



November 9, 2016
G-Logics Project Number 01-0410-K

Boeing Field Chevron
c/o Mr. Kurt Peterson
Foster Pepper, PLLC
1111 Third Avenue, Suite 3000
Seattle, WA 98101

**Subject: Findings of the Initial Exploration Effort
and Proposed Additional Explorations
Boeing Field Chevron
10805 East Marginal Way South
Tukwila, WA 98168**

Dear Mr. Peterson:

G-Logics has prepared this memo to briefly summarize the initial findings from the first round of exploration work and our logic for the planned second round of exploration. We have prepared this letter in order to help communicate this new information and to achieve consensus with the regards to the upcoming work. Additionally, this letter has been prepared after a discussion today with Mr. Dale Myers, the Ecology Site Manager. A summary of the initial exploration/investigation efforts are discussed below, followed by a description of the planned efforts.

Monitoring Well and Utility Inspections Reviews

Beginning in September 2016, G-Logics began field activities outlined in the Ecology approved Remedial Investigation Workplan (RI Workplan), dated May 24, 2016 (prepared by Terracon Consultants, Inc.). Specifically, G-Logics inspected all accessible groundwater monitoring, injection, and extraction wells associated with the Boeing Field Chevron Site (Site). Additionally, sanitary sewer and stormdrain lines on the Site were reviewed visually and with a video camera. The video recording of the sewer and stormdrain utilities found

that all viewed drain-lines were intact and uncompromised. For your records, the video footage will be made available (flash drive).

Results of the well inspections are summarized on the attached Table 1. Recommendations for repairs or wells also are included. At this time, G-Logics recommends completing necessary well repairs after it has been determined which wells should be retained for future monitoring. W. The recommendation for delaying the well decommissioning is based on the possible reuse of some wells for the selected remedial action determined with the Feasibility Study.

Tidal Influence Study

On October 12, 2016, water-level transducers were placed in eight wells across the Site, specifically wells IP-3, IP-4, MW-12, MW-13, MW-14, MW-18, MW-19, and MW-21. These specific wells were chosen based on their screened intervals and their location at the Site. The logic for the transducer placement is summarized below.

- Wells IP-4 and MW-18 are understood to be the only wells with screen intervals limited to the upper-groundwater unit. IP-4 is located in the central-western portion of the property, on the east side of Tukwila International Boulevard (TIB) and the utility corridor (located in TIB). MW-18 is located on the west side of TIB, directly west of IP-4. These two locations provided an assessment of the upper groundwater-unit independent of influence from the lower-groundwater unit.
- Wells IP-3, MW-19, and MW-21, are understood to be screened in the lower-groundwater unit. IP-3 is located in the central-western portion of the property, on the east side of TIB and the utility corridor (located in TIB). MW-19 and MW-21 are located on the west side of TIB, west of IP-3. These three locations provided an assessment of the lower-groundwater unit.
- The remaining wells MW-12, 13, and 14 are understood to be screened across both the upper and lower-groundwater units. These wells are generally located in the central and western portion of the property.

The findings of this study indicated tidal fluctuations were minimal to non-existent in wells screened in the upper-groundwater unit (IP-4 and MW-18). Additionally, tidal fluctuations were minimal to non-existent in well MW-12, which is screened across both groundwater units, but is located the furthest away from the Duwamish River (approximately 320 feet from the east shore of the river).

Tidal fluctuations were observed in the remaining locations, specifically wells that were either screened in the lower-groundwater unit or in both upper and lower units. As anticipated, it was observed that the greatest fluctuations occurred in the wells closest to the Duwamish River, specifically wells MW-19 and MW-21. We will provide graphs of this information, including comparison to surfacewater tides, in our forthcoming report.

Initial Soil Exploration

On October 21, 2016, G-Logics began efforts to drill 16 soil borings and install two soil-vapor points. All boring locations were air-knived/vacuumed to a depth of five feet, for protection of possible underground utilities. Soil samples were collected at a depth of three feet using a hand-auger before advancing further, except for borings GLB-1, 2, 3, and 4 (located west of the Property, in the median of TIB).

All borings were completed using direct-push drilling methods. The borings extended to a depth of 25 to 35 feet. During drilling, continuous-core soil samples were collected for soil identification and possible chemical analysis. The borings generally encountered poorly graded (well sorted) sands, except in the utility corridor or previously excavated areas (excavations for UST removal or remedial efforts). The borings also confirmed the presence of the low-permeability (aquitard) soils across the site, which appears to be separating the upper and lower groundwater units (see cross-sections on Figures XA, XB, and XC).

A photoionization detector (PID) was used to screen for volatile organic compounds (VOCs) in collected soil samples, with the results noted on the boring logs. Soil classifications also were noted on the boring logs. Groundwater was encountered during drilling in all borings at depths indicated on the boring logs (generally from a depth of 9 to 12 feet). Boring logs will be provided in a forthcoming report.

All samples collected with this initial effort were delivered to Fremont Analytical. Select soil samples were submitted for rush analysis by NWTPH-Gx and NWTPH-Dx/Dx methods. The selection of samples was determined based on visual observations of the soil conditions and the noted PID readings. Initially, only analysis for gasoline, diesel, and oil-range hydrocarbons were requested, as these were considered to be the primary contaminants at the Site. Supplementary analysis for MTBE, EDB, EDC, BTEX, hexane, and cPAHs then were requested based on the findings of the reported concentrations of gasoline, diesel, or oil-range hydrocarbons.

Results of the analyses are summarized on the attached Table 1. The location of borings and sample results are illustrated on Figure 1, and the preliminary cross-sections XA, XB, and XC. Analytical laboratory reports and Chain-of custody forms can be provided if needed.

Analytical results are briefly summarized below, and are presented in the attached Table 1 (draft).

Petroleum Hydrocarbons

Concentrations of gasoline were reported in soil samples collected from seven borings, specifically, GLB-7, 9, 10, 12, 14, 15 and 16. However, only three samples contained concentrations above Method A cleanup levels. Specifically, a sample from GLB-14, collected a depth of 17 feet, reported a concentration of gasoline at 215 mg/kg. Two samples collected from GLB-15, collected at the depths of 12 and 18 feet, reported concentrations of gasoline at 37.2 and 3,510 mg/kg, respectively (please refer to the Figures and Table). Concentrations of diesel and heavy oil were not detected in any of the analyzed soil samples.

Lead

Lead was not reported above Method A cleanup levels in any of the analyzed samples.

Polynuclear Aromatic Hydrocarbons

Seven soil samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270 (SIM, low-detection). The seven analyzed samples did not contained detectable concentrations of PAHs. The seven analyzed samples were selected based on the detected concentration of gasoline in the initial sample as well as being collected from areas identified for this analysis (approved workplan, Table A-3, Section 2.3).

Volatile Organic Compounds

Eighteen soil samples were analyzed for VOCs by EPA Method 8260C. Analyzed soil samples from GLB-7, 9, 10, 14, 15, and 16 reported concentrations various VOCs above Method A Cleanup Levels, specifically, BTEX and hexane (see Table 1).

Naphthalenes

Eighteen soil samples were analyzed for naphthalene, including 1-methylnaphthalene and 2-methylnaphthalene. Naphthalene and 1-methylnaphthalene exceeded Method A cleanup levels in four of the analyzed samples, collected from two borings, specifically, GLB-7 and GLB-15 (see Table 1). Concentrations of 2-methylnaphthalene were also reported.

Exploration Summary

Information regarding the conducted initial exploration and our conclusions are presented below.

- Completed borings generally encountered sands, silts, separated by a low permeability silt and clay unit.
- Borings completed in the areas of the utility corridor, UST removal, and remedial excavation generally encountered fill soils, including sands and gravels with occasional wood and concrete.
- Two groundwater units are understood to exist, based on the tidal study and the observed/recorded geology in the completed borings.
- The lower-groundwater unit is tidally influenced, with the greatest influence observed in wells located closer to the river. The upper-groundwater unit does not appear to be tidally influenced.
- MTCA Cleanup Levels for gasoline, BTEX, and hexane were exceeded in several analyzed soil samples.
- Naphthalenes and 1-methylnaphthalene exceeded Method A cleanup levels in two borings.
- Lead was not detected at concentrations above cleanup levels.

Planned Borings/Wells

With this collected information, G-Logics is scheduling the second round of exploration at the Site. Our recommendations for the additional borings/wells are shown on the attached Figure 2. The new monitoring wells have been preassigned identifiers of MW-22 through MW-29. Below is a brief discussion of the logic for each boring/well.

Monitoring Wells MW-22 through MW-25

Monitoring wells MW-22 through MW-25 are designed to be placed within the utility corridors to the west of the Property (in TIB). Observing that contaminant concentrations in soil and groundwater exceed cleanup levels to the immediate east of the utility corridor (e.g., EW-2 MW-14), but are not present to the west of the utility corridor (e.g., MW-17, GLB-7), contaminants therefore may be migrating along the corridor (via groundwater flow through more permeable materials).

During the placement of these wells, G-Logics does not intend to collect soil samples, given the granular backfill material of the soils and as existing borings GLB-5, 6, 7, 9, and 11 adequately characterize backfill materials in the utility corridor. However, soil samples will be collected once a depth of 18 feet is reached in order to confirm the bottom of the corridor-backfill materials.

Monitoring Wells MW-26

Monitoring well MW-26 is designed to bound the north extent of the contamination. This will be a “paired” well. Specifically, one of the paired wells will be screened in the upper/shallow groundwater unit (screened from the approximate depths of 7 to 14 feet), terminating above the expected confining layer. The second paired well (deeper well) will be located approximately 5 feet away from its paired “shallow well”, and will be screened from the approximate depths of 18 to 28 feet, starting below the confining layer. It is intended to identify all paired wells with an “S” representing the upper/shallow groundwater unit and a “D” representing the lower/deeper groundwater unit (e.g., MW-26S and MW-26D). Soil samples will be collected from these borings.

Monitoring Wells MW-27 and MW-28

Monitoring well MW-27 is designed to bound the east extent of the contamination. This also will be a paired well (MW-27S and MW-27D). Monitoring Well MW-28 is designed to bound the south extent of the contamination. This also will be a paired well (MW-28S and MW-28D). Soil samples will be collected from these borings.

Boring GLB-17 / Monitoring Well MW-29

At the suggestion of Ecology, the boring location of GLB-17 is located between MW-27 and MW-28 and is intended to bound the southeast extent of the contamination. For this/these boring(s), a boring will be drilled to an approximate depth of 35 using direct-push drilling methods. If indications of contaminants are not visually present to the explored depth, additional borings/wells in this location will not be drilled/installed. Contaminants will be screened in the field using visually, olfactory, and photoionization methods. Select soil samples will be collected and analyzed to verify the presence (or lack of) contaminants.

If the soil in the boring indicates the possible presence of contamination, the boring will be converted to a well, screened in the deeper groundwater unit. Additionally, a second shallow well also will be installed in this location, creating a paired well, to be identified as MW-29.

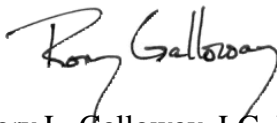
Borings 18 and 19

At the suggestion of Ecology, two additional borings will be drilled in Pacific Highway, planned borings GLB-18 and GLB-19. The borings will be completed using direct-push drilling methods to an approximate depth of 35 feet. Soil samples will be collected at five foot interval minimum, or at depths that indicate the presence of contamination. At least two samples from each boring will be analyzed.

Closing

We appreciate this opportunity to provide our services on this project. Please contact us with any questions regarding our findings or proposed exploration efforts discussed in this letter. With your concurrence, we will initiate the planned second round of exploration. We also will provide documentation to Mr. Dale Myers at the Washington Department of Ecology (with your concurrence).

Sincerely,
G-Logics, Inc.



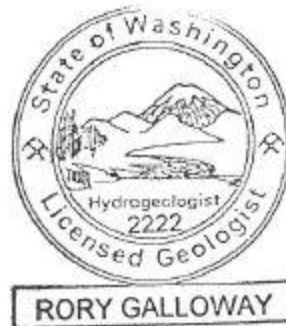
Rory L. Galloway, LG, LHG
Principal



Dan Hatch, PMP
Remediation Manager



Zak Wall, M.Sc.
Staff Geologist



FIGURES

Figure 1:	October 2016 Soil Analytical with Historical Features
Figure 2:	Planned Second Round Exploration Locations
Figure XA:	Cross-section A-A' 2015 GW Sampling
Figure XB:	Cross-section B-B'
Figure XC:	Cross-section C-C'

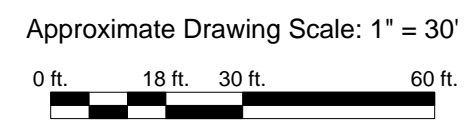
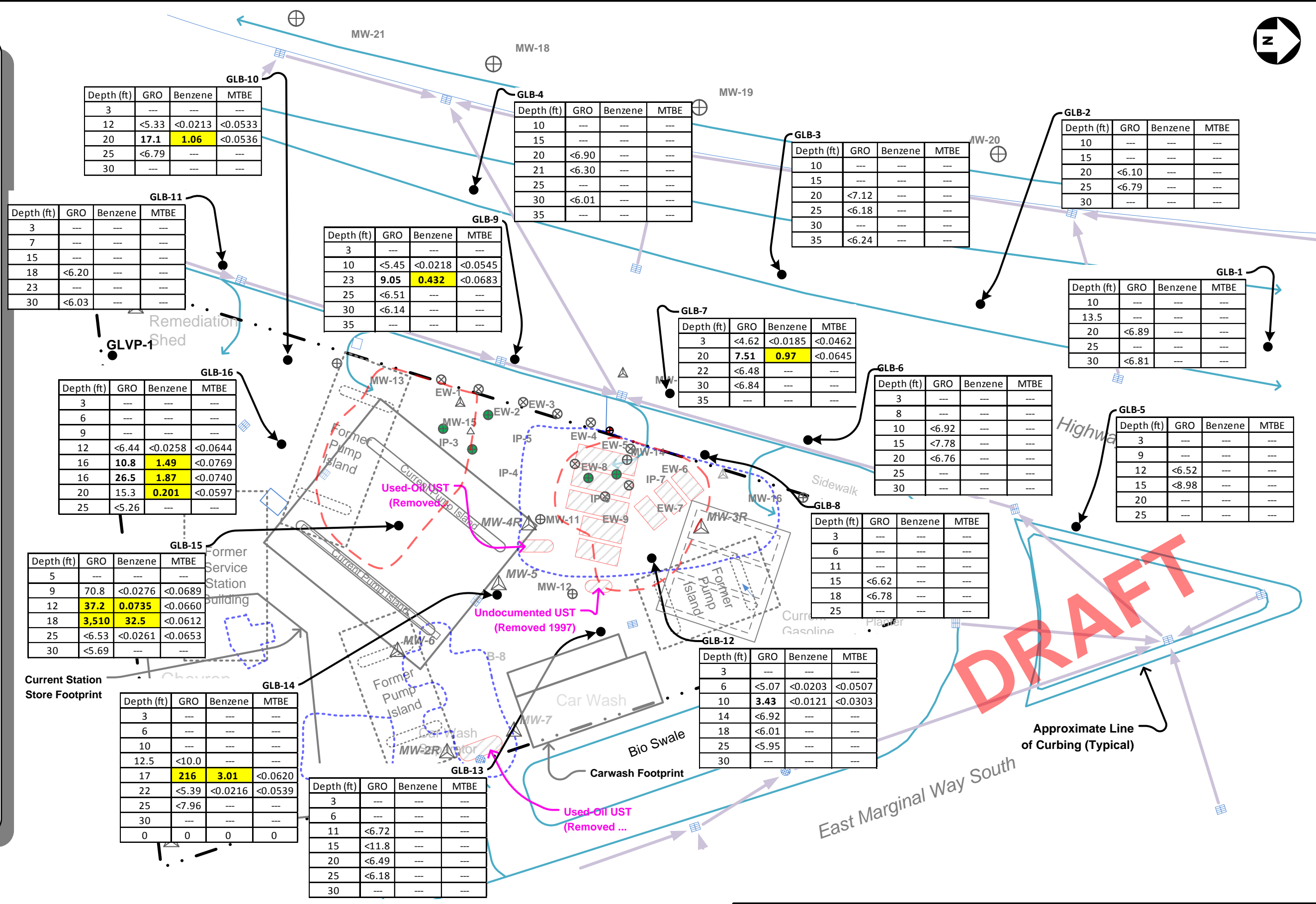
TABLES

Table 1	Soil Sample Analyses
Table A	Well Inspection Results, September 2016

FIGURES

Legend

- Understood Property Line
- Approximate Line of Road/Curbing
- MW-12 Decommissioned Well
- MW-13 Existing Monitoring Well
- IP-3 Injection Point/Well
- EW-3 Extraction Well
- GLB-9 G-Logics October 2016 Exploration Boring
- Understood Area of Former "Waste Oil" and/or Heating Oil USTs
- Understood Area of Former Fuel USTs
- Approximate Hart Crowser Excavation Area (1990 and 1992)
- Approximate RZA Excavation Area (1990)
- Current UST Nest (3 USTs)



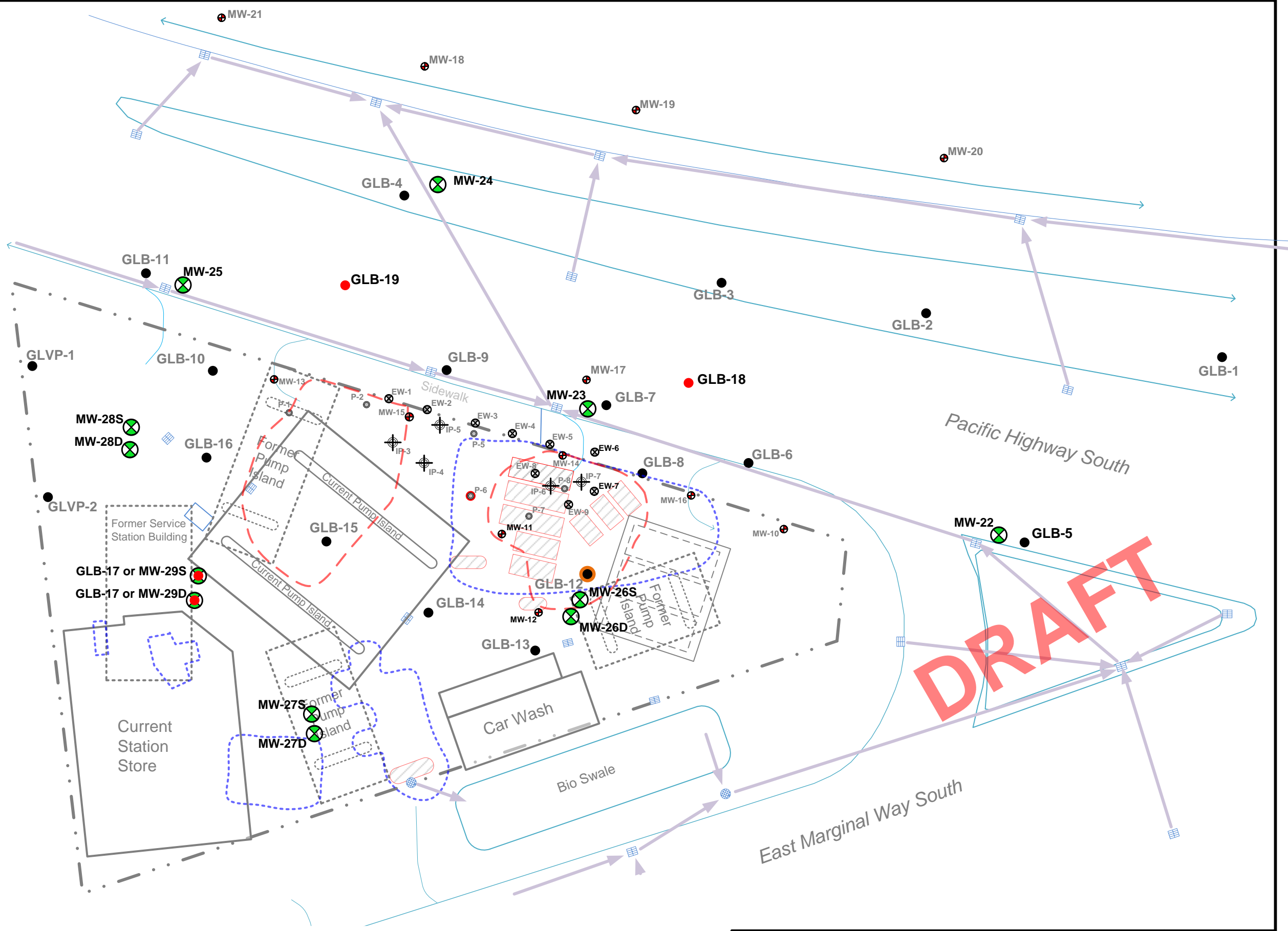
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October 2016 Soil Analytical with Historical Features
 Boeing Field Chevron
 10805 East Marginal Way South
 Seattle, Washington

Figure
1

Legend

- Understood Property Line
- Approximate Line of Road/Curbing
- MW-12 Decommissioned Well
- MW-13 Existing Monitoring Well
- IP-3 Injection Point/Well
- EW-3 Extraction Well
- GLB-9 G-Logics October 2016 Exploration Boring
- Understood Area of Former "Waste Oil" and/or Heating Oil USTs
- Understood Area of Former Fuel USTs
- Approximate Hart Crowser Excavation Area (1990 and 1992)
- Approximate RZA Excavation Area (1990)
- Current UST Nest (3 USTs)
- Planned Boring Location
- Planned Boring/Possible Well Location
- MW-22 Planned Well Location



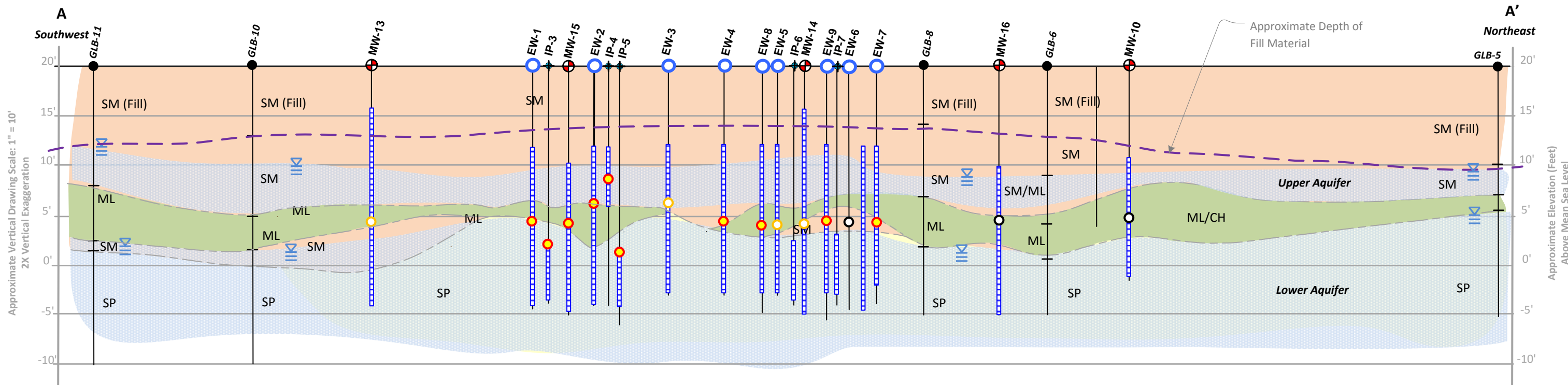
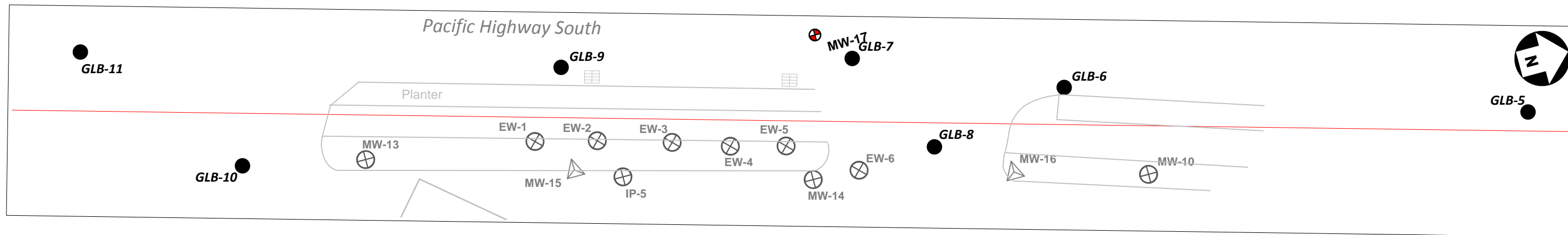
Approximate Drawing Scale: 1" = 30'

0 ft. 18 ft. 30 ft. 60 ft.

Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Planned Second Round Exploration Locations
 Boeing Field Chevron
 10805 East Marginal Way South
 Seattle, Washington

Figure 2



Legend

- GLB-5 2016 G-Logics Soil Boring
- EW-1 2008 G-Logics Extraction Well
- ◆ IP-3 Injection/Monitoring Well
- ⊕ MW-13 1997-2005 Existing Monitoring Well

- Soil Sample, petroleum contaminants not detected
- Soil Sample, petroleum concentrations present but less than MTCA cleanup levels
- ◆ Soil Sample, petroleum concentrations above MTCA cleanup levels

- Groundwater Sample, no petroleum contaminants detected
 - Groundwater Sample, petroleum concentrations present but less than MTCA cleanup levels
 - Groundwater Sample, contaminant concentrations above MTCA cleanup levels
 - Free product present in well
- Well Screen Interval

Note: Analytical Data for Soil and Groundwater Samples Summarized in Tables 1 and 2, Respectively

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Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Approximate Horizontal Drawing Scale: 1" = 20'
 Approximate Vertical Drawing Scale: 1" = 10'
 0 ft. 12 ft. 20 ft. 40 ft.



Cross-section A-A' 2015 GW Sampling
 Boeing Field Chevron
 10805 East Marginal Way South
 Tukwila, Washington

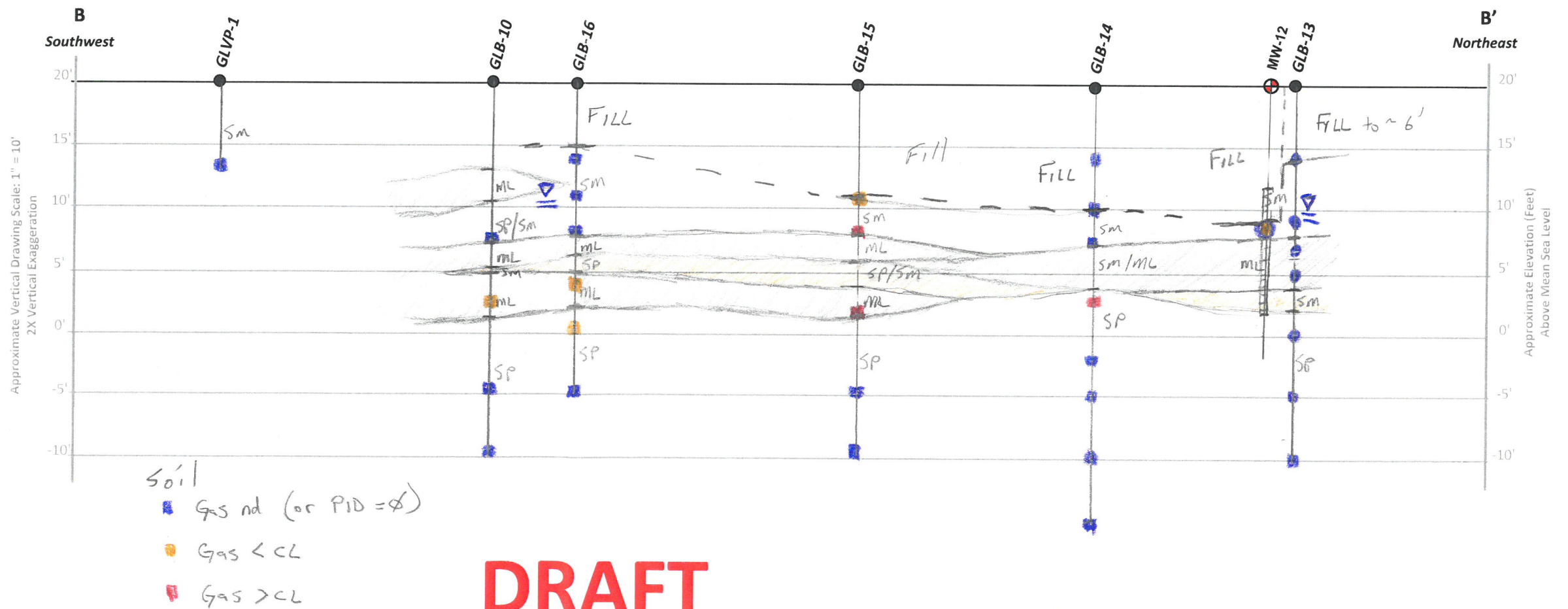
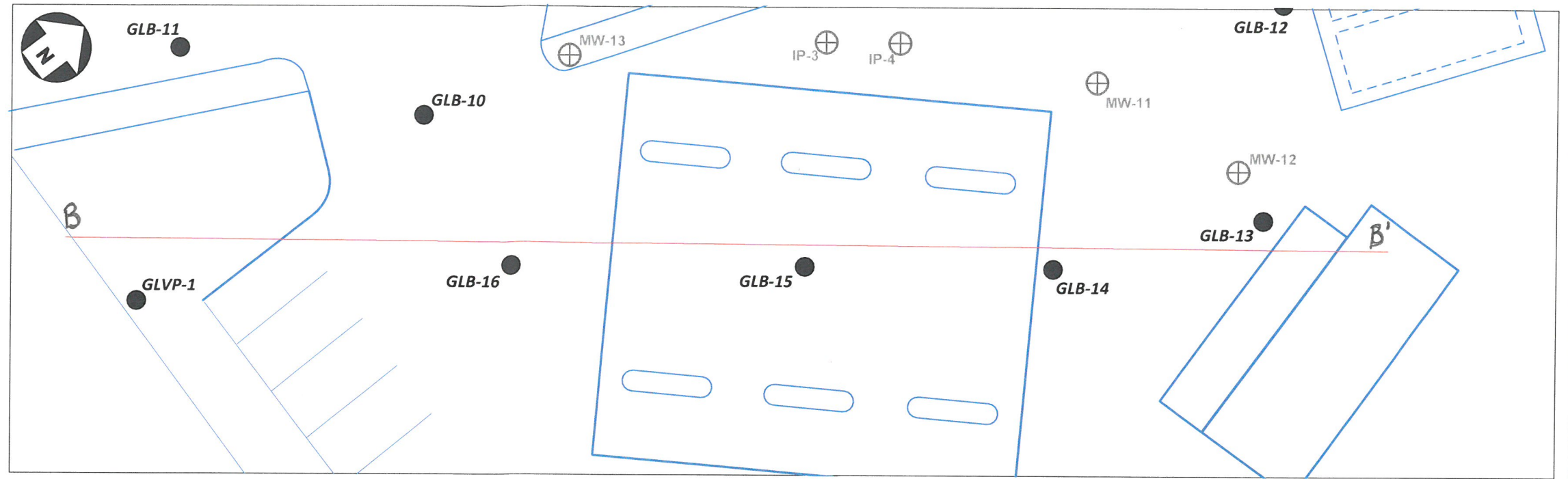
Figure
 XA

Legend

GLB-5 2016 G-Logics Soil Boring

MW-13 1997-2005 Existing Monitoring Well

- Soil Sample, no petroleum contaminants detected
- Soil Sample, petroleum concentrations present but less than MTCA cleanup levels
- Soil Sample, petroleum concentrations above MTCA cleanup levels
- Groundwater Sample, no petroleum contaminants detected
- Groundwater Sample, petroleum concentrations present but less than MTCA cleanup levels
- Groundwater Sample, contaminant concentrations above MTCA cleanup levels
- Free product present in well
- Well Screen Interval



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Note: Analytical Data for Soil and Groundwater Samples Summarized in Tables 1 and 2, Respectively



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Approximate Horizontal Drawing Scale: 1" = 20'
Approximate Vertical Drawing Scale: 1" = 10'
0 ft. 12 ft. 20 ft. 40 ft.

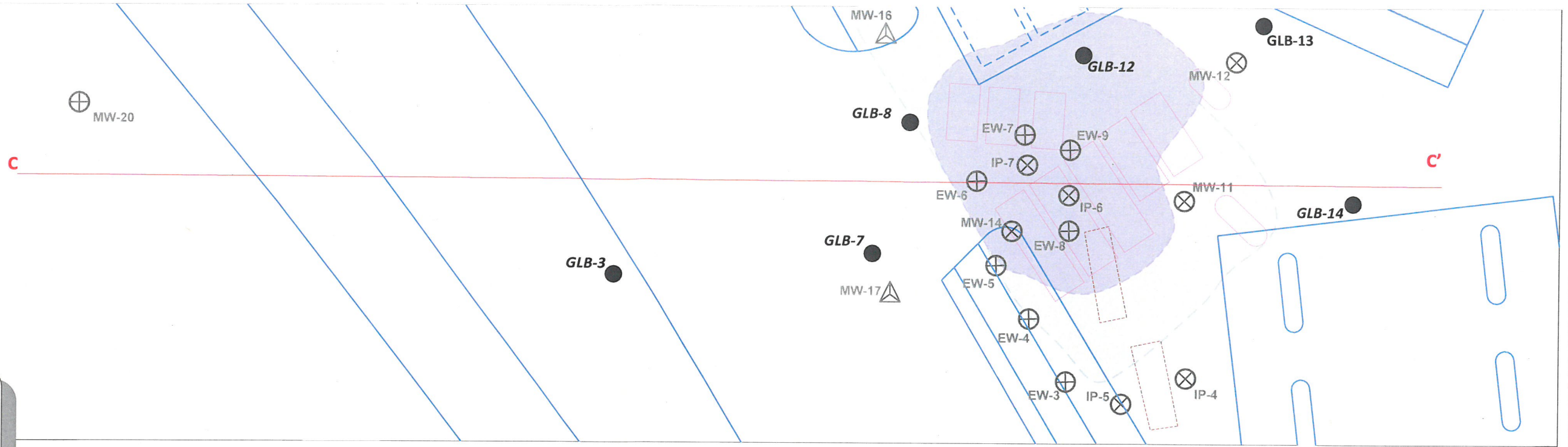
Cross-section B-B'
Boeing Field Chevron
10805 East Marginal Way South
Tukwila, Washington

Figure

04

XB

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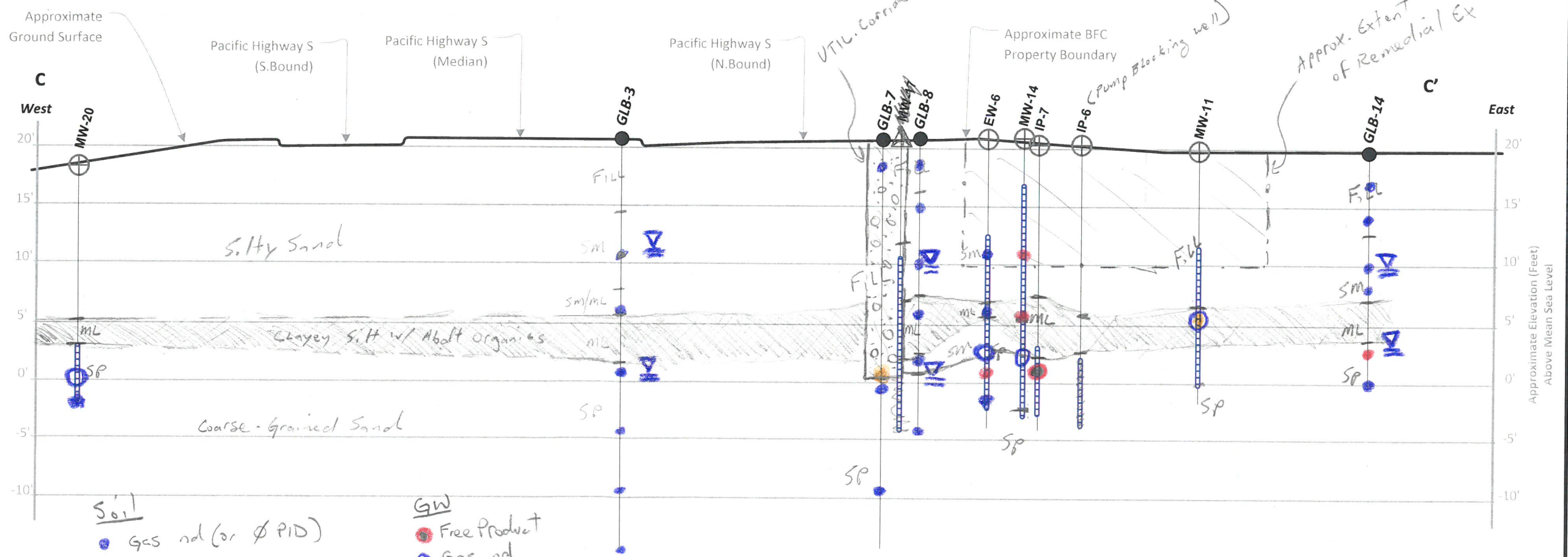
Legend

GLB-5
 2016 G-Logics Soil Boring

MW-13
 1997-2005 Existing Monitoring Well

- Soil Sample, no petroleum contaminants detected
- Soil Sample, petroleum concentrations present but less than MTCA cleanup levels
- Soil Sample, petroleum concentrations above MTCA cleanup levels
- Groundwater Sample, no petroleum contaminants detected
- Groundwater Sample, petroleum concentrations present but less than MTCA cleanup levels
- Groundwater Sample, contaminant concentrations above MTCA cleanup levels
- Free product present in well

Well Screen Interval



- Soil**
- Gas nd (or ϕ PID)
 - Gas < CL
 - Gas > CL

- GW**
- Free Product
 - Gas nd
 - Gas < CL
 - Gas > CL

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Approximate Horizontal Drawing Scale: 1" = 20'
 Approximate Vertical Drawing Scale: 1" = 10'
 0 ft. 12 ft. 20 ft. 40 ft.

Cross-section C-C'
 Boeing Field Chevron
 10805 East Marginal Way South
 Tukwila, Washington

Note: Analytical Data for Soil and Groundwater Samples Summarized in Tables 1 and 2, Respectively

Figure

Project File: 01-0410-K 2016 Cross-section C.vsd

XC

TABLES

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TABLE 1
Soil Sample Analyses (1)
Boeing Field Chevron
Tukwila, Washington

Exploration Location	Surface Elevation (ft)	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Mineral Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl Tert Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	hexane/n-	Lead	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Benzo(a)anthracene	Benzo(b)anthracene***	Benzo(k)fluoranthene***	Benzo(a)pyrene***	Chrysene***	Dibenzo(a,h)anthracene***	Indeno(1,2,3-cd)pyrene***	Total CP AHS						
(units in mg/kg)																																				
RZA (1990)																																				
B-1		6/7/90	B-1/S-2	7.5-9		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
		6/7/90	B-1/S-3	12.5-14		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
B-2		6/7/90	B-2/S-2	7.5-9		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
		6/7/90	B-2/S-3	12.5-14		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
B-3		6/7/90	B-3/S-2	7.5-9		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
		6/7/90	B-3/S-3	12.5-14		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
B-4		6/7/90	B-4/S-1	2.5-4		21†	---	---	---	nd	0.06	0.24	2.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
		6/7/90	B-4/S-2	7.5-9		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
B-5		6/7/90	B-5/S-2	7.5-9		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
		6/7/90	B-5/S-3	12.5-14		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-6		6/7/90	B-6/S-2	7.5-9		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		6/7/90	B-6/S-3	12.5-14		nd	---	---	---	nd	0.06	nd	0.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
B-7		6/7/90	B-7/S-2	7.5-9		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		6/7/90	B-7/S-3	12.5-14		nd	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
B-8		6/7/90	B-8/S-1	2.5-4		40†	---	---	---	nd	nd	0.12	0.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		6/7/90	B-8/S-2	7.5-9		74†	---	---	---	0.05	0.11	4.25	38.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
B-9		6/7/90	B-9/S-2	7.5-9		1,079†	---	---	---	nd	nd	0.33	0.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		6/7/90	B-9/S-3	12.5-14		nd	---	---	---	nd	0.08	0.06	1.34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
B-10		6/7/90	B-10/S-2	7.5-9		516†	---	---	---	nd	0.12	0.33	0.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		6/7/90	B-10/S-3	12.5-14		nd	---	---	---	0.11	nd	nd	1.23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-11		7/26/90	B-11/S-2	7.5-9		nd	21†	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		7/26/90	B-11/S-3	12.5-14		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-12		7/26/90	B-12/S-1	2.5-4		nd	19†	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		7/26/90	B-12/S-2	7.5-9		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-13		7/26/90	B-13/S-2	7.5-9		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		7/26/90	B-13/S-3	12.5-14		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-14		7/26/90	B-14/S-2	2.5-4		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		7/26/90	B-14/S-3	7.5-9		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-15		7/26/90	B-15/S-2	7.5-9		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		7/26/90	B-15/S-3	12.5-14		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTCA Cleanup Level (2)						NA	100(a)/30(b)	2,000	2,000	4,000	0.03	7	6	9	0.1	11*	0.005		250	5																

DRAFT TABLE

TABLE 1
Soil Sample Analyses (1)
Boeing Field Chevron
Tukwila, Washington

Exploration Location	Surface Elevation (ft)	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)	Gasoline Range Organics		Diesel Range Organics		Heavy Oil Range Organics		Mineral Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl Tert Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	hexane/n-	Lead	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Benzo(a)anthracene	Benzo(b)fluoranthene**	Benzo(k)fluoranthene**	Benzo(a)pyrene***	Chrysene***	Dibenzo(a,h)anthracene***	Indeno(1,2,3-cd)pyrene***	Total CP AHs
						PID Reading (ppmv)																										
(units in mg/kg)																																
B-16		7/26/90	B-16/S-1	2.5-4		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		7/26/90	B-16/S-2	7.5-9		nd	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Unknown Report (2004)																																
B-1		2/27/04	S-B1-15	15		<5.00	---	---	---	0.181	0.059	0.072	0.286	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		7/16/04	S-B1-5	5		<5.00	---	---	---	<0.0300	0.0576	<0.0500	0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-2		2/27/04	S-B2-15	15		38	---	---	---	3.83	5.25	1.49	5.67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		7/16/04	S-B2-10	10		510	---	---	---	0.179	0.616	3.480	3.280	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-3		2/27/04	S-B3-14	14		101	---	---	---	0.046	<0.0500	0.508	0.439	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-4		2/27/04	S-B4-15	15		<5.00	---	---	---	<0.0300	<0.0500	<0.0500	<0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-5		2/27/04	S-B5-15	15		<5.00	---	---	---	<0.0300	<0.0500	<0.0500	<0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-6		2/27/04	S-B6-10	10		<5.00	---	---	---	<0.0300	<0.0500	<0.0500	<0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-7		2/27/04	S-B7-11	11		<5.00	---	---	---	<0.0300	<0.0500	<0.0500	<0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-8		2/27/04	S-B8-10	10		<5.00	---	---	---	<0.0300	<0.0500	<0.0500	<0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-9		2/27/04	S-B9-10	10		<5.00	---	---	---	<0.0300	<0.0500	<0.0500	<0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B-10		2/27/04	S-B10-10	10		<5.00	---	---	---	<0.0300	<0.0500	<0.0500	<0.100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Environmental Resolutions, Inc. (2005)																																
B11		3/1/05	S-10-B11	10		<3.83	<10	<25	---	<0.023	<0.0383	<0.0383	<0.0766	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
B1		8/26/05	S-10-B1	10		37	---	---	---	0.493	0.117	0.374	0.297	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		8/26/05	S-15-B1	15		29	---	---	---	1.76	0.25	2.04	8.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
B2		8/26/05	S-10-B2	10		<5	---	---	---	<0.03	<0.05	<0.05	<0.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		8/26/05	S-15-B2	15		<5	---	---	---	<0.03	<0.05	<0.05	<0.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Urban Redevelopment, LLC (2006)																																
P-4		4/25/06	P4 12.5-13	12.5-13		2,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
P-6		4/25/06	P6 11.5-12	11.5-12		5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		4/25/06	P6 18.5-19	18.5-19		370	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
P-8		4/25/06	P8 18.5-19	18.5-19		2,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
MTCA Cleanup Level (2)						NA	100(a)/30(b)	2,000	2,000	4,000	0.03	7	6	9	0.1	11*	0.005	250	5	1.37*	1.37*	13.7*	0.1	137*	0.137*	1.37*	1					

DRAFT TABLE

TABLE 1
Soil Sample Analyses (1)
Boeing Field Chevron
Tukwila, Washington

Exploration Location	Surface Elevation (ft)	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Mineral Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl Tert Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	hexane/n-	Lead	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Benzo(a)anthracene***	Benzo(b)fluoranthene***	Benzo(k)fluoranthene***	Benzo(a)pyrene***	Chrysene***	Dibenzo(a,h)anthracene***	Indeno(1,2,3-cd)pyrene***	Total CP AHs																		
(units in mg/kg)																																																
G-Logics (2008)																																																
EW-1	3/17/08	EW1-10	10			10	---	---	---	0.32	0.12	0.33	0.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW1-15	15			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW1-20	20			<10	---	---	---	1.06	0.62	0.16	0.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW1-24	24			15	---	---	---	1.34	1.28	0.31	1.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
EW-2	3/17/08	EW-2-10	10			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW2-14	14			<10	---	---	---	<0.02	<0.10	0.059	0.26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW2-20	20			19	---	---	---	0.51	0.88	0.50	2.51	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW2-24	24			13	---	---	---	0.80	1.32	0.31	1.36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
EW-3	3/17/08	EW-3-10	10			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW3-15	15			<10	---	---	---	0.31	0.14	0.38	1.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW3-15(DUP)	15			10	---	---	---	0.35	0.084	0.47	1.31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW3-20	20			31	---	---	---	1.66	3.76	0.55	3.27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
EW-4	3/17/08	EW-4-10	10			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW4-15	15			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW4-20	20			21	---	---	---	0.63	2.39	0.44	2.19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
EW-5	3/17/08	EW-5-15	15			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW5-20	20			14	---	---	---	1.01	1.04	0.34	1.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW5-23	23			33	---	---	---	0.70	2.18	0.81	3.83	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/17/08	EW5-23(DUP)	23			34	---	---	---	0.70	2.26	0.85	4.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
EW-6	3/18/08	EW-6-10	10			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/18/08	EW6-15	15			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/18/08	EW6-20	20			37	---	---	---	1.14	3.42	5.03	2.43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/18/08	EW6-23	23			<10	---	---	---	0.11	0.20	0.092	0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
EW-7	3/18/08	EW-7-10	10			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/18/08	EW7-15	15			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/18/08	EW7-15(DUP)	15			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/18/08	EW7-20	20			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
	3/18/08	EW7-25	25			<10	---	---	---	<0.02	<0.10	<0.05	<0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
EW-8	3/18/08	EW-8-10	10			97	---	---	---	0.24	1.00	1.29	2.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																
	3/18/08	EW8-15	15			293	---	---	---	1.23	2.61	4.37	3.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																
	3/18/08	EW8-20	20			14	---	---	---	0.22	1.47	0.46	1.37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																
	3/18/08	EW8-25	25			<10	---	---	---	0.092	0.54	0.23	0.84	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
MTCA Cleanup Level (2)						NA	100(a)/30(b)	2,000	2,000	4,000	0.03	7	6	9	0.1	11*	0.005	250	5	1.37*	1.37*	13.7*	0.1	137*	0.137*	1.37*					1																	

DRAFT TABLE

TABLE 1
Soil Sample Analyses (1)
Boeing Field Chevron
Tukwila, Washington

Exploration Location	Surface Elevation (ft)	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Mineral Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl Tert Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	hexane/n-	Lead	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Benzo(a)anthracene	Benzo(b)anthracene***	Benzo(k)fluoranthene***	Benzo(a)pyrene***	Chrysene***	Dibenzo(a,h)anthracene***	Indeno(1,2,3-cd)pyrene***	Total CP AHs						
(units in mg/kg)																																				
EW-9		3/18/08	EW-9-10	10		<10	---	---	---		<0.02	<0.10	<0.05	<0.15																						
		3/18/08	EW-9-15	15		4,320	---	---	---		37.4	201	100	317																						
		3/18/08	EW-9-20	20		379	---	---	---		2.41	17.4	9.16	28.5																						
		3/18/08	EW-9-25	25		<10	---	---	---		<0.02	<0.10	<0.05	<0.15																						
MW-18		4/16/08	MW-18-15	15		<10	---	---	---		<0.02	<0.10	<0.05	<0.15																						
MW-19		4/16/08	MW19-20	20		<10	---	---	---		<0.02	<0.10	<0.05	<0.15																						
MW-20		4/16/08	MW-20-20	20		<10	---	---	---		<0.02	<0.10	<0.05	<0.15																						
MW-21		4/16/08	MW-21-17	17		<10	---	---	---		<0.02	<0.10	<0.05	<0.15																						
		4/18/08	MW-21-17(DUP)	17		<10	---	---	---		<0.02	<0.10	<0.05	<0.15																						
G-Logics (2016)																																				
GLB-1		10/25/16	GLB-1-102516-10	10		0.0	---	---	---																											
		10/25/16	GLB-1-102516-13.5	13.5		0.0	---	---	---																											
		10/25/16	GLB-1-102516-20	20		0.0	<6.89	<21.2	<53.1																											
		10/25/16	GLB-1-102516-25	25		0.0	---	---	---																											
		10/25/16	GLB-1-102516-30	30		0.0	<6.81	<22.5	<56.3																											
GLB-2		10/25/16	GLB-2-102516-10	10		0.0	---	---	---																											
		10/25/16	GLB-2-102516-15	15		0.0	---	---	---																											
		10/25/16	GLB-2-102516-20	20		0.1	<6.10	<22.8	<57.1																											
		10/25/16	GLB-2-102516-25	25		0.0	<6.79	<22.0	<55.0																											
		10/25/16	GLB-2-102516-30	30		0.0	---	---	---																											
GLB-3		10/25/16	GLB-3-20161025-10	10		0.0	---	---	---																											
		10/25/16	GLB-3-20161025-15	15		0.0	---	---	---																											
		10/25/16	GLB-3-20161025-20	20		0.4	<7.12	<21.9	<54.7																											
		10/25/16	GLB-3-20161025-25	25		3.4	<6.18	<22.5	<56.2																											
		10/25/16	GLB-3-20161025-30	30		0.3	---	---	---																											
		10/25/16	GLB-3-20161025-35	35		0.0	<6.24	<20.0	<49.9																											
GLB-4		10/25/16	GLB-4-102516-10	10		0.0	---	---	---																											
		10/25/16	GLB-4-102516-15	15		0.0	---	---	---																											
		10/25/16	GLB-4-102516-20	20		0.0	<6.90	<25.6	<64.0																											
		10/25/16	GLB-4-102516-21	21		2.1	<6.30	<23.8	<59.4																											
		10/25/16	GLB-4-102516-25	25		2.0	---	---	---																											
		10/25/16	GLB-4-102516-30	30		0.0	<6.01	<22.9	<57.2																											
		10/25/16	GLB-4-102516-35	35		0.0	---	---	---																											
MTCA Cleanup Level (2)						NA	100(a)/30(b)	2,000	2,000	4,000	0.03	7	6	9	0.1	11*	0.005		250	5			1.37*	1.37*	13.7*	0.1	137*	0.137*	1.37*		1					

DRAFT TABLE

TABLE 1
Soil Sample Analyses (1)
Boeing Field Chevron
Tukwila, Washington

Exploration Location	Surface Elevation (ft)	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Mineral Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl Tert Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	hexane/n-	Lead	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Benzo(a)naphthalene	Benzo(b)anthracene**	Benzo(k)fluoranthene**	Benzo(a)pyrene***	Chrysene***	Dibenzo(a,h)anthracene***	Indeno(1,2,3-cd)pyrene***	Total CP AHs					
(units in mg/kg)																																			
GLB-11		10/24/16	GLB-11-102416-3	3		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		10/26/16	GLB-11-102616-7	7		0.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
		10/26/16	GLB-11-102616-15	15		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		10/26/16	GLB-11-102616-18	18		0.0	<6.20	<23.0	<57.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		10/26/16	GLB-11-102616-23	23		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/26/16	GLB-11-102616-30	30		0.0	<6.03	<23.1	<57.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
GLB-12		10/21/16	GLB-12-20161021-3	3		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		10/21/16	GLB-12-20161021-6	6		0.0	<5.07	<20.5	<51.1	---	<0.0203	<0.0203	<0.0304	<0.0203	<0.0507	<0.0304	<0.00507	<0.0203	5.70	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	<41.5	---	
		10/24/16	GLB-12-20161024-10	10		4.5	3.43	<23.7	<59.2	---	<0.0121	<0.0121	<0.0182	0.0164	<0.0303	<0.0182	<0.00303	0.0527	11.1	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	<45.8	---	
		10/24/16	GLB-12-20161024-14	14		0.3	<6.92	<26.1	<65.2	---	<0.0277	<0.0277	<0.0415	<0.0277	<0.0692	<0.0415	<0.00692	<0.0277	---	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	---	
		10/24/16	GLB-12-20161024-18	18		0.2	<6.01	<25.5	<63.8	---	<0.0241	<0.0241	<0.0361	<0.0241	<0.0601	<0.0361	<0.00601	<0.0241	---	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	<44.8	---	
		10/24/16	GLB-12-20161024-25	25		0.1	<5.95	<24.6	<61.5	---	<0.0238	<0.0238	<0.0357	<0.0238	<0.0595	<0.0357	<0.00595	<0.0238	---	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	<44.0	---	
		10/24/16	GLB-12-20161024-30	30		0.0	---	---	---	---	<0.0208	<0.0208	<0.0312	<0.0208	<0.0519	<0.0312	<0.00519	<0.0208	---	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	<43.5	---		
GLB-13		10/21/16	GLB-13-20161021-3	3		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/21/16	GLB-13-20161021-6	6		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/25/16	GLB-13-102516-11	11		0.1	<6.72	<25.6	<64.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/25/16	GLB-13-102516-15	15		0.3	<11.8	<32.2	<80.4	---	<0.0473	<0.0473	<0.0710	<0.0473	<0.118	<0.0710	<0.0118	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/25/16	GLB-13-102516-20	20		0.1	<6.49	<22.4	<55.9	---	<0.0259	<0.0259	<0.0389	<0.0259	<0.0649	<0.0389	<0.00649	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/25/16	GLB-13-102516-25	25		0.0	<6.18	<24.7	<61.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/25/16	GLB-13-102516-30	30		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB-14		10/21/16	GLB-14-20161024-3	3		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/21/16	GLB-14-20161024-6	6		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/24/16	GLB-14-20161024-10	10		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/24/16	GLB-14-20161024-12.5	12.5		0.0	<10.0	<27.0	<67.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/24/16	GLB-14-20161024-17	17		250	216	<27.9	<69.8	---	3.01	12.5	5.76	31.65	<0.0620	<0.0372	<0.00620	2.12	2.09	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	<51.4	---	
		10/24/16	GLB-14-20161024-22	22		2.8	<5.39	<25.1	<62.8	---	<0.0216	<0.0216	<0.0323	<0.0216	<0.0539	<0.0323	<0.00539	<0.0216	0.985	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	<49.2	---	
		10/24/16	GLB-14-20161024-25	25		0.0	<7.96	<21.3	<53.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/24/16	GLB-14-20161024-30	30		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB-15		10/24/16	GLB-15-20161024-5	5		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/24/16	GLB-15-20161024-9	9		25	70.8	<21.8	<54.4	---	<0.0276	0.207	1.38	6.01	<0.0689	---	---	0.124	1.67	210	418	178	---	---	---	---	---	---	---	---	---	---	---	---	
		10/24/16	GLB-15-20161024-12	12		7.8	37.2	<28.8	<72.1	---	0.0735	0.106	0.673	1.86	<0.0660	---	---	0.510	3.19	408	298	126	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/24/16	GLB-15-20161024-18	18		38.7	3,510	<28.0	<69.9	---	32.5	312	59.1	327	<0.0612	---	---	68.6	2.51	3,080	2,160	904	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/24/16	GLB-15-20161024-25	25		3.1	<6.53	<22.5	<56.3	---	<0.0261	0.0613	0.0640	0.2723	<0.0653	---	---	0.0790	0.898	<48.8	<48.8	<48.8	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/24/16	GLB-15-20161024-30	30		0.1	<5.69	<22.8	<56.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTCA Cleanup Level (2)						NA	100(a)/30(b)	2,000	2,000	4,000	0.03	7	6	9	0.1	11*	0.005	1.77	250	5	34.1	1.37*	1.37*	13.7*	0.1	137*	0.137*	1.37*	1						

DRAFT TABLE

TABLE 1
Soil Sample Analyses (1)
Boeing Field Chevron
Tukwila, Washington

Exploration Location	Surface Elevation (ft)	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)	PID Reading (ppmv)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Mineral Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl Tert Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	hexane:n-	Lead	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Benzo(a)anthracene	Benzo(b)fluoranthene**	Benzo(k)fluoranthene**	Benzo(a)pyrene***	Chrysene***	Dibenzo(a,h)anthracene***	Indeno(1,2,3-cd)pyrene***	Total CP AHs			
(units in mg/kg)																																	
GLB-16		10/24/16	GLB-16-102416-3	3		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		10/24/16	GLB-16-20161024-6	6		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		10/24/16	GLB-16-20161024-9	9		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/24/16	GLB-16-20161024-12	12		0.0	<6.44	<25.3	<63.3	---	<0.0258	<0.0258	<0.0387	<0.0258	<0.0644	---	---	<0.0258	3.33	<50.9	<50.9	<50.9	---	---	---	---	---	---	---	---	---	---	
		10/24/16	GLB-16-20161024-16	16		17.2	10.8	<31.3	<78.3	---	1.49	0.182	0.234	0.967	<0.0769	---	---	0.0910	4.06	<58.2	<58.2	<58.2	---	---	---	---	---	---	---	---	---	---	
		10/24/16	GLB-FD-20161024-1	16		17.2	26.5	<30.1	<75.4	---	1.87	0.268	1.22	5.99	<0.0740	---	---	0.259	3.12	<60.9	<60.9	<60.9	---	---	---	---	---	---	---	---	---	---	
		10/24/16	GLB-16-20161024-20	20		20.3	15.3	<22.0	<55.0	---	0.201	0.0680	0.174	1.6258	<0.0597	---	---	0.0901	0.942	<50.6	<50.6	<50.6	---	---	---	---	---	---	---	---	---	---	
	10/24/16	GLB-16-20161024-25	25		0.0	<5.26	<24.1	<60.3	---	<0.0210	0.0537	<0.0316	0.1155	<0.0526	---	---	0.0916	---	<47.5	<47.5	<47.5	---	---	---	---	---	---	---	---	---	---		
GLVP-1		10/24/16	GLVP-1-102416-3	3		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		10/26/16	GLVP-1-102616-7	7		0.0	<6.82	<20.0	<49.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
GLVP-2		10/24/16	GLVP-2-102416-3	3		0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/25/16	GLVP-2-102516-7.5	7.5		0.0	<5.74	<21.8	<54.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Catch Basins		10/27/16	CB-1002	N/A		N/A	8.25	<18.4	<46.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
		10/27/16	CB-1068	N/A		N/A	<4.84	<17.4	129	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/27/16	CB-1002-W	N/S		N/A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		10/27/16	CB-5-W	N/S		N/A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/27/16	CB-1001-W	N/S		N/A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/27/16	CB-1068-W	N/S		N/A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTCA Cleanup Level (2)						NA	100(a)/30(b)	2,000	2,000	4,000	0.03	7	6	9	0.1	11*	0.005	1.77	250	5	**	34.1	1.37*	1.37*	13.7*	0.1	137*	0.137*	1.37*	1			

Notes:

- (1) Refer to site diagram(s) for sampling locations. Refer to laboratory reports for analytical methods.
- (2) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels for Unrestricted Land Uses, MTCA, revised 2013. Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.
- (a) Soil Cleanup Level for gasoline with no detectable benzene in the soil.
- (b) Soil Cleanup Level for gasoline with detectable benzene in the soil.
- † Concentration quantified from TPH analysis.
- ** No data / Not researched.
- *** Carcinogenic Polycyclic Aromatic Hydrocarbon.
- dup Duplicate sample for QA/QC.
- blind dup Blind duplicate sample for QA/QC.
- Sample not analyzed.
- <50.0 Sample concentration below listed laboratory-reporting limit.
- 27** Bold Number(s) Indicates Contaminant Detected.
- 160** Bold number(s) and yellow shading indicates concentration exceeds MTCA Cleanup Level.
- J Estimated concentration
- <1.0 Laboratory reporting limit is higher than referenced Cleanup Levels.
- N/A Not Applicable
- N/S No Sample Collected (no media available)
- Green shading indicates that analysis is being performed and report is not available as of 11/3/2016

Table A

Well Inspection Results, September 2016

Boeing Field Chevron

10805 East Marginal Way South

Seattle, Washington

Well Identification	Installation Date	Monument Diameter	Casing Diameter	Well Screen Depth*	Parts Needed			Well Tag Present	Ecology Well Log	Comments	Recommendations	Blockage/Sediment
					Expansion Cap	Bolts	Gasket					
MW-10	9/3/97	8"	2" PVC	8.5'-18.5' 20'	--	3	1	No	Yes R036366	Well depth does not match log		3' **
MW-11	9/3/97	8"	2" PVC	8'-20'	--	3	1	No	Yes R036366	Monument bolt wings missing	Replace monument	No
MW-12	9/3/97	8"	2" PVC	8'-18' 20'	--	N/A	N/A	No	Yes R036366	Monument bolt wings missing Well depth does not match log	Replace monument	4.5' **
MW-13	7/16/04	8"	2" PVC	4'-24'	2"	3	1	AKN-782	Yes R066307			1.5' **
MW-14	7/16/04	8"	2" PVC	4'-24'	2"	3	1	Missing AKN-783	Yes R066307	Concrete broken around monument	Replace monument	0.5'
MW-15	8/26/05	8"	2" PVC	10'-25'	2"	3	1	Missing APM-449	Yes R066693			1' **
MW-16	8/26/05	8"	2" PVC	9.5'-24.5' 25'	--	2	--	APM-450	Yes R066693			7' **
MW-17	8/26/05	8"	2" PVC	9.5'-24.5' 25'	--	3	1	AKT-104	Yes R067255			No
MW-18	4/16/08	5"	1" PVC	11'-16' ?	--	--	--	AJP-300	Yes RE02237	No camera verification, well diameter too small		No
MW-19	4/16/08	5"	1" PVC	15'-20' ?	--	--	1	AJP-299	Yes RE02237	No camera verification, well diameter too small		0.2'
MW-20	4/16/08	5"	1" PVC	15'-20' ?	--	--	--	AJP-297	Yes RE02237	No camera verification, well diameter too small		0.5'
MW-21	4/16/08	5"	1" PVC	17'-22' ?	--	--	--	AJP-298	Yes RE02237	No camera verification, well diameter too small		0.3'

Table A

Well Inspection Results, September 2016

Boeing Field Chevron

10805 East Marginal Way South

Seattle, Washington

Well Identification	Installation Date	Monument Diameter	Casing Diameter	Well Screen Depth*	Parts Needed			Well Tag Present	Ecology Well Log	Comments	Recommendations	Blockage/Sediment
					Expansion Cap	Bolts	Gasket					
IP-3	4/19/06	8"	2" Stainless Steel	18'-24'	2"	3	1	APK-234	No			No
IP-4	4/19/06	8"	3" Stainless Steel	8'-16' 14'	2"	3	1	APK-219	No	Well depth does not match log		No
IP-5	4/26/06	8"	2" Stainless Steel	18'-24'	--	--	--	Yes	No	Can not read tag number		No
IP-6	8/4/06	12"	2" Stainless Steel	18'-24' ?	2"	--	1	APL-600	Yes R069371	Obstruction @ 5.2' Product pump stuck in well	Remove Obstruction or Decommission	5'
IP-7	8/4/06	12"	2" Stainless Steel	17'-23' ?		3	1	APL-599	Yes R069371	Monument bolt wings missing Approximately two feet of product	Replace monument	No
EW-1	3/17/08	Plastic Vault	2" PVC	8.5'-23.5' 23'	--	N/A	N/A	Missing BAK-423	Yes R073548	Utility vault: Plastic, no seal	Replace monument or Obtain a variance	2' **
EW-2	3/17/08	Plastic Vault	2" PVC	8.5'-23.5' 23'	2"	N/A	N/A	Missing BAK-424	Yes R073548	Utility vault: Plastic, no seal	Replace monument or Obtain a variance	1.5' **
EW-3	3/17/08	Plastic Vault	2" PVC	8'-23'	2"	N/A	N/A	Missing BAK-425	Yes R073548	Utility vault: Plastic, no seal	Replace monument or Obtain a variance	7.5' **
EW-4	3/17/08	Plastic Vault	2" PVC	8'-23'	2"	N/A	N/A	Missing BAK-426	Yes R073548	Utility vault: Plastic, no seal	Replace monument or Obtain a variance	10.5' **
EW-5	3/17/08	Plastic Vault	2" PVC	7.5'-22.5' 23'	2"	N/A	N/A	Missing BAK-427	Yes R073548	Utility vault: Plastic, no seal	Replace monument or Obtain a variance	1' **

Table A

Well Inspection Results, September 2016

Boeing Field Chevron

10805 East Marginal Way South

Seattle, Washington

Well Identification	Installation Date	Monument Diameter	Casing Diameter	Well Screen Depth*	Parts Needed			Well Tag Present	Ecology Well Log	Comments	Recommendations	Blockage/Sediment
					Expansion Cap	Bolts	Gasket					
EW-6	3/18/08	Steel Vault	2" PVC	8'-23'	2"	N/A	N/A	Missing BAK-428	Yes R073548	Utility vault: Metal, no seal	Replace monument or Obtain a variance	5' **
EW-7	3/18/08	Steel Vault	2" PVC	8'-23'	2"	N/A	N/A	Missing BAK-429	Yes R073548	Utility vault: Metal, no seal Approximately two feet of product	Replace monument or Obtain a variance	1' **
EW-8	3/18/08	Steel Vault	2" PVC	8.5'-23.5' 23'	--	N/A	N/A	Missing BAK-430	Yes R073548	Utility vault: Metal, no seal	Replace monument or Obtain a variance	0.5'
EW-9	3/18/08	Steel Vault	2" PVC	8.5'-23.5' 23'	2"	N/A	N/A	Missing BAK-434	Yes R073548	Non boltable utility monument	Replace monument or Obtain a variance	1' **
EX-N	Unknown	12"	6" PVC	3.5'-14'	--	--	--	No	No	No record of construction found	Decommission Drill out	No
EX-S	Unknown	12"	4" PVC	0'-15'	--	--	--	No	No	No record of construction found	Decommission Pressure grout	No

Notes:

* Used camera to verify screen interval on all wells greater than 1" diameter, with the exception of IP-7, product level was above the screen interval.

** Blockage or sediment removed during well redevelopment 9/29 -10/3, 2016

N/A Not Applicable

? Unable to verify due to blockage, product level, or casing diameter

-- No Parts Needed

20' Total well depth recorded on well log