81	--	2,348.57	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,353.38	--	7.23	--	2,346.15	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,353.38	--	8.19	--	2,345.19	ND	ND	--	160	ND	0.5	ND	ND	--	--	8.6
08/13/93	2,353.38	--	8.59	--	2,344.79	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,353.38	--	9.22	--	2,344.16	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,353.38	--	9.79	--	2,343.59	1,900	1,900	--	2,600	0.7	2.7	4.8	14	--	--	ND
03/04/94	2,353.38	--	117.10	--	2,236.28	ND	ND	--	ND	ND	ND	ND	ND	--	--	--
06/08/94	2,353.38	✗	7.46	--	2,345.92	ND	ND	--	ND	ND	ND	ND	ND	--	--	ND
09/14/94	2,353.38	--	9.74	--	2,343.64	0.6	199	--	591	ND	3.0	2.0	6.0	--	--	ND
DESTROYED																
MW-6																
12/17/92 ⁶	2,348.38	--	5.39	--	2,342.99	4,600	780	--	2,200	950	34	360	ND	--	460	ND
03/09/93	2,348.38	--	3.93	--	2,344.45	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,348.38	--	3.76	--	2,344.62	1,000	ND	--	400	53	4.1	4.1	--	--	--	--
05/11/93	2,348.38	--	3.26	--	2,345.12	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,348.38	--	5.03	--	2,343.35	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,348.38	--	5.63	--	2,342.75	2,700	310	--	2,500	1,000	50	350	82	--	--	ND
08/13/93	2,348.38	--	5.79	--	2,342.59	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,348.38	--	6.02	--	2,342.36	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,348.38	--	6.21	--	2,342.17	3,700	270	--	1,600	760	15	16	13	--	--	ND
03/04/94	2,348.38	--	114.26	--	2,234.12	1,700	ND	--	5,000	360	15	30	21	--	--	--
06/08/94	2,348.38	--	6.58	--	2,341.80	ND	ND	--	470	370	18	5.2	7.3	--	--	ND

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-6 (cont)																
09/14/94	2,348.38	--	6.24	--	2,342.14	1.9	134	--	1,310	512	9.0	4.0	6.0	--	24	ND
01/25/95	2,348.38	--	3.90	--	2,344.48	--	ND	--	206	26.2	ND	2.0	3.0	--	--	ND
DESTROYED																
MW-9																
12/17/92	2,353.61	--	6.46	--	2,347.15	--	--	--	--	--	--	--	--	--	--	--
12/18/92 ⁷	2,353.61	--	--	--	--	15,000	2,000	--	15,000	7,200	1,500	1,200	2,500	--	140	4.0
02/23/93	2,353.61	--	5.88	--	2,347.73	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,353.61	--	5.77	--	2,347.84	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,353.61	--	5.08	--	2,348.53	12,000	600	--	20,000	8,400	2,800	1,300	--	--	--	--
05/11/93	2,353.61	--	4.41	--	2,349.20	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,353.61	--	7.06	--	2,346.55	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,353.61	--	7.88	--	2,345.73	16,000	440	--	34,000	7,400	4,800	1,900	5,300	--	--	3.4
08/13/93	2,353.61	--	8.16	--	2,345.45	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,353.61	--	8.62	--	2,344.99	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,353.61	--	9.16	--	2,344.45	12,000	800	--	17,000	7,300	1,100	980	2,600	--	--	ND
03/04/94	2,353.61	--	7.41	--	2,346.20	6,800	1,100	--	21,000	7,200	1,000	1,100	2,600	--	--	--
06/08/94	2,353.61	--	7.91	--	2,345.70	8,000	1,100	--	13,000	8,500	900	1,300	3,400	--	--	ND
09/14/94	2,353.61	--	9.43	--	2,344.18	10.9	223	--	9,270	6,600	395	1,100	1,800	--	113	ND
01/25/95	2,353.61	5.65	5.75	0.10	2,347.94**	--	--	--	--	--	--	--	--	--	--	--
05/16/95	2,353.61	7.77	9.27	1.50	2,345.54**	--	--	--	--	--	--	--	--	--	--	--
11/14/95	2,353.61	5.63	5.80	0.17	2,347.95**	--	--	--	--	--	--	--	--	--	--	--
02/13/96	2,353.61	2.40	4.53	2.13	2,350.78**	--	--	--	--	--	--	--	--	--	--	--
05/16/97	2,353.61	4.16	4.82	0.66	2,349.32**	--	--	--	--	--	--	--	--	--	--	--
11/04/97	2,353.61	6.15	6.20	0.05	2,347.45**	--	--	--	--	--	--	--	--	--	--	--
05/05/98	2,353.61	6.57	6.75	0.18	2,347.00**	--	--	--	--	--	--	--	--	--	--	--
03/18/99	2,353.61	5.25	7.07	1.82	2,348.00***	--	--	--	--	--	--	--	--	--	--	--
06/30/99	2,353.61	7.00	7.08	0.08	2,346.59***	--	--	--	--	--	--	--	--	--	--	--
09/03/99	2,353.61	6.50	6.85	0.35	2,347.04***	--	--	--	--	--	--	--	--	--	--	--
11/21/99	2,353.61	5.80	5.96	0.16	2,347.78***	--	--	--	--	--	--	--	--	--	--	--
02/19-20/00 ¹⁰	2,353.61	5.05	7.22	2.17	2,348.13***	--	23,100 ⁹	ND ^{2,9}	43,100	6,900	4,620	2,950	8,460	--	--	--
05/06/00 ¹⁰	2,353.61	5.69	6.17	0.48	2,347.82***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
08/08/00 ¹¹	2,353.61	6.28	7.04	0.76	2,347.18***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
11/12/00 ¹¹	2,353.61	6.08	6.51	0.43	2,347.44***	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--	--	--
ABANDONED																

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
MW-10																
12/17/92 ⁸	2,354.35	--	9.12	--	2,345.23	94,000	23,000	--	66,000	1,300	220	5,400	16,000	--	1,300	24
02/23/93	2,354.35	--	8.82	--	2,345.53	--	--	--	--	--	--	--	--	--	--	--
03/09/93	2,354.35	--	8.42	--	2,345.93	--	--	--	--	--	--	--	--	--	--	--
04/10/93	2,354.35	8.03	8.20	0.17	2,346.29**	--	--	--	--	--	--	--	--	--	--	--
05/11/93	2,354.35	7.50	7.93	0.43	2,346.76**	--	--	--	--	--	--	--	--	--	--	--
06/17/93	2,354.35	9.00	9.29	0.29	2,345.29**	--	--	--	--	--	--	--	--	--	--	--
07/16/93	2,354.35	9.34	9.38	0.04	2,345.00**	--	--	--	--	--	--	--	--	--	--	--
08/13/93	2,354.35	9.51	9.93	0.42	2,344.76**	--	--	--	--	--	--	--	--	--	--	--
09/15/93	2,354.35	9.72	10.14	0.42	2,344.55**	--	--	--	--	--	--	--	--	--	--	--
10/29/93	2,354.35	9.38	9.42	0.04	2,344.96**	--	--	--	--	--	--	--	--	--	--	--
06/08/94	2,354.35	--	9.80	--	2,344.55	--	--	--	--	--	--	--	--	--	--	--
09/14/94	2,354.35	--	10.41	--	2,343.94	--	--	--	--	--	--	--	--	--	--	--
01/25/95	2,354.35	7.91	8.16	0.25	2,346.39**	--	--	--	--	--	--	--	--	--	--	--
DESTROYED																
TRIP BLANK																
05/05/98	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
03/18/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	1.41	ND	--	--
06/30/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--
09/03/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
11/21/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
02/19-20/00	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
05/06/00	--	--	--	--	--	--	--	--	414	ND	ND	ND	ND	--	--	--
08/08/00	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
11/12/00	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
02/22/01	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
05/22/01	--	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
08/13/01	--	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
11/11/01	--	--	--	--	--	--	--	--	<100	<0.500	<1.00	<1.00	<1.50	--	--	--
01/31/02	--	--	--	--	--	--	--	--	<100	<0.500	<2.00	<1.00	<1.50	--	--	--
06/03/02	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
04/01/09	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
07/31/09	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--	--

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

WELL ID/ DATE	TOC* (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (ft.)	TPH 418.1 (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. Lead (µg/L)	D. Lead (µg/L)
QA																
08/28/02	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
11/19/02	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
02/20/03	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--	--
05/17/03	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	2.5	--	--
08/22/03	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/28/03	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
02/17/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
06/09/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/11/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/21/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
QA (cont)																
02/20/05	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
05/29/05	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/18/05	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/26/05	--	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
08/06/06	--	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
08/06/07	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/19/08	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
04/01/09	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
						TPH-418.1	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	T. Lead	D. Lead
Standard Laboratory Reporting Limits:						200	250	250	50	0.5	0.5	0.5	1.5	2.5	--	1.2
MTCA Method A Cleanup Levels:						--	500	500	800/1,000	5	1,000	700	1,000	20	15	--
Current Method:						418.1	NWTPH-D+Extended		NWTPH-G and EPA 8021						EPA 7421	

Table 3
Groundwater Monitoring Data and Analytical Results
Former Standard Oil Bulk Plant No. 206196
815 College Street
Pullman, Washington

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 18, 1999, were compiled from reports prepared by Pacific Environmental Group, Inc.

TOC = Top of Casing (ft.) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline	(µg/L) = Micrograms per liters
DTP = Depth to Product	TPH-418.1 = Total Petroleum Hydrocarbons as 418.1.	ND = Not Detected
DTW = Depth to Water	B = Benzene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	T = Toluene	QA = Quality Assurance/Trip Blank
SPHT = Separate Phase Hydrocarbon Thickness	E = Ethylbenzene	MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01]
TPH-D = Total Petroleum Hydrocarbons as Diesel	X = Xylenes	PAHs = Polynuclear Aromatic Hydrocarbons
TPH-O = Total Petroleum Hydrocarbons as Oil	MTBE = Methyl tertiary butyl ether	NR = Not recorded at time of sampling
	(ppb) = Parts per billion	

* TOC elevations are referenced in feet relative to Mean Sea Level (msl). Data provided by Delta Environmental Inc.

** GWE elevation has been corrected for the presence of SPH; correction factor [(TOC - DTW) + (SPHT x 0.80)].

*** GWE elevation has been corrected for the presence of SPH; correction factor [(TOC - DTP - SPHT) + (SPHT x 0.80)]; Historical data has been altered to correct error in original reporting of depth to product as depth to water.

- 1 Laboratory report indicates HCID was ND.
- 2 Detection limit raised. Refer to analytical reports.
- 3 Laboratory report indicates PAHs was detected at 53 ppb.
- 4 Laboratory report indicates PAHs was detected at 22 ppb.
- 5 Laboratory report indicates PAHs were ND.
- 6 Laboratory report indicates PAHs was detected at 24 ppb.
- 7 Laboratory report indicates PAHs was detected at 23 ppb.
- 8 Laboratory report indicates PAHs was detected at 220 ppb.
- 9 TPH-D and TPH-O with silica gel cleanup.
- 10 Sock in well.
- 11 Skimmer present in well.
- 12 TOC trimmed 2 inches; unable to determine accurate GWE.
- 13 No skimmer in well.
- 14 Unable to determine DTW and GWE due to SPH.
- 15 Wasps living in well.
- 16 Attempted, but unable to Monitor/Sample due to severe weather conditions.
- 17 Laboratory report indicates the observed sample pattern is not typical of diesel/#2 fuel oil.
- 18 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes earlier in the DRO range.
- 19 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and additional patterns which elute earlier and later in the DRO range.
- 20 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 Fuel.
- 21 Laboratory report indicates the internal standard peak was outside the QC limits in the undiluted analysis. The sample was re-analyzed one day outside of the holding time at a five times dilution and the internal standard met criteria. The values reported are from the initial analysis of the sample. The value for the diluted analysis are noted: Benzene 160 µg/L, Toluene 8.5 µg/L, Ethylbenzene 15 µg/L, Total Xylenes 13 µg/L.
- 22 Laboratory report indicates the internal standard peak was outside the QC limits in the undiluted analysis. The sample was re-analyzed one day outside of the holding time at a five times dilution and the internal standard met criteria. The values reported are from the initial analysis of the sample. The value for the diluted analysis are noted: Benzene 85 µg/L, Toluene ND, Ethylbenzene 4.0 µg/L, Total Xylenes 9.6 µg/L.

**Appendix A:
Boring Logs**



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-2

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/22/2009
Date Completed: 10/27/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 9.5 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	225				FILL		1	(FILL) FILL. Angular gravel w/ 10% silt. Loose. (moderate odor, moderate sheen). Boring was hand augered or airknifed to 8 feet bgs.
Moist	415		SB-2-4	G = 1200 D = 280 HO = <26 B = <0.031	ML		4	(ML) Dark brown SILT w/ <10% fine sand. Stiff, med. plasticity. (heavy odor, heavy sheen)
Moist	345						5	SAME AS ABOVE. Stiff. (heavy odor, heavy sheen)
Moist	275		SB-2-7.5	G = 1200 D = 140 HO = <14 B = <0.038	ML		8	(ML) SAME AS ABOVE. Hard, high plasticity. (moderate odor, moderate sheen).
Wet							7	
Moist	111.1		SB-2-9	G = 710 D = 120 HO = <13 B = <0.034			9	Dark brown SILT w/ <10% fine sand and occ. cobbles and gravel. Refusal at 9.5 feet, bedrock encountered. (slight odor, slight sheen)
							10	Bottom of borehole at 9.5 feet.










18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-3

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/22/2009
Date Completed: 10/27/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 17 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							1	(FILL) FILL to 2 feet bgs. Large concrete pieces to 5" in diameter.
Dry	140.7				FILL		2	Boring was hand augered or airknifed to 8 feet bgs.
					SM		3	(SM) Dark brown, coarse SAND w/ 25% silt. Loose. (moderate odor, moderate sheen)
Dry	415		SB-3-4	G = 3500 D = 5000 HO = <630 B = <0.34	ML		4	(ML) Dark brown SILT w/ 5% coarse sand and 5% gravel. Soft, no plasticity. (strong odor, heavy sheen)
							5	Dark brown SILT. Soft, high plasticity. (heavy odor, heavy sheen)
Moist	685						6	
Moist	148.1				ML		7	(ML) SAME AS ABOVE. (moderate odor, moderate sheen)
							8	
Moist	799		SB-3-9	G = 3300 D = 380 HO = <26 B = 1.9			9	Dark brown SILT w/ occ. roots and gravel. Very soft, low plasticity. (strong odor, heavy sheen)
							10	
Wet	685				ML		11	(ML) Dark brown SILT w/ 10% fine to med. sand. High plasticity. (strong odor, heavy sheen)
Moist	103.7						12	SAME AS ABOVE. High plasticity. (slight odor, slight sheen)
							13	
Moist	66.6		SB-3-14	G = 19 D = <4.0 HO = <13 B = 0.01	ML		14	(ML) Dark brown SILT w/ 10-15% fine sand. Hard, med. plasticity. (no odor, no sheen)
							15	
Moist	29.6				SP		16	Dark brown SILT w/ <10% sand. Med. plasticity. (no odor, no sheen)
							17	(SP) SAND and gravel. Refusal @ 17 feet bgs. Bedrock encountered.
							18	Bottom of borehole at 17.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-4

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/22/2009
Date Completed: 10/28/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 16 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	Gravel to 6 inches.
					SP		1	Boring was hand augered or airknifed to 8 feet bgs. (SP) Black fine to med. SAND. Very loose. (no odor, no sheen)
Dry	12.5				ML		2	(ML) Dark brown SILT w/ 15% fine sand. Dry, no plasticity. (no odor, no sheen)
							3	
							4	
							5	
Wet	56						6	Dark brown SILT w/ <10% fine sand. Stiff, med. plasticity. (no odor, no sheen)
							7	
Saturated	1509				ML		8	(ML) SAME AS ABOVE. Soft, med. plasticity. (strong odor, heavy sheen)
Wet	13.7		SB-4-8	G = 2200 D = 420 HO = <29 B = 0.34			9	Dark brown SILT w/ <10% fine sand and <5% gravel. Soft, med. plasticity. (no odor, no sheen)
							10	
	537		SB-4-10	G = 740 D = 130 HO = <12 B = 0.30	ML		11	(ML) Dark brown SILT w/ 10% fine sand. Hard. (moderate odor, moderate sheen)
							12	
Wet	186.2				SM		13	(SM) Dark brown, med. to coarse, silty SAND w/ 5% gravel. Dense. (slight odor, slight sheen)
							14	Gray, med. to coarse, gravelly, silty SAND. Loose. (slight odor, slight sheen)
Wet	13.7		SB-4-14	G = <1.1 D = <3.4 HO = <11 B = 0.008	SM		15	(SM) SAME AS ABOVE. Loose. (no odor, no sheen)
							16	Refusal @ 16 feet. Bedrock encountered.
							17	Bottom of borehole at 16.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-5

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/22/2009
Date Completed: 10/28/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 14 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0 - 1.5	Gravel. FILL to 1.5 feet. Boring was hand augered or airknifed to 8 feet bgs.
Moist	43.7				ML		1.5 - 2.0	(ML) Dark brown SILT w/ <10% fine sand. Soft, low plasticity. (no odor, no sheen)
Moist	2733		SB-5-4.5	G = 650 D = 57 HO = <13 B = 0.16			2.0 - 4.0	Cobbles at 3.5 feet. Dark brown SILT w/ <10% fine sand. Soft, low plasticity. (heavy odor, heavy sheen)
	1703						4.0 - 6.0	SAME AS ABOVE. Stiff. (heavy odor, heavy sheen)
Moist	118.7				ML		6.0 - 8.0	(ML) SAME AS ABOVE. Soft. (no odor, no sheen)
Moist	168.7		SB-5-8	G = 290 D = 5.7 HO = <14 B = <0.038			8.0 - 9.0	SAME AS ABOVE. Soft. (no odor, no sheen)
Wet	34.5						9.0 - 11.0	(ML) Dark brown SILT w/ 10% gravel. Stiff. (no odor, no sheen)
Wet	62		SB-5-11	G = 490 D = 6.3 HO = <12 B = 0.49	ML		11.0 - 13.0	(ML) Dark brown, gravelly, sandy SILT. Soft. (no odor, no sheen)
Wet	131				GM		13.0 - 14.0	(GM) Light brown, silty GRAVEL w/ 10% coarse sand to 14 feet. Refusal @ 14 feet. Bedrock encountered. (no sheen, no odor)
	27						14.0 - 15.0	Bottom of borehole at 14.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-6

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/22/2009
Date Completed: 10/28/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 16 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0	Gravel to 6 inches. FILL.
Dry	0.0				ML		1	Boring was hand augered or airknifed to 8 feet bgs. (ML) Light brown SILT w/ <10% sand and 5% cobbles. Low plasticity.
					ML		2	
					ML		3	
Moist	31.2				ML		4	(ML) Dark brown SILT w/ <10% sand and occ. cobbles. Soft, low plasticity. (no odor, no sheen)
					ML		5	Dark brown, fine, sandy SILT. Stiff, low plasticity. (slight odor, slight sheen).
					ML		6	SAME AS ABOVE. (strong odor, heavy sheen)
Moist	2370		SB-6-7	G = 3600 D = 240 HO = 33 B = 0.88	ML		7	(ML) Dark brown, sandy SILT. Stiff, no plasticity. (strong odor, heavy sheen)
Wet	2370				ML		8	Dark brown SILT w/ 10% fine sand. Hard, med. plasticity. (strong odor, heavy sheen)
Wet	687				ML		9	(ML) Brown-gray SILT w/ 10% fine sand. Hard, med. plasticity. (strong odor, heavy sheen)
					ML		10	Brown SILT w 5% sand. Hard, med. plasticity. (med. odor, med. sheen)
Wet	213				ML		11	
Moist	234				ML		12	Brown-gray SILT w/ <5% sand. Stiff, med plasticity. (slight odor, slight sheen)
Moist	240				ML		13	(ML) Brown SILT w/ occ. gravel. Soft. (slight odor, slight sheen).
					ML		14	
Dry	27.5		SB-6-15	G = 2.2 D = <3.5 HO = <12 B = 0.001	SP-SM		15	(SP-SM) Brown, gravelly SAND w/ 10% silt. Very dense. (no odor, no sheen)
							16	Refusal @ 16 feet. Bedrock encountered
							17	Bottom of borehole at 16.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-7

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/22/2009
Date Completed: 10/27/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 13.5 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
					FILL		0 - 1.5	(FILL) Gravel to 1.5 feet below ground surface. Boring was hand augered or airknifed to 8 feet bgs.
Moist	738				ML		1.5 - 3.5	(ML) Dark brown SILT. Soft, low plasticity. (strong odor, heavy sheen)
	911		SB-7-4	G = 3100 D = 590 HO = <70 B = 2.2	ML		3.5 - 5.5	SAME AS ABOVE w/ some cobbles. (strong odor, heavy sheen)
Moist	816				ML		5.5 - 7.5	(ML) SAME AS ABOVE. (strong odor, heavy sheen)
Wet	344						7.5	SAME AS ABOVE. (strong odor, heavy sheen)
Moist	340				ML		7.5 - 11.5	(ML) Brown-gray SILT w/ <5% fine sand. Very hard, high plasticity. (moderate odor, moderate sheen)
	50				ML		11.5 - 12.5	(ML) SAME AS ABOVE. grades to gray sandy silty at 12.5 feet. Very hard. (moderate odor, moderate sheen)
Moist	22.2			G = 7.8 D = <3.8 HO = <13 B = 0.012	SM		12.5 - 13.0	(SM) Red-gray, med. to coarse sand w/ 15% silt. (no odor, no sheen)
							13.0 - 13.5	No recovery. Bedrock encountered.
							13.5 - 14.0	Bottom of borehole at 13.5 feet.








18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-10

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/23/2009
Date Completed: 10/28/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 4.5 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Dry	13.7				GP		0 to 1	(GP) FILL Gravel to 1 foot bgs. Boring was handaugered or airknifed to 4.5 feet bgs.
					SM		1 to 4	(SM) Gray, fine to med. SAND w/ 20% silt and <5% coarse black sand. Very dense. (no odor, no sheen)
Moist	75.8		SB-10-4	G = 430 D = 740 HO = <120 B = 0.10	ML		4 to 4.5	(ML) Dark brown SILT w/ 20% angular gravel (weathered bedrock) and 10% fine sand. (slight odor, slight sheen). Refusal @ 4.5 feet. Bedrock encountered.
							4.5 to 6	Bottom of borehole at 4.5 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-13

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/23/2009
Date Completed: 10/28/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 14.5 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
					FILL		0 - 1.5	(FILL) FILL. Gravel to 1.5 feet bgs. Boring was hand augered or airknifed to 8 feet bgs.
Dry	0.0				OL		1.5 - 2.0	(OL) Dark brown, organic SILT w/ roots. Very soft. (no odor, no sheen)
					ML-CL		2.0 - 3.5	(ML-CL) Tan, clayey SILT w/ occ. fine sand. Hard, high plasticity. (slight odor, slight sheen)
Moist	89.6				ML		3.5 - 5.5	(ML) Dark brown SILT w/ <10% fine sand. Cobbles at 6 feet. (moderate odor, moderate sheen)
Moist	308		SB-13-6	G = 450 D = 430 HO = 280 B = 0.89	ML		5.5 - 6.5	(ML) Dark brown, sandy SILT w/ woody debris. Stiff. (moderate odor, slight sheen)
					ML		6.5 - 7.5	(ML) Dark brown, sandy SILT w/ woody debris. Stiff. (moderate odor, slight sheen)
Moist	325				ML		7.5 - 8.0	(ML) Dark brown to black SILT. Hard, med. plasticity. (slight sheen, no odor).
			SB-13-8	G = 1800 D = 1200 HO = <72 B = 0.22	ML		8.0 - 9.0	(ML) SAME AS ABOVE. (no odor, no sheen)
Moist	1022				ML		9.0 - 10.5	(ML) SAME AS ABOVE. (no odor, no sheen)
Wet	1100				ML		10.5 - 11.0	(ML) SAME AS ABOVE. (no odor, no sheen)
					SW		11.0 - 12.5	(SW) Dark brown, fine to coarse SAND w/ angular gravel and 10% silt. Medium dense. (moderate odor, slight sheen)
Wet	782				SW		12.5 - 13.0	SAME AS ABOVE. Fine to coarse SAND w/ gravel and silt. (no odor, no sheen)
			SB-13-13	G = 2.5 D = <3.5 HO = <12 B = 0.008	SW		13.0 - 14.5	Refusal @ 14.5 feet bgs.
Wet	117				SW		14.5 - 15.0	Refusal @ 14.5 feet bgs.
							15.0 - 16.0	Bottom of borehole at 14.5 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-14

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/28/2009
Date Completed: 10/28/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 13 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Dry	6.8				GP		0-1	(GP) FILL. Angular gravel to 1 foot. Boring was hand augered or airknifed to 8 feet bgs.
Moist	0.0				SW		1-2	(SW) Brown, fine to coarse SAND w/ 15% gravel and 10% silt. Loose. (no odor, no sheen)
							2-4	Brown SILT w/ 15% fine sand and occ. gravel. (no odor, no sheen)
	0.0				ML		4-6	(ML) Brown SILT w/ 30% fine sand and 15% angular gravel and cobbles. Soft. (no odor, no sheen)
	0.0						6-7	Brown SILT w/ 20% fine to coarse sand and 10% gravel. Stiff, low plasticity. (no odor, no sheen)
Moist	0.0				ML		7-8	(ML) Gray SILT. Hard, high plasticity. (no odor, no sheen)
Wet	0.0						8-10	(ML) Dark brown SILT w/ <10% fine sand. Stiff, high plasticity. (slight odor, no sheen)
Moist	0.0				ML		10-11	(SM) Dark brown, med. to coarse, silty SAND. Dense. (strong odor, moderate sheen)
Moist	580				SM		11-12	
Wet	13.7						12-13	(SP-SM) Gray, med. to coarse SAND w/ 10% gravel and 10% silt. Very dense. (no odor, no sheen)
	0.0				SP-SM		13-14	Refusal @ 13 feet bgs. Bedrock encountered. Bottom of borehole at 13.0 feet.

SB-14-6

G = 5.7
D = <3.7
HO = <12
B = 0.0008

SB-14-11

G = 840
D = <4.0
HO = <13
B = 0.34

SB-14-13

G = 1.5
D = <3.5
HO = <12
B = 0.039



8



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-16

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/29/2009
Date Completed: 10/29/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 12.25 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
Moist	0	Hand icon			FILL		1	(FILL) Sandy, gravelly, cobbly FILL. Boring was hand augered or airknifed to 8 feet bgs. Brown, sandy, angular gravel. Very dense. (no odor, no sheen)
Moist	0	Hand icon			FILL		2	(FILL) SAME AS ABOVE. (no odor, no sheen)
Moist	0	Hand icon			SW		3	
Moist	0	Hand icon			SW		4	(SW) Brown, silty, gravelly SAND w/ fine to coarse sand and angular gravel. Very dense. (no odor, no sheen)
Moist	0	Hand icon			SW		5	
Moist	0	Hand icon			SW		6	(SW) SAME AS ABOVE. (no odor, no sheen).
Moist	29.6	Hand icon	SB-16-8	G = 150 D = 37 HO = <14 B = 0.003	ML		7	(ML) Gray SILT w/ 10% fine sand. Hard, high plasticity. (slight odor, slight sheen)
Wet	192	Hand icon	SB-16-9	G = 1600 D = 700 HO = <63 B = <0.039	ML		8	Gray SILT. Very hard, high plasticity. (moderate odor, heavy sheen)
Moist	140	Hand icon	SB-16-12	G = 160 D = 120 HO = <13 B = 0.0008	ML		9	(ML) SAME AS ABOVE. (slight odor, slight sheen)
Moist	220	Hand icon					10	SAME AS ABOVE. (no odor, no sheen)
Moist	0.0	Hand icon					11	Refusal @ 12.25 feet. Bedrock encountered.
							12	
							13	Bottom of borehole at 12.3 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Boring: SB-17

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA

Logged By: Andrew Lembrick
Date Started: 10/29/2009
Date Completed: 10/29/2009

Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe
Total Boring Depth: 13 ft

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION
							0 - 1.5	FILL. Angular gravel and sand to 1.5 feet bgs. Boring was hand augered or airknifed to 8 feet bgs.
Moist	44.4				ML		1.5 - 3.5	(ML) Brown SILT w/ <10% sand. Soft, low plasticity, moist. (slight odor, no sheen)
Moist	482		SB-17-4	G = 24 D = 120 HO = 130 B = 0.012	ML		3.5 - 5.5	(ML) Brown SILT w/ 10% sand. Stiff, low plasticity. (strong odor, heavy sheen)
Moist/Wet	140.7				ML		5.5 - 7.5	(ML) SAME AS ABOVE. (moderate odor, moderate sheen)
Wet	303						7.5 - 8.0	SAME AS ABOVE. w/ occ. gravel. Low plasticity. (moderate odor, moderate sheen)
Wet	51						8.0 - 9.0	(ML) Gray SILT. Very hard, high plasticity. (no odor, slight sheen)
Wet	29				ML		9.0 - 10.0	SAME AS ABOVE. (no odor, slight sheen)
Moist	14.8						10.0 - 11.0	(ML) SAME AS ABOVE. (no odor, no sheen)
Moist	14.8				ML		11.0 - 12.0	(ML) SAME AS ABOVE. (no odor, no sheen)
Moist	66.0		SB-17-12	G = 110 D = 58 HO = 65 B = 0.059	ML		12.0 - 12.5	(ML) Light brown, sandy SILT. Very hard. (no odor, no sheen)
Moist	7.5				SW		12.5 - 13.0	(SW) Brownish-gray, fine to coarse SAND w/ 10% silt and 5% gravel. Very dense. (no odor, no sheen)
							13.0	Refusal @ 13 feet. Bedrock encountered.

Bottom of borehole at 13.0 feet.



18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Monitoring Well: MW-23

Project: Former Std. Oil Bulk Plant 206196
Client: Chevron EMC
Location: 815 NE College St., Pullman, WA
Logged By: Andrew Lembrick

Date Started: 10/28/2009
Date Completed: 10/29/2009
Driller: Cascade Drilling, Inc.
Drill Method: Hand Auger/ Geoprobe

Total Boring Depth: 14 ft
Hole Diameter: 16.25 in.
Well Depth: 13.95 ft
TOC Elevation: ft

Well Diameter: 4 in
Well Screen: 10 Slot 3.95 to 13.95 ft
Filter Pack: 2/12 Monterey Sand
Well Casing: Sch. 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	SAMP. INTERVAL	ANALYTICAL SAMPLE	Analytical Results (mg/mk)	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
							1	FILL. Angular gravel. Boring was airknifed to 8 feet bgs.	
Moist	0.0				ML		2	(ML) Dark brown SILT w/ <10% fine sand and occ. gravel. Soft, low plasticity. (no odor, no sheen)	Well Box Sch 40 PVC Riser Concrete Seal
Moist	0.0				ML		3		Bentonite
Moist	0.0				ML		4	(ML) Brown SILT w/ 20% fine to med. sand. Stiff, low plasticity. (no odor, no sheen)	
Moist	550		MW-23-6	G = 2000 D = 41 HO = <14 B = <0.17	ML		5	(ML) Dark gray SILT w/ <5% sand. Hard, med. to high plasticity. (moderate odor, moderate sheen)	
Wet	170				ML		6	(ML) Gray SILT. Hard, high plasticity. (slight odor, no sheen)	
Wet	111				OL		7	(OL) Dark brown organic SILT. (no odor, no sheen)	
Wet	14				ML		8	(ML) Dark brown SILT. Very hard, high plasticity. (no odor, no sheen)	
Wet	14				ML		9	(ML) Gray sandy SILT. Very hard, low plasticity. (no odor, no sheen)	
Wet	14				SM		10	(SM) Gray silty gravelly fine to med. SAND. Very dense. (no odor, no sheen)	2/12 Monterey Sand
	0		MW-23-13	G = <1.3 D = <3.5 HO = <12 B = 0.051			11		
							12		
							13		
							14	Bottom of borehole at 14.0 feet.	
							15		

Appendix B:
Laboratory Analytical Reports

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

April 16, 2009

SAMPLE GROUP

The sample group for this submittal is 1138940. Samples arrived at the laboratory on Friday, April 03, 2009. The PO# for this group is 0015039577 and the release number is CARRIER.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-18 Grab Water Sample	5638465
MW-20 Grab Water Sample	5638466
MW-12 Grab Water Sample	5638467
MW-19 Grab Water Sample	5638468
TB-1 Water Sample	5638469

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Don Wyll

Attn: Tina King

Attn: Alisa Wells



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,

A handwritten signature in blue ink that reads "Tracy A. Cole".

Tracy A. Cole
Senior Specialist

Lancaster Laboratories Sample No. WW 5638465

Group No. 1138940

MW-18 Grab Water Sample

WA

Facility# 206196

815 NE College St. - Pullman, WA

Collected: 04/01/2009 15:45 by AL

Account Number: 11255

Submitted: 04/03/2009 09:00

Chevron

Reported: 04/16/2009 at 16:32

6001 Bollinger Canyon Rd L4310

Discard: 05/17/2009

San Ramon CA 94583

CSP18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602	NWTPH-Gx GC Volatiles		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846	8021B GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602	NWTPH-Dx GC Extractable TPH		ug/l	ug/l	
modified	w/Si Gel				
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09096A54A	04/07/2009 07:49	Marie D John	1
05879	BTEX	SW-846 8021B	1	09096A54A	04/07/2009 07:49	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	09096A54A	04/07/2009 07:49	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	090960012A	04/07/2009 11:12	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	090960012A	04/07/2009 02:00	Roman Kuropatkin	1

Lancaster Laboratories Sample No. WW 5638466

Group No. 1138940

MW-20 Grab Water Sample

WA

Facility# 206196

815 NE College St. - Pullman, WA

Collected: 04/01/2009 16:00 by AL

Account Number: 11255

Submitted: 04/03/2009 09:00

Chevron

Reported: 04/16/2009 at 16:32

6001 Bollinger Canyon Rd L4310

Discard: 05/17/2009

San Ramon CA 94583

CSP20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602	NWTPH-Gx GC Volatiles		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602	NWTPH-Dx GC Extractable TPH		ug/l	ug/l	
modified	w/Si Gel				
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	31	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	73	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09096A54A	04/07/2009 08:12	Marie D John	1
05879	BTEX	SW-846 8021B	1	09096A54A	04/07/2009 08:12	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	09096A54A	04/07/2009 08:12	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	090960012A	04/07/2009 11:33	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	090960012A	04/07/2009 02:00	Roman Kuropatkin	1

Lancaster Laboratories Sample No. WW 5638467

Group No. 1138940

MW-12 Grab Water Sample

WA

Facility# 206196

815 NE College St. - Pullman, WA

Collected: 04/01/2009 16:20 by AL

Account Number: 11255

Submitted: 04/03/2009 09:00

Chevron

Reported: 04/16/2009 at 16:32

6001 Bollinger Canyon Rd L4310

Discard: 05/17/2009

San Ramon CA 94583

CSP12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	ug/l N.D.	ug/l 50	1
SW-846 8021B GC Volatiles					
05879	Benzene	71-43-2	ug/l N.D.	ug/l 0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602 NWTPH-Dx GC Extractable TPH					
modified w/Si Gel					
02211	DRO C12-C24 w/Si Gel	n.a.	ug/l N.D.	ug/l 29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09103A94A	04/13/2009 20:28	Katrina T Longenecker	1
05879	BTEX	SW-846 8021B	1	09103A94A	04/13/2009 20:28	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	09103A94A	04/13/2009 20:28	Katrina T Longenecker	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	090960012A	04/07/2009 11:53	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	090960012A	04/07/2009 02:00	Roman Kuropatkin	1

Lancaster Laboratories Sample No. WW 5638468

Group No. 1138940

MW-19 Grab Water Sample

WA

Facility# 206196

815 NE College St. - Pullman, WA

Collected: 04/01/2009 16:40 by AL

Account Number: 11255

Submitted: 04/03/2009 09:00

Chevron

Reported: 04/16/2009 at 16:32

6001 Bollinger Canyon Rd L4310

Discard: 05/17/2009

San Ramon CA 94583

CSP19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx	GC Volatiles		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602 NWTPH-Dx modified	GC Extractable TPH w/Si Gel		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09103A94A	04/14/2009 10:30	Katrina T Longenecker	1
05879	BTEX	SW-846 8021B	1	09103A94A	04/14/2009 10:30	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	2	09103A94A	04/14/2009 10:30	Katrina T Longenecker	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	090960012A	04/07/2009 12:14	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	090960012A	04/07/2009 02:00	Roman Kuropatkin	1

Lancaster Laboratories Sample No. WW 5638469

 Group No. 1138940
WA

 TB-1 Water Sample
Facility# 206196
815 NE College St. - Pullman, WA

Collected: 04/01/2009 17:00

Account Number: 11255

 Submitted: 04/03/2009 09:00
Reported: 04/16/2009 at 16:32
Discard: 05/17/2009

 Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	ug/l N.D.	ug/l 50	1
SW-846 8021B GC Volatiles					
05879	Benzene	71-43-2	ug/l N.D.	ug/l 0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09103A94A	04/13/2009 17:49	Katrina T Longenecker	1
05879	BTEX	SW-846 8021B	1	09103A94A	04/13/2009 17:49	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	09103A94A	04/13/2009 17:49	Katrina T Longenecker	1

Quality Control Summary

 Client Name: Chevron
 Reported: 04/16/09 at 04:32 PM

Group Number: 1138940

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 09096A54A	Sample number(s): 5638465-5638466							
Benzene	N.D.	0.5	ug/l	105	105	80-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	105	105	80-120	0	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	91	100	75-135	10	30
Toluene	N.D.	0.5	ug/l	110	110	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	108	110	80-120	2	30
Batch number: 09103A94A	Sample number(s): 5638467-5638469							
Benzene	N.D.	0.5	ug/l	105	110	80-120	5	30
Ethylbenzene	N.D.	0.5	ug/l	105	110	80-120	5	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Toluene	N.D.	0.5	ug/l	105	110	80-120	5	30
Total Xylenes	N.D.	1.5	ug/l	107	110	80-120	3	30
Batch number: 090960012A	Sample number(s): 5638465-5638468							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	81	79	61-106	3	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 09096A54A	Sample number(s): 5638465-5638466 UNSPK: P634481, P637544								
Benzene	110		70-152						
Ethylbenzene	115		75-133						
NWTPH-Gx water C7-C12	118		48-140						
Toluene	110		78-129						
Total Xylenes	115		67-155						
Batch number: 09103A94A	Sample number(s): 5638467-5638469 UNSPK: 5638467, P641240								
Benzene	105		70-152						
Ethylbenzene	110		75-133						
NWTPH-Gx water C7-C12	109		48-140						
Toluene	105		78-129						
Total Xylenes	110		67-155						

Surrogate Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5638465-69 SCR#: 221256

NWRTB-206196-0-OML

C# 1138940

Facility #: <u>20-6196</u> Site Address: <u>815 NE College St Pullman WA</u> Chevron PM: <u>Don Carrier</u> Lead Consultant: <u>SAIC</u> Consultant/Office: <u>Bethell, WA</u> Consultant Prj. Mgr.: <u>Don Wyll</u> Consultant Phone #: <u>425-482-3315</u> Fax #: <u>425-485-5566</u> Sampler: <u>A Lemback</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Analyses Requested Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits																																																																																																																																											
Matrix Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers: _____		<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <th style="width: 15%;">Sample Identification</th> <th style="width: 10%;">Date Collected</th> <th style="width: 10%;">Time Collected</th> <th style="width: 5%;">Grab</th> <th style="width: 5%;">Composite</th> <th style="width: 5%;">Soil</th> <th style="width: 5%;">Water</th> <th style="width: 5%;">Oil</th> <th style="width: 5%;">Air</th> <th style="width: 5%;">Total Number of Containers</th> <th style="width: 5%;">8260</th> <th style="width: 5%;">Naphth</th> <th style="width: 5%;">8260 full scan</th> <th style="width: 5%;">Oxygenates</th> <th style="width: 5%;">MWTPH G</th> <th style="width: 5%;">Extended Ring</th> <th style="width: 5%;">Silica Gel Cleanup</th> <th style="width: 5%;">Lead Total</th> <th style="width: 5%;">Diss.</th> <th style="width: 5%;">Method</th> <th style="width: 5%;">VPI/EPH</th> <th style="width: 5%;">MWTPH HClD</th> <th style="width: 5%;">quantification</th> </tr> <tr> <td><u>MW-18</u></td> <td><u>04/01/09</u></td> <td><u>1545</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>MW-20</u></td> <td></td> <td><u>1600</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>MW-12</u></td> <td></td> <td><u>1620</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>MW-19</u></td> <td></td> <td><u>1640</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>TB-1</u></td> <td></td> <td><u>1700</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>6</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	8260	Naphth	8260 full scan	Oxygenates	MWTPH G	Extended Ring	Silica Gel Cleanup	Lead Total	Diss.	Method	VPI/EPH	MWTPH HClD	quantification	<u>MW-18</u>	<u>04/01/09</u>	<u>1545</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<u>MW-20</u>		<u>1600</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<u>MW-12</u>		<u>1620</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<u>MW-19</u>		<u>1640</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<u>TB-1</u>		<u>1700</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
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Comments / Remarks Please email analytical results to <u>iwellsaj@saic.com</u> in add. from consultant PM <div style="text-align: center; font-size: 1.5em; font-weight: bold; margin-top: 20px;"> 4/1/09 </div>																																																																																																																																															
Turnaround Time Requested (TAT) (please circle) STD. TAT: 24 hour 72 hour 48 hour 24 hour 4 day 5 day										Relinquished by: <u>[Signature]</u> Date: <u>4/1/09</u> Time: <u>1730</u>					Received by: _____ Date: _____ Time: _____																																																																																																																																
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other: _____										Relinquished by: _____ Date: _____ Time: _____					Received by: _____ Date: _____ Time: _____																																																																																																																																
Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other: _____										Received by: <u>[Signature]</u> Date: <u>4/1/09</u> Time: <u>0900</u>					Temperature Upon Receipt: <u>009</u> °C Custody Seals Intact? <input checked="" type="checkbox"/> Yes No																																																																																																																																

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

August 11, 2009

SAMPLE GROUP

The sample group for this submittal is 1156068. Samples arrived at the laboratory on Monday, August 03, 2009. The PO# for this group is 0015039577 and the release number is CARRIER.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-12 Grab Water Sample	5740250
MW-18 Grab Water Sample	5740251
MW-19 Grab Water Sample	5740252
MW-20 Grab Water Sample	5740253
TB-1 Water Sample	5740254

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC SAIC
COPY TO
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COPY TO

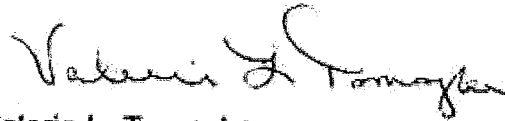
Attn: Mike Lange

Attn: Don Wyll

Attn: Alisa Wells

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories Sample No. WW 5740250

Group No. 1156068

MW-12 Grab Water Sample

WA

Facility# 206196

815 NE College St - Pullman, WA

Collected: 07/31/2009 14:05 by AL

Account Number: 11255

Submitted: 08/03/2009 09:25

Chevron

Reported: 08/11/2009 at 11:36

6001 Bollinger Canyon Rd L4310

Discard: 09/11/2009

San Ramon CA 94583

81512

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602	NWTPH-Gx GC Volatiles		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846 8021B	GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602	NWTPH-Dx GC Extractable TPH		ug/l	ug/l	
modified	w/Si Gel				
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

General Sample Comments

State of Washington Lab Certification No. C259
 The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 17.4-18.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09217A54A	08/05/2009 22:47	Marie D John	1
05879	BTEX	SW-846 8021B	1	09217A54A	08/05/2009 22:47	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	09217A54A	08/05/2009 22:47	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	092170032A	08/07/2009 10:55	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	092170032A	08/05/2009 15:00	Cody R Hanna	1

Lancaster Laboratories Sample No. WW 5740251

Group No. 1156068

MW-18 Grab Water Sample

WA

Facility# 206196

815 NE College St - Pullman, WA

Collected: 07/31/2009 13:40 by AL

Account Number: 11255

Submitted: 08/03/2009 09:25

Chevron

Reported: 08/11/2009 at 11:36

6001 Bollinger Canyon Rd L4310

Discard: 09/11/2009

San Ramon CA 94583

81518

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602	NWTPH-Gx GC Volatiles		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846	8021B GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602	NWTPH-Dx GC Extractable TPH		ug/l	ug/l	
modified	w/Si Gel				
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	31	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	72	1

General Sample Comments

State of Washington Lab Certification No. C259
 The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 17.4-18.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09217A54A	08/05/2009 22:00	Marie D John	1
05879	BTEX	SW-846 8021B	1	09217A54A	08/05/2009 22:00	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	09217A54A	08/05/2009 22:00	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	092170032A	08/07/2009 11:15	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	092170032A	08/05/2009 15:00	Cody R Hanna	1

Lancaster Laboratories Sample No. WW 5740252

Group No. 1156068

MW-19 Grab Water Sample

WA

Facility# 206196

815 NE College St - Pullman, WA

Collected: 07/31/2009 14:20 by AL

Account Number: 11255

Submitted: 08/03/2009 09:25

Chevron

Reported: 08/11/2009 at 11:36

6001 Bollinger Canyon Rd L4310

Discard: 09/11/2009

San Ramon CA 94583

81519

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602	NWTPH-Gx GC Volatiles		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
SW-846	8021B GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
ECY 97-602	NWTPH-Dx GC Extractable TPH		ug/l	ug/l	
modified	w/Si Gel				
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1

General Sample Comments

State of Washington Lab Certification No. C259
 The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 17.4-18.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09217A54A	08/05/2009 22:24	Marie D John	1
05879	BTEX	SW-846 8021B	1	09217A54A	08/05/2009 22:24	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	09217A54A	08/05/2009 22:24	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	092170032A	08/07/2009 12:16	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	092170032A	08/05/2009 15:00	Cody R Hanna	1

Lancaster Laboratories Sample No. WW 5740253

 Group No. 1156068
WA

MW-20 Grab Water Sample

Facility# 206196

815 NE College St - Pullman, WA

Collected: 07/31/2009 13:55 by AL

Account Number: 11255

Submitted: 08/03/2009 09:25

Chevron

Reported: 08/11/2009 at 11:36

6001 Bollinger Canyon Rd L4310

Discard: 09/11/2009

San Ramon CA 94583

81520

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602	NWTPH-Gx GC Volatiles		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
The vials used for the GC volatile analysis were submitted with headspace.					
SW-846	8021B GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
The vials used for the GC volatile analysis were submitted with headspace.					
ECY 97-602	NWTPH-Dx GC Extractable TPH		ug/l	ug/l	
modified	w/Si Gel				
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

General Sample Comments

State of Washington Lab Certification No. C259
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 17.4-18.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09217A54A	08/05/2009 23:11	Marie D John	1
05879	BTEX	SW-846 8021B	1	09217A54A	08/05/2009 23:11	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	09217A54A	08/05/2009 23:11	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	092170032A	08/07/2009 11:35	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	092170032A	08/05/2009 15:00	Cody R Hanna	1

Lancaster Laboratories Sample No. WW 5740254

Group No. 1156068
WA

TB-1 Water Sample
Facility# 206196
815 NE College St - Pullman, WA

Collected: 07/31/2009 14:30

Account Number: 11255

Submitted: 08/03/2009 09:25
Reported: 08/11/2009 at 11:36
Discard: 09/11/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

815QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
ECY 97-602 NWTPH-Gx GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	ug/l N.D.	ug/l 50	1
SW-846 8021B GC Volatiles					
05879	Benzene	71-43-2	ug/l N.D.	ug/l 0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C259
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 17.4-18.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09217A54A	08/05/2009 21:36	Marie D John	1
05879	BTEX	SW-846 8021B	1	09217A54A	08/05/2009 21:36	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	09217A54A	08/05/2009 21:36	Marie D John	1

Quality Control Summary

Client Name: Chevron
Reported: 08/11/09 at 11:36 AM

Group Number: 1156068

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 09217A54A	Sample number(s): 5740250-5740254							
Benzene	N.D.	0.5	ug/l	110	110	80-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	105	100	80-120	5	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Toluene	N.D.	0.5	ug/l	105	105	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	103	103	80-120	0	30
Batch number: 092170032A	Sample number(s): 5740250-5740253							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	75	70	61-106	7	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 09217A54A	Sample number(s): 5740250-5740254 UNSPK: 5740251, 5740252								
Benzene	120		70-152						
Ethylbenzene	110		75-133						
NWTPH-Gx water C7-C12	109	-	48-140						
Toluene	115		78-129						
Total Xylenes	113		67-155						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX

Batch number: 09217A54A

	Trifluorotoluene-P	Trifluorotoluene-F
5740250	114	105
5740251	105	105
5740252	115	115
5740253	114	104
5740254	111	105
Blank	113	100
LCS	116	117

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 08/11/09 at 11:36 AM

Group Number: 1156068

Surrogate Quality Control

LCSD	115	118
MS	114	117

Limits:	69-129	63-135
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Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 092170032A
Orthoterphenyl

5740250	110
5740251	90
5740252	102
5740253	111
Blank	111
LCS	117
LCSD	114

Limits:	50-150
---------	--------

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 1655 Sample #: 5740250-54 SCR#: 220819

NWRTB-206196-0-OML

Group# 1156068

Facility #: <u>20-6196</u> Site Address: <u>815 NE College St, Pullman, WA</u> Chevron PM: <u>Don Carrier</u> Lead Consultant: <u>SAIL</u> Consultant/Office: <u>Bothell, WA</u> Consultant Prj. Mgr.: <u>DON WYLL</u> Consultant Phone #: <u>425-482-3315</u> Fax #: <u>425-485-5566</u> Sampler: <u>A Lembrick</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			Matrix Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>		Analyses Requested <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <th colspan="10">Preservation Codes</th> </tr> <tr> <td><input type="checkbox"/> H</td><td><input type="checkbox"/> I</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <tr> <td colspan="5">8260 full scan</td> <td colspan="5">Oxygenates</td> </tr> <tr> <td colspan="5">8260 + MTBE 8021</td> <td colspan="5">TPH G</td> </tr> <tr> <td colspan="5">Extended Ring</td> <td colspan="5">TPH D</td> </tr> <tr> <td colspan="5">Silica Gel Cleanup</td> <td colspan="5">Lead Total</td> </tr> <tr> <td colspan="5">Diss.</td> <td colspan="5">Method</td> </tr> <tr> <td colspan="5">VP/IEPH</td> <td colspan="5">NWTPH HClID</td> </tr> <tr> <td colspan="5">quantification</td> <td colspan="5"></td> </tr> </table>										Preservation Codes										<input type="checkbox"/> H	<input type="checkbox"/> I	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8260 full scan					Oxygenates					8260 + MTBE 8021					TPH G					Extended Ring					TPH D					Silica Gel Cleanup					Lead Total					Diss.					Method					VP/IEPH					NWTPH HClID					quantification										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits	
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Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	Comments / Remarks Please email analytical results to wellsj@saic.com in addition to Consultant Project manager																																																																																															
<u>MW-12</u>	<u>MW-12</u>	<u>07/31/09</u>	<u>1405</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>6</u>																																																																																																
<u>MW-18</u>	<u>MW-18</u>		<u>1340</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>6</u>																																																																																																
<u>MW-19</u>	<u>MW-19</u>		<u>1420</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>6</u>																																																																																																
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	<u>TB-1</u>		<u>1430</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>2</u>																																																																																																
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Turnaround Time Requested (TAT) (please circle) (STD. TAT) 72 hour 48 hour 24 hour 4 day 5 day						Relinquished by: <u>[Signature]</u> Date: <u>7/31/09</u> Time: <u>1550</u>				Received by: _____ Date: _____ Time: _____																																																																																																
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other: _____						Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: <u>8/3/09</u> Time: <u>935</u>																																																																																																
Relinquished by Commercial Carrier: UPS FedEx Other: _____						Temperature Upon Receipt <u>17.4/6.0</u> °C				Received by: <u>[Signature]</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes No																																																																																																

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

November 05, 2009

Project: 206196

Samples arrived at the laboratory on Saturday, October 24, 2009. The PO# for this group is 0015039577 and the release number is CARRIER. The group number for this submittal is 1167952.

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SB-2-4 Grab Soil Sample	5816385
SB-2-7.5 Grab Soil Sample	5816386
SB-7-4 Grab Soil Sample	5816387
SB-8-4 Grab Soil Sample	5816388
SB-9-6 Grab Soil Sample	5816389
SB-13-6 Grab Soil Sample	5816390
TB-1-102309 NaHSO4 Sample	5816391

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO
ELECTRONIC SAIC
COPY TO

Attn: Don Wyll

Attn: Mike Lange

Attn: Ruth Otteman

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Robin C. Runkle
Senior Specialist

Sample Description: SB-2-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816385
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/22/2009 11:50 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.031	47.74
07360	Ethylbenzene	100-41-4	1.3	0.061	47.74
07360	Toluene	108-88-3	N.D.	0.061	47.74
07360	Xylene (Total)	1330-20-7	0.12	0.061	47.74
The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.					
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	1,200	130	2535.42
GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	280	7.7	2
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	26	2
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	22.1	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093031AA	10/30/2009 19:32	Nicholas R Rossi	47.74
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200929919604	10/22/2009 11:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200929919604	10/22/2009 11:50	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035A	1	200929919604	10/22/2009 11:50	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09294A31C	10/30/2009 13:32	Marie D John	2535.42
06647	GC Field Preserved MeOH	SW-846 5035A	1	200929919606	10/22/2009 11:50	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093030013A	11/03/2009 10:18	Diane V Do	2

Sample Description: SB-2-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816385
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/22/2009 11:50 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP24

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093030013A	10/31/2009 07:10	Nicole L Maljovec	1
00111	Moisture	SM20 2540 G	1	09301820006A	10/28/2009 18:27	Scott W Freisher	1

Sample Description: SB-2-7.5 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816386
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/22/2009 12:00 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP27

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.038	54.39
07360	Ethylbenzene	100-41-4	1.2	0.076	54.39
07360	Toluene	108-88-3	N.D.	0.076	54.39
07360	Xylene (Total)	1330-20-7	0.32	0.076	54.39

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	1,200	59	1047.25

GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	140	4.2	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	14	1

Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	28.4	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093041AA	10/31/2009 13:48	Emily R Styer	54.39
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200929919604	10/22/2009 12:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200929919604	10/22/2009 12:00	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035A	1	200929919604	10/22/2009 12:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09294A31C	10/31/2009 00:54	Marie D John	1047.25
06647	GC Field Preserved MeOH	SW-846 5035A	1	200929919606	10/22/2009 12:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093030013A	11/03/2009 08:12	Diane V Do	1

Sample Description: SB-2-7.5 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816386
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/22/2009 12:00 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30
 Reported: 11/05/2009 at 15:23
 Discard: 12/06/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

CSP27

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093030013A	10/31/2009 07:10	Nicole L Maljovec	1
00111	Moisture	SM20 2540 G	1	09301820006A	10/28/2009 18:27	Scott W Freisher	1

Sample Description: SB-7-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816387
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/22/2009 17:00 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	2.2	0.16	227.96
07360	Ethylbenzene	100-41-4	110	3.2	2279.59
07360	Toluene	108-88-3	1.5	0.32	227.96
07360	Xylene (Total)	1330-20-7	79	0.32	227.96
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	3,100	130	2279.65
GC Extractable TPH					
		ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel modified					
02214	DRO C12-C24 w/Si Gel	n.a.	590	21	5
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	5
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	28.9	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093041AA	10/31/2009 14:33	Emily R Styer	227.96
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093041AA	10/31/2009 14:56	Emily R Styer	2279.59
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200929919604	10/22/2009 17:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200929919604	10/22/2009 17:00	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035A	1	200929919604	10/22/2009 17:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09294A31C	10/31/2009 01:30	Marie D John	2279.65
06647	GC Field Preserved MeOH	SW-846 5035A	1	200929919606	10/22/2009 17:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093030013A	11/03/2009 11:01	Diane V Do	5
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093030013A	10/31/2009 07:10	Nicole L Maljovec	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Sample Description: SB-7-4 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5816387
LLI Group # 1167952
WA

Project Name: 206196

Collected: 10/22/2009 17:00 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09301820006B	10/28/2009 18:27	Scott W Freisher	1

Sample Description: SB-8-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816388
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/23/2009 09:25 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30
 Reported: 11/05/2009 at 15:23
 Discard: 12/06/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

CSP08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
			mg/kg	mg/kg	
07360	Benzene	71-43-2	48	0.92	1213.26
07360	Ethylbenzene	100-41-4	380	1.8	1213.26
07360	Toluene	108-88-3	13	1.8	1213.26
07360	Xylene (Total)	1330-20-7	1,100	1.8	1213.26
GC/MS Semivolatiles SW-846 8270C SIM					
			mg/kg	mg/kg	
02858	Benzo(a)anthracene	56-55-3	0.0074	0.0010	1
02858	Benzo(a)pyrene	50-32-8	0.0036	0.0010	1
02858	Benzo(b)fluoranthene	205-99-2	0.0065	0.0010	1
02858	Benzo(k)fluoranthene	207-08-9	0.0025	0.0010	1
02858	Chrysene	218-01-9	0.0084	0.00051	1
02858	Dibenz(a,h)anthracene	53-70-3	0.0011	0.0010	1
02858	Indeno(1,2,3-cd)pyrene	193-39-5	0.0028	0.0010	1
02858	1-Methylnaphthalene	90-12-0	2.9	0.10	100
02858	2-Methylnaphthalene	91-57-6	6.5	0.10	100
02858	Naphthalene	91-20-3	6.7	0.10	100

The GC/MS semivolatile surrogate recoveries were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and surrogate recoveries were again outside of QC limits, indicating a matrix effect.

GC Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	6,600	800
				13248.72

GC Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg
w/Si Gel modified			

02214	DRO C12-C24 w/Si Gel	n.a.	110	4.6	1
02214	HRO C24-C40 w/Si Gel	n.a.	51	15	1

Wet Chemistry	SM20 2540 G	%	%	
00111	Moisture	n.a.	34.1	0.50
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.				

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-8-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816388
LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/23/2009 09:25 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093041AA	10/31/2009	15:19	Emily R Styer	1213.26
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200929919604	10/23/2009	09:25	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200929919604	10/23/2009	09:25	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035A	1	200929919604	10/23/2009	09:25	Client Supplied	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09303SLD026	11/03/2009	21:59	William T Parker	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09303SLD026	11/04/2009	21:22	William T Parker	100
00381	BNA Soil Sonication	SW-846 3550B	1	09303SLD026	10/30/2009	14:15	Doreen K Robles	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09294A31C	10/30/2009	15:21	Marie D John	13248.7
06647	GC Field Preserved MeOH	SW-846 5035A	1	200929919606	10/23/2009	09:25	Client Supplied	2
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093030013A	11/03/2009	08:54	Diane V Do	n.a.
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093030013A	10/31/2009	07:10	Nicole L Maljovec	1
00111	Moisture	SM20 2540 G	1	09301820006B	10/28/2009	18:27	Scott W Freisher	1

Sample Description: SB-9-6 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816389
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/23/2009 10:20 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	11	0.084	121.8
07360	Ethylbenzene	100-41-4	26	0.17	121.8
07360	Toluene	108-88-3	27	0.17	121.8
07360	Xylene (Total)	1330-20-7	110	0.17	121.8
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	2,100	130	2300.09
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	430	41	10
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	140	10
Wet Chemistry					
00111	Moisture	n.a.	27.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093041AA	10/31/2009 16:06	Emily R Styer	121.8
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200929919604	10/23/2009 10:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200929919604	10/23/2009 10:20	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035A	1	200929919604	10/23/2009 10:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09294A31C	10/31/2009 02:07	Marie D John	2300.09
06647	GC Field Preserved MeOH	SW-846 5035A	1	200929919606	10/23/2009 10:20	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093030013A	11/03/2009 09:36	Diane V Do	10
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093030013A	10/31/2009 07:10	Nicole L Maljovec	1
00111	Moisture	SM20 2540 G	1	09301820006B	10/28/2009 18:27	Scott W Freisher	1

Sample Description: SB-13-6 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5816390
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/23/2009 13:40 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.89	0.048	62.28
07360	Ethylbenzene	100-41-4	0.18	0.097	62.28
07360	Toluene	108-88-3	0.22	0.097	62.28
07360	Xylene (Total)	1330-20-7	0.93	0.097	62.28

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	450	82	1319.19

GC Extractable TPH					
		ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel					
		modified			
02214	DRO C12-C24 w/Si Gel	n.a.	430	23	5
02214	HRO C24-C40 w/Si Gel	n.a.	280	78	5

Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	35.6	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093041AA	10/31/2009 16:52	Emily R Styer	62.28
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200929919604	10/23/2009 13:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200929919604	10/23/2009 13:40	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035A	1	200929919604	10/23/2009 13:40	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09294A31C	10/30/2009 16:35	Marie D John	1319.19
06647	GC Field Preserved MeOH	SW-846 5035A	1	200929919606	10/23/2009 13:40	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093030013A	11/03/2009 09:15	Diane V Do	5

Sample Description: SB-13-6 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5816390
LLI Group # 1167952
WA

Project Name: 206196

Collected: 10/23/2009 13:40 by AL

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSP13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093030013A	10/31/2009 07:10	Nicole L Maljovec	1
00111	Moisture	SM20 2540 G	1	09301820006B	10/28/2009 18:27	Scott W Freisher	1

Sample Description: TB-1-102309 NaHSO4 Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # G5 5816391
 LLI Group # 1167952
 WA

Project Name: 206196

Collected: 10/23/2009

Account Number: 11255

Submitted: 10/24/2009 10:30

Chevron

Reported: 11/05/2009 at 15:23

6001 Bollinger Canyon Rd L4310

Discard: 12/06/2009

San Ramon CA 94583

CSPTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.0005	1
07360	Ethylbenzene	100-41-4	N.D.	0.001	1
07360	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
07360	Toluene	108-88-3	N.D.	0.001	1
07360	Xylene (Total)	1330-20-7	N.D.	0.001	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093062AA	11/02/2009 15:14	Chelsea B Eastep	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	200929919604	10/23/2009 00:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	200929919604	10/23/2009 00:00	Client Supplied	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/05/09 at 03:23 PM

Group Number: 1167952

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Q093041AA	Sample number(s): 5816386-5816390							
Benzene	N.D.	0.025	mg/kg	95	100	80-120	4	30
Ethylbenzene	N.D.	0.050	mg/kg	94	97	80-120	4	30
Toluene	N.D.	0.050	mg/kg	95	99	80-120	4	30
Xylene (Total)	N.D.	0.050	mg/kg	96	100	80-120	4	30
Batch number: R093031AA	Sample number(s): 5816385							
Benzene	N.D.	0.025	mg/kg	93	93	80-120	1	30
Ethylbenzene	N.D.	0.050	mg/kg	85	86	80-120	1	30
Toluene	N.D.	0.050	mg/kg	86	88	80-120	2	30
Xylene (Total)	N.D.	0.050	mg/kg	86	88	80-120	2	30
Batch number: X093062AA	Sample number(s): 5816391							
Benzene	N.D.	0.0005	mg/kg	102	104	80-120	3	30
Ethylbenzene	N.D.	0.001	mg/kg	101	102	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	91	99	74-121	8	30
Toluene	N.D.	0.001	mg/kg	102	104	80-120	2	30
Xylene (Total)	N.D.	0.001	mg/kg	101	102	80-120	1	30
Batch number: 09303SLD026	Sample number(s): 5816388							
Benzo (a) anthracene	N.D.	0.00067	mg/kg	96		74-112		
Benzo (a) pyrene	N.D.	0.00067	mg/kg	90		70-109		
Benzo (b) fluoranthene	N.D.	0.00067	mg/kg	99		50-162		
Benzo (k) fluoranthene	N.D.	0.00067	mg/kg	105		47-158		
Chrysene	N.D.	0.00033	mg/kg	98		79-111		
Dibenz (a, h) anthracene	N.D.	0.00067	mg/kg	91		49-140		
Indeno (1, 2, 3-cd) pyrene	N.D.	0.00067	mg/kg	92		47-140		
1-Methylnaphthalene	N.D.	0.00067	mg/kg	88		72-114		
2-Methylnaphthalene	N.D.	0.00067	mg/kg	87		62-115		
Naphthalene	N.D.	0.00067	mg/kg	84		67-105		
Batch number: 09294A31C	Sample number(s): 5816385-5816390							
TPH by NWTPH-Gx soils	N.D.	1.0	mg/kg	97	90	67-119	7	30
Batch number: 093030013A	Sample number(s): 5816385-5816390							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	80		60-120		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 09301820006A	Sample number(s): 5816385-5816386							
Moisture				100		99-101		
Batch number: 09301820006B	Sample number(s): 5816387-5816390							
Moisture				100		99-101		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/05/09 at 03:23 PM

Group Number: 1167952

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: X093062AA	Sample number(s): 5816391 UNSPK: P816997								
Benzene	111		55-143						
Ethylbenzene	108		44-141						
Methyl Tertiary Butyl Ether	96		55-129						
Toluene	111		50-146						
Xylene (Total)	107		44-136						
Batch number: 09303SLD026	Sample number(s): 5816388 UNSPK: 5816388								
Benzo(a)anthracene	89	85	39-144	4	30				
Benzo(a)pyrene	87	87	34-156	1	30				
Benzo(b)fluoranthene	86	102	43-155	15	30				
Benzo(k)fluoranthene	94	82	49-145	13	30				
Chrysene	88	85	29-156	3	30				
Dibenz(a,h)anthracene	86	79	10-157	8	30				
Indeno(1,2,3-cd)pyrene	82	76	10-164	7	30				
1-Methylnaphthalene	4960	8472	72-123	28	30				
	(2)	(2)							
2-Methylnaphthalene	6357	22989	49-134	60*	30				
	(2)	(2)							
Naphthalene	-877	10985	27-145	65*	30				
	(2)	(2)							
Batch number: 093030013A	Sample number(s): 5816385-5816390 BKG: 5816385								
DRO C12-C24 w/Si Gel						220	310	34*	20
HRO C24-C40 w/Si Gel						N.D.	N.D.	0 (1)	20
Batch number: 09301820006A	Sample number(s): 5816385-5816386 BKG: 5816385								
Moisture						22.1	21.6	2	15
Batch number: 09301820006B	Sample number(s): 5816387-5816390 BKG: 5816389								
Moisture						27.3	26.3	4	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX+MTBE by 8260B

Batch number: Q093041AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5816386	82	85	91	91
5816387	77	83	115	98
5816388	70*	73	112	95
5816389	71	78	76	77
5816390	76	80	74	67*
Blank	93	99	93	94
LCS	86	91	84	84
LCSD	90	91	87	87

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 11/05/09 at 03:23 PM

Group Number: 1167952

Surrogate Quality Control

Limits:	71-114	70-109	70-123	70-111
Analysis Name:	BTEX+MTBE by 8260B			
Batch number:	R093031AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5816385	72	77	104	98
Blank	98	103	90	87
LCS	91	92	82	82
LCSD	87	92	80	80

Limits:	71-114	70-109	70-123	70-111
Analysis Name:	BTEX+MTBE by 8260B			
Batch number:	X093062AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5816391	92	89	85	83
Blank	90	88	83	81
LCS	86	86	91	84
LCSD	88	86	91	84
MS	88	86	91	81

Limits:	71-114	70-109	70-123	70-111
Analysis Name:	PAHs in soils by SIM			
Batch number:	09303SLD026			
	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	
5816388	173*	97	81	
Blank	107	95	96	
LCS	107	96	99	
MS	164*	121	82	
MSD	363*	94	79	

Limits:	53-152	63-129	51-141
Analysis Name:	NWTPH-Gx soil C7-C12		
Batch number:	09294A31C		
	Trifluorotoluene-F		
5816385	12*		
5816386	21*		
5816387	26*		
5816388	9*		
5816389	12*		
5816390	12*		
Blank	81		
LCS	82		
LCSD	77		

Limits:	61-122
Analysis Name:	NWTPH-Dx soil w/Si Gel
Batch number:	093030013A
	Orthoterphenyl

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/05/09 at 03:23 PM

Group Number: 1167952

Surrogate Quality Control

5816385	33*
5816386	99
5816387	53
5816388	112
5816389	33*
5816390	21*
Blank	102
DUP	49*
LCS	116

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5816385-91 SCR#: 221039
82465

WBS# NWRTB-0206196-LAB

G# 1167952

Facility #: <u>20-6196</u> Site Address: <u>SIS NE College Street Pullman WA</u> Chevron PM: <u>D. Carrier</u> Lead Consultant: <u>SALC</u> Consultant/Office: <u>Bothell, WA</u> Consultant Prj. Mgr.: <u>Don Wynn</u> Consultant Phone #: <u>425-482-3315</u> Fax #: <u>425-485-5516</u> Sampler: <u>A. Lenback</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Composite		Analyses Requested Preservation Codes BTEX + WSE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan _____ Oxygenates _____ TPH G <input checked="" type="checkbox"/> TPH D <input checked="" type="checkbox"/> Extended Ring <input checked="" type="checkbox"/> Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ VP/HEP _____ NWT/PH H/Cl/D <input type="checkbox"/> quantification _____ PAHs & Naphthalene less 5:1:4 <u>8270</u> Moisture _____										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy s on highest hit <input type="checkbox"/> Run _____ oxy s on all hits										
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + WSE	8021	8260	Naphth	Oxygenates	TPH G	TPH D	Lead Total	Diss.	Method	VP/HEP	NWT/PH H/Cl/D	quantification	PAHs & Naphthalene less 5:1:4	Moisture	Comments / Remarks
<u>SB-2-4</u>		<u>10-22-09</u>	<u>1150</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	please email analytical results to R. Otteman at otteman@salc.com in addition to SALC project manager
<u>SB-2-7.5</u>		<u>10-22-09</u>	<u>1200</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>SB-7-4</u>		<u>10-22-09</u>	<u>1700</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>SB-8-4</u>		<u>10-23-09</u>	<u>0925</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>7</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>SB-9-6</u>		<u>10-23-09</u>	<u>1020</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>SB-13-6</u>		<u>10-23-09</u>	<u>1340</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>6</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>TB-1-102309</u>		<u>10-23-09</u>	<u>---</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>2</u>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Turnaround Time Requested (TAT) (please circle) STD. TAT <u>72 hour</u> 48 hour 24 hour 4 day 5 day				Relinquished by: <u>[Signature]</u> Date: <u>10-19-09</u> Time: <u>1332</u>				Received by: <u>[Signature]</u> Date: <u>10-22-09</u> Time: <u>1000</u>				Relinquished by: <u>[Signature]</u> Date: <u>10-23-09</u> Time: <u>1500</u>				Received by: _____ Date: _____ Time: _____										
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other.				Relinquished by Commercial Carrier: _____ Received by: _____ Date: <u>10/23/09</u> Time: <u>1020</u>				UPS <u>fedEx</u> Other _____ Temperature Upon Receipt: <u>3.4°C</u>				Received by: <u>[Signature]</u> Date: _____ Time: _____ Custody Seals Intact? <u>Yes</u> No														

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

November 17, 2009

Project: 206196

Samples arrived at the laboratory on Friday, October 30, 2009. The PO# for this group is 0015039577 and the release number is CARRIER. The group number for this submittal is 1168842.

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SB-1-8 Grab Soil Sample	5821913
SB-1-10 Grab Soil Sample	5821914
SB-2-9 Grab Soil Sample	5821915
SB-7-12 Grab Soil Sample	5821916
SB-9-13 Grab Soil Sample	5821917
SB-9-15 Grab Soil Sample	5821918
SB-3-4 Grab Soil Sample	5821919
SB-3-9 Grab Soil Sample	5821920
SB-3-14 Grab Soil Sample	5821921
SB-13-8 Grab Soil Sample	5821922
SB-11-4 Grab Soil Sample	5821923
SB-11-11 Grab Soil Sample	5821924
SB-4-8 Grab Soil Sample	5821925
SB-5-8 Grab Soil Sample	5821926
SB-5-4.5 Grab Soil Sample	5821927
SB-6-7 Grab Soil Sample	5821928
SB-5-11 Grab Soil Sample	5821929
MW-21-6 Grab Soil Sample	5821930
SB-6-15 Grab Soil Sample	5821931
SB-8-14 Grab Soil Sample	5821932
MW-22-6 Grab Soil Sample	5821933
SB-4-10 Grab Soil Sample	5821934
SB-4-14 Grab Soil Sample	5821935

SB-13-13 Grab Soil Sample	5821936
MW-23-6 Grab Soil Sample	5821937
SB-15-2 Grab Soil Sample	5821938
SB-15-8 Grab Soil Sample	5821939
SB-15-12 Grab Soil Sample	5821940
SB-14-6 Grab Soil Sample	5821941
SB-14-11 Grab Soil Sample	5821942
SB-14-13 Grab Soil Sample	5821943
MW-21-13 Grab Soil Sample	5821944
SB-10-4 Grab Soil Sample	5821945
MW-22-8 Grab Soil Sample	5821946
MW-22-13 Grab Soil Sample	5821947
MW-23-13 Grab Soil Sample	5821948
SB-16-8 Grab Soil Sample	5821949
SB-16-9 Grab Soil Sample	5821950
SB-16-12 Grab Soil Sample	5821951
SB-12-9 Grab Soil Sample	5821952
SB-12-14 Grab Soil Sample	5821953
SB-12-4 Grab Soil Sample	5821954
SB-18-2 Grab Soil Sample	5821955
SB-17-4 Grab Soil Sample	5821956
SB-18-9 Grab Soil Sample	5821957
SB-18-13 Grab Soil Sample	5821958
SB-17-12 Grab Soil Sample	5821959

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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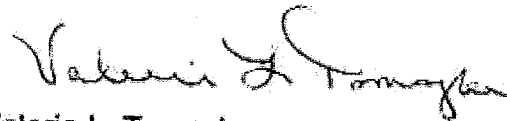
Attn: Don Wyll

Attn: Mike Lange

Attn: Ruth Otteman

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Sample Description: SB-1-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821913
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 11:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-1-8

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.035	52.14
07360	Ethylbenzene	100-41-4	N.D.	0.070	52.14
07360	Toluene	108-88-3	N.D.	0.070	52.14
07360	Xylene (Total)	1330-20-7	N.D.	0.070	52.14

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

GC Volatiles	ECY 97-602 NWTTPH-Gx		mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	730	56	1050.21

GC Extractable TPH w/Si Gel	ECY 97-602 NWTTPH-Dx modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	160	4.0	1
02214	HRO C24-C40 w/Si Gel	n.a.	58	13	1

Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	25.4	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 15:20	Kerri E Koch	52.14
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 11:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 11:10	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 11:10	Client Supplied	1
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	09308A31A	11/05/2009 04:19	Marie D John	1050.21
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 11:10	Client Supplied	n.a.
02214	NWTTPH-Dx soil w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	093060027A	11/05/2009 04:53	Diane V Do	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Sample Description: SB-1-8 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821913
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/27/2009 11:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

P-1-8

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009 12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-1-10 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821914
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 11:20 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-110

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.032	49.68
07360	Ethylbenzene	100-41-4	N.D.	0.063	49.68
07360	Toluene	108-88-3	N.D.	0.063	49.68
07360	Xylene (Total)	1330-20-7	N.D.	0.063	49.68

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	310	24	476.11

GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	190	3.8	1
02214	HRO C24-C40 w/Si Gel	n.a.	210	13	1

Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	21.5	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 15:43	Kerri E Koch	49.68
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 11:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 11:20	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 11:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/05/2009 04:55	Marie D John	476.11
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 11:20	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009 05:55	Diane V Do	1

Sample Description: SB-1-10 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821914
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 11:20 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-110

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009 12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-2-9 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821915
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 12:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-2-9

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.034	51.05
07360	Ethylbenzene	100-41-4	N.D.	0.067	51.05
07360	Toluene	108-88-3	N.D.	0.067	51.05
07360	Xylene (Total)	1330-20-7	N.D.	0.067	51.05
The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.					
GC Volatiles					
	ECY 97-602 NWTPH-Gx		mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	710	53	1010.11
GC Extractable TPH w/Si Gel					
	ECY 97-602 NWTPH-Dx modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	120	3.9	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
Wet Chemistry					
	SM20 2540 G		%	%	
00111	Moisture	n.a.	24.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 16:05	Kerri E Koch	51.05
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 12:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 12:00	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 12:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/05/2009 05:32	Marie D John	1010.11
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 12:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009 06:15	Diane V Do	1

Sample Description: SB-2-9 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821915
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 12:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Discard: 12/18/2009

P-2-9

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009 12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-7-12 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821916
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 12:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

P-712

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		mg/kg	mg/kg	
07360	Benzene	71-43-2	0.012	0.0005	0.86
07360	Ethylbenzene	100-41-4	0.33	0.064	50.72
07360	Toluene	108-88-3	0.011	0.001	0.86
07360	Xylene (Total)	1330-20-7	0.11	0.001	0.86
GC Volatiles					
	ECY 97-602 NWTPH-Gx		mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	7.8	1.1	20.97
GC Extractable TPH w/Si Gel					
	ECY 97-602 NWTPH-Dx modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.8	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
Wet Chemistry					
	SM20 2540 G		%	%	
00111	Moisture	n.a.	20.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093102AA	11/07/2009	00:05	Chelsea B Eastep	0.86
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093131AA	11/09/2009	12:07	Kerri E Koch	50.72
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009	12:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009	12:30	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009	12:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31B	11/05/2009	10:34	Carrie E Miller	20.97
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009	12:30	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009	06:36	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009	12:00	Olivia I Santiago	1

Sample Description: SB-7-12 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821916
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/27/2009 12:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-712

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-9-13 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821917
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 13:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-913

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	2.0	0.034	52.31
07360	Ethylbenzene	100-41-4	15	0.067	52.31
07360	Toluene	108-88-3	0.50	0.067	52.31
07360	Xylene (Total)	1330-20-7	4.9	0.067	52.31
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	510	54	1047.51
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	6.7	3.9	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
Wet Chemistry					
00111	Moisture	n.a.	22.5	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 16:28	Kerri E Koch	52.31
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 13:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 13:10	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 13:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/04/2009 16:36	Marie D John	1047.51
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 13:10	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009 06:56	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009 12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-9-15 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821918
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 13:20 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

P-915

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		mg/kg	mg/kg	
07360	Benzene	71-43-2	0.018	0.0005	0.81
07360	Ethylbenzene	100-41-4	0.22	0.0009	0.81
07360	Toluene	108-88-3	0.014	0.0009	0.81
07360	Xylene (Total)	1330-20-7	0.15	0.0009	0.81
GC Volatiles	ECY 97-602 NWTPH-Gx		mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	17	2.2	47.52
GC Extractable TPH w/Si Gel	ECY 97-602 NWTPH-Dx modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	12.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093102AA	11/07/2009 00:51	Chelsea B Eastep	0.81
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 13:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 13:20	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 13:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/04/2009 17:12	Marie D John	47.52
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 13:20	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009 07:17	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009 12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-3-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821919
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 14:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

P-3-4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.34	542.36
07360	Ethylbenzene	100-41-4	11	0.68	542.36
07360	Toluene	108-88-3	N.D.	0.68	542.36
07360	Xylene (Total)	1330-20-7	2.6	0.68	542.36
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	3,500	230	4663.57
GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	5,000	190	50
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	630	50
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	20.6	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009	17:13	Kerri E Koch	542.36
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009	14:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009	14:30	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009	14:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/04/2009	17:48	Marie D John	4663.57
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009	14:30	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009	10:22	Diane V Do	50
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009	12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009	20:07	Scott W Freisher	1

Sample Description: SB-3-9 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821920
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 14:55 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

P-3-9

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	1.9	0.23	359.43
07360	Ethylbenzene	100-41-4	86	0.46	359.43
07360	Toluene	108-88-3	1.9	0.46	359.43
07360	Xylene (Total)	1330-20-7	420	2.3	1797.14

An unknown volume of methanol leaked from the methanol preserved vial prior to its return to the laboratory. As a result, the weight of the sample was biased low. An additional 5 mL of methanol was added to the sample after it was weighed. The dilution factor and all sample results are biased high.

GC/MS	Semivolatiles	SW-846 8270C SIM	mg/kg	mg/kg	
02858	Benzo(a)anthracene	56-55-3	0.0018	0.00086	1
02858	Benzo(a)pyrene	50-32-8	0.0011	0.00086	1
02858	Benzo(b)fluoranthene	205-99-2	0.0021	0.00086	1
02858	Benzo(k)fluoranthene	207-08-9	N.D.	0.00086	1
02858	Chrysene	218-01-9	0.0027	0.00043	1
02858	Dibenz(a,h)anthracene	53-70-3	N.D.	0.00086	1
02858	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.00086	1
02858	1-Methylnaphthalene	90-12-0	0.85	0.0086	10
02858	2-Methylnaphthalene	91-57-6	1.7	0.0086	10
02858	Naphthalene	91-20-3	1.3	0.0086	10

GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	3,300	530	10196.91

GC	Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
	w/Si Gel	modified			
02214	DRO C12-C24 w/Si Gel	n.a.	380	7.8	2
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	26	2

Wet Chemistry	SM20 2540 G	%	%		
00111	Moisture	n.a.	22.7	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SB-3-9 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821920
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 14:55 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

P-3-9

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093111AA	11/07/2009	06:30	Stephanie A Selis	1797.14
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093131AA	11/09/2009	12:54	Kerri E Koch	359.43
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009	14:55	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009	14:55	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/27/2009	14:55	Client Supplied	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/06/2009	20:26	Timothy J Trees	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/09/2009	08:11	Timothy J Trees	10
00381	BNA Soil Sonication	SW-846 3550B	1	09307SLE026	11/03/2009	23:30	Patricia L Foreman	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/04/2009	18:25	Marie D John	10196.9
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009	14:55	Client Supplied	1
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009	10:42	Diane V Do	n.a.
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009	12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009	20:07	Scott W Freisher	1

Sample Description: SB-3-14 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821921
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 14:50 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

P-314

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.01	0.0006	0.85
07360	Ethylbenzene	100-41-4	0.003	0.001	0.85
07360	Toluene	108-88-3	0.002	0.001	0.85
07360	Xylene (Total)	1330-20-7	0.004	0.001	0.85
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	19	1.1	20.87
GC	Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel	modified				
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	4.0	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	25.3	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009 20:49	Chelsea B Eastep	0.85
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 14:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 14:50	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 14:50	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31B	11/05/2009 11:43	Carrie E Miller	20.87
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 14:50	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009 07:58	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009 12:00	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-13-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821922
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 14:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
 Reported: 11/17/2009 at 13:04
 Discard: 12/18/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
07361	Benzene	71-43-2	0.22	mg/kg	
07361	1,2-Dibromoethane	106-93-4	N.D.	0.046	64.28
07361	1,2-Dichloroethane	107-06-2	N.D.	0.092	64.28
07361	Ethylbenzene	100-41-4	0.91	0.092	64.28
06373	n-Hexane	110-54-3	9.8	0.092	64.28
07361	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.046	64.28
07361	Toluene	108-88-3	0.21	0.092	64.28
07361	Xylene (Total)	1330-20-7	2.1	0.092	64.28
GC/MS Semivolatiles SW-846 8270C SIM					
02858	Benzo(a)anthracene	56-55-3	N.D.	mg/kg	
02858	Benzo(a)pyrene	50-32-8	N.D.	0.0096	10
02858	Benzo(b)fluoranthene	205-99-2	N.D.	0.0096	10
02858	Benzo(k)fluoranthene	207-08-9	N.D.	0.0096	10
02858	Chrysene	218-01-9	0.0096	0.0048	10
02858	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0096	10
02858	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0096	10
02858	1-Methylnaphthalene	90-12-0	2.8	0.0096	10
02858	2-Methylnaphthalene	91-57-6	4.7	0.0096	10
02858	Naphthalene	91-20-3	1.8	0.0096	10

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	1,800	1775.15

GC Volatiles	ECY 97-602 WA VPH	mg/kg	mg/kg	
05666	Benzene	71-43-2	N.D.	0.864
05666	C5-C6 Aliphatic Hydrocarbons	n.a.	65.7	600.64
05666	C6-C8 Aliphatic Hydrocarbons	n.a.	539	600.64
05666	C8-C10 Aliphatic Hydrocarbons	n.a.	229	600.64
05666	C8-C10 Aromatic Hydrocarbons	n.a.	177	600.64
05666	Ethylbenzene	100-41-4	N.D.	0.864
05666	Methyl t-butyl ether	1634-04-4	1.02	600.64
05666	Toluene	108-88-3	1.45	600.64
05666	o-Xylene	95-47-6	N.D.	0.864
05666	m,p-Xylenes	179601-23-1	1.98	600.64

The LCS recovery for the C5-C6 aliphatic range is 67% with QC limits of 70-130%. This range in the LCS is within specification at 76%. All other ranges are within specification in both the LCS and LCSD. The recovery is high enough to ensure that there is no significant impact to the data.

GC Extractable TPH	ECY 97-602 WA EPH	mg/kg	mg/kg	
05970	>C10 - C12 Aliphatic	n.a.	130	1
05970	>C10 - C12 Aromatic	n.a.	13	1
05970	>C12 - C16 Aliphatic	n.a.	310	1
05970	>C12 - C16 Aromatic	n.a.	41	1

Sample Description: SB-13-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821922
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 14:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Extractable TPH ECY 97-602 WA EPH					
05970	>C16 - C21 Aliphatic	n.a.	200	4.3	1
05970	>C16 - C21 Aromatic	n.a.	63	2.9	1
05970	>C21 - C34 Aliphatic	n.a.	33	1.4	1
05970	>C21 - C34 Aromatic	n.a.	5.9	2.9	1
GC Extractable TPH ECY 97-602 NWTPH-Dx w/Si Gel modified					
02214	DRO C12-C24 w/Si Gel	n.a.	1,200	22	5
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	72	5
Metals SW-846 6010B					
06972	Zinc	7440-66-6	115	0.931	1
Metals SW-846 6020					
06128	Cadmium	7440-43-9	0.306	0.0158	2
06131	Chromium	7440-47-3	34.6	0.169	2
06135	Lead	7439-92-1	95.3	0.0423	2
06139	Nickel	7440-02-0	28.3	0.141	2
Wet Chemistry SM20 2540 G					
00111	Moisture	n.a.	30.5	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259
Carcinogenic PAHs have been reported for this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	Q093131AA	11/09/2009 13:39	Kerri E Koch	64.28
06373	8260 Special Cmpds for Soils	SW-846 8260B	1	Q093131AA	11/09/2009 13:39	Kerri E Koch	64.28
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 14:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 14:40	Client Supplied	1

Sample Description: SB-13-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821922
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 14:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/27/2009 14:40	Client Supplied	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/09/2009 08:42	Timothy J Trees	10
00381	BNA Soil Sonication	SW-846 3550B	1	09307SLE026	11/03/2009 23:30	Patricia L Foreman	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31B	11/05/2009 13:27	Carrie E Miller	1775.15
05666	WA- VPH soils	ECY 97-602 WA VPH	1	09313A33A	11/09/2009 18:17	Melissa McDermott	600.64
00388	GC - Field Preserved (MA-VPH)	MA DEP VPH modified	1	200930619686	10/27/2009 14:40	Client Supplied	1
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 14:40	Client Supplied	n.a.
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	093080015A	11/07/2009 01:21	Heather E Williams	1
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	093080015A	11/07/2009 02:08	Heather E Williams	1
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093060027A	11/05/2009 11:03	Diane V Do	5
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093060027A	11/03/2009 12:00	Olivia I Santiago	1
07004	Extraction - DRO (Soils)	ECY 97-602 WA EPH	1	093080015A	11/05/2009 08:45	Denise L Trimby	1
00497	Silica Gel Fractionation MA HC	SW-846 3630C modified	1	093080015A	11/05/2009 13:45	Denise L Trimby	1
06972	Zinc	SW-846 6010B	1	093065708001	11/03/2009 08:53	Joanne M Gates	1
06128	Cadmium	SW-846 6020	1	093066150001A	11/04/2009 09:41	David K Beck	2
06131	Chromium	SW-846 6020	1	093066150001A	11/04/2009 09:41	David K Beck	2
06135	Lead	SW-846 6020	1	093066150001A	11/04/2009 09:41	David K Beck	2
06139	Nickel	SW-846 6020	1	093066150001A	11/04/2009 09:41	David K Beck	2
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	093066150001	11/02/2009 21:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	093065708001	11/02/2009 19:55	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09307820005A	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-11-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821923
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 15:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.24	0.065	98.33
07360	Ethylbenzene	100-41-4	63	0.65	491.65
07360	Toluene	108-88-3	N.D.	0.13	98.33
07360	Xylene (Total)	1330-20-7	51	0.13	98.33
GC/MS	Semivolatiles	SW-846 8270C SIM	mg/kg	mg/kg	
02858	Benzo(a)anthracene	56-55-3	0.048	0.0087	10
02858	Benzo(a)pyrene	50-32-8	0.037	0.0087	10
02858	Benzo(b)fluoranthene	205-99-2	0.044	0.0087	10
02858	Benzo(k)fluoranthene	207-08-9	0.017	0.0087	10
02858	Chrysene	218-01-9	0.061	0.0044	10
02858	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0087	10
02858	Indeno(1,2,3-cd)pyrene	193-39-5	0.017	0.0087	10
02858	1-Methylnaphthalene	90-12-0	12	0.087	100
02858	2-Methylnaphthalene	91-57-6	22	0.087	100
02858	Naphthalene	91-20-3	9.2	0.087	100
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	2,400	280	5248.86
GC	Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel	modified				
02214	DRO C12-C24 w/Si Gel	n.a.	2,400	200	50
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	660	50
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	23.8	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259
 Carcinogenic PAHs have been reported for this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093111AA	11/07/2009 06:54	Stephanie A Selis	491.65
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093131AA	11/09/2009 12:30	Kerri E Koch	98.33

Sample Description: SB-11-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821923
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 15:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Discard: 12/18/2009

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 15:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 15:40	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/27/2009 15:40	Client Supplied	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/09/2009 09:14	Timothy J Trees	10
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/09/2009 15:02	Timothy J Trees	100
00381	BNA Soil Sonication	SW-846 3550B	1	09307SLE026	11/03/2009 23:30	Patricia L Foreman	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31B	11/05/2009 16:44	Marie D John	5248.86
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 15:40	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070021A	11/06/2009 11:48	Diane V Do	50
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-11-11 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821924
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 16:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.034	57.38
07360	Ethylbenzene	100-41-4	N.D.	0.067	57.38
07360	Toluene	108-88-3	N.D.	0.067	57.38
07360	Xylene (Total)	1330-20-7	N.D.	0.067	57.38

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	1,100	210	4580.05

GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	270	7.0	2
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	23	2

Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	14.6	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 18:21	Kerri E Koch	57.38
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 16:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 16:00	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/27/2009 16:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/04/2009 22:51	Marie D John	4580.05
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 16:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070021A	11/06/2009 11:07	Diane V Do	2



Analysis Report

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Page 2 of 2

Sample Description: SB-11-11 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821924
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/27/2009 16:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-4-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821925
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 16:15 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-4-8

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.34	0.044	61.21
07360	Ethylbenzene	100-41-4	5.4	0.087	61.21
07360	Toluene	108-88-3	0.13	0.087	61.21
07360	Xylene (Total)	1330-20-7	0.20	0.087	61.21
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	2,200	140	2455.4
GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	420	8.6	2
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	29	2
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	30.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 19:08	Kerri E Koch	61.21
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 16:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 16:15	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 16:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/04/2009 23:28	Marie D John	2455.4
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 16:15	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070021A	11/06/2009 12:29	Diane V Do	2
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1



Analysis Report

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Sample Description: SB-5-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821926
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 16:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-5-8

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.038	54.66
07360	Ethylbenzene	100-41-4	3.1	0.076	54.66
07360	Toluene	108-88-3	N.D.	0.076	54.66
07360	Xylene (Total)	1330-20-7	2.4	0.076	54.66
GC	Volatiles	ECY 97-602 NWTTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	290	24	435.54
GC	Extractable TPH	ECY 97-602 NWTTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	5.7	4.2	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	14	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	28.0	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093111AA	11/07/2009 08:25	Stephanie A Selis	54.66
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 16:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 16:30	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 16:30	Client Supplied	1
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	09308A31B	11/05/2009 14:40	Carrie E Miller	435.54
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 16:30	Client Supplied	n.a.
02214	NWTTPH-Dx soil w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	093070021A	11/05/2009 13:06	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-5-4.5 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821927
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/27/2009 16:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
 Reported: 11/17/2009 at 13:04
 Discard: 12/18/2009

Chevron
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 San Ramon CA 94583

P-5-4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B mg/kg					
07361	Benzene	71-43-2	0.16	0.037	57.38
07361	1,2-Dibromoethane	106-93-4	N.D.	0.074	57.38
07361	1,2-Dichloroethane	107-06-2	N.D.	0.074	57.38
07361	Ethylbenzene	100-41-4	9.7	0.074	57.38
06373	n-Hexane	110-54-3	4.8	0.074	57.38
07361	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.037	57.38
07361	Toluene	108-88-3	0.092	0.074	57.38
07361	Xylene (Total)	1330-20-7	7.3	0.074	57.38

GC/MS Semivolatiles SW-846 8270C SIM mg/kg					
02858	Benzo(a)anthracene	56-55-3	N.D.	0.0086	10
02858	Benzo(a)pyrene	50-32-8	N.D.	0.0086	10
02858	Benzo(b)fluoranthene	205-99-2	N.D.	0.0086	10
02858	Benzo(k)fluoranthene	207-08-9	N.D.	0.0086	10
02858	Chrysene	218-01-9	N.D.	0.0043	10
02858	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0086	10
02858	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0086	10
02858	1-Methylnaphthalene	90-12-0	0.71	0.0086	10
02858	2-Methylnaphthalene	91-57-6	1.5	0.0086	10
02858	Naphthalene	91-20-3	1.1	0.0086	10

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC Volatiles ECY 97-602 NWTPH-Gx mg/kg					
02005	TPH by NWTPH-Gx soils	n.a.	650	49	945.78

GC Volatiles ECY 97-602 WA VPH mg/kg					
05666	Benzene	71-43-2	0.731	0.342	263.41
05666	C5-C6 Aliphatic Hydrocarbons	n.a.	51.1	17.1	263.41
05666	C6-C8 Aliphatic Hydrocarbons	n.a.	1,220	17.1	263.41
05666	C8-C10 Aliphatic Hydrocarbons	n.a.	209	17.1	263.41
05666	C8-C10 Aromatic Hydrocarbons	n.a.	138	17.1	263.41
05666	Ethylbenzene	100-41-4	22.3	0.342	263.41
05666	Methyl t-butyl ether	1634-04-4	0.812	0.342	263.41
05666	Toluene	108-88-3	N.D.	0.342	263.41
05666	o-Xylene	95-47-6	N.D.	0.342	263.41
05666	m,p-Xylenes	179601-23-1	3.89	0.683	263.41

The LCS recovery for the C5-C6 aliphatic range is 67% with QC limits of 70-130%. This range in the LCSD is within specification at 76%. All other ranges are within specification in both the LCS and LCSD. The recovery is high enough to ensure that there is no significant impact to the data.

GC Extractable TPH ECY 97-602 WA EPH mg/kg					
05970	>C10 - C12 Aliphatic	n.a.	82	1.3	1
05970	>C10 - C12 Aromatic	n.a.	20	1.3	1
05970	>C12 - C16 Aliphatic	n.a.	31	1.3	1
05970	>C12 - C16 Aromatic	n.a.	15	1.3	1

Sample Description: SB-5-4.5 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821927
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 16:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
 Reported: 11/17/2009 at 13:04
 Discard: 12/18/2009

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 San Ramon CA 94583

P-5-4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Extractable TPH					
	ECY 97-602 WA EPH		mg/kg	mg/kg	
05970	>C16 - C21 Aliphatic	n.a.	8.8	3.9	1
05970	>C16 - C21 Aromatic	n.a.	4.0	2.6	1
05970	>C21 - C34 Aliphatic	n.a.	2.9	1.3	1
05970	>C21 - C34 Aromatic	n.a.	2.9	2.6	1
EPH was detected in the >C21-C34 range for the method blank at a concentration of 1.2 mg/kg. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.					
GC Extractable TPH					
	ECY 97-602 NWTPh-Dx w/Si Gel modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	57	3.9	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
Metals					
	SW-846 6010B		mg/kg	mg/kg	
06972	Zinc	7440-66-6	65.4	0.839	1
	SW-846 6020		mg/kg	mg/kg	
06128	Cadmium	7440-43-9	0.160	0.0141	2
06131	Chromium	7440-47-3	27.9	0.151	2
06135	Lead	7439-92-1	17.7	0.0378	2
06139	Nickel	7440-02-0	24.1	0.126	2
Wet Chemistry					
	SM20 2540 G		%	%	
00111	Moisture	n.a.	22.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259
 Carcinogenic PAHs have been reported for this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	Q093131AA	11/09/2009 14:02	Kerri E Koch	57.38
06373	8260 Special Cmpds for Soils	SW-846 8260B	1	Q093131AA	11/09/2009 14:02	Kerri E Koch	57.38

Sample Description: SB-5-4.5 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821927
LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 16:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-5-4

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 16:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 16:40	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/27/2009 16:40	Client Supplied	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/09/2009 09:46	Timothy J Trees	10
00381	BNA Soil Sonication	SW-846 3550B	1	09307SLE026	11/03/2009 23:30	Patricia L Foreman	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31B	11/05/2009 15:16	Carrie E Miller	945.78
05666	WA- VPH soils	ECY 97-602 WA VPH	1	09313A33A	11/09/2009 20:26	Carrie E Miller	263.41
00388	GC - Field Preserved (MA-VPH)	MA DEP VPH modified	1	200930619686	10/27/2009 16:40	Client Supplied	1
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 16:40	Client Supplied	n.a.
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	093080015A	11/06/2009 22:12	Heather E Williams	1
05970	WA EPH in Soil	ECY 97-602 WA EPH	1	093080015A	11/06/2009 22:59	Heather E Williams	1
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070021A	11/05/2009 13:26	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
07004	Extraction - DRO (Soils)	ECY 97-602 WA EPH	1	093080015A	11/05/2009 08:45	Denise L Trimby	1
00497	Silica Gel Fractionation MA HC	SW-846 3630C modified	1	093080015A	11/05/2009 13:45	Denise L Trimby	1
06972	Zinc	SW-846 6010B	1	093065708004	11/04/2009 16:01	Eric L Eby	1
06128	Cadmium	SW-846 6020	1	093066150002A	11/04/2009 22:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	093066150002A	11/04/2009 22:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	093066150002A	11/04/2009 22:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	093066150002A	11/04/2009 22:08	Choon Y Tian	2
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	093066150002	11/03/2009 21:30	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	093065708004	11/03/2009 20:30	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-6-7 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821928
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/27/2009 17:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-6-7

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	mg/kg	
07360	Benzene	71-43-2	0.88	0.042	59.42
07360	Ethylbenzene	100-41-4	210	0.83	594.22
07360	Toluene	108-88-3	0.21	0.083	59.42
07360	Xylene (Total)	1330-20-7	96	0.83	594.22
GC Volatiles			ECY 97-602 NWTPH-Gx	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	3,600	660	11818.99
GC Extractable TPH w/Si Gel			ECY 97-602 NWTPH-Dx modified	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	240	8.4	2
02214	HRO C24-C40 w/Si Gel	n.a.	33	28	2
Wet Chemistry			SM20 2540 G	%	
00111	Moisture	n.a.	28.6	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 21:02	Kerri E Koch	594.22
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093111AA	11/07/2009 08:48	Stephanie A Selis	59.42
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/27/2009 17:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/27/2009 17:00	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/27/2009 17:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/05/2009 01:17	Marie D John	11818.99
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/27/2009 17:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070021A	11/09/2009 13:14	Diane V Do	2
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1



Analysis Report

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Sample Description: SB-6-7 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821928
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/27/2009 17:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SB-5-11 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821929
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 10:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-511

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
07360	Benzene	71-43-2	0.49	0.029	48.28
07360	Ethylbenzene	100-41-4	6.3	0.058	48.28
07360	Toluene	108-88-3	0.089	0.058	48.28
07360	Xylene (Total)	1330-20-7	1.1	0.058	48.28
GC Volatiles ECY 97-602 NWTTPH-Gx					
02005	TPH by NWTTPH-Gx soils	n.a.	490	19	393.08
GC Extractable TPH ECY 97-602 NWTTPH-Dx w/Si Gel modified					
02214	DRO C12-C24 w/Si Gel	n.a.	6.3	3.6	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry SM20 2540 G					
00111	Moisture	n.a.	17.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 21:25	Kerri E Koch	48.28
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 10:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 10:00	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 10:00	Client Supplied	1
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	09308A31B	11/05/2009 15:52	Carrie E Miller	393.08
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 10:00	Client Supplied	n.a.
02214	NWTTPH-Dx soil w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	093070021A	11/05/2009 13:47	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: MW-21-6 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821930
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 10:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-216

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	12	0.35	536.59
07360	Ethylbenzene	100-41-4	140	0.70	536.59
07360	Toluene	108-88-3	1.4	0.70	536.59
07360	Xylene (Total)	1330-20-7	410	0.70	536.59
GC/MS	Semivolatiles	SW-846 8270C SIM	mg/kg	mg/kg	
02858	Benzo(a)anthracene	56-55-3	N.D.	0.0087	10
02858	Benzo(a)pyrene	50-32-8	N.D.	0.0087	10
02858	Benzo(b)fluoranthene	205-99-2	N.D.	0.0087	10
02858	Benzo(k)fluoranthene	207-08-9	N.D.	0.0087	10
02858	Chrysene	218-01-9	0.0098	0.0043	10
02858	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0087	10
02858	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.0087	10
02858	1-Methylnaphthalene	90-12-0	3.2	0.0087	10
02858	2-Methylnaphthalene	91-57-6	5.9	0.087	100
02858	Naphthalene	91-20-3	3.2	0.0087	10

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

GC Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	3,600	550
				10661.56

GC Extractable TPH w/Si Gel	ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	1,500	97
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	320
				25

Wet Chemistry	SM20 2540 G	%	%	
00111	Moisture	n.a.	23.0	0.50
				1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259
 Carcinogenic PAHs have been reported for this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-21-6 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821930
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 10:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093111AA	11/07/2009 12:59	Stephanie A Selis	536.59
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 10:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 10:30	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 10:30	Client Supplied	1
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/09/2009 10:17	Timothy J Trees	10
02858	PAHs in soils by SIM	SW-846 8270C SIM	1	09307SLE026	11/09/2009 15:33	Timothy J Trees	100
00381	BNA Soil Sonication	SW-846 3550B	1	09307SLE026	11/03/2009 23:30	Patricia L Foreman	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31A	11/05/2009 02:30	Marie D John	10661.56
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 10:30	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070021A	11/06/2009 12:09	Diane V Do	25
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-6-15 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821931
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 10:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-615

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.001	0.0005	0.77
07360	Ethylbenzene	100-41-4	0.013	0.0009	0.77
07360	Toluene	108-88-3	N.D.	0.0009	0.77
07360	Xylene (Total)	1330-20-7	0.002	0.0009	0.77
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	2.2	0.9	18.97
GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.5	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	14.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093121AA	11/09/2009 04:47	Nicholas P Riehl	0.77
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 10:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 10:45	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 10:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09308A31B	11/05/2009 12:51	Carrie E Miller	18.97
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 10:45	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070021A	11/05/2009 14:07	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: SB-8-14 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821932
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 11:15 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
 Reported: 11/17/2009 at 13:04
 Discard: 12/18/2009

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 San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		mg/kg	mg/kg	
07360	Benzene	71-43-2	0.26	0.0005	0.81
07360	Ethylbenzene	100-41-4	0.060	0.001	0.81
07360	Toluene	108-88-3	0.009	0.001	0.81
07360	Xylene (Total)	1330-20-7	0.031	0.001	0.81
GC Volatiles					
	ECY 97-602 NWTTPH-Gx		mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	N.D.	3.3	65.45
GC Extractable TPH w/Si Gel					
	ECY 97-602 NWTTPH-Dx modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.7	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry					
	SM20 2540 G		%	%	
00111	Moisture	n.a.	19.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009 17:22	Chelsea B Eastep	0.81
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 11:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 11:15	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 11:15	Client Supplied	1
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	09313A31A	11/09/2009 17:27	Elizabeth J Marin	65.45
00388	GC - Field Preserved (MA-VPH)	MA DEP VPH modified	1	200930619686	10/28/2009 11:15	Client Supplied	1
02214	NWTTPH-Dx soil w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	093070021A	11/05/2009 14:28	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTTPH-Dx 06/97	1	093070021A	11/04/2009 10:45	Olivia I Santiago	1



Analysis Report

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Sample Description: SB-8-14 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821932
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 11:15 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-814

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09307820005B	11/03/2009 20:07	Scott W Freisher	1

Sample Description: MW-22-6 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821933
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 11:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.0009	0.0006	0.96
07360	Ethylbenzene	100-41-4	N.D.	0.001	0.96
07360	Toluene	108-88-3	N.D.	0.001	0.96
07360	Xylene (Total)	1330-20-7	N.D.	0.001	0.96
The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.					
GC Volatiles					
		ECY 97-602 NWTTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	32	1.7	33.42
GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	54	3.8	1
02214	HRO C24-C40 w/Si Gel	n.a.	58	13	1
Wet Chemistry					
		SM20 5310 B modified	mg/kg	mg/kg	
02079	TOC Solids/Sludges Combustion	n.a.	41,300	1,480	1
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	21.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093121AA	11/09/2009 02:27	Nicholas P Riehl	0.96
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 11:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 11:45	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 11:45	Client Supplied	1
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	09309A31A	11/06/2009 12:47	Elizabeth J Marin	33.42



Analysis Report

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Sample Description: MW-22-6 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821933
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 11:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

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San Ramon CA 94583

Discard: 12/18/2009

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 11:45	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/06/2009 07:01	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1
02079	TOC Solids/Sludges Combustion	SM20 5310 B modified	1	09307049531B	11/04/2009 02:00	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-4-10 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821934
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 13:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	0.30	0.028	47.15
07360	Ethylbenzene	100-41-4	1.3	0.055	47.15
07360	Toluene	108-88-3	0.059	0.055	47.15
07360	Xylene (Total)	1330-20-7	0.19	0.055	47.15
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	740	44	934.19
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	130	3.5	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry					
00111	Moisture	n.a.	14.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 22:32	Kerri E Koch	47.15
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 13:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 13:10	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 13:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 02:26	Elizabeth J Marin	934.19
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 13:10	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 17:32	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1



Analysis Report

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Sample Description: SB-4-10 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821934
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 13:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-4-14 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821935
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 13:20 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-414

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
07360	Benzene	71-43-2	0.008	mg/kg 0.0004	0.76
07360	Ethylbenzene	100-41-4	N.D.	0.0009	0.76
07360	Toluene	108-88-3	N.D.	0.0009	0.76
07360	Xylene (Total)	1330-20-7	N.D.	0.0009	0.76
GC Volatiles ECY 97-602 NWTPH-Gx					
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	mg/kg 1.1	23.99
GC Extractable TPH w/Si Gel ECY 97-602 NWTPH-Dx modified					
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	mg/kg 3.4	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
Wet Chemistry SM20 2540 G					
00111	Moisture	n.a.	% 12.9	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093121AA	11/09/2009 02:04	Nicholas P Riehl	0.76
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 13:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 13:20	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 13:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/05/2009 22:48	Elizabeth J Marin	23.99
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 13:20	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 17:52	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1



Analysis Report

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Sample Description: SB-4-14 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821935
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 13:20 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

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San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-13-13 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821936
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 13:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

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Discard: 12/18/2009

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	0.008	0.0004	0.7
07360	Ethylbenzene	100-41-4	0.002	0.0008	0.7
07360	Toluene	108-88-3	N.D.	0.0008	0.7
07360	Xylene (Total)	1330-20-7	N.D.	0.0008	0.7
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	2.5	1	20.4
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.5	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry					
00111	Moisture	n.a.	14.6	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009 18:31	Chelsea B Eastep	0.7
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 13:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 13:45	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 13:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/05/2009 22:12	Elizabeth J Marin	20.4
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 13:45	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 18:13	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1

Sample Description: SB-13-13 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821936
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 13:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: MW-23-6 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821937
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 17:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Discard: 12/18/2009

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	N.D.	0.17	236.89
07360	Ethylbenzene	100-41-4	15	0.33	236.89
07360	Toluene	108-88-3	N.D.	0.33	236.89
07360	Xylene (Total)	1330-20-7	0.42	0.33	236.89
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	2,000	140	2428.5
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	41	4.2	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	14	1
Wet Chemistry					
00111	Moisture	n.a.	29.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/06/2009 23:18	Kerri E Koch	236.89
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 17:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 17:00	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 17:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 17:29	Elizabeth J Marin	2428.5
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 17:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 18:33	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1

Sample Description: MW-23-6 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821937
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 17:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

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Sample Description: SB-15-2 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821938
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 12:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.41	0.042	73.05
07360	Ethylbenzene	100-41-4	0.52	0.084	73.05
07360	Toluene	108-88-3	0.45	0.084	73.05
07360	Xylene (Total)	1330-20-7	3.4	0.084	73.05
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	360	60	1297.45
GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	350	35	10
02214	HRO C24-C40 w/Si Gel	n.a.	830	120	10
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	13.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093101AA	11/07/2009 00:04	Kerri E Koch	73.05
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 12:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 12:30	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 12:30	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 04:51	Elizabeth J Marin	1297.45
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 12:30	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/06/2009 07:42	Diane V Do	10
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1

Sample Description: SB-15-2 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821938
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 12:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

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Sample Description: SB-15-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821939
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 15:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.40	0.044	61.92
07360	Ethylbenzene	100-41-4	6.0	0.088	61.92
07360	Toluene	108-88-3	0.14	0.088	61.92
07360	Xylene (Total)	1330-20-7	0.63	0.088	61.92
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	870	140	2466.07
GC Extractable TPH w/Si Gel					
		ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	39	4.2	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	14	1
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	29.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093111AA	11/07/2009 09:11	Stephanie A Selis	61.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 15:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 15:00	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 15:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 05:28	Elizabeth J Marin	2466.07
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 15:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 18:54	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1



Analysis Report

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Sample Description: SB-15-8 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821939
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 15:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

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Sample Description: SB-15-12 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821940
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 15:15 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1512

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		mg/kg	mg/kg	
07360	Benzene	71-43-2	0.091	0.0005	0.83
07360	Ethylbenzene	100-41-4	0.092	0.0009	0.83
07360	Toluene	108-88-3	0.004	0.0009	0.83
07360	Xylene (Total)	1330-20-7	0.020	0.0009	0.83
GC Volatiles					
	ECY 97-602 NWTPH-Gx		mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	3.1	1.0	22.31
GC Extractable TPH w/Si Gel					
	ECY 97-602 NWTPH-Dx modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
Wet Chemistry					
	SM20 2540 G		%	%	
00111	Moisture	n.a.	11.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009 18:54	Chelsea B Eastep	0.83
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 15:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 15:15	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 15:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 13:27	Elizabeth J Marin	22.31
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 15:15	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 19:35	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1



Analysis Report

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Sample Description: SB-15-12 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821940
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 15:15 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

P1512

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

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Sample Description: SB-14-6 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821941
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 16:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
 Reported: 11/17/2009 at 13:04
 Discard: 12/18/2009

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	0.0008	0.0005	0.83
07360	Ethylbenzene	100-41-4	N.D.	0.001	0.83
07360	Toluene	108-88-3	N.D.	0.001	0.83
07360	Xylene (Total)	1330-20-7	N.D.	0.001	0.83
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	5.7	1.3	25.3
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.7	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry					
02079	TOC Solids/Sludges Combustion	n.a.	8,980	924	1
Wet Chemistry					
00111	Moisture	n.a.	19.9	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009 19:17	Chelsea B Eastep	0.83
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 16:00	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 16:00	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 16:00	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/05/2009 23:24	Elizabeth J Marin	25.3
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 16:00	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 20:15	Diane V Do	1



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Sample Description: SB-14-6 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821941
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 16:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1
02079	TOC Solids/Sludges Combustion	SM20 5310 B modified	1	09307049531B	11/04/2009 02:06	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-14-11 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821942
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 16:15 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1411

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			mg/kg	mg/kg	
07360	Benzene	71-43-2	0.34	0.037	55.48
07360	Ethylbenzene	100-41-4	1.1	0.075	55.48
07360	Toluene	108-88-3	N.D.	0.075	55.48
07360	Xylene (Total)	1330-20-7	0.21	0.075	55.48

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

GC Volatiles			mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	840	150	2707.69

GC Extractable TPH w/Si Gel			mg/kg	mg/kg	
ECY 97-602 NWTPH-Dx modified					
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	4.0	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1

Wet Chemistry			%	%	
00111	Moisture	n.a.	25.9	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093131AA	11/09/2009 14:24	Kerri E Koch	55.48
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 16:15	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 16:15	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 16:15	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 06:40	Elizabeth J Marin	2707.69
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 16:15	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093070022A	11/05/2009 19:55	Diane V Do	1



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Sample Description: SB-14-11 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821942
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 16:15 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1411

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093070022A	11/04/2009 10:45	Olivia I Santiago	1
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-14-13 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821943
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 16:20 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1413

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	0.039	0.0005	0.87
07360	Ethylbenzene	100-41-4	0.007	0.001	0.87
07360	Toluene	108-88-3	0.003	0.001	0.87
07360	Xylene (Total)	1330-20-7	0.002	0.001	0.87
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	1.5	1.1	24.1
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.5	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry					
00111	Moisture	n.a.	14.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093121AA	11/09/2009 04:00	Nicholas P Riehl	0.87
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 16:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 16:20	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 16:20	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 00:01	Elizabeth J Marin	24.1
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 16:20	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/06/2009 14:13	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1



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Sample Description: SB-14-13 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821943
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 16:20 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

P1413

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

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Sample Description: MW-21-13 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821944
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 16:12 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
 Reported: 11/17/2009 at 13:04
 Discard: 12/18/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

P2113

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	0.063	0.0004	0.77
07360	Ethylbenzene	100-41-4	0.19	0.0009	0.77
07360	Toluene	108-88-3	0.004	0.0009	0.77
07360	Xylene (Total)	1330-20-7	0.31	0.0009	0.77
GC Volatiles					
02005	TPH by NWTPH-Gx soils	n.a.	36	4.2	90.39
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	n.a.	20	3.5	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry					
00111	Moisture	n.a.	14.4	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093121AA	11/09/2009 05:10	Nicholas P Riehl	0.77
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 16:12	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 16:12	Client Supplied	1
07579	GC/MS-Field PreservedMeOH-NC	SW-846 5035	1	200930319675	10/28/2009 16:12	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 07:17	Elizabeth J Marin	90.39
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 16:12	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/06/2009 14:33	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1



Analysis Report

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Sample Description: MW-21-13 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821944
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 16:12 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P2113

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-10-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821945
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/28/2009 16:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-104

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.10	0.031	51.22
07360	Ethylbenzene	100-41-4	0.12	0.062	51.22
07360	Toluene	108-88-3	0.13	0.062	51.22
07360	Xylene (Total)	1330-20-7	0.21	0.062	51.22
The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.					
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	430	31	641.81
GC	Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel	modified				
02214	DRO C12-C24 w/Si Gel	n.a.	740	36	10
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	120	10
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	17.3	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	Q093111AA	11/07/2009 04:58	Stephanie A Selis	51.22
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/28/2009 16:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/28/2009 16:40	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/28/2009 16:40	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 07:53	Elizabeth J Marin	641.81
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/28/2009 16:40	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/08/2009 13:12	Diane V Do	10



Analysis Report

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Sample Description: SB-10-4 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821945
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/28/2009 16:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-22-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821946
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 08:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.009	0.0006	0.85
07360	Ethylbenzene	100-41-4	0.002	0.001	0.85
07360	Toluene	108-88-3	N.D.	0.001	0.85
07360	Xylene (Total)	1330-20-7	0.003	0.001	0.85
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	47	3.1	55.37
GC	Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel	modified				
02214	DRO C12-C24 w/Si Gel	n.a.	150	4.2	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	14	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	29.2	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093121AA	11/09/2009 05:33	Nicholas P Riehl	0.85
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/29/2009 08:45	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/29/2009 08:45	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/29/2009 08:45	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 14:03	Elizabeth J Marin	55.37
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/29/2009 08:45	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/06/2009 16:56	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1



Analysis Report

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Sample Description: MW-22-8 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821946
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/29/2009 08:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-22-13 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821947
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 09:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

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P2213

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.012	0.0005	0.78
07360	Ethylbenzene	100-41-4	N.D.	0.0009	0.78
07360	Toluene	108-88-3	N.D.	0.0009	0.78
07360	Xylene (Total)	1330-20-7	N.D.	0.0009	0.78
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	N.D.	1.2	24.63
GC	Extractable TPH w/Si Gel	ECY 97-602 NWTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.6	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	15.9	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009 13:54	Chelsea B Eastep	0.78
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/29/2009 09:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/29/2009 09:10	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/29/2009 09:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 00:37	Elizabeth J Marin	24.63
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/29/2009 09:10	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/06/2009 14:54	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1



Analysis Report

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Sample Description: MW-22-13 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821947
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/29/2009 09:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

P2213

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-23-13 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821948
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/29/2009 09:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.051	0.0005	0.87
07360	Ethylbenzene	100-41-4	0.024	0.001	0.87
07360	Toluene	108-88-3	0.004	0.001	0.87
07360	Xylene (Total)	1330-20-7	0.005	0.001	0.87
GC	Volatiles	ECY 97-602 NWTPh-Gx	mg/kg	mg/kg	
02005	TPH by NWTPh-Gx soils	n.a.	N.D.	1.3	27.37
GC	Extractable TPH	ECY 97-602 NWTPh-Dx	mg/kg	mg/kg	
w/Si Gel	modified				
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.5	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	12	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	13.1	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009 14:17	Chelsea B Eastep	0.87
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319675	10/29/2009 09:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319675	10/29/2009 09:30	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319675	10/29/2009 09:30	Client Supplied	1
02005	NWTPh-Gx soil C7-C12	ECY 97-602 NWTPh-Gx	1	09309A31A	11/06/2009 01:13	Elizabeth J Marin	27.37
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/29/2009 09:30	Client Supplied	n.a.
02214	NWTPh-Dx soil w/Si Gel	ECY 97-602 NWTPh-Dx modified	1	093090011A	11/06/2009 15:14	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPh-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1



Analysis Report

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Sample Description: MW-23-13 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821948
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/29/2009 09:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
Reported: 11/17/2009 at 13:04
Discard: 12/18/2009

Chevron
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San Ramon CA 94583

P2313

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-16-8 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821949
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 10:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.003	0.0007	0.99
07360	Ethylbenzene	100-41-4	0.041	0.001	0.99
07360	Toluene	108-88-3	N.D.	0.001	0.99
07360	Xylene (Total)	1330-20-7	0.038	0.001	0.99
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	150	7.2	132.86
GC Extractable TPH					
		ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel modified					
02214	DRO C12-C24 w/Si Gel	n.a.	37	4.1	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	14	1
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	26.4	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	B093081AA	11/04/2009 04:11	Kathrine K Muramatsu	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:34	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 21:34	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:35	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 18:05	Elizabeth J Marin	132.86
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 21:37	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/06/2009 15:34	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1
00111	Moisture	SM20 2540 G	1	09308820001A	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-16-9 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821950
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 11:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25
 Reported: 11/17/2009 at 13:04
 Discard: 12/18/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	N.D.	0.039	61.83
07360	Ethylbenzene	100-41-4	0.66	0.078	61.83
07360	Toluene	108-88-3	N.D.	0.078	61.83
07360	Xylene (Total)	1330-20-7	0.70	0.078	61.83

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	1,600	130	2509.89
GC Extractable TPH					
		ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel modified					
02214	DRO C12-C24 w/Si Gel	n.a.	700	19	5
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	63	5

Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	20.8	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093081AA	11/04/2009 17:13	Nicholas R Rossi	61.83
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:38	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 21:38	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:39	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009 14:40	Elizabeth J Marin	2509.89
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 21:40	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/08/2009 12:52	Diane V Do	5
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1
00111	Moisture	SM20 2540 G	1	09308820001B	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-16-12 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821951
LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 11:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1612

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.0008	0.0005	0.8
07360	Ethylbenzene	100-41-4	N.D.	0.001	0.8
07360	Toluene	108-88-3	N.D.	0.001	0.8
07360	Xylene (Total)	1330-20-7	N.D.	0.001	0.8
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	160	11	206.38
GC Extractable TPH					
		ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel modified					
02214	DRO C12-C24 w/Si Gel	n.a.	120	3.8	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	22.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	X093131AA	11/09/2009	21:12	Chelsea B Eastep	0.8
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	1	200930319674	10/29/2009	11:10	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035	2	200930319674	10/29/2009	11:10	Client Supplied	1
07579	GC/MS-Field Preserved MeOH-NC	SW-846 5035	1	200930319674	10/29/2009	11:10	Client Supplied	1
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31A	11/06/2009	18:41	Elizabeth J Marin	206.38
06647	GC Field Preserved MeOH	SW-846 5035	1	200930619686	10/29/2009	11:10	Client Supplied	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/06/2009	16:15	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009	16:05	JoElla L Rice	1



Analysis Report

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Sample Description: SB-16-12 Grab Soil Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # SW 5821951
LLI Group # 1168842
WA

Project Name: 206196

Collected: 10/29/2009 11:10 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1612

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	09308820001B	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-12-9 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821952
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 11:40 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	4.3	0.043	60.99
07360	Ethylbenzene	100-41-4	31	0.86	609.85
07360	Toluene	108-88-3	1.2	0.086	60.99
07360	Xylene (Total)	1330-20-7	46	0.86	609.85
GC Volatiles					
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx n.a.	2,800	380	6810.79
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified n.a.	2,200	42	10
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	140	10
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	29.0	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093071AA	11/03/2009 15:29	Nicholas R Rossi	609.85
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093081AA	11/04/2009 17:53	Nicholas R Rossi	60.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:41	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 21:42	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:42	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09309A31B	11/06/2009 22:59	Carrie E Miller	6810.79
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 21:43	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090011A	11/08/2009 13:33	Diane V Do	10
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090011A	11/05/2009 16:05	JoElla L Rice	1
00111	Moisture	SM20 2540 G	1	09308820001B	11/04/2009 10:39	William C Schwebel	1

Sample Description: SB-12-14 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821953
LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 11:51 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1214

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.002	0.0006	0.98
07360	Ethylbenzene	100-41-4	0.01	0.001	0.98
07360	Toluene	108-88-3	N.D.	0.001	0.98
07360	Xylene (Total)	1330-20-7	0.004	0.001	0.98
GC Volatiles					
		ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	8.1	1.2	26.6
GC Extractable TPH					
		ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel					
		modified			
02214	DRO C12-C24 w/Si Gel	n.a.	N.D.	3.4	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	11	1
Wet Chemistry					
		SM20 2540 G	%	%	
00111	Moisture	n.a.	12.2	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	B093081AA	11/04/2009 04:33	Kathrine K Muramatsu	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:44	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 21:44	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:45	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09313A31A	11/09/2009 13:13	Elizabeth J Marin	26.6
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 21:46	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090002A	11/06/2009 22:43	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090002A	11/05/2009 14:30	Doreen K Robles	1
00111	Moisture	SM20 2540 G	1	09308820002A	11/04/2009 10:10	William C Schwebel	1

Sample Description: SB-12-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821954
LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 11:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P12-4

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		mg/kg	mg/kg	
07360	Benzene	71-43-2	0.21	0.048	65.47
07360	Ethylbenzene	100-41-4	6.0	0.096	65.47
07360	Toluene	108-88-3	N.D.	0.096	65.47
07360	Xylene (Total)	1330-20-7	14	0.096	65.47
GC Volatiles					
	ECY 97-602 NWTTPH-Gx		mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	860	72	1227.66
GC Extractable TPH w/Si Gel					
	ECY 97-602 NWTTPH-Dx modified		mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	2,800	44	10
02214	HRO C24-C40 w/Si Gel	n.a.	400	150	10
Wet Chemistry					
	SM20 2540 G		%	%	
00111	Moisture	n.a.	31.5	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093081AA	11/04/2009	18:16	Nicholas R Rossi	65.47
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009	21:49	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009	21:50	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009	21:51	Justin M Bowers	n.a.
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	09313A31A	11/09/2009	19:16	Elizabeth J Marin	1227.66
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009	21:52	Justin M Bowers	n.a.
02214	NWTTPH-Dx soil w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	093090002A	11/07/2009	01:06	Diane V Do	10
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTTPH-Dx 06/97	1	093090002A	11/05/2009	14:30	Doreen K Robles	1
00111	Moisture	SM20 2540 G	1	09308820002A	11/04/2009	10:10	William C Schwebel	1

Sample Description: SB-18-2 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821955
LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 12:00 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-182

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	2.2	0.035	56.69
07360	Ethylbenzene	100-41-4	17	0.071	56.69
07360	Toluene	108-88-3	0.38	0.071	56.69
07360	Xylene (Total)	1330-20-7	3.1	0.071	56.69
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	1,500	120	2319.57
GC	Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel	modified				
02214	DRO C12-C24 w/Si Gel	n.a.	3,700	94	25
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	310	25
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	19.9	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093081AA	11/04/2009 18:38	Nicholas R Rossi	56.69
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:53	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 21:53	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:54	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09313A31A	11/09/2009 16:14	Elizabeth J Marin	2319.57
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 21:54	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090002A	11/08/2009 14:14	Diane V Do	25
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090002A	11/05/2009 14:30	Doreen K Robles	1
00111	Moisture	SM20 2540 G	1	09308820002A	11/04/2009 10:10	William C Schwebel	1

Sample Description: SB-17-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821956
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 12:25 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-174

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.012	0.0006	1.05
07360	Ethylbenzene	100-41-4	0.34	0.071	58.43
07360	Toluene	108-88-3	0.002	0.001	1.05
07360	Xylene (Total)	1330-20-7	0.033	0.001	1.05

The concentration reported for ethylbenzene is estimated since it exceeded the calibration range of the instrument when determined by the low level method, but was less than the quantitation limit when determined by the high level method. The result reported is from the high level determination.

GC	Volatiles	ECY 97-602 NWTTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTTPH-Gx soils	n.a.	24	1.4	29.29

GC	Extractable TPH	ECY 97-602 NWTTPH-Dx modified	mg/kg	mg/kg	
02214	DRO C12-C24 w/Si Gel	n.a.	120	3.6	1
02214	HRO C24-C40 w/Si Gel	n.a.	130	12	1

Wet Chemistry	SM20 2540 G	%	%		
00111	Moisture	n.a.	17.8	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	B093081AA	11/04/2009 04:56	Kathrine K Muramatsu	1.05
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093092AA	11/05/2009 17:24	Nicholas R Rossi	58.43
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:55	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 21:56	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:56	Justin M Bowers	n.a.
02005	NWTTPH-Gx soil C7-C12	ECY 97-602 NWTTPH-Gx	1	09313A31A	11/09/2009 13:49	Elizabeth J Marin	29.29
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 21:57	Justin M Bowers	n.a.
02214	NWTTPH-Dx soil w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	093090002A	11/06/2009 23:04	Diane V Do	1

Sample Description: SB-17-4 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821956
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 12:25 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090002A	11/05/2009 14:30	Doreen K Robles	1
00111	Moisture	SM20 2540 G	1	09308820002A	11/04/2009 10:10	William C Schwebel	1

Sample Description: SB-18-9 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821957
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 12:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P-189

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	1.4	0.046	67.72
07360	Ethylbenzene	100-41-4	6.8	0.092	67.72
07360	Toluene	108-88-3	N.D.	0.092	67.72
07360	Xylene (Total)	1330-20-7	0.36	0.092	67.72
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	890	72	1322.21
GC Extractable	TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
w/Si Gel	modified				
02214	DRO C12-C24 w/Si Gel	n.a.	130	4.1	1
02214	HRO C24-C40 w/Si Gel	n.a.	31	14	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	26.7	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	R093081AA	11/04/2009 19:00	Nicholas R Rossi	67.72
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 21:59	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 21:59	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 22:00	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09313A31A	11/09/2009 19:53	Elizabeth J Marin	1322.21
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 22:01	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090002A	11/06/2009 23:24	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090002A	11/05/2009 14:30	Doreen K Robles	1
00111	Moisture	SM20 2540 G	1	09308820002A	11/04/2009 10:10	William C Schwebel	1

Sample Description: SB-18-13 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821958
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 12:45 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1813

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
07360	Benzene	71-43-2	0.035	0.0006	0.93
07360	Ethylbenzene	100-41-4	0.042	0.001	0.93
07360	Toluene	108-88-3	0.002	0.001	0.93
07360	Xylene (Total)	1330-20-7	0.003	0.001	0.93
GC Volatiles					
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx n.a.	mg/kg 2.2	mg/kg 1.5	29.05
GC Extractable TPH w/Si Gel					
02214	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified n.a.	mg/kg 13	mg/kg 3.9	1
02214	HRO C24-C40 w/Si Gel	n.a.	N.D.	13	1
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 22.9	% 0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	B093081AA	11/04/2009 05:18	Kathrine K Muramatsu	0.93
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 22:02	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 22:03	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 22:04	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09313A31A	11/09/2009 14:25	Elizabeth J Marin	29.05
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 22:05	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090002A	11/06/2009 23:45	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090002A	11/05/2009 14:30	Doreen K Robles	1
00111	Moisture	SM20 2540 G	1	09308820002A	11/04/2009 10:10	William C Schwebel	1

Sample Description: SB-17-12 Grab Soil Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # SW 5821959
 LLI Group # 1168842
 WA

Project Name: 206196

Collected: 10/29/2009 13:30 by AL

Account Number: 11255

Submitted: 10/30/2009 09:25

Chevron

Reported: 11/17/2009 at 13:04

6001 Bollinger Canyon Rd L4310

Discard: 12/18/2009

San Ramon CA 94583

P1712

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
07360	Benzene	71-43-2	0.059	0.0007	1.07
07360	Ethylbenzene	100-41-4	0.041	0.001	1.07
07360	Toluene	108-88-3	0.002	0.001	1.07
07360	Xylene (Total)	1330-20-7	0.012	0.001	1.07
GC	Volatiles	ECY 97-602 NWTPH-Gx	mg/kg	mg/kg	
02005	TPH by NWTPH-Gx soils	n.a.	110	6.3	118.86
GC	Extractable TPH	ECY 97-602 NWTPH-Dx	mg/kg	mg/kg	
	w/Si Gel	modified			
02214	DRO C12-C24 w/Si Gel	n.a.	58	4.0	1
02214	HRO C24-C40 w/Si Gel	n.a.	65	13	1
Wet Chemistry	SM20 2540 G		%	%	
00111	Moisture	n.a.	24.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07360	BTEX+MTBE by 8260B	SW-846 8260B	1	B093081AA	11/04/2009 05:41	Kathrine K Muramatsu	1.07
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 22:06	Justin M Bowers	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	200930319674	10/30/2009 22:07	Justin M Bowers	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	200930319674	10/30/2009 22:08	Justin M Bowers	n.a.
02005	NWTPH-Gx soil C7-C12	ECY 97-602 NWTPH-Gx	1	09313A31A	11/09/2009 18:40	Elizabeth J Marin	118.86
01150	GC - Bulk Soil Prep	SW-846 5030A	1	200930319674	10/30/2009 22:10	Justin M Bowers	n.a.
02214	NWTPH-Dx soil w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093090002A	11/07/2009 00:26	Diane V Do	1
07024	DRO Alternate Soil Extraction	ECY 97-602 NWTPH-Dx 06/97	1	093090002A	11/05/2009 14:30	Doreen K Robles	1
00111	Moisture	SM20 2540 G	1	09308820002A	11/04/2009 10:10	William C Schwebel	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B093081AA	Sample number(s): 5821949, 5821953, 5821956, 5821958-5821959							
Benzene	N.D.	0.0005	mg/kg	93	95	80-120	1	30
Ethylbenzene	N.D.	0.001	mg/kg	89	91	80-120	2	30
Toluene	N.D.	0.001	mg/kg	89	90	80-120	1	30
Xylene (Total)	N.D.	0.001	mg/kg	89	89	80-120	1	30
Batch number: Q093101AA	Sample number(s): 5821913-5821915, 5821917, 5821919, 5821924-5821925, 5821928-5821929, 5821934, 5821937-5821938							
Benzene	N.D.	0.025	mg/kg	99	86	80-120	14	30
Ethylbenzene	N.D.	0.050	mg/kg	100	85	80-120	16	30
Toluene	N.D.	0.050	mg/kg	100	86	80-120	14	30
Xylene (Total)	N.D.	0.050	mg/kg	101	87	80-120	15	30
Batch number: Q093111AA	Sample number(s): 5821920, 5821923, 5821926, 5821928, 5821930, 5821939, 5821945							
Benzene	N.D.	0.025	mg/kg	99	98	80-120	1	30
Ethylbenzene	N.D.	0.050	mg/kg	99	97	80-120	2	30
Toluene	N.D.	0.050	mg/kg	99	98	80-120	1	30
Xylene (Total)	N.D.	0.050	mg/kg	101	98	80-120	3	30
Batch number: Q093131AA	Sample number(s): 5821916, 5821920, 5821922-5821923, 5821927, 5821942							
Benzene	N.D.	0.025	mg/kg	99	98	80-120	1	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	99	98	80-120	1	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	95	94	71-129	1	30
Ethylbenzene	N.D.	0.050	mg/kg	98	97	80-120	1	30
n-Hexane	N.D.	0.050	mg/kg	83	84	48-126	2	30
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	96	95	74-121	1	30
Toluene	N.D.	0.050	mg/kg	98	96	80-120	2	30
Xylene (Total)	N.D.	0.050	mg/kg	100	98	80-120	2	30
Batch number: R093071AA	Sample number(s): 5821952							
Ethylbenzene	N.D.	0.050	mg/kg	90		80-120		
Xylene (Total)	N.D.	0.050	mg/kg	91		80-120		
Batch number: R093081AA	Sample number(s): 5821950, 5821952, 5821954-5821955, 5821957							
Benzene	N.D.	0.025	mg/kg	95	96	80-120	1	30
Ethylbenzene	N.D.	0.050	mg/kg	91	93	80-120	2	30
Toluene	N.D.	0.050	mg/kg	93	94	80-120	2	30
Xylene (Total)	N.D.	0.050	mg/kg	92	94	80-120	2	30
Batch number: R093092AA	Sample number(s): 5821956							
Ethylbenzene	N.D.	0.050	mg/kg	91	91	80-120	0	30
Batch number: X093102AA	Sample number(s): 5821916, 5821918							
Benzene	N.D.	0.0005	mg/kg	98	100	80-120	2	30
Ethylbenzene	N.D.	0.001	mg/kg	98	100	80-120	3	30
Toluene	N.D.	0.001	mg/kg	99	101	80-120	2	30
Xylene (Total)	N.D.	0.001	mg/kg	96	101	80-120	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1168842

Reported: 11/17/09 at 01:04 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: X093121AA	Sample number(s): 5821931, 5821933, 5821935, 5821943-5821944, 5821946							
Benzene	N.D.	0.0005	mg/kg	103		80-120		
Ethylbenzene	N.D.	0.001	mg/kg	105		80-120		
Toluene	N.D.	0.001	mg/kg	106		80-120		
Xylene (Total)	N.D.	0.001	mg/kg	105		80-120		
Batch number: X093131AA	Sample number(s): 5821921, 5821932, 5821936, 5821940-5821941, 5821947-5821948, 5821951							
Benzene	N.D.	0.0005	mg/kg	108	103	80-120	5	30
Ethylbenzene	N.D.	0.001	mg/kg	103	99	80-120	4	30
Toluene	N.D.	0.001	mg/kg	105	101	80-120	4	30
Xylene (Total)	N.D.	0.001	mg/kg	103	100	80-120	3	30
Batch number: 09307SLE026	Sample number(s): 5821920, 5821922-5821923, 5821927, 5821930							
Benzo(a)anthracene	N.D.	0.00067	mg/kg	83		74-112		
Benzo(a)pyrene	N.D.	0.00067	mg/kg	87		70-109		
Benzo(b)fluoranthene	N.D.	0.00067	mg/kg	106		50-162		
Benzo(k)fluoranthene	N.D.	0.00067	mg/kg	102		47-158		
Chrysene	N.D.	0.00033	mg/kg	84		79-111		
Dibenz(a,h)anthracene	N.D.	0.00067	mg/kg	99		49-140		
Indeno(1,2,3-cd)pyrene	N.D.	0.00067	mg/kg	101		47-140		
1-Methylnaphthalene	N.D.	0.00067	mg/kg	81		72-114		
2-Methylnaphthalene	N.D.	0.00067	mg/kg	104		62-115		
Naphthalene	N.D.	0.00067	mg/kg	81		67-105		
Batch number: 09308A31A	Sample number(s): 5821913-5821915, 5821917-5821920, 5821924-5821925, 5821928, 5821930							
TPH by NWTPH-Gx soils	N.D.	1.0	mg/kg	100	92	67-119	7	30
Batch number: 09308A31B	Sample number(s): 5821916, 5821921-5821923, 5821926-5821927, 5821929, 5821931							
TPH by NWTPH-Gx soils	N.D.	1.0	mg/kg	100	92	67-119	7	30
Batch number: 09309A31A	Sample number(s): 5821933-5821951							
TPH by NWTPH-Gx soils	N.D.	1.0	mg/kg	93	98	67-119	5	30
Batch number: 09309A31B	Sample number(s): 5821952							
TPH by NWTPH-Gx soils	N.D.	1.0	mg/kg	93	98	67-119	5	30
Batch number: 09313A31A	Sample number(s): 5821932, 5821953-5821959							
TPH by NWTPH-Gx soils	N.D.	1.0	mg/kg	97	93	67-119	4	30
Batch number: 09313A33A	Sample number(s): 5821922, 5821927							
Benzene	N.D.	0.0500	mg/kg	95	97	70-130	2	50
C5-C6 Aliphatic Hydrocarbons	N.D.	2.50	mg/kg	67*	76	70-130	13	50
C6-C8 Aliphatic Hydrocarbons	N.D.	2.50	mg/kg	81	86	70-130	6	50
C8-C10 Aliphatic Hydrocarbons	N.D.	2.50	mg/kg	82	85	70-130	3	50
C8-C10 Aromatic Hydrocarbons	N.D.	2.50	mg/kg	101	102	70-130	2	50
Ethylbenzene	N.D.	0.0500	mg/kg	98	101	70-130	3	50
Methyl t-butyl ether	N.D.	0.0500	mg/kg	95	97	70-130	2	50
Toluene	N.D.	0.0500	mg/kg	99	100	70-130	2	50
o-Xylene	N.D.	0.0500	mg/kg	97	99	70-130	2	50
m,p-Xylenes	N.D.	0.100	mg/kg	99	101	70-130	2	50
Batch number: 093080015A	Sample number(s): 5821922, 5821927							

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1168842

Reported: 11/17/09 at 01:04 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
>C10 - C12 Aliphatic	N.D.	1.0	mg/kg	84	89	31-137	6	50
>C10 - C12 Aromatic	N.D.	1.0	mg/kg	69	70	22-119	2	50
>C12 - C16 Aliphatic	N.D.	1.0	mg/kg	88	93	42-146	5	50
>C12 - C16 Aromatic	N.D.	1.0	mg/kg	72	79	24-136	9	50
>C16 - C21 Aliphatic	N.D.	3.0	mg/kg	87	87	57-111	0	50
>C16 - C21 Aromatic	N.D.	2.0	mg/kg	83	94	34-143	13	50
>C21 - C34 Aliphatic	1.2	1.0	mg/kg	99	92	50-124	7	50
>C21 - C34 Aromatic	N.D.	2.0	mg/kg	87	97	44-134	10	50
Batch number: 093060027A	Sample number(s): 5821913-5821922							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	89		60-120		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 093070021A	Sample number(s): 5821923-5821932							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	94		60-120		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 093070022A	Sample number(s): 5821933-5821942							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	87		60-120		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 093090002A	Sample number(s): 5821953-5821959							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	100		60-120		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 093090011A	Sample number(s): 5821943-5821952							
DRO C12-C24 w/Si Gel	N.D.	3.0	mg/kg	95		60-120		
HRO C24-C40 w/Si Gel	N.D.	10.	mg/kg					
Batch number: 093065708001	Sample number(s): 5821922							
Zinc	N.D.	0.660	mg/kg	103		90-110		
Batch number: 093065708004	Sample number(s): 5821927							
Zinc	N.D.	0.660	mg/kg	92		90-110		
Batch number: 093066150001A	Sample number(s): 5821922							
Cadmium	N.D.	0.0112	mg/kg	101		90-111		
Chromium	N.D.	0.120	mg/kg	106		81-119		
Lead	N.D.	0.0300	mg/kg	110		78-122		
Nickel	N.D.	0.100	mg/kg	113		79-121		
Batch number: 093066150002A	Sample number(s): 5821927							
Cadmium	N.D.	0.0112	mg/kg	101		90-111		
Chromium	N.D.	0.120	mg/kg	107		81-119		
Lead	N.D.	0.0300	mg/kg	111		78-122		
Nickel	N.D.	0.100	mg/kg	107		79-121		
Batch number: 09307049531B	Sample number(s): 5821933, 5821941							
TOC Solids/Sludges Combustion	N.D.	100.	mg/kg	110		34-144		
Batch number: 09307820005A	Sample number(s): 5821913-5821922							
Moisture				100		99-101		
Batch number: 09307820005B	Sample number(s): 5821923-5821932							
Moisture				100		99-101		

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1168842

Reported: 11/17/09 at 01:04 PM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 09308820001A Moisture	Sample number(s): 5821933-5821949			100		99-101		
Batch number: 09308820001B Moisture	Sample number(s): 5821950-5821952			100		99-101		
Batch number: 09308820002A Moisture	Sample number(s): 5821953-5821959			100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B093081AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number(s): 5821949,5821953,5821956,5821958-5821959 UNSPK: P822734								
	98		55-143						
	93		44-141						
	95		50-146						
	91		44-136						
Batch number: R093071AA Ethylbenzene Xylene (Total)	Sample number(s): 5821952 UNSPK: P821031								
	67	73	44-141	20	30				
	48	56	44-136	19	30				
Batch number: X093102AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number(s): 5821916,5821918 UNSPK: P821218								
	116		55-143						
	118		44-141						
	124		50-146						
	115		44-136						
Batch number: X093121AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number(s): 5821931,5821933,5821935,5821943-5821944,5821946 UNSPK: P822628								
	111	108	55-143	2	30				
	117	113	44-141	2	30				
	114	111	50-146	1	30				
	114	111	44-136	1	30				
Batch number: X093131AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number(s): 5821921,5821932,5821936,5821940-5821941,5821947-5821948,5821951 UNSPK: P822625								
	116		55-143						
	109		44-141						
	118		50-146						
	107		44-136						
Batch number: 09307SLE026 Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (k) fluoranthene Chrysene	Sample number(s): 5821920,5821922-5821923,5821927,5821930 UNSPK: P820313								
	98	96	39-144	2	30				
	99	82	34-156	20	30				
	105	115	43-155	9	30				
	107	113	49-145	5	30				
	100	102	29-156	2	30				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenz (a, h) anthracene	109	116	10-157	6	30				
Indeno (1, 2, 3-cd) pyrene	114	120	10-164	5	30				
1-Methylnaphthalene	67*	100	72-123	40*	30				
2-Methylnaphthalene	148*	124	49-134	18	30				
Naphthalene	127	148*	27-145	15	30				
Batch number: 093080015A Sample number(s): 5821922, 5821927 BKG: 5821922									
>C10 - C12 Aliphatic					88	89	2	25	
>C10 - C12 Aromatic					9.0	11	16 (1)	25	
>C12 - C16 Aliphatic					220	230	7	25	
>C12 - C16 Aromatic					29	34	16	25	
>C16 - C21 Aliphatic					140	140	0	25	
>C16 - C21 Aromatic					44	52	17	25	
>C21 - C34 Aliphatic					23	28	20 (1)	25	
>C21 - C34 Aromatic					4.1	6.4	43* (1)	25	
Batch number: 093060027A Sample number(s): 5821913-5821922 BKG: 5821913									
DRO C12-C24 w/Si Gel					120	110	3	20	
HRO C24-C40 w/Si Gel					43	42	2 (1)	20	
Batch number: 093070021A Sample number(s): 5821923-5821932 BKG: 5821923									
DRO C12-C24 w/Si Gel					1,800	1,500	18 (1)	20	
HRO C24-C40 w/Si Gel					N.D.	N.D.	0 (1)	20	
Batch number: 093070022A Sample number(s): 5821933-5821942 BKG: 5821933									
DRO C12-C24 w/Si Gel					42	28	41* (1)	20	
HRO C24-C40 w/Si Gel					46	38	20 (1)	20	
Batch number: 093090002A Sample number(s): 5821953-5821959 BKG: 5821953									
DRO C12-C24 w/Si Gel					N.D.	N.D.	0 (1)	20	
HRO C24-C40 w/Si Gel					N.D.	N.D.	0 (1)	20	
Batch number: 093090011A Sample number(s): 5821943-5821952 BKG: 5821943									
DRO C12-C24 w/Si Gel					N.D.	N.D.	0 (1)	20	
HRO C24-C40 w/Si Gel					N.D.	N.D.	0 (1)	20	
Batch number: 093065708001 Sample number(s): 5821922 UNSPK: P821717 BKG: P821717									
Zinc	108	106	75-125	1	20	66.1	65.6	1	20
Batch number: 093065708004 Sample number(s): 5821927 UNSPK: P823026 BKG: P823026									
Zinc	96	100	75-125	2	20	69.8	139	66*	20
Batch number: 093066150001A Sample number(s): 5821922 UNSPK: P821717 BKG: P821717									
Cadmium	114	107	75-125	6	20	0.372	0.410	10 (1)	20
Chromium	117	108	75-125	6	20	18.2	18.4	1	20
Lead	562 (2)	-46 (2)	75-125	50*	20	143	154	7	20
Nickel	113	106	75-125	5	20	19.6	20.3	3	20
Batch number: 093066150002A Sample number(s): 5821927 UNSPK: P823026 BKG: P823026									
Cadmium	110	103	75-125	6	20	0.433	0.370	16 (1)	20
Chromium	106	105	75-125	1	20	23.3	21.0	10	20
Lead	103	104	75-125	0	20	13.1	12.3	6	20
Nickel	101	100	75-125	1	20	24.9	23.2	7	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1168842

Reported: 11/17/09 at 01:04 PM

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 09307049531B TOC Solids/Sludges Combustion	82		Sample number(s): 5821933, 5821941 42-126		UNSPK: P821325	BKG: P821325 8,840	12,900	37*	15
Batch number: 09307820005A Moisture			Sample number(s): 5821913-5821922		BKG: 5821921 25.3		24.5	3	15
Batch number: 09307820005B Moisture			Sample number(s): 5821923-5821932		BKG: 5821929 17.3		15.6	11	15
Batch number: 09308820001A Moisture			Sample number(s): 5821933-5821949		BKG: 5821949 26.4		27.4	4	15
Batch number: 09308820001B Moisture			Sample number(s): 5821950-5821952		BKG: 5821950 20.8		21.4	3	15
Batch number: 09308820002A Moisture			Sample number(s): 5821953-5821959		BKG: 5821959 24.8		25.3	2	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX+MTBE by 8260B

Batch number: B093081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821949	97	98	103	103
5821953	97	96	103	89
5821956	92	90	110	105
5821958	99	103	102	96
5821959	101	102	98	100
Blank	101	101	99	88
LCS	101	102	101	94
LCS D	101	100	100	92
MS	101	101	103	90
Limits:	71-114	70-109	70-123	70-111

Analysis Name: BTEX+MTBE by 8260B

Batch number: Q093101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821913	76	79	77	84
5821914	75	77	75	81
5821915	77	79	76	85
5821917	72	74	109	96
5821919	70*	71	106	81
5821924	84	88	91	93

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

5821925	72	74	140*	79
5821929	80	83	83	85
5821934	74	76	113	96
5821937	72	73	82	84
5821938	80	83	79	71
Blank	92	96	94	93
LCS	97	97	98	99
LCSD	87	88	86	86
<hr/>				
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: BTEX+MTBE by 8260B
 Batch number: Q093111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821926	69*	71	71	78
5821928	71	75	159*	83
5821930	72	72	73	105
5821939	71	73	74	77
5821945	78	80	80	83
Blank	90	94	92	93
LCS	97	98	97	97
LCSD	99	100	97	96
<hr/>				
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: BTEX+5 Oxygenates+EDC+EDB
 Batch number: Q093131AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821920	138*	142*	180*	186*
5821922	76	77	97	104
5821923	76	80	71	83
5821927	80	80	86	89
5821942	75	77	97	83
Blank	89	94	89	89
LCS	98	102	96	97
LCSD	99	102	96	97
<hr/>				
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: BTEX+MTBE by 8260B
 Batch number: R093071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821952	68*	71	81	111
Blank	95	97	91	89
LCS	91	91	86	87
MS	63*	64*	58*	58*
MSD	67*	68*	62*	63*
<hr/>				
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: BTEX+MTBE by 8260B
 Batch number: R093081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821950	78	82	107	105

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

5821952	92	79	110	111
5821954	79	80	79	82
5821955	85	86	91	102
5821957	77	80	99	87
Blank	91	93	88	85
LCS	100	102	94	95
LCSD	102	106	97	96
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: 8260 Master Scan (soil)
 Batch number: R093092AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	103	104	95	93
LCS	104	107	94	95
LCSD	105	110*	95	95

Limits:	71-114	70-109	70-123	70-111
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 Analysis Name: BTEX+MTBE by 8260B
 Batch number: X093102AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821916	87	85	92	87
5821918	87	87	113	76
Blank	92	85	83	80
LCS	89	87	91	83
LCSD	88	86	92	84
MS	89	91	94	77

Limits:	71-114	70-109	70-123	70-111
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 Analysis Name: BTEX+MTBE by 8260B
 Batch number: X093121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821931	89	84	94	75
5821933	99	91	94	67*
5821935	91	87	87	76
5821943	88	81	93	76
5821944	90	92	84	84
5821946	90	90	119	86
Blank	93	86	84	80
LCS	88	87	91	84
MS	91	89	97	74
MSD	91	90	98	73

Limits:	71-114	70-109	70-123	70-111
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 Analysis Name: BTEX+MTBE by 8260B
 Batch number: X093131AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5821921	88	85	111	83
5821932	91	95	84	82
5821936	89	87	96	86
5821940	91	90	84	82

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

5821941	89	88	87	78
5821947	89	88	86	80
5821948	90	87	87	79
5821951	89	88	87	85
Blank	92	86	85	83
LCS	91	87	91	83
LCSD	88	85	91	83
MS	89	94	94	74
Limits:	71-114	70-109	70-123	70-111

 Analysis Name: PAHs in soils by SIM
 Batch number: 09307SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5821920	115	91	87
5821922	778*	93	91
5821923	3879*	75	105
5821927	306*	95	95
5821930	1308*	91	105
Blank	106	91	99
LCS	94	79	83
MS	119	90	86
MSD	116	95	90
Limits:	53-152	63-129	51-141

 Analysis Name: NWTPH-Gx soil C7-C12
 Batch number: 09308A31A

	Trifluorotoluene-F
5821913	0*
5821914	3*
5821915	3*
5821917	8*
5821918	42*
5821919	0*
5821920	0*
5821924	2*
5821925	14*
5821928	5*
5821930	6*
Blank	79
LCS	90
LCSD	82
Limits:	61-122

 Analysis Name: NWTPH-Gx soil C7-C12
 Batch number: 09308A31B

	Trifluorotoluene-F
5821916	114
5821921	122
5821922	15*
5821923	10*
5821926	15*
5821927	8*

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

5821929	27*
5821931	107
Blank	81
LCS	90
LCSD	82

Limits: 61-122

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 09309A31A
Trifluorotoluene-F

5821933	119
5821934	28*
5821935	74
5821936	120
5821937	23*
5821938	15*
5821939	7*
5821940	112
5821941	77
5821942	15*
5821943	72
5821944	30*
5821945	10*
5821946	40*
5821947	67
5821948	75
5821949	42*
5821950	7*
5821951	9*
Blank	79
LCS	84
LCSD	88

Limits: 61-122

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 09309A31B
Trifluorotoluene-F

5821952	8*
Blank	69
LCS	84
LCSD	88

Limits: 61-122

Analysis Name: NWTPH-Gx soil C7-C12
Batch number: 09313A31A
Trifluorotoluene-F

5821932	74
5821953	79
5821954	323*
5821955	354*
5821956	78
5821957	797*

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

5821958	74
5821959	76
Blank	75
LCS	88
LCSD	82

Limits: 61-122

Analysis Name: WA- VPH soils

Batch number: 09313A33A

Trifluorotoluene-P

Trifluorotoluene-F

5821922	2410*	3716*
5821927	2635*	4668*
Blank	80	80
LCS	99	99
LCSD	103	103

Limits: 60-140

60-140

Analysis Name: NWTPH-Dx soil w/Si Gel

Batch number: 093060027A

Orthoterphenyl

5821913	123
5821914	126
5821915	103
5821916	91
5821917	87
5821918	99
5821919	253*
5821920	127
5821921	102
5821922	141
Blank	90
DUP	115
LCS	119

Limits: 50-150

Analysis Name: NWTPH-Dx soil w/Si Gel

Batch number: 093070021A

Orthoterphenyl

5821923	193*
5821924	109
5821925	114
5821926	106
5821927	93
5821928	99
5821929	74
5821930	165*
5821931	93
5821932	105
Blank	110
DUP	183*
LCS	123

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

5821958	74
5821959	76
Blank	75
LCS	88
LCSD	82

Limits: 61-122

Analysis Name: WA- VPH soils

Batch number: 09313A33A

Trifluorotoluene-P

Trifluorotoluene-F

5821922	2410*	3716*
5821927	2635*	4668*
Blank	80	80
LCS	99	99
LCSD	103	103

Limits: 60-140

60-140

Analysis Name: NWTPH-Dx soil w/Si Gel

Batch number: 093060027A

Orthoterphenyl

5821913	123
5821914	126
5821915	103
5821916	91
5821917	87
5821918	99
5821919	253*
5821920	127
5821921	102
5821922	141
Blank	90
DUP	115
LCS	119

Limits: 50-150

Analysis Name: NWTPH-Dx soil w/Si Gel

Batch number: 093070021A

Orthoterphenyl

5821923	193*
5821924	109
5821925	114
5821926	106
5821927	93
5821928	99
5821929	74
5821930	165*
5821931	93
5821932	105
Blank	110
DUP	183*
LCS	123

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

Limits: 50-150

Analysis Name: NWTTPH-Dx soil w/Si Gel
Batch number: 093070022A
Orthoterphenyl

5821933	129
5821934	112
5821935	103
5821936	102
5821937	103
5821938	128
5821939	86
5821940	102
5821941	93
5821942	80
Blank	106
DUP	117
LCS	117

Limits: 50-150

Analysis Name: WA EPH in Soil
Batch number: 093080015A
Orthoterphenyl

5821922	82
5821927	81
Blank	75
DUP	83
LCS	78
LCSD	87

1-chlorooctadecane

73
83
67
74
77
73

Limits: 30-127

33-122

Analysis Name: NWTTPH-Dx soil w/Si Gel
Batch number: 093090002A
Orthoterphenyl

5821953	109
5821954	124
5821955	370*
5821956	118
5821957	121
5821958	120
5821959	122
Blank	115
DUP	112
LCS	132

Limits: 50-150

Analysis Name: NWTTPH-Dx soil w/Si Gel
Batch number: 093090011A
Orthoterphenyl

5821943	114
5821944	109

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/17/09 at 01:04 PM

Group Number: 1168842

Surrogate Quality Control

5821945	167*
5821946	126
5821947	117
5821948	110
5821949	113
5821950	166*
5821951	108
5821952	261*
Blank	112
DUP	117
LCS	127

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Act. #: W255 For Lancaster Laboratories use only
 Sample #: 5821913-59

221040

SCR#:

WBS-NWRTB-0200196-LAB

C# 1168842

Facility #: <u>206196</u> Site Address: <u>815 NE Collega Street Pullman, WA</u> Chevron PM: <u>D. Carrier</u> Lead Consultant: <u>SAIL</u> Consultant/Office: <u>Burien, WA</u> Consultant Prj. Mgr.: <u>Don Wyll</u> Consultant Phone #: <u>425-482-3215</u> Fax #: <u>425-485-5566</u> Sampler: <u>A Lembrick C Wildt</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested Preservation Codes BTEX + MTBE <input checked="" type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth 8260 full scan <input checked="" type="checkbox"/> Meth 5 Organics <input checked="" type="checkbox"/> PAHs 8270.0 NW TPH G Extended Ring <input checked="" type="checkbox"/> Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method VPHEPH NWTPH HClID <input type="checkbox"/> quantification Tox EPA 306A Mod BTEX only (8260) Moisture										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> Value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits								
Sample Identification			Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE <input checked="" type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth 8260 full scan <input checked="" type="checkbox"/> Meth 5 Organics <input checked="" type="checkbox"/> PAHs 8270.0 NW TPH G Extended Ring <input checked="" type="checkbox"/> Silica Gel Cleanup Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method VPHEPH NWTPH HClID <input type="checkbox"/> quantification Tox EPA 306A Mod BTEX only (8260) Moisture										Comments / Remarks	
SB-1-8			10-27-09	1110	X		X				6	X	X	X	X	X	X	X	X	Please Email analytical results to Ruth Ottemann at: ottemann@sail.com In addition to Consultant project manager			
SB-1-10			10-27-09	1120	X		X				6	X	X	X	X	X	X	X	X				
SB-2-9			10-27-09	1200	X		X				6	X	X	X	X	X	X	X	X				
SB-7-12			10-27-09	1230	X		X				6	X	X	X	X	X	X	X	X				
SB-9-13			10-27-09	1310	X		X				6	X	X	X	X	X	X	X	X				
SB-9-15			10-27-09	1320	X		X				6	X	X	X	X	X	X	X	X				
SB-3-4			10-27-09	1430	X		X				6	X	X	X	X	X	X	X	X				
SB-3-9			10-27-09	1435	X		X				7	X	X	X	X	X	X	X	X				
SB-3-14			10-27-09	1450	X		X				6	X	X	X	X	X	X	X	X				
SB-13-8			10-27-09	1440	X		X				8	X	X	X	X	X	X	X	X				
SB-11-4			10-27-09	1540	X		X				7	X	X	X	X	X	X	X	X				
SB-11-11			10-27-09	1600	X		X				6	X	X	X	X	X	X	X	X				
SB-4-8			10-27-09	1615	X		X				6	X	X	X	X	X	X	X	X				
Turnaround Time Requested (TAT) (please circle) <input checked="" type="checkbox"/> STD. TAT 72 hour 48 hour 24 hour 4 day 5 day			Relinquished by: <u>[Signature]</u> Date: <u>10/27/09</u> Time: <u>1500</u>				Received by: _____ Date: _____ Time: _____		Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____												
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other: _____			Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____		Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: <u>10/28/09</u> Time: <u>925</u>												
Temperature Upon Receipt: <u>21-27°C</u>			Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____		Custody/Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 11255 Sample #: 5821913-59 SCR#: 221035
221035
82708

WBS-NWRTB-0205196-LAB

C# 1168842

Facility #: <u>20-619K</u> Site Address: <u>815 NE College Street, Pullman, WA</u> Chevron PM: <u>D Carrier</u> Lead Consultant: <u>SAIC</u> Consultant/Office: <u>Bothell, WA</u> Consultant Prj. Mgr.: <u>Don Wyll</u> Consultant Phone #: <u>425-482-3315</u> Fax #: <u>425-485-5566</u> Sampler: <u>A Lembrick, CW Ltd</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			Analyses Requested Matrix: _____ Preservation Codes: _____ Preservative Codes: _____																																																																																																																																																																																																																																																																																																																																																																
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Date Collected Time Collected	Grab Composite	Soil Water Oil Air	BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth <input checked="" type="checkbox"/> 8260 full scan Meth <input checked="" type="checkbox"/> Organics - C-PAHs <input checked="" type="checkbox"/> 8270 <input checked="" type="checkbox"/> MW TPH G <input checked="" type="checkbox"/> MW TPH D <input checked="" type="checkbox"/> Extended Rng <input checked="" type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/> VP/IEPH <input type="checkbox"/> NWT/PH/HCID <input type="checkbox"/> quantification <input type="checkbox"/> TOC - EPA 9060A Mod <input checked="" type="checkbox"/> BTEX only (8260) <input checked="" type="checkbox"/> Musture <input checked="" type="checkbox"/>	Preservative Codes: H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy s on highest hit <input type="checkbox"/> Run _____ oxy s on all hits																																																																																																																																																																																																																																																																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Sample Identification</th> <th style="width: 10%;">Date Collected</th> <th style="width: 10%;">Time Collected</th> <th style="width: 10%;">Grab</th> <th style="width: 10%;">Composite</th> <th style="width: 10%;">Soil</th> <th style="width: 10%;">Water</th> <th style="width: 10%;">Oil</th> <th style="width: 10%;">Air</th> <th style="width: 10%;">Total Number of Containers</th> <th style="width: 10%;">BTEX + MTBE 8021</th> <th style="width: 10%;">8260 full scan Meth</th> <th style="width: 10%;">Organics - C-PAHs</th> <th style="width: 10%;">8270</th> <th style="width: 10%;">MW TPH G</th> <th style="width: 10%;">MW TPH D</th> <th style="width: 10%;">Lead Total</th> <th style="width: 10%;">Diss.</th> <th style="width: 10%;">Method</th> <th style="width: 10%;">VP/IEPH</th> <th style="width: 10%;">NWT/PH/HCID</th> <th style="width: 10%;">quantification</th> <th style="width: 10%;">TOC - EPA 9060A Mod</th> <th style="width: 10%;">BTEX only (8260)</th> <th style="width: 10%;">Musture</th> </tr> </thead> <tbody> <tr> <td>SB-5-4.5 8</td> <td>10-27-09</td> <td>1630</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>6</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SB-5-4.5</td> <td>10-27-09</td> <td>1640</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>6</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>SB-6-7</td> <td>10-27-09</td> <td>1700</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>6</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> 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Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 full scan Meth	Organics - C-PAHs	8270	MW TPH G	MW TPH D	Lead Total	Diss.	Method	VP/IEPH	NWT/PH/HCID	quantification	TOC - EPA 9060A Mod	BTEX only (8260)	Musture	SB-5-4.5 8	10-27-09	1630	X		X				6	X	X	X	X	X	X							X	X	X	SB-5-4.5	10-27-09	1640	X		X				6	X	X	X	X	X	X							X	X	X	SB-6-7	10-27-09	1700	X		X				6	X	X	X	X	X	X							X	X	X	SB-5-11	10-28-09	1000	X		X				6	X	X	X	X	X	X							X	X	X	MW-21-6	10-28-09	1030	X		X				7	X	X	X	X	X	X							X	X	X	SB-6-15	10-28-09	1045	X		X				6	X	X	X	X	X	X							X	X	X	SB-8-14	10-28-09	1115	X		X				6	X	X	X	X	X	X							X	X	X	MW-22-6	10-28-09	1145	X		X				7	X	X	X	X	X	X							X	X	X	SB-4-10	10-28-09	1310	X		X				6	X	X	X	X	X	X							X	X	X	SB-4-14	10-28-09	1320	X		X				6	X	X	X	X	X	X							X	X	X	SB-13-13	10-28-09	1405/1315	X		X				6	X	X	X	X	X	X							X	X	X	MW-23-6	10-28-09	1405/1410	X		X				6	X	X	X	X	X	X							X	X	X	SB-15-2	10-28-09	1230	X		X				6	X	X	X	X	X	X							X	X	X	Comments / Remarks Please Email analytical results to Ruth.stern@chevron.com in addition to consultant project manager		
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 full scan Meth	Organics - C-PAHs	8270	MW TPH G	MW TPH D	Lead Total	Diss.	Method	VP/IEPH	NWT/PH/HCID	quantification	TOC - EPA 9060A Mod	BTEX only (8260)	Musture																																																																																																																																																																																																																																																																																																																																											
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Turnaround Time Requested (TAT) (please circle) STD. TAT <u>24 hour</u> 72 hour 48 hour 4 day 5 day			Relinquished by: <u>[Signature]</u> Date: <u>10-27-09</u> Time: <u>1410</u> Relinquished by: <u>[Signature]</u> Date: <u>10-27-09</u> Time: <u>1500</u>		Received by: <u>[Signature]</u> Date: <u>10-28-09</u> Time: <u>1500</u>																																																																																																																																																																																																																																																																																																																																																														
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other: _____			Relinquished by: _____ Date: _____ Time: _____ Relinquished by Commercial Carrier: _____ UPS FedEx Other: _____ Temperature Upon Receipt <u>21-27</u> °C		Received by: <u>[Signature]</u> Date: <u>10/28/09</u> Time: <u>925</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																																																																																																																																																																																																																																																														

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

December 18, 2009

Project: 206196

Samples arrived at the laboratory on Wednesday, December 09, 2009. The PO# for this group is 0015039577 and the release number is CARRIER. The group number for this submittal is 1174359.

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-21 Grab Water Sample	5858928
MW-22 Grab Water Sample	5858929
MW-23 Grab Water Sample	5858930
Trip_Blank(TB-1) Water Sample	5858931

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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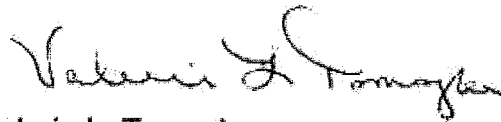
Attn: Don Wyll

Attn: Mike Lange

Attn: Alisa Wells

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Sample Description: MW-21 Grab Water Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # WW 5858928
 LLI Group # 1174359
 WA

Project Name: 206196

Collected: 12/08/2009 14:45 by AL

Account Number: 11255

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/18/2009 at 10:17

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2010

San Ramon CA 94583

PUL21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTGP-Gx n.a.	ug/l 3,100	ug/l 250	5
GC Volatiles					
05879	Benzene	SW-846 8021B 71-43-2	ug/l 240	ug/l 2.5	5
05879	Ethylbenzene	100-41-4	150	2.5	5
05879	Toluene	108-88-3	18	2.5	5
05879	Total Xylenes	1330-20-7	110	7.5	5
GC Extractable TPH w/Si Gel					
02211	DRO C12-C24 w/Si Gel	ECY 97-602 NWTGP-Dx modified n.a.	ug/l 1,400	ug/l 29	1
02211	HRO C24-C40 w/Si Gel	n.a.	380	67	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTGP-Gx	1	09349A53A	12/16/2009 05:52	Elizabeth J Marin	5
05879	BTEX	SW-846 8021B	1	09349A53A	12/16/2009 05:52	Elizabeth J Marin	5
01146	GC VOA Water Prep	SW-846 5030B	1	09349A53A	12/16/2009 05:52	Elizabeth J Marin	5
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTGP-Dx modified	1	093460006A	12/14/2009 17:42	Robert Brown	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTGP-Dx 06/97	2	093460006A	12/12/2009 13:00	Olivia Arosemena	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-22 Grab Water Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # WW 5858929
 LLI Group # 1174359
 WA

Project Name: 206196

Collected: 12/08/2009 15:00 by AL

Account Number: 11255

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/18/2009 at 10:17

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2010

San Ramon CA 94583

PUL22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	3,200	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
05879	Benzene	71-43-2	470	5.0	10
05879	Ethylbenzene	100-41-4	200	5.0	10
05879	Toluene	108-88-3	23	5.0	10
05879	Total Xylenes	1330-20-7	23	15	10
GC Extractable TPH w/Si Gel					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	32	1
02211	HRO C24-C40 w/Si Gel	n.a.	410	74	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09349A53A	12/16/2009 10:31	Elizabeth J Marin	1
05879	BTEX	SW-846 8021B	1	09349A53A	12/16/2009 07:29	Elizabeth J Marin	10
01146	GC VOA Water Prep	SW-846 5030B	1	09349A53A	12/16/2009 07:29	Elizabeth J Marin	10
01146	GC VOA Water Prep	SW-846 5030B	2	09349A53A	12/16/2009 10:31	Elizabeth J Marin	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	093460006A	12/14/2009 18:02	Robert Brown	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	093460006A	12/12/2009 13:00	Olivia Arosemena	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-23 Grab Water Sample
Facility# 206196
815 NE College Street - Pullman, WA

LLI Sample # WW 5858930
LLI Group # 1174359
WA

Project Name: 206196

Collected: 12/08/2009 15:15 by AL

Account Number: 11255

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/18/2009 at 10:17

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2010

San Ramon CA 94583

PUL23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTTPH-Gx		ug/l	ug/l	
08274	NWTTPH-Gx water C7-C12	n.a.	7,900	500	10
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
05879	Benzene	71-43-2	660	5.0	10
05879	Ethylbenzene	100-41-4	1,500	5.0	10
05879	Toluene	108-88-3	78	5.0	10
05879	Total Xylenes	1330-20-7	200	15	10
GC Extractable TPH w/Si Gel					
	ECY 97-602 NWTTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	1,300	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	430	68	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTTPH-Gx water C7-C12	ECY 97-602 NWTTPH-Gx	1	09349A53A	12/16/2009 07:53	Elizabeth J Marin	10
05879	BTEX	SW-846 8021B	1	09349A53A	12/16/2009 07:53	Elizabeth J Marin	10
01146	GC VOA Water Prep	SW-846 5030B	1	09349A53A	12/16/2009 07:53	Elizabeth J Marin	10
02211	NWTTPH-Dx water w/Si Gel	ECY 97-602 NWTTPH-Dx modified	1	093460006A	12/14/2009 18:23	Robert Brown	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTTPH-Dx 06/97	2	093460006A	12/12/2009 13:00	Olivia Arosemena	1

Sample Description: Trip_Blank(TB-1) Water Sample
 Facility# 206196
 815 NE College Street - Pullman, WA

LLI Sample # WW 5858931
LLI Group # 1174359
 WA

Project Name: 206196

Collected: 12/08/2009 15:20

Account Number: 11255

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/18/2009 at 10:17

6001 Bollinger Canyon Rd L4310

Discard: 01/18/2010

San Ramon CA 94583

PULTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09349A53A	12/15/2009 20:59	Elizabeth J Marin	1
05879	BTEX	SW-846 8021B	1	09349A53A	12/15/2009 20:59	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09349A53A	12/15/2009 20:59	Elizabeth J Marin	1

Quality Control Summary

 Client Name: Chevron
 Reported: 12/18/09 at 10:17 AM

Group Number: 1174359

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 09349A53A	Sample number(s): 5858928-5858931							
Benzene	N.D.	0.5	ug/l	110	110	80-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	110	110	80-120	0	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	98	98	75-135	1	30
Toluene	N.D.	0.5	ug/l	110	105	80-120	5	30
Total Xylenes	N.D.	1.5	ug/l	113	110	80-120	3	30
Batch number: 093460006A	Sample number(s): 5858928-5858930							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	85		50-100		
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 09349A53A	Sample number(s): 5858928-5858931 UNSPK: P863415, P863417								
Benzene	105		80-152						
Ethylbenzene	110		80-133						
NWTPH-Gx water C7-C12	91		57-157						
Toluene	105		80-133						
Total Xylenes	110		80-148						
Batch number: 093460006A	Sample number(s): 5858928-5858930 BKG: P857594								
DRO C12-C24 w/Si Gel						7,100	8,000	12	20
HRO C24-C40 w/Si Gel						1,800	2,200	20 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX

Batch number: 09349A53A

	Trifluorotoluene-P	Trifluorotoluene-F
5858928	71	92
5858929	75	170*
5858930	81	98

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 12/18/09 at 10:17 AM

Group Number: 1174359

Surrogate Quality Control

5858931	76	81
Blank	76	83
LCS	76	85
LCSD	78	86
MS	78	87

Limits: 69-129 63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 093460006A
Orthoterphenyl

5858928	131
5858929	117
5858930	113
Blank	97
DUP	102
LCS	117

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

