

March 19, 2018

Project No. 073-93368-06.09A

Harry Grant
Riddell Williams P.S.
1001 Fourth Avenue, Suite 4500
Seattle, WA 98154

**RE: PERFORMANCE GROUNDWATER MONITORING REPORT – FALL 2016 SEMI-ANNUAL
SEA-TAC DEVELOPMENT SITE (MASTERPARK LOT C)**

Dear Harry:

Golder Associates Inc. (Golder) completed performance groundwater monitoring at the Sea-Tac Development Site (MasterPark Lot C) November 15 and 16. Groundwater sampling was conducted in accordance with the Compliance Monitoring Plan, Sea-Tac Development Site (Golder 2011)¹. Groundwater samples were collected from monitoring wells, MW-06, MW-07, MW-09, MW-12, MW-13, MW-17A, MW-18, MW-19, MW-20, MW-21, MW-22, and PORT-MW-B (Figure 1). Monitoring wells MW-07, MW-09, MW-12, MW-13, MW-17A, MW-18, and MW-22 are completed to monitor the approximate groundwater plume boundary. Monitoring wells MW-06, MW-19, MW-20, MW-21, and PORT-MW-B are completed to monitor background concentrations. Static water elevations were collected at all site wells, which also include MW-01, MW-05, MW-08A, MW-10, MW-11, MW-14, MW-15, MW-16 and MW-23.

1.0 SAMPLING PROTOCOL

Groundwater sampling was conducted in accordance with the Compliance Monitoring Plan, Sea-Tac Development Site (Golder 2011)¹, and included the following activities:

- Measurement of static water elevations at monitoring wells.
- Well purging to ensure sample representativeness with the dedicated submersible bladder pumping systems.
- Measurement of field parameters including: pH, specific conductance, temperature, dissolved oxygen, and turbidity.
- Collection of all purge water in appropriate containers for on-site storage prior to disposal.
- Collection of representative and quality assurance / quality control (QA/QC) samples in appropriate containers.
- Analyses of groundwater for volatile organic compounds (VOCs, EPA Method 8260C): gasoline range hydrocarbons, benzene, toluene, ethylbenzene, xylene, ethylene dibromide (EDB), naphthalene, and n-hexane; and for diesel and motor oil range Northwest Total Petroleum Hydrocarbons (Method NWTPH-D).

¹Golder Associates Inc. (Golder). 2011. Attachment E: Compliance Monitoring Plan Sea-Tac Development Site, SeaTac Washington. November 2.



Sampling activities were documented on Sample Integrity Data Sheets (SIDS), which are provided in Appendix A. Appendix B provides data tables and trend graphs for all sampling events. Table 1 presents water depth measurements and elevations that were collected from wells prior to sampling activities. Table 2 shows a summary of the field parameters and laboratory analytical results for each groundwater sample collected in November 2016.

2.0 FALL 2016 SEMI-ANNUAL GROUNDWATER SAMPLING RESULTS

Following sample collection, all bottles were sealed, labeled, and placed in an iced cooler until delivery to the laboratory. All groundwater samples from monitoring wells were transported under chain-of-custody procedures to Analytical Resources Incorporated (ARI), of Tukwila, Washington, for analysis. Upon receipt of laboratory data reports, data underwent a data validation review. Results were compared to State of Washington Model Toxics Control Act (MTCA) Method A or B clean-up levels and Secondary Maximum Containment Levels (MCLs), whichever value is lower.

The analytical results indicate that groundwater conditions have improved significantly from those observed during the historical groundwater monitoring during the Remedial Investigation (RI) and since the startup of the In-situ Air Sparging (IAS)-Soil Vapor Extraction (SVE) system. Table 2 presents the field parameter measurements and laboratory analytical results for each groundwater sample collected in November 2016. In summary, the only performance monitored groundwater that have any MTCA or MCL exceedances are from monitoring wells MW-07 and MW-22. Below are more details on the detections during the fall 2016 monitoring event.

Results for NWTPH-Gasoline exceeded the MTCA Method A limit for groundwater when benzene is present (0.8 milligrams per liter [mg/L]) in wells MW-07 and MW-22, and the field duplicate at MW-22 (MW-22-DUP). NWTPH-Gasoline was also detected in MW-06 and MW-18 at very low levels, with both detections less than the MTCA standard. NWTPH-Gx was not detected in wells MW-09, MW-12, MW-13, MW-17A, MW-19, MW-20, MW-21, and PORT-MW-B. MW-06, observed to have a NWTPH-Gasoline concentration of 0.11 mg/L, has not previously had a NWTPH-Gasoline concentration above the laboratory Limit of Quantitation (LOQ) of 0.10 mg/L. For this reason, this MW-06 result for this round is considered to be an anomaly.

The MTCA Method A limit for benzene (5 µg/L) was not exceeded in any wells. Benzene was detected in MW-07, MW-09, MW-18, MW-22, and the field duplicate at MW-22 (MW-22-DUP), but was less than the MTCA standard. Benzene was not detected in wells MW-06, MW-12, MW-13, MW-19, MW-20, and MW-21. Benzene was detected at trace levels at MW-17A and PORT-MW-B (0.14 and 0.03 µg/L, respectively), which were below the laboratory LOQ of 0.20 µg/L.

There were detections of toluene and/or ethylbenzene in wells MW-07, MW-09, MW-18, MW-22, MW-22-DUP, and PORT-MW-B (ethylbenzene only), but the values did not exceed the MTCA standard (640 µg/L for toluene and 700 µg/L for ethylbenzene). Toluene and ethylbenzene were not detected in wells MW-06, MW-12, MW-13, MW-17A, MW-19, MW-20, MW-21, and PORT-MW-B (toluene only).

Results for total xylenes did not exceed the MTCA Method A standard (1,000 µg/L) in any wells. Xylenes were detected, but below the standard, in MW-07, MW-09, MW-13, MW-18, MW-22, MW-22-DUP, and PORT-MW-B and were not detected in wells MW-06, MW-12, MW-17A, MW-19, MW-20, and MW-21.

N-hexane was detected, and below the MTCA Method B level (480 µg/L), in wells MW-06, MW-07, MW-18, MW-22, and MW-22-DUP. The N-hexane detection at MW-06 was at trace levels (0.1 µg/L) below the laboratory LOQ of 0.20 µg/L. The N-hexane detections in MW-06, MW-07, MW-22 and MW-22-DUP were J-flagged as detected, but estimated. N-hexane was not detected in wells MW-09, MW-12, MW-13, MW-17A, MW-19, MW-20, MW-21, and PORT-MW-B.

Naphthalene was detected above the MTCA limit (160 µg/L) in wells MW-22 and MW-22-DUP. Naphthalene was also detected, but below the MTCA limit, in MW-07. Naphthalene was not detected in wells MW-06, MW-09, MW-12, MW-13, MW-17A, MW-18, MW-19, MW-20, MW-21, and PORT-MW-B.

Results for NWTPH-Diesel were detected above the MTCA Method A limit (0.5 mg/L) in wells MW-07, MW-22, and MW-22-DUP. NWTPH-Diesel was detected, but below the MTCA limit in wells MW-06, MW-09, MW-12, MW-13, and MW-18. NWTPH-Diesel was not detected in MW-17A, MW-19, MW-20, MW-21, and PORT-MW-B. All diesel concentrations were less than 3 mg/L or not detected. NWTPH-Motor Oil was not detected (<0.20 mg/L) for all samples.

3.0 DATA QUALITY ASSURANCE / VALIDATION

Data underwent a data validation review and in general, the data were acceptable, except for the following:

- Samples MW-07, MW-22, and MW-22-DUP had to be diluted due to high levels of analytes.
- One field blank had detections of ethylbenzene, m, p-xylene, and naphthalene at 0.13 J, 0.24 J and 0.14 J µg/L, respectively. Associated samples with detections of ethylbenzene, m, p-xylene, and naphthalene between the Detection Limit (DL) and the LOQ were qualified as non-detect (U) at the LOQ. No action was taken for results greater than the LOQ.
- n-Hexane results for two samples from MW-22 were qualified as biased high (J+) when associated surrogate recovery was above QC criteria.
- Results for QA/QC samples (field blanks, trip blanks, and field duplicate) were acceptable except as discussed above. No other issues were noted.

4.0 SUMMARY

The analytical results for the fall 2016 semi-annual groundwater sampling indicate that there continues to be significant improvements to the groundwater conditions following the startup of the IAS-SVE system and since the first quarter (February 2014) groundwater sampling event. The first sampling event in February 2014 had 24 results that were greater than the MTCA clean-up levels, while the most recent sampling event in November 2016 had only 5 results above MTCA clean-up levels out of 120 results. Overall, concentrations are trending downward as shown in the historical data tables and graphs in Appendix B.

The only on-site performance monitoring well containing compounds in groundwater with analytical results above MTCA clean-up levels in November 2016 was MW-07. A single on-site monitoring well (MW-11), which had detected contaminants over MTCA clean-up levels during the RI, is not sampled for performance monitoring and thus no new results from MW-11 are available for comparison. At MW-07, although there was a decrease in gasoline, benzene and diesel concentrations compared to May 2016, gasoline and diesel results remained above the MTCA clean-up levels. MW-18, that was in the source leak area, had an increase in diesel level showing change of a trending stabilization over the previous four sampling events, with the November 2016 diesel level slightly below the MTCA clean-up level with a concentration of 0.48 mg/L. Even with gasoline and diesel results higher than observed in December 2015, the results of gasoline, benzene, and diesel are all lower than the first sampling event in February 2014. The only off-site performance monitoring well that was sampled and contained compounds in groundwater with analytical results above the MTCA clean-up levels in November 2016 was MW-22; although two off-site monitoring wells (MW-15 and MW-16), which had detected contaminants over MTCA clean-up levels during the RI, are not sampled for performance monitoring and thus no new results from these locations are available for comparison.

Wells MW-12 and MW-13 showed the greatest drop in concentrations since the startup of the IAS-SVE system with NWTPH-Gx levels going from 8.6 mg/L to <0.10 mg/L and 14 mg/L to <0.10 mg/L, respectively. Benzene in MW-12 went from 79 µg/L to <0.20 µg/L. Toluene, ethylbenzene, total xylenes, and naphthalene in MW-12 and MW-13 also showed significant decreases in concentrations.

The wells inside of the IAS and SVE system area have significant reductions and are almost meeting performance goals. Refer to Appendix B for data tables and trend graphs for comparisons of the March 2010 final RI monitoring event with the 2014-2016 performance monitoring results.

If you have any questions or require any additional information, please contact Lee Holder at (425) 883-0777.

Sincerely,

GOLDER ASSOCIATES INC.



Aaron M. Rydecki
Senior Project Environmental Scientist



Lee K. Holder, PE
Associate Environmental Engineer

cc: Roger McCracken, McCracken Group
Tamarah Knapp-Hancock, Scarsella Bros. Inc.
Doug Rigoni, SeaTac Investments LLC

AMR/LKH/sb

List of Tables

Table 1	Fall 2016 Semi-Annual Groundwater Elevation Data, Sea-Tac Development Site, SeaTac, Washington
Table 2	Fall 2016 Semi-Annual Groundwater Field Parameters and Analytical Data, Sea-Tac Development Site, SeaTac, Washington

List of Figures

Figure 1 Groundwater Monitoring Locations

List of Appendices

Appendix A Sample Integrity Data Sheets (SIDS)
Appendix B Data Tables and Trend Graphs

TABLES

Table 1: Fall 2016 Groundwater Elevation Data Sea-Tac Development Site, Seatac, Washington

Sample Location ID	Date/Time Sampled	Well Data			Water Levels		
		Total Well Depth (feet bgs)	Screened Interval (feet bgs)	Casing Diameter (inches)	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)
MW-01	11/15/2016 12:18	51.0	41-51	2	361.38	48.69	312.69
MW-05	11/15/2016 11:05	58.0	48-58	2	364.26	54.25	310.01
MW-06	11/15/2016 8:34	60.0	50-60	2	369.68	59.51	310.17
MW-07	11/15/2016 12:47	53.5	43.5-53.5	2	358.69	48.50	310.19
MW-08A	11/15/2016 11:44	54.0	44-54	2	359.16	48.85	310.31
MW-09	11/15/2016 11:25	57.0	47.5-57	2	362.13	52.15	309.98
MW-10	11/15/2016 13:04	90.0	80-90	2	360.18	50.32	309.86
MW-11	11/15/2016 12:40	57.0	42-57	2	357.53	47.17	310.36
MW-12	11/15/2016 12:54	67.0	52-67	2	364.83	55.20	309.63
MW-13	11/15/2016 11:52	65.0	50-65	2	365.42	55.81	309.61
MW-14	11/15/2016 11:59	65.0	50-65	2	363.76	54.29	309.47
MW-15	11/16/2016 11:40	65.0	50-65	2	364.67	54.58	310.09
MW-16	11/15/2016 10:55	73.7	64-74	2	377.63	67.95	309.68
MW-17A ^a	11/15/2016 10:30	95.0	80-95	2	394.00	84.57	309.43
MW-18	11/15/2016 12:33	62.0	47-62	2	360.45	50.63	309.82
MW-19	11/15/2016 11:36	58.0	43-58	2	356.61	46.15	310.46
MW-20	11/15/2016 10:18	113.1	103-113	2	416.61	106.97	309.64
MW-21	11/15/2016 10:05	109.8	95-110	2	412.85	102.97	309.88
MW-22	11/16/2016 10:31	95.0	80-95	2	393.31	83.43	309.88
MW-23	11/16/2016 11:48	57.5	42.5-57.5	2	354.94	44.66	310.28
PORT-MW-B ^a	11/16/2016 12:12	99.0	79-99	2	400.00	90.31	309.69

Notes:

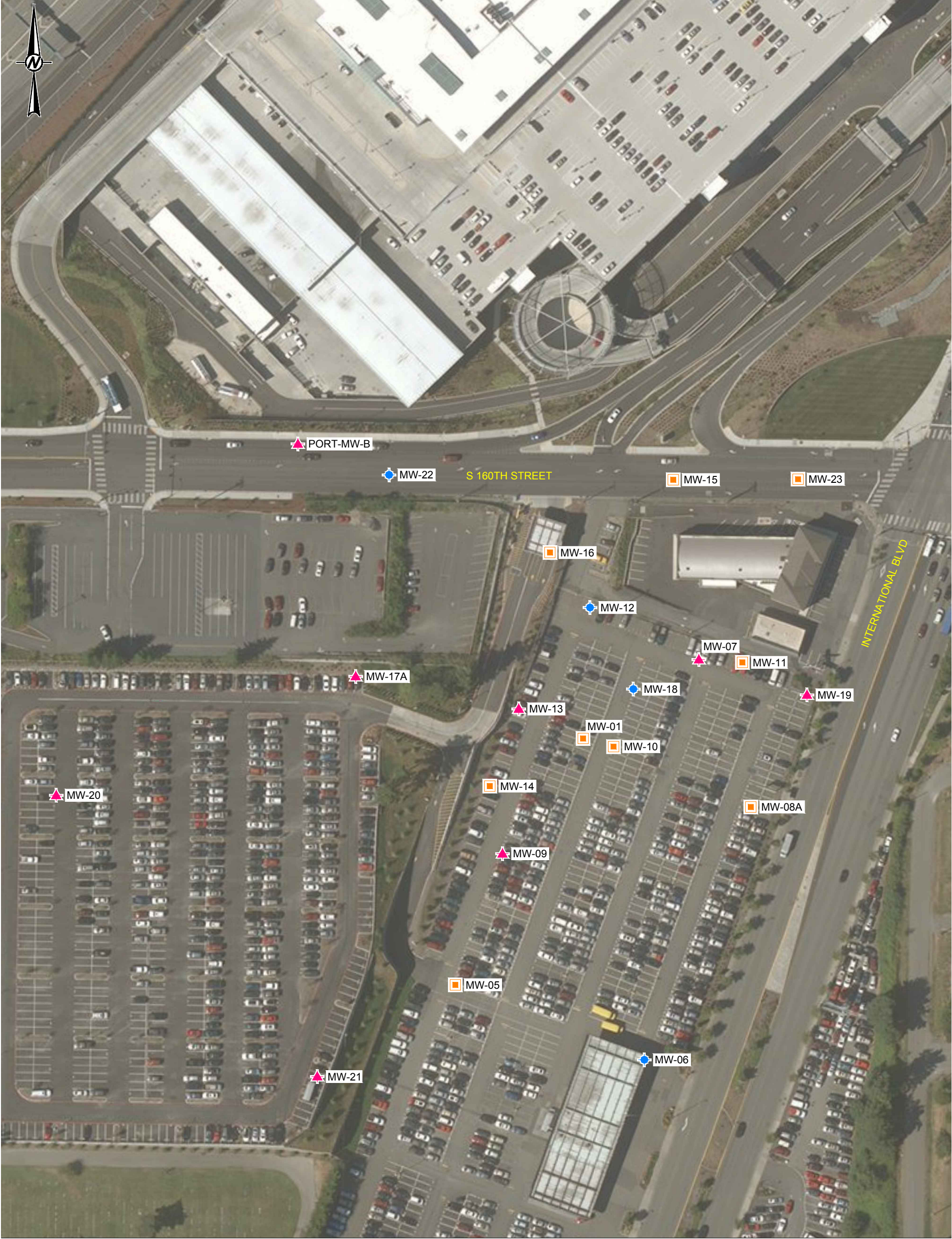
- Not measured or not available
- feet bgs Feet below ground surface
- feet bmp Feet below measuring point
- feet msl Feet above mean sea level
- TOC Top of casing inside PVC well
- ^a Well not surveyed, elevation estimated.
- ^b Top of pump is above water level - not measured.

Table 2: Fall 2016 Groundwater Field Parameters and Analytical Data, Sea-Tac Development Site, Seatac, Washington

Sample Location ID	Date/Time Sampled ^c	Field Parameters								Analytical Data											
		TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)		
MW-06 ^{b,c,n}	11/15/2016 9:20	369.7	59.5	310.2	6.34	13.7	352	7.42	418	0.11	<0.20	<0.20	<0.20	<0.40	<0.20	0.1 J	<0.50	0.17	<0.20		
MW-07 ^b	11/16/2016 14:10	358.7	48.5	310.2	6.54	15.9	411	1.39	3.95	8.3	4.3	10	40	85	<0.20	10.8 J	37	2.44	<0.20		
MW-09 ^b	11/15/2016 15:00	362.1	52.2	310.0	5.94	14.5	234	1.41	0.80	<0.10	0.23	0.23	0.56	0.32	<0.20	<0.20	<0.50	0.20	<0.20		
MW-12 ^b	11/16/2016 9:20	364.8	55.2	309.6	7.84	14.9	199	8.45	13.4	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.50	0.16	<0.20		
MW-13 ^b	11/15/2016 16:00	365.4	55.8	309.6	7.25	14.1	195	10.64	0.73	<0.10	<0.20	<0.20	<0.20	0.46	<0.20	<0.20	<0.50	0.19	<0.20		
MW-17A ^{a,b}	11/15/2016 12:40	394.0	84.6	309.4	6.46	12.6	122	3.76	10.2	<0.10	0.14 J	<0.20	<0.20	<0.40	<0.20	<0.20	<0.50	<0.10	<0.20		
MW-18 ^b	11/16/2016 8:10	360.5	50.6	309.8	7.55	15.0	503	6.97	2.44	0.12	3.6	1.2	2.1	9.0	<0.20	0.39	<0.50	0.48	<0.20		
MW-19 ^b	11/15/2016 11:35	356.6	46.2	310.5	6.88	14.1	586	0.37	0.81	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.50	<0.10	<0.20		
MW-20 ^b	11/15/2016 14:10	416.6	107.0	309.6	6.75	13.0	241	7.12	0.41	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.50	<0.10	<0.20		
MW-21 ^b	11/15/2016 10:45	412.9	103.0	309.9	6.30	13.4	290	6.29	4.51	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.50	<0.10	<0.20		
MW-22 ^b	11/16/2016 11:10	393.3	83.4	309.9	6.89	13.1	246	1.00	5.50	11	4.0	3.9	631	882	<0.20	5.9 J+	438	1.89	<0.20		
MW-22 Duplicate ^b	11/16/2016 11:20	-	-	-	-	-	-	-	-	11	4.1	4.0	581	777	<0.20	6.1 J+	363	2.16	<0.20		
PORT-MW-B ^{a,b}	11/16/2016 12:55	400.0	90.3	309.7	6.70	13.1	192	3.97	11.7	<0.10	0.03 J	<0.20	0.04 J	<0.40	<0.20	<0.20	<0.50	<0.10	<0.20		
Clean-up Level			MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e		5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
			MTCA Method B for Groundwater (unrestricted landuse)								NSA		5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:		
feet bgs	Feet below ground surface	-
feet bmp	Feet below measuring point	
feet msl	Feet above mean sea level	mg/L
a	Well not surveyed, elevation estimated.	µg/L
b	IAS system not in operation.	NTU
c	Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.	µmhos/cm
d	When benzene is present.	<
e	When benzene is not present.	MTCA
f	Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.	MCL
g	Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs	NSA
h	Value is more protective than Federal MCLs.	TOC
i	MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.	°C
j	Top of pump is above water level - not measured.	J
k	Well not sampled, attempted to sample with bailer	UJ
m	Well sampled with bailer, no field parameters collected	J+
n	Well sampled with bailer with field parameters collected	

FIGURE



LEGEND

MW-14

MONITORING WELL - GROUNDWATER ELEVATIONS MEASURED

MW-09

MONITORING WELL - COMPLIANCE

MW-01

MONITORING WELL - NATURAL ATTENUATION

NOTES

1. MONITORING WELL LOCATIONS ARE APPROXIMATE.

REFERENCE

IMAGE COURTESY OF USGS EARTHSTAR GEOGRAPHICS

CLIENT
RIDDELL-WILLIAMS

CONSULTANT



YYYY-MM-DD	2014-04-01
PREPARED	REDMOND
DESIGN	JL
REVIEW	DM
APPROVED	

PROJECT
SEATAC DEVELOPMENT SITE
MASTER PARK LOT C

TITLE
GROUNDWATER MONITORING LOCATIONS

PROJECT No.	U+0000	Rev.	FIGURE
073-93368x06.09A		B	1

APPENDIX A
SAMPLE INTEGRITY DATA SHEETS (SIDS)

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOT-C-MW-6-11/15/16

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E - Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler ~~QED Controller and Bladder Pump~~ Dedicated Tubing Ba. 12

Date 11/15/16 Time 0920

Media Water Station MW-6

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 59.51 Free Product Thickness:

Date & Time of Measurement: 0832 on 11/15/16

Measurements are in feet below top of well casing.

Sample Intake Point: 60 ft below top of well casing

Sample Description Turbid No odor

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
(5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
(2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/15/16

Supervisor (signature) [Signature] Date "

FIELD PARAMETERS SHEET

Well ID MW-6
Date 11/15/16
Time Begin Purge 0850
Time Collect Sample 0920

[illegible]**Comments:**

Nitrogen Tank: _____ psi
Throttle: _____ psi
Cycle ID: _____
CPM: _____
Purge Rate: _____ mL/min
PID: 0.0 ppm

Bailing w/ below pump intake

Water level fluctuation with pump cycle:

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOTG-MW-7-11/16/16

Sampling Location At end of sample tubing MPLOTG-FB-11/16/16

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/16/16 Time 1410 / FB 1345

Media Water Station MW-7

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 48.50 Free Product Thickness: NA

Date & Time of Measurement: 1247 on 11/15/16

Measurements are in feet below top of well casing.

Sample Intake Point: 52 ft below top of well casing

Sample Description Clear TPH odor

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
(5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
(2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/16/16

Supervisor (signature) [Signature] Date 11

FIELD PARAMETERS SHEET

Well ID MLW-7
Date 11/16/16
Time Begin Purge 1334
Time Collect Sample 1410

[illegible]**Comments:**

Nitrogen Tank: 110 psi
Throttle: 40 psi
Cycle ID: 50
CPM: 2
Purge Rate: 240 mL/min
PID: 1247 ppm

Water level fluctuation with pump cycle:

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOT-C-MW-9-11/15/16

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/15/16 Time 1500

Media Water Station MW-9

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 52.15 Free Product Thickness: N/A

Date & Time of Measurement: 1125 on 11/15/16

Measurements are in feet below top of well casing.

Sample Intake Point: 54 ft below top of well casing

Sample Description Clear No Odor

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
(5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
(2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/15/16

Supervisor (signature) [Signature] Date 11/15/16

FIELD PARAMETERS SHEET

Well ID M6-09
Date 11/15/16
Time Begin Purge 1428
Time Collect Sample 1500

[illegible]**Comments:**

Nitrogen Tank: 110 psi
Throttle: 60 psi
Cycle ID: 103
CPM: 4
Purge Rate: ~120 mL/min
PID: 0.4 ppm

Water level fluctuation with pump cycle:

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOT-C-MW-12-111616

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/16/2016 Time 0920

Media Water Station MW-12

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 55.21' Free Product Thickness:

Date & Time of Measurement: 11/16/16 @ 0827

Measurements are in feet below top of well casing.

Sample Intake Point: 59 ft below top of well casing

Sample Description Clear, no odor,

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
1 (5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
1 (2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/16/2016

Supervisor (signature) [Signature] Date 11

FIELD PARAMETERS SHEET

Well ID MW-12

Date 11/16/2016

Time Begin Purge 0834 stopped, reconfigured pump restart @ 0844

Time Collect Sample 0920

[illegible]**Comments:**

Nitrogen Tank: 110 psi

Throttle: 60 psi

Cycle ID: 103 (10/5 sec)

CPM: 4

Purge Rate: 200 mL/min

PID: 0.1 ppm (2 TOC (5/15/16) TAs off.

Water level fluctuation with pump cycle:

Sampler's Initials AWK/JCM

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOT-C-MW-13- 11/15/16

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/15/16 Time 1600

Media Water Station MW-13

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 55.81 Free Product Thickness: N/A

Date & Time of Measurement: 1152 on 11/15/16

Measurements are in feet below top of well casing.

Sample Intake Point: 60 ft below top of well casing

Sample Description Clear No Odor

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
(5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
(2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/15/16

Supervisor (signature) [Signature] Date "

FIELD PARAMETERS SHEET

Well ID MW-13
Date 11/15/16
Time Begin Purge 1525
Time Collect Sample 1600

[illegible]**Comments:**

Nitrogen Tank: 110 psi
Throttle: 50 psi
Cycle ID: 50
CPM: 25
Purge Rate: 280 mL/min
PID: 0.1 ppm

Water level fluctuation with pump cycle:

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOT-C-MW-17A-11/15/16

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/15/16 Time 1240

Media Water Station MW-17A

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 84.57 Free Product Thickness: NA

Date & Time of Measurement: 1030 on 11/15/16

Measurements are in feet below top of well casing.

Sample Intake Point: 90 ft below top of well casing

Sample Description Clear No Odor

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
15 3 ✓ (5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
6 3 (2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/15/16

Supervisor (signature) [Signature] Date "

FIELD PARAMETERS SHEET

Well ID ML-17A
 Date 11/19/16
 Time Begin Purge 1206
 Time Collect Sample 1240

Water Level feet bmp	Time	Volume Purged	pH	Conductivity (uS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)
—	1216	—	6.53	125.6	12.7	5.80	24.4
—	1221	—	6.48	124.2	12.7	4.55	19.5
—	1226	—	6.47	122.8	12.6	4.16	13.5
—	1231	—	6.46	122.3	12.6	3.90	13.2
—	1236	—	6.46	121.7	12.6	3.76	10.2

Comments:

Nitrogen Tank: 110 psi
 Throttle: 60 psi
 Cycle ID: 50
 CPM: 2
 Purge Rate: 260 mL/min
 PID: 0.5 ppm

Water level fluctuation with pump cycle:

Sampler's Initials [Signature]

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOT-C-MW-18-111616

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/16/2016 Time 0810

Media Water Station MW-18

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 50.63' Free Product Thickness:

Date & Time of Measurement: 11/16/16 @ 0731

Measurements are in feet below top of well casing.

Sample Intake Point: 54 ft below top of well casing

Sample Description PTD = 0.4 ppm (read on 11/15/16) TAs off

Clear, no color

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
✓ (5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
✓ (2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/16/2016

Supervisor (signature) [Signature] Date //

FIELD PARAMETERS SHEET

Well ID MW-18
Date 11/16/2010
Time Begin Purge 0733
Time Collect Sample 0810

[illegible]**Comments:**

Nitrogen Tank: 110 psi
Throttle: 40 psi
Cycle ID: 50 (20/40)
CPM: 7
Purge Rate: ~~250~~ mL/min 250 mL/min
PID: 0.4 ppm (415/16) (C) TUC

Water level fluctuation with pump cycle:

Sampler's Initials AWN/JCM

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C

Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPL0TC-MW-19-111516 TTT

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler, QED Controller and Bladder Pump -- Dedicated Tubing

Date 11/15/16

Time 1410

Media Water

Station MW-19

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 46.15 Free Product Thickness:

Date & Time of Measurement: 11/15/16 1136

Measurements are in feet below top of well casing.

Sample Intake Point: 50 ft below top of well casing

Sample Description Clear No Odor

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
(5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
(2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature)**Date**

Supervisor (signature)

Date

FIELD PARAMETERS SHEET

Well ID MW-19
Date 11/15/16
Time Begin Purge 1332
Time Collect Sample 1410

[illegible]**Comments:**

Nitrogen Tank: 110 psi
Throttle: 50 psi
Cycle ID: 5
CPM: 2
Purge Rate: 260 mL/min
PID: 0.2 ppm

Water level fluctuation with pump cycle:

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOT-C-MW-20- 11/5/16

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/15/16 Time 1135

Media Water Station MW-20

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 106.97 Free Product Thickness: NA

Date & Time of Measurement:

Measurements are in feet below top of well casing.

Sample Intake Point: 111 ft below top of well casing

Sample Description clear No Oil

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
(5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
(2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/15/16

Supervisor (signature) [Signature] Date "

FIELD PARAMETERS SHEET

Well ID MW-20
Date 11/16/16
Time Begin Purge 1102
Time Collect Sample 1135

[illegible]**Comments:**

Nitrogen Tank: 110 psi
Throttle: 70 psi
Cycle ID: 50
CPM: 2
Purge Rate: 240 mL/min
PID: 0.2 ppm

Water level fluctuation with pump cycle: *NA*

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID MPLOTG-MW-21- 11/15/16

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E -- Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump -- Dedicated Tubing

Date 11/15/16 Time 1045

Media Water Station MW-21

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 102.97 Free Product Thickness: NA

Date & Time of Measurement: 10.05

Measurements are in feet below top of well casing.

Sample Intake Point: 107 ft below top of well casing

Sample Description Clear No Odor

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
✓ (5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
✓	N-hexane		
	Naphthalene		
✓ (2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/15/16

Supervisor (signature) [Signature] Date "

FIELD PARAMETERS SHEET

Well ID MW-21
Date 11/15/16
Time Begin Purge 1011
Time Collect Sample 1045

[illegible]**Comments:**

Nitrogen Tank: 110 psi
Throttle: 60 psi
Cycle ID: 50
CPM: 2
Purge Rate: 246 mL/min
PID: 00 ppm

Water level fluctuation with pump cycle:

Sampler's Initials_____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A
 Site Location SeaTac, WA Sample ID MPLOTG-MW-22-11/16/16
 Sampling Location At end of sample tubing MPLOTG-MW-22-DUP-11/16/16
Low Flow Sampling
 Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)
 Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing
 Date 11/16/16 Time 110/1120 (DUP)
 Media Water Station MW-22
 Sample Type: grab time composite space composite
 Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)
 Static Water Level: 83.43 Free Product Thickness:
 Date & Time of Measurement: 11/16/16 RED 0.1 ppm @ 1031
 Measurements are in feet below top of well casing.
 Sample Intake Point: 89 ft below top of well casing
 Sample Description Clear, slight TPH odor;

Field Measurements on Sample (pH, conductivity, etc.)
See Field Parameters Sheet

Aliquot Amount	Analysis	Container	Preservative
✓ (5 x 2) 40 mL (10 total)	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
✓ 2x (2) 500 mL (4 total)	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/16/2016
 Supervisor (signature) [Signature] Date "

FIELD PARAMETERS SHEET

Well ID MW-22 + MW-22-DUP

Date 11/16/16

Time Begin Purge 1039

Time Collect Sample 1110/1120 (p4f)

(pH)

[illegible]**Comments:**

Nitrogen Tank: 110 psi

Throttle: 65 psi

Cycle ID: 50

CPM: 2

Purge Rate: 360 mL/min

PID: 6.1 ppm

Water level fluctuation with pump cycle:

Sampler's Initials

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-93368-06.09A

Site Location SeaTac, WA Sample ID PORT-MW-B- 111616

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E – Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump – Dedicated Tubing

Date 11/16/2016 Time 1255

Media Water Station PORT-MW-B

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 90.31' Free Product Thickness:

Date & Time of Measurement: 11/16/16 @ 1212

Measurements are in feet below top of well casing.

Sample Intake Point: 89 ft below top of well casing

Sample Description No color; lt grey turbidity @ first then clearing up after 10-15 minutes of purge,

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
✓ (5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
✓ (2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/16/2016

Supervisor (signature) [Signature] Date 11

FIELD PARAMETERS SHEET

Well ID MW-B (Port Well)

Date 11/16/16

Time Begin Purge 1218Time Collect Sample 1255

(dit)

[illegible]**Comments:**

Nitrogen Tank: 110 psi

Throttle: 70 psi

Cycle ID: 50(20/10)

CPM: 2

Purge Rate: 260 mL/min

PID: 0.1 ppm @ TUC

Water level fluctuation with pump cycle:

Sampler's Initials JWL/SCM

SAMPLE INTEGRITY DATA SHEET

Plant/Site Master Park Lot C Project No. 073-96668-06.09A

Site Location SeaTac, WA Sample ID MPL0TC-FB-111616

Sampling Location At end of sample tubing

Low Flow Sampling

Technical Procedure Reference(s) App E - Compliance Monitoring Plant Plan (Golder, Nov 2011)

Type of Sampler QED Controller and Bladder Pump - Dedicated Tubing

Date 11/16/16 Time 1345

Media Water Station MW-7

Sample Type: grab time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: Free Product Thickness:

Date & Time of Measurement:

Measurements are in feet below top of well casing.

Sample Intake Point:

Sample Description Lab provided DI water

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

<u>Aliquot Amount</u>	<u>Analysis</u>	<u>Container</u>	<u>Preservative</u>
(5) 40 mL	NWTPH-gasoline & BTEX	VOA vial	HCl
	EDB (ethylene dibromide)		
	N-hexane		
	Naphthalene		
(2) 500 mL	NWTPH-Dx	Amber Glass	none

Sampler (signature) [Signature] Date 11/16/16

Supervisor (signature) [Signature] Date 11

FIELD PARAMETERS SHEET

Well ID Field Blank
Date 11/16/16
Time Begin Purge _____
Time Collect Sample 1345

[illegible]**Comments:**

Nitrogen Tank: _____ psi
 Throttle: _____ psi
 Cycle ID: _____
 CPM: _____
 Purge Rate: _____ mL/min
 PID: _____ ppm

Field blank from
Lab Provided DI water

Water level fluctuation with pump cycle:

Sampler's Initials_

APPENDIX B
DATA TABLES AND TREND GRAPHS

DATA TABLES

Table B-1: Summary of Groundwater Sampling Results - Well MW-06
Sea-Tac Development Site, Seatac WA

Date Sampled ^{b,c}	Field Parameters								Analytical Data									
	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
19-Mar-10	369.68	60.03	309.65	5.96	13.5	409	0.87	3.75	< 0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 0.0096	< 1.0	< 5.0	-	-
11-Feb-14	369.68	59.03	310.65	6.13	12.1	139	0.91	16.4	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.08	< 0.20	< 0.50	< 0.10	< 0.20
28-May-14	369.68	-	-	6.14	14.3	454	1.03	3.71	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20 UJ	< 0.50	< 0.10	< 0.20
10-Sep-14	369.68	-	-	6.27	15.9	312.0	1.52	11.8	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-Dec-14	369.68	-	-	6.27	13.6	314.0	2.14	6.8	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
17-Jun-15	369.68	-	-	6.32	14.9	331.0	3.96	0.8	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-Dec-15	369.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-May-16	369.68	61.41	308.27	6.36	13.9	396.0	10.59	-	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20	0.19 J	<0.50	<0.10	<0.20
15-Nov-16	369.68	59.51	310.17	6.34	13.7	352	7.42	418	0.11	<0.20	<0.20	<0.20	<0.40	<0.20	0.1 J	<0.50	0.17	<0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs	Feet below ground surface
feet bmp	Feet below measuring point
feet msl	Feet above mean sea level
^a	Well not surveyed, elevation estimated.
^b	IAS system not in operation.
^c	Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.
^d	When benzene is present.
^e	When benzene is not present.
^f	Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.
^g	Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs
^h	Value is more protective than Federal MCLs.
ⁱ	MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

-	Not measured or not available
Result exceeds Clean-up Level (CUL)	
mg/L	Milligrams per liter
µg/L	Micrograms per liter
NTU	Nephelometric Turbidity Unit
µmhos/cm	Micromhos per centimeter
<	Analyte not detected above the reporting limit shown
MTCA	Model Toxics Control Act
MCL	Maximum Containment Level
NSA	No Standard Available
TOC	Top of casing inside PVC well
°C	Degrees Celsius
J	The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
UJ	The constituent was analyzed for, but was not detected above the reported sample quantitation limit; however, the value reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.

Table B-2: Summary of Groundwater Sampling Results - Well MW-07
Sea-Tac Development Site, Seatac WA

	Field Parameters								Analytical Data									
Date Sampled ^{b,c}	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
18-Mar-10	358.70	48.69	310.01	6.61	13.3	354	1.41	5.18	26	230	1,100	360	4630	0.010	160	210	-	
13-Feb-14	358.69	47.72	310.97	6.56	14.3	131	0.35	3.87	29	25	110	180	2022	< 3.8	190	220	11 J	< 0.20
29-May-14	358.69	47.65	311.04	6.65	16.4	379	0.13	2.84	27	14	80	190	1811	< 1.5	140	210 B	11 J	< 0.20
11-Sep-14	358.69	47.95	310.74	6.73	16.5	373	0.35	2.28	36	17	81	260	2110	< 0.028	280	300 B J	11	0.41 J
4-Dec-14	358.69	47.95	310.74	6.70	15.7	333	0.20	2.95	26	21	66	200	1507	< 0.07	170	180	11 J	0.32 J
18-Jun-15	358.69	48.01	310.68	6.64	16.1	371	0.25	1.57	15 J	6.4	28 J	110 J	533 J	< 0.07	93 J	96 J	5.4	0.24 J
3-Dec-15	358.69	49.96	308.73	6.44	15.9	526	0.14	2.91	23	77	1200	270	1550	< 1.5	160	69	4.9 J	< 0.20
4-May-16	358.69	49.05	309.64	6.68	16.0	640	1.02	4.57	12	30	500	170	970	<0.20	150	68 J	6.5 J	0.30 J
16-Nov-16	358.69	48.50	310.19	6.54	15.9	411	1.39	3.95	8.3	4.3	10	40	85	<0.20	10.8 J	37	2.4	<0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs Feet below ground surface

feet bmp Feet below measuring point

feet msl Feet above mean sea level

^a Well not surveyed, elevation estimated.^b IAS system not in operation.^c Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.^d When benzene is present.^e When benzene is not present.^f Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.^g Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs^h Value is more protective than Federal MCLs.ⁱ MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

- Not measured or not available

Result exceeds Clean-up Level (CUL)

mg/L Milligrams per liter

µg/L Micrograms per liter

NTU Nephelometric Turbidity Unit

µmhos/cm Micromhos per centimeter

< Analyte not detected above the reporting limit shown

MTCA Model Toxics Control Act

MCL Maximum Containment Level

NSA No Standard Available

TOC Top of casing inside PVC well

°C Degrees Celsius

J The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.

B Analyte detected in an associated Method Blank at a concentration greater than one-half of laboratory's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

Table B-3: Summary of Groundwater Sampling Results - Well MW-09
Sea-Tac Development Site, Seatac WA

	Field Parameters								Analytical Data									
Date Sampled ^{b,c}	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
19-Mar-10	362.14	52.30	309.84	6.19	14.2	294	0.13	7.18	16	170	65	400	1434	0.016	100	160	-	
12-Feb-14	362.13	51.45	310.68	6.49	12.6	99.5	0.28	3.10	7.5	30	8.1	150	98	< 0.08	16	120	1.6 J	< 0.20
29-May-14	362.13	51.41	310.72	6.44	15.0	295	0.14	1.01	7.8	32	9.4	170	112	< 0.37	5.60	92 B	2.3 J	< 0.20
10-Sep-14	362.13	-	-	6.49	15.7	310	0.20	3.85	5.6	17	4.6	100	47.2	< 0.010*	< 0.20	74	2.8	< 0.20
3-Dec-14	362.13	51.68	310.45	6.47	13.6	307	0.18	2.37	4.1	14	2.8	76	8.8	< 0.07	< 0.20	44	1.9	< 0.20
17-Jun-15	362.13	51.67	310.46	6.48	15.1	331	0.18	0.75	1.7	7.2	1.3	40	1.6	< 0.07	< 0.20	18	1.5	< 0.20
3-Dec-15	362.13	-	-	6.37	14.1	477	0.96	3.91	2.2 J	8.4	1.5 J+	73	1.45 J+	< 0.07	< 0.20	5.7	1.0 J	< 0.20
3-May-16	362.13	-	-	6.51	18.3	221	4.68	1.08	<0.10	0.15 J	<0.20	0.71	<0.40	<0.20	<0.20	<0.50	0.22 J	<0.20
15-Nov-16	362.13	52.15	309.98	5.94	14.5	234	1.41	0.80	<0.10	0.23	0.23	0.56	0.32	<0.20	<0.20	<0.50	0.20	<0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs Feet below ground surface
 feet bmp Feet below measuring point
 feet msl Feet above mean sea level
^a Well not surveyed, elevation estimated.
^b IAS system not in operation.
^c Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.
^d When benzene is present.
^e When benzene is not present.
^f Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.
^g Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs
^h Value is more protective than Federal MCLs.
ⁱ MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

- Not measured or not available
 Result exceeds Clean-up Level (CUL)
 mg/L Milligrams per liter
 µg/L Micrograms per liter
 NTU Nephelometric Turbidity Unit
 µmhos/cm Micromhos per centimeter
 < Analyte not detected above the reporting limit shown
 MTCA Model Toxics Control Act
 MCL Maximum Containment Level
 NSA No Standard Available
 TOC Top of casing inside PVC well
 °C Degrees Celsius
 J The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
 J+ The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result may be biased high.
 B Analyte detected in an associated Method Blank at a concentration greater than one-half of laboratory's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

* Reported at the Limit of Quantitation (LOQ). The LOQ is less than MTCA CULs.

Table B-4: Summary of Groundwater Sampling Results - Well MW-12
Sea-Tac Development Site, Seatac WA

	Field Parameters								Analytical Data									
Date Sampled ^{b,c}	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
15-Mar-10	364.88	54.99	309.89	6.38	14.5	472	0.03	40.8	36	230	2,400	1,300	5140	0.16	210	520	-	
13-Feb-14	364.83	55.02	309.81	7.76	14.1	125	10.50	3.43	8.6	79	410	79	970	< 3.8	< 10	25	1.1 J	< 0.20
29-May-14	364.83	51.58	313.25	7.87	16.7	252	11.77	5.99	0.12	2.0	4.3	1.6	4.2	< 0.07	< 0.20	< 0.50	0.34 J	< 0.20
11-Sep-14	364.83	54.87	309.96	8.04	18.1	255	11.80	38.8	0.11	2.5	2.6	1.5	5.3	< 0.010*	0.78	0.53 B J+	0.35	< 0.20
4-Dec-14	364.83	54.87	309.96	8.04	15.1	258	11.51	153	< 0.10	< 0.25	< 0.25	0.73	6.0	< 0.07	0.18 J	0.68	0.20	< 0.20
18-Jun-15	364.83	-	-	8.09	16.3	208	9.90	2.44	< 0.25	< 0.20	< 0.20	0.10 J	2.1	< 0.07	0.26	< 0.50	0.45	< 0.20
3-Dec-15	364.83	56.74	308.09	-	-	-	-	-	< 0.25	< 0.20	< 0.20	< 0.20	<0.40	< 0.07	< 0.20	< 0.50	0.29	< 0.20
4-May-16	364.83	55.53	309.30	7.68	15.1	226	7.72	3.48	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.50	0.18 J	<0.20
16-Nov-16	364.83	55.20	309.63	7.84	14.9	199	8.45	13.40	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.50	0.16	<0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs Feet below ground surface
 feet bmp Feet below measuring point
 feet msl Feet above mean sea level
^a Well not surveyed, elevation estimated.
^b IAS system not in operation.
^c Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.
^d When benzene is present.
^e When benzene is not present.
^f Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.
^g Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs
^h Value is more protective than Federal MCLs.
ⁱ MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

- Not measured or not available
 Result exceeds Clean-up Level (CUL)
 mg/L Milligrams per liter
 µg/L Micrograms per liter
 NTU Nephelometric Turbidity Unit
 µmhos/cm Micromhos per centimeter
 < Analyte not detected above the reporting limit shown
 MTCA Model Toxics Control Act
 MCL Maximum Containment Level
 NSA No Standard Available
 TOC Top of casing inside PVC well
 °C Degrees Celsius
 J The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
 J+ The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result may be biased high.
 B Analyte detected in an associated Method Blank at a concentration greater than one-half of laboratory's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

* Reported at the Limit of Quantitation (LOQ). The LOQ is less than MTCA CULs.

Table B-5: Summary of Groundwater Sampling Results - Well MW-13
Sea-Tac Development Site, Seatac WA

Date Sampled ^{b,c}	Field Parameters								Analytical Data									
	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
19-Mar-10	365.42	55.66	309.76	6.28	12.8	271	0.16	72.1	33	14	230	890	4500	0.029	130	410	-	-
12-Feb-14	365.42	54.35	311.07	6.57	13.2	73.3	1.41	4.28	14	< 0.25	3.9	240	2070	< 0.08	< 0.20	33	1.4 J	< 0.20
29-May-14	365.42	55.62	309.80	6.84	14.7	182	10.59	4.24	0.14	< 0.25	< 0.25	0.85	18.54	< 0.07	0.11 J	< 0.50	0.32	< 0.20
10-Sep-14	365.42	54.86	310.56	7.06	14.9	137	11.06	2.41	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.010*	< 0.20	< 0.50	0.29	< 0.20
4-Dec-14	365.42	54.86	310.56	7.06	13.9	163	10.10	2.32	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	0.31	< 0.20
18-Jun-15	365.42	54.70	310.72	7.13	14.7	174	10.71	1.32	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	0.61	0.27	< 0.20
2-Dec-15	365.42	56.43	308.99	7.27	14.2	164	10.20	0.90	< 0.25	< 0.20	< 0.20	0.23	1.10 J+	< 0.07	< 0.20	< 0.50	0.26	< 0.20
3-May-16	365.42	56.30	309.12	7.79	15.8	194	14.18	1.14	< 0.10	< 0.20	< 0.20	< 0.20	0.44	< 0.20	< 0.20	< 0.50	0.12 J	< 0.20
15-Nov-16	365.42	55.81	309.61	7.25	14.1	195	10.64	0.73	< 0.10	< 0.20	< 0.20	< 0.20	0.46	< 0.20	< 0.20	< 0.50	0.19	< 0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs Feet below ground surface

feet bmp Feet below measuring point

feet msl Feet above mean sea level

^a Well not surveyed, elevation estimated.^b IAS system not in operation.^c Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.^d When benzene is present.^e When benzene is not present.^f Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.^g Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs^h Value is more protective than Federal MCLs.ⁱ MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

* Reported at the Limit of Quantitation (LOQ). The LOQ is less than MTCA CULs.

- Not measured or not available

Result exceeds Clean-up Level (CUL)

mg/L Milligrams per liter

µg/L Micrograms per liter

NTU Nephelometric Turbidity Unit

µmhos/cm Micromhos per centimeter

< Analyte not detected above the reporting limit shown

MTCA Model Toxics Control Act

MCL Maximum Containment Level

NSA No Standard Available

TOC Top of casing inside PVC well

°C Degrees Celsius

J The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.

J+ The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result may be biased high.

Table B-6: Summary of Groundwater Sampling Results - Well MW-17A
Sea-Tac Development Site, Seatac WA

Date Sampled ^{b,c}	Field Parameters								Analytical Data									
	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
17-Mar-10	385.81	76.29	309.52	6.51	9.3	145	0.52	142.0	1.70	< 1.0	< 1.0	4.0	27	< 0.0095	< 1.0	63	-	-
11-Feb-14	394.00	83.80	310.20	6.36	11.3	82.5	1.06	137.0	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.08	< 0.20	0.74	< 0.10	< 0.20
29-May-14	394.00	84.00	310.00	6.22	12.2	175	2.06	39.7	< 0.10	0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	0.62 J+	< 0.10	< 0.20
10-Sep-14	394.00	84.18	309.82	6.28	12.4	162	1.42	18.8	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	0.64 J	< 0.10	< 0.20
5-Dec-14	394.00	84.18	309.82	6.42	11.7	167	1.09	31.8	< 0.10 UJ	0.54 J	< 0.25 UJ	< 0.25 UJ	0.63 J	< 0.07	< 0.20 UJ	2.8	< 0.10	< 0.20
17-Jun-15	394.00	84.16	309.84	6.29	12.9	158	3.13	29.6	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
18-Dec-15	394.00	85.95	308.05	6.57	11.8	127	0.20	23.7	0.05 J	0.75	< 0.20	0.08 J	< 0.40	< 0.07	< 0.20	0.98 J	< 0.10	< 0.20
3-May-16	394.00	85.21	308.79	6.51	13.1	132	4.60	8.41	< 0.10	0.33	< 0.20	< 0.20	< 0.40	< 0.20	0.11 J	0.71 J	< 0.10	< 0.20
15-Nov-16	394.00	84.57	309.43	6.46	12.6	122	3.76	10.2	< 0.10	0.14 J	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.50	< 0.10	< 0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs	Feet below ground surface
feet bmp	Feet below measuring point
feet msl	Feet above mean sea level
^a	Well not surveyed, elevation estimated.
^b	IAS system not in operation.
^c	Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.
^d	When benzene is present.
^e	When benzene is not present.
^f	Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.
^g	Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs
^h	Value is more protective than Federal MCLs.
ⁱ	MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

-	Not measured or not available
	Result exceeds Clean-up Level (CUL)
mg/L	Milligrams per liter
µg/L	Micrograms per liter
NTU	Nephelometric Turbidity Unit
µmhos/cm	Micromhos per centimeter
<	Analyte not detected above the reporting limit shown
MTCA	Model Toxics Control Act
MCL	Maximum Containment Level
NSA	No Standard Available
TOC	Top of casing inside PVC well
°C	Degrees Celsius
J	The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
UJ	The constituent was analyzed for, but was not detected above the reported sample quantitation limit; however, the value reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
J+	The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result may be biased high.

Table B-7: Summary of Groundwater Sampling Results - Well MW-18
Sea-Tac Development Site, Seatac WA

Date Sampled ^{b,c}	Field Parameters								Analytical Data									
	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
18-Mar-10	360.45	50.58	309.87	6.69	14.2	586	0.11	5.39	52	2,600	6,000	1,700	6690	2.5	350	420	-	-
12-Feb-14	360.45	49.01	311.44	7.62	13.8	175	8.11	2.89	1.0	27	13	17	91.3	< 0.08	1.1	4.0	0.77 J	<0.20
29-May-14	360.45	49.75	310.70	7.98	15.2	369	10.60	7.95	0.14	6.6	1.5	4.7	9.2	< 0.07	0.64	0.84 J+	0.33 J	<0.20
11-Sep-14	360.45	49.83	310.62	8.23	15.2	498	11.23	13.1	< 0.10	0.72	0.27	0.40	0.72	< 0.010*	< 0.20	< 0.50	0.14	< 0.20
4-Dec-14	360.45	49.83	310.62	7.84	14.4	470	10.78	81.6	< 0.10	0.69	< 0.25	0.63	0.93	< 0.07	0.10 J	< 0.50	0.24	< 0.20
18-Jun-15	360.45	49.51	310.94	8.05	15.2	515	10.89	49.6	< 0.25	0.67	0.54	0.2	1.10	< 0.07	< 0.20	< 0.50	0.38	< 0.20
3-Dec-15	360.45	-	-	8.28	14.8	455	10.21	14.6	< 0.25	0.57	4.8	0.3	9.80	< 0.07	0.25	0.67	0.13	< 0.20
4-May-16	360.45	51.12	309.33	7.27	14.8	513	4.53	4.77	0.22	8.0	5.5	8.2	29.3	<0.20	1.50	1.5 J	0.37 J	<0.20
16-Nov-16	360.45	50.63	309.82	7.55	15.0	503	6.97	2.4	0.12	3.6	1.2	2.1	9.0	<0.20	0.39	<0.50	0.48	<0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs	Feet below ground surface
feet bmp	Feet below measuring point
feet msl	Feet above mean sea level
^a	Well not surveyed, elevation estimated.
^b	IAS system not in operation.
^c	Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.
^d	When benzene is present.
^e	When benzene is not present.
^f	Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.
^g	Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs
^h	Value is more protective than Federal MCLs.
ⁱ	MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

-	Not measured or not available
	Result exceeds Clean-up Level (CUL)
mg/L	Milligrams per liter
µg/L	Micrograms per liter
NTU	Nephelometric Turbidity Unit
µmhos/cm	Micromhos per centimeter
<	Analyte not detected above the reporting limit shown
MTCA	Model Toxics Control Act
MCL	Maximum Containment Level
NSA	No Standard Available
TOC	Top of casing inside PVC well
°C	Degrees Celsius
J	The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
J+	The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result may be biased high.

* Reported at the Limit of Quantitation (LOQ). The LOQ is less than MTCA CULs.

Table B-8: Summary of Groundwater Sampling Results - Well MW-19
Sea-Tac Development Site, Seatac WA

Field Parameters									Analytical Data									
Date Sampled ^{b,c}	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
18-Mar-10	356.61	46.60	310.01	7.04	12.5	275	0.07	84.0	1.3	8.9	1.8	43	6.0	< 0.0096	2.8	< 5.0	-	-
11-Feb-14	356.61	45.46	311.15	6.98	12.7	105	0.15	3.20	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.08	4.3	< 0.50	< 0.10	< 0.20
29-May-14	356.61	45.74	310.87	6.96	13.7	290	0.04	0.42	< 0.10	< 0.25	0.40	< 0.25	0.58	< 0.07	0.3	< 0.50	< 0.10	< 0.20
10-Sep-14	356.61	45.73	310.88	6.93	14.5	379	0.16	0.30	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-Dec-14	356.61	45.73	310.88	6.82	13.3	380	0.20	0.86	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
17-Jun-15	356.61	45.94	310.67	6.75	14.3	400	0.26	0.86	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
2-Dec-15	356.61	47.72	308.89	6.87	13.6	530	0.09	2.60	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-May-16	356.61	46.81	309.80	6.79	15.2	390	0.87	1.23	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.50	< 0.10	< 0.20
15-Nov-16	356.61	46.15	310.46	6.88	14.1	586	0.37	0.81	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.50	< 0.10	< 0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs	Feet below ground surface	-	Not measured or not available
feet bmp	Feet below measuring point		Result exceeds Clean-up Level (CUL)
feet msl	Feet above mean sea level	mg/L	Milligrams per liter
^a	Well not surveyed, elevation estimated.	µg/L	Micrograms per liter
^b	IAS system not in operation.	NTU	Nephelometric Turbidity Unit
^c	Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.	µmhos/cm	Micromhos per centimeter
^d	When benzene is present.	<	Analyte not detected above the reporting limit shown
^e	When benzene is not present.	MTCA	Model Toxics Control Act
^f	Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.	MCL	Maximum Containment Level
^g	Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs	NSA	No Standard Available
^h	Value is more protective than Federal MCLs.	TOC	Top of casing inside PVC well
ⁱ	MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.	°C	Degrees Celsius

Table B-9: Summary of Groundwater Sampling Results - Well MW-20
Sea-Tac Development Site, Seatac WA

Date Sampled ^{b,c}	Field Parameters								Analytical Data									
	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
17-Mar-10	430.98	121.79	309.19	6.63	10.8	359	4.82	4.37	< 0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 0.0095	< 1.0	< 5.0	-	-
20-Mar-14	416.61	106.13	310.48	6.74	11.4	377	7.82	3.32	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50 UJ	< 0.10	< 0.20
29-May-14	416.61	106.66	309.95	6.73	12.3	257	6.37	0.82	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
10-Sep-14	416.61	106.53	310.08	6.83	13.2	355	7.55	0.69	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-Dec-14	416.61	106.53	310.08	6.79	12.4	355	7.67	1.30	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
17-Jun-15	416.61	106.68	309.93	6.77	13.3	350	7.41	1.06	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-Dec-15	416.61	108.61	308.00	7.66	12.4	290	6.76	4.28	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-May-16	416.61	107.56	309.05	6.58	13.3	138	5.31	3.55	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.50	< 0.10	< 0.20
15-Nov-16	416.61	106.97	309.64	6.75	13.0	241	7.12	0.41	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.50	< 0.10	< 0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs Feet below ground surface

feet bmp Feet below measuring point

feet msl Feet above mean sea level

^a Well not surveyed, elevation estimated.^b IAS system not in operation.^c Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.^d When benzene is present.^e When benzene is not present.^f Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.^g Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs^h Value is more protective than Federal MCLs.ⁱ MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

- Not measured or not available

Result exceeds Clean-up Level (CUL)

mg/L Milligrams per liter

µg/L Micrograms per liter

NTU Nephelometric Turbidity Unit

µmhos/cm Micromhos per centimeter

< Analyte not detected above the reporting limit shown

MTCA Model Toxics Control Act

MCL Maximum Containment Level

NSA No Standard Available

TOC Top of casing inside PVC well

°C Degrees Celsius

UJ The constituent was analyzed for, but was not detected above the reported sample quantitation limit; however, the value reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.

Table B-10: Summary of Groundwater Sampling Results - Well MW-21
Sea-Tac Development Site, Seatac WA

Field Parameters									Analytical Data									
Date Sampled ^{b,c}	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
17-Mar-10	390.79	81.26	309.53	5.97	11.5	257	3.21	5.13	< 0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 0.0096	< 1.0	< 5.0	-	-
11-Feb-14	412.85	102.34	310.51	6.09	11.9	110	6.31	11.2	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.08	< 0.20	< 0.50	< 0.10	< 0.20
29-May-14	412.85	102.61	310.24	6.15	12.5	277	6.28	1.71	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
10-Sep-14	412.85	102.66	310.19	6.15	13.5	283	6.25	1.95	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-Dec-14	412.85	102.66	310.19	6.20	12.3	304	5.54	13.1	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
17-Jun-15	412.85	102.81	310.04	6.12	13.5	326	6.12	1.98	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-Dec-15	412.85	104.70	308.15	5.17	12.6	341	6.21	1.39	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
3-May-16	412.85	104.40	308.45	6.28	13.7	315	9.30	3.86	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.50	< 0.10	< 0.20
15-Nov-16	412.85	102.97	309.88	6.30	13.4	290	6.29	4.51	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.50	< 0.10	< 0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs	Feet below ground surface	-	Not measured or not available
feet bmp	Feet below measuring point		Result exceeds Clean-up Level (CUL)
feet msl	Feet above mean sea level	mg/L	Milligrams per liter
^a	Well not surveyed, elevation estimated.	µg/L	Micrograms per liter
^b	IAS system not in operation.	NTU	Nephelometric Turbidity Unit
^c	Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.	µmhos/cm	Micromhos per centimeter
^d	When benzene is present.	<	Analyte not detected above the reporting limit shown
^e	When benzene is not present.	MTCA	Model Toxics Control Act
^f	Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.	MCL	Maximum Containment Level
^g	Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs	NSA	No Standard Available
^h	Value is more protective than Federal MCLs.	TOC	Top of casing inside PVC well
ⁱ	MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.	°C	Degrees Celsius

Table B-11: Summary of Groundwater Sampling Results - Well MW-22
Sea-Tac Development Site, Seatac WA

Date Sampled ^{b,c}	Field Parameters								Analytical Data									
	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
16-Mar-10	393.31	83.63	309.68	6.65	12.5	586	0.25	82.0	15	23	74	1400	2420	< 0.0095	15	380	-	-
20-Mar-14	393.31	82.93	310.38	6.68	12.2	381	0.87	64.8	17	5.7	12	990	1503	< 0.07	7.8	400 J	1.2 J	< 0.20
28-May-14	393.31	82.72	310.59	6.73	13.2	383	0.30	2.26	18	3.9	9.7	940	1900	< 0.07	8.6	420 B	1.7 J	< 0.20
12-Sep-14	393.31	82.98	310.33	6.81	13.7	423	0.29	1.03	16	4.8	9.3	690	1103	< 1.5	9.8	460 B J	1.1 J	< 0.20
5-Dec-14	393.31	82.98	310.33	6.81	12.8	378	0.26	3.71	16	8.7	11	740	1103	< 1.5	7.2	380	0.86 J	< 0.20
25-Jun-15	393.31	82.95	310.36	6.82	13.6	354	0.52	3.34	19	5.9	7.4	750	1402	< 0.74	4.7	310	1.0 J	< 0.20
2-Dec-15	393.31	84.83	308.48	6.87	13.0	325	0.25	3.42	19	4.4	6.2	840	1503	< 1.5	3.0 J	240	1.5 J	< 0.20
4-May-16	393.31	83.85	309.46	6.84	13.3	294	0.39	3.61	15	3.8	5.0	780	1403	<0.20	8.6	470 Q	2.8 J	<0.20
16-Nov-16	393.31	83.43	309.88	6.89	13.1	246	1.00	5.50	11	4.0	3.9	631	882	<0.20	5.9 J+	438	1.89	<0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

feet bgs Feet below ground surface

feet bmp Feet below measuring point

feet msl Feet above mean sea level

^a Well not surveyed, elevation estimated.^b IAS system not in operation.^c Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.^d When benzene is present.^e When benzene is not present.^f Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.^g Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs^h Value is more protective than Federal MCLs.ⁱ MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.

- Not measured or not available

Result exceeds Clean-up Level (CUL)

mg/L Milligrams per liter

µg/L Micrograms per liter

NTU Nephelometric Turbidity Unit

µmhos/cm Micromhos per centimeter

< Analyte not detected above the reporting limit shown

MTCA Model Toxics Control Act

MCL Maximum Containment Level

NSA No Standard Available

TOC Top of casing inside PVC well

°C Degrees Celsius

J The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.

J+ The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result may be biased high.

B Analyte detected in an associated Method Blank at a concentration greater than one-half of laboratory's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

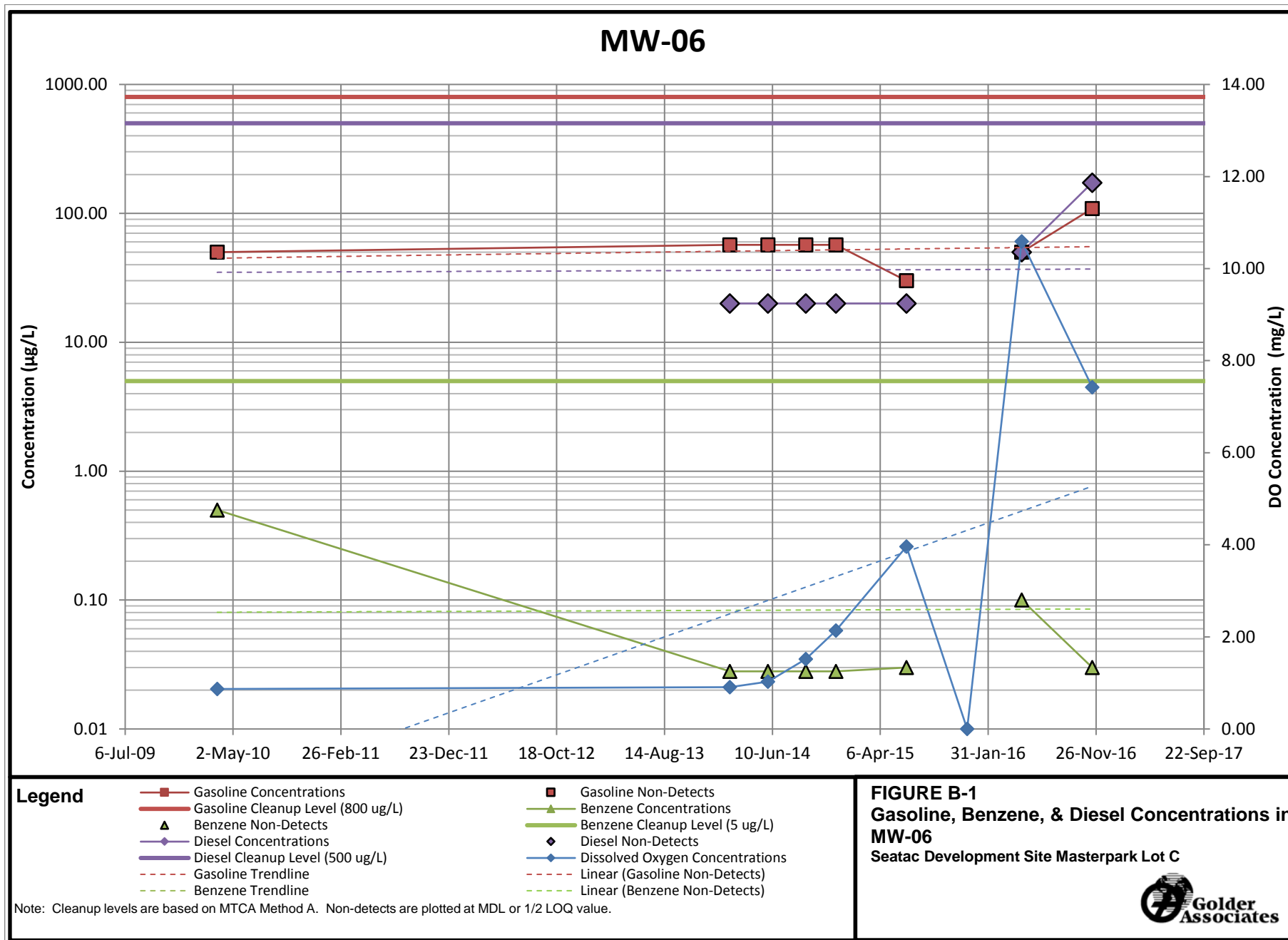
**Table B-12: Summary of Groundwater Sampling Results - Well PORT-MW-B
Sea-Tac Development Site, Seatac WA**

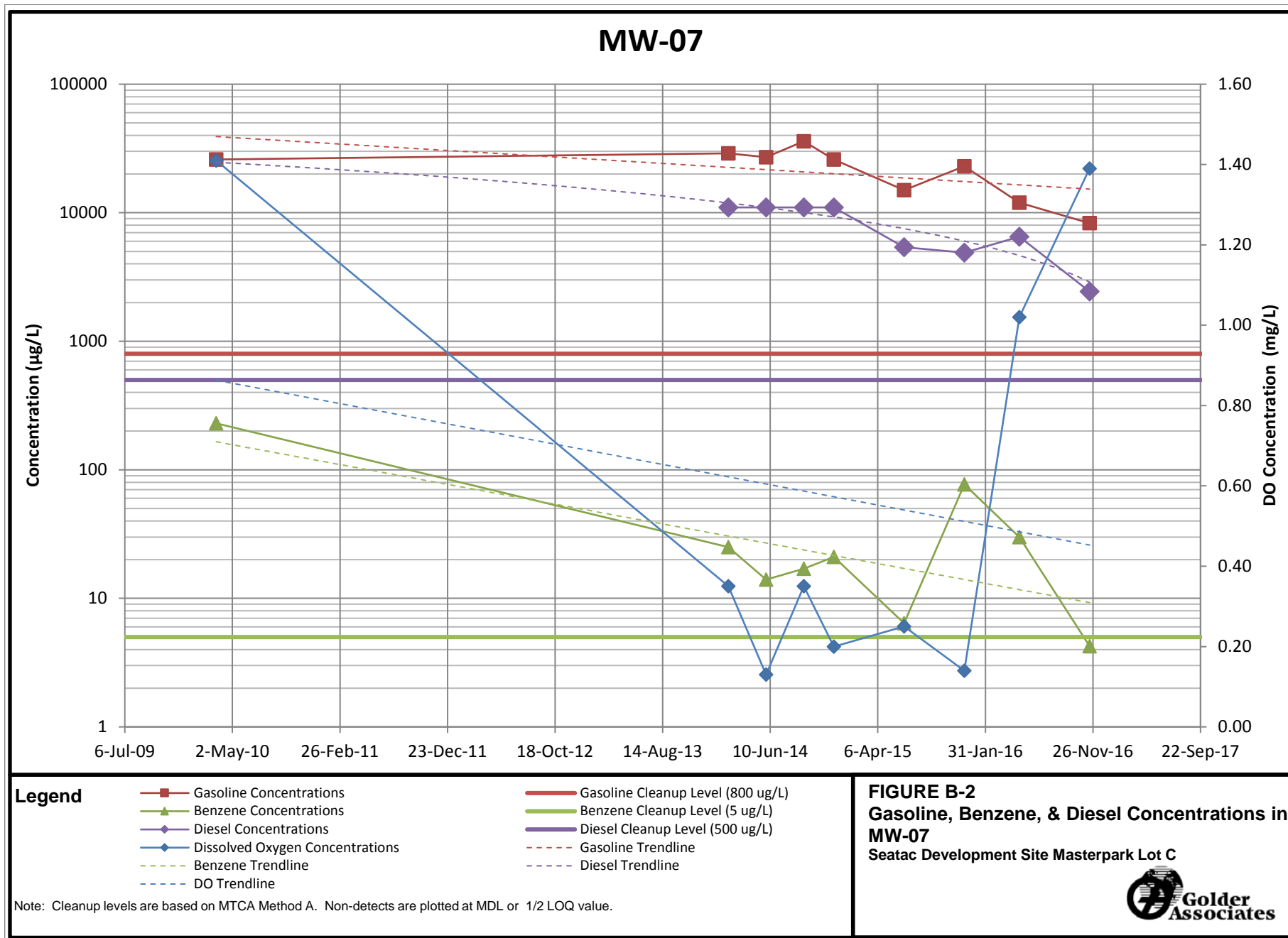
	Field Parameters								Analytical Data									
Date Sampled ^{b,c}	TOC Elevation (feet msl)	Depth to Water (feet btoc)	Groundwater Elevation (feet msl)	pH (standard units)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	NWTPH-Gasoline (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (ethylene dibromide) (µg/L) ^f	N-hexane (µg/L)	Naphthalene (µg/L)	NWTPH-Diesel (mg/L)	NWTPH-Motor Oil (mg/L)
3-Aug-11	400.00	-	-	-	-	-	-	-	0.20	1.3	< 1.0	13	3.4	< 0.01	< 1.0	13	0.28	< 0.25
20-Mar-14	400.00	89.70	310.30	6.55	12.3	267	6.16	J ^j	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50 UJ	< 0.10	< 0.20
28-May-14	400.00	89.50	310.50	6.50	14.2	317	4.63	98.3	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
12-Sep-14	400.00	89.71	310.29	6.56	14.0	266	3.56	6.18	< 0.10	< 0.25	< 0.25	1.1	1.9	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
5-Dec-14	400.00	89.71	310.29	6.57	12.6	265	4.07	84.1	0.11	< 0.25	< 0.25	1.1	1.0	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
25-Jun-15	400.00	89.67	310.33	6.51	14.3	290	3.80	4.2	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07	< 0.20	< 0.50	< 0.10	< 0.20
2-Dec-15	400.00	91.61	308.39	6.56	13.0	267	2.34	1.8	< 0.25	< 0.20	< 0.20	0.3	0.40 J+	< 0.07	< 0.20	2.3 J+	< 0.10	0.49
4-May-16	400.00	90.55	309.45	6.72	13.2	219	2.59	7.4	<0.10	0.08 J	<0.20	0.74	0.5	<0.20	<0.20	0.83 J	<0.10	<0.20
16-Nov-16	400.00	90.31	309.69	6.70	13.1	192	3.97	11.70	<0.10	0.03 J	<0.20	0.04 J	<0.40	<0.20	<0.20	<0.50	<0.10	<0.20
Clean-up Level	MTCA Method A for Groundwater (unrestricted landuse)								0.8 ^d /1.0 ^e	5 ^g	1000 ^g	700 ^g	1000 ^h	0.01 ^h	NSA	160	0.5	0.5
	MTCA Method B for Groundwater (unrestricted landuse)								NSA	5 ⁱ	640	800	1600	0.022	480	160	NSA	NSA

Notes:

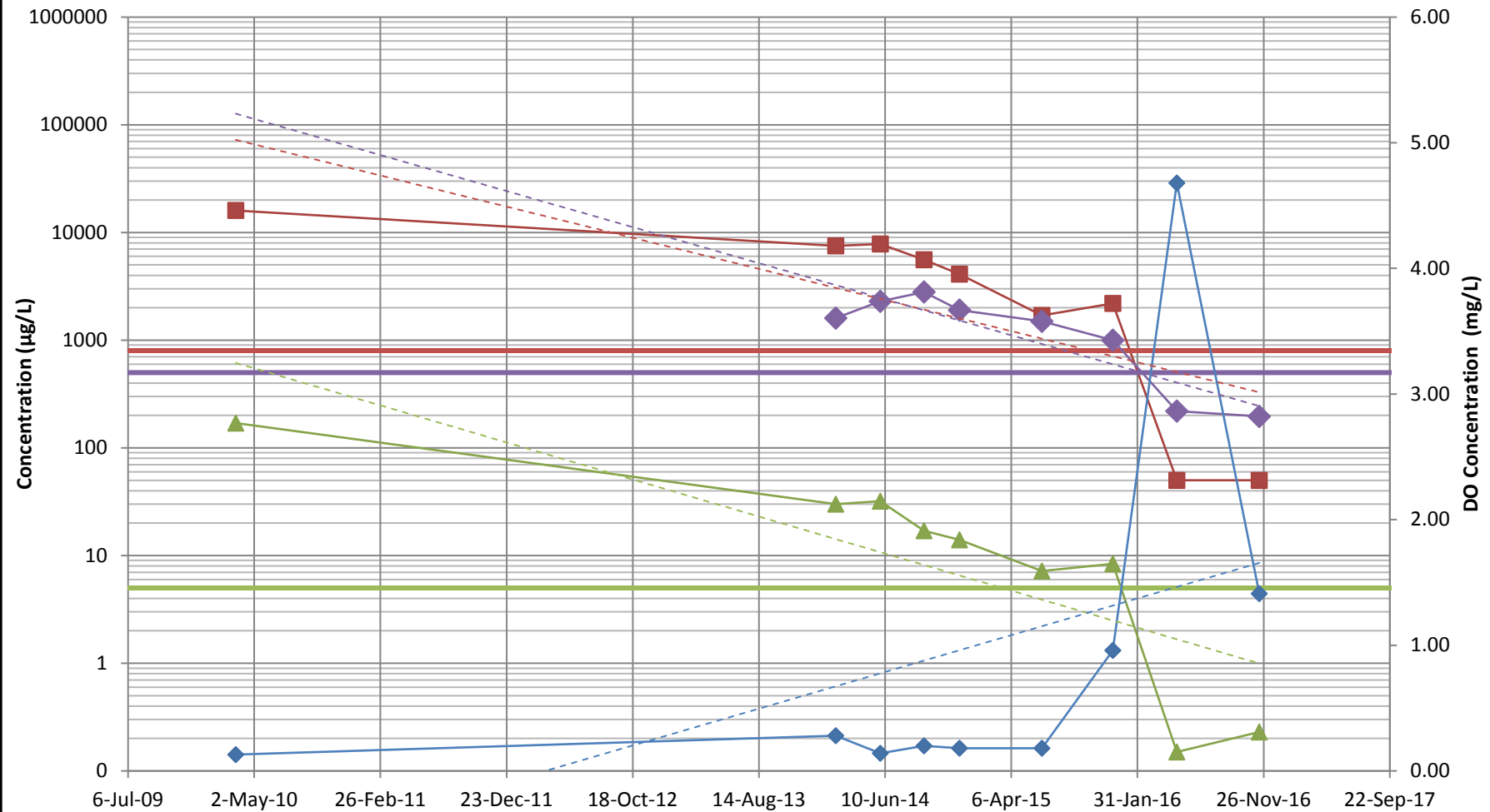
feet bgs	Feet below ground surface	-	Not measured or not available
feet bmp	Feet below measuring point		Result exceeds Clean-up Level (CUL)
feet msl	Feet above mean sea level	mg/L	Milligrams per liter
^a	Well not surveyed, elevation estimated.	µg/L	Micrograms per liter
^b	IAS system not in operation.	NTU	Nephelometric Turbidity Unit
^c	Water levels collected at various times prior to sampling (see Table 1). Date/time is sampling time.	µmhos/cm	Micromhos per centimeter
^d	When benzene is present.	<	Analyte not detected above the reporting limit shown
^e	When benzene is not present.	MTCA	Model Toxics Control Act
^f	Reported at Method Detection Limit (MDL). The MDL is greater than the MTCA CULs.	MCL	Maximum Containment Level
^g	Inclusive of 40 CFR 141.61 Federal Law for drinking water MCLs	NSA	No Standard Available
^h	Value is more protective than Federal MCLs.	TOC	Top of casing inside PVC well
ⁱ	MTCA 173-340-705(5): Adjustments to cleanup levels based on applicable laws.	°C	Degrees Celsius
^j	Turbidity out of range. Well was purged using a bailer.	J	The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
		UJ	The constituent was analyzed for, but was not detected above the reported sample quantitation limit; however, the value reported is an estimated value because the result is less than the quantitation limit or quality control criteria were not met.
		J+	The constituent was positively identified and detected; however, the concentration reported is an estimated value because the result may be biased high.

TREND GRAPHS





MW-09



Legend

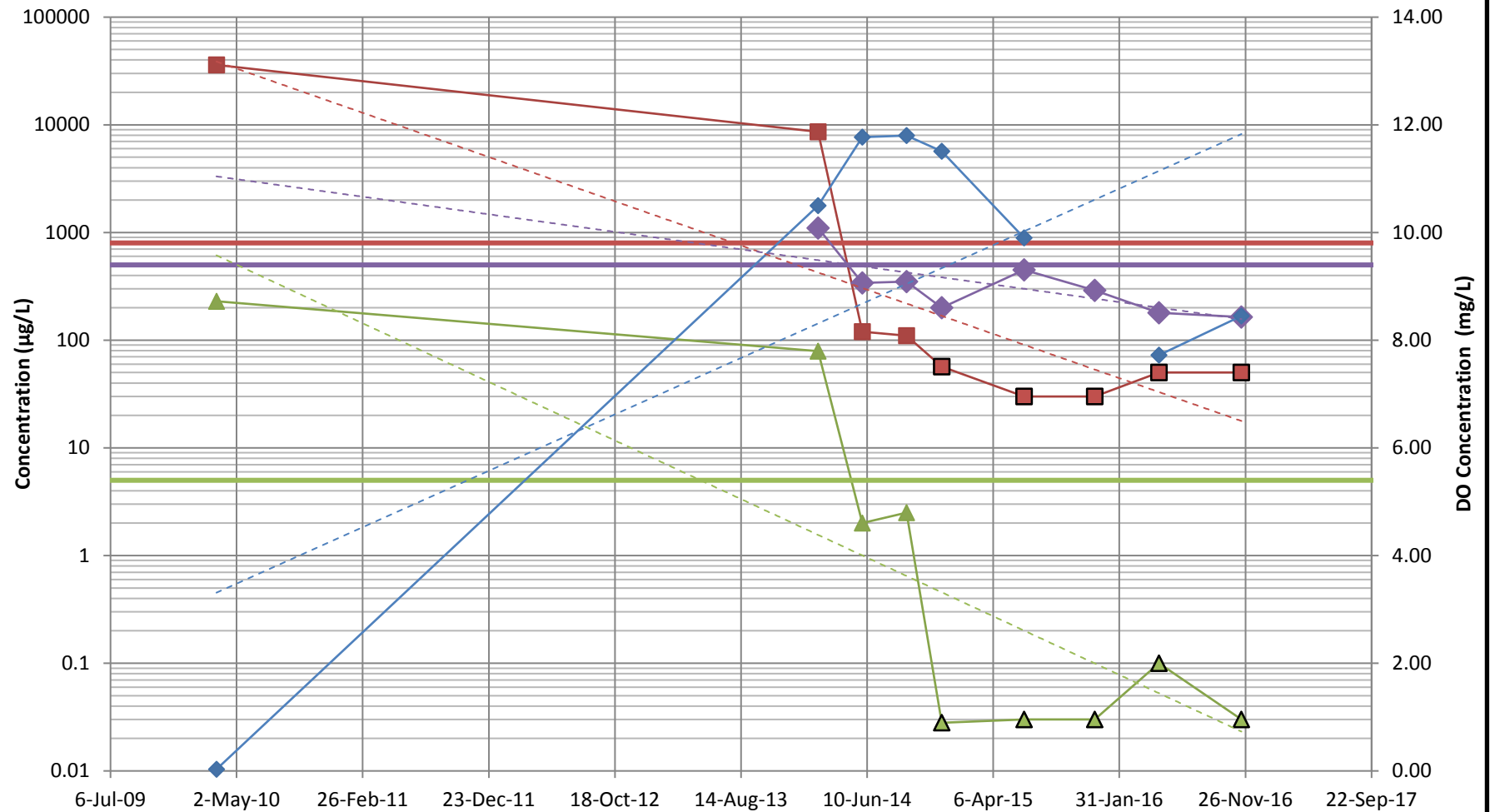
- Gasoline Concentrations
- ▲ Benzene Concentrations
- ◆ Diesel Concentrations
- ◆ Dissolved Oxygen Concentrations
- Benzene Trendline
- DO Trendline
- Gasoline Cleanup Level (800 µg/L)
- Benzene Cleanup Level (5 µg/L)
- Diesel Cleanup Level (500 µg/L)
- Gasoline Trendline
- Diesel Trendline

Note: Cleanup levels are based on MTCA Method A. Non-detects are plotted at MDL or 1/2 LOQ value.

FIGURE B-3
Gasoline, Benzene, & Diesel Concentrations in MW-09
 Seatac Development Site Masterpark Lot C



MW-12



Legend

- Gasoline Concentrations
- Gasoline Cleanup Level (800 $\mu\text{g/L}$)
- ▲ Benzene Non-Detects
- ◆ Diesel Concentrations
- Dissolved Oxygen Concentrations
- Benzene Trendline
- DO Trendline
- Gasoline Non-Detects
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 $\mu\text{g/L}$)
- Diesel Cleanup Level (500 $\mu\text{g/L}$)
- Gasoline Trendline
- Diesel Trendline

Note: Cleanup levels are based on MTCA Method A. Non-detects are plotted at MDL or 1/2 LOQ value.

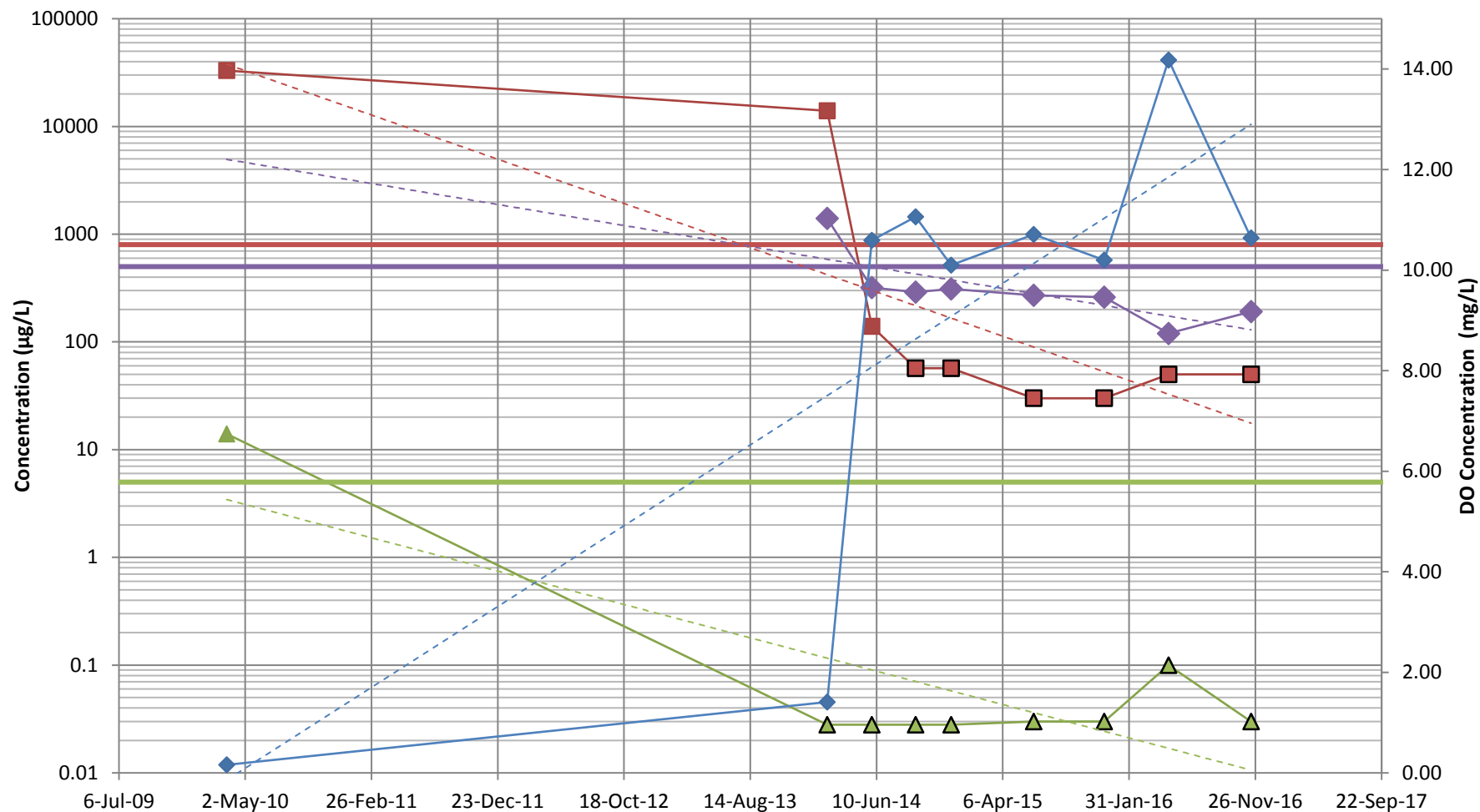
FIGURE B-4

Gasoline, Benzene, and Diesel Concentrations in MW-12

Seatac Development Site Masterpark Lot C



MW-13



Legend

- Gasoline Concentrations
- Gasoline Cleanup Level (800 µg/L)
- ▲ Benzene Non-Detects
- ◆ Diesel Concentrations
- ◆ Dissolved Oxygen Concentrations
- Benzene Trendline
- DO Trendline
- Gasoline Non-Detects
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 µg/L)
- Diesel Cleanup Level (500 µg/L)
- Gasoline Trendline
- Diesel Trendline

Note: Cleanup levels are based on MTCA Method A. Non-detects are plotted at MDL or 1/2 LOQ value.

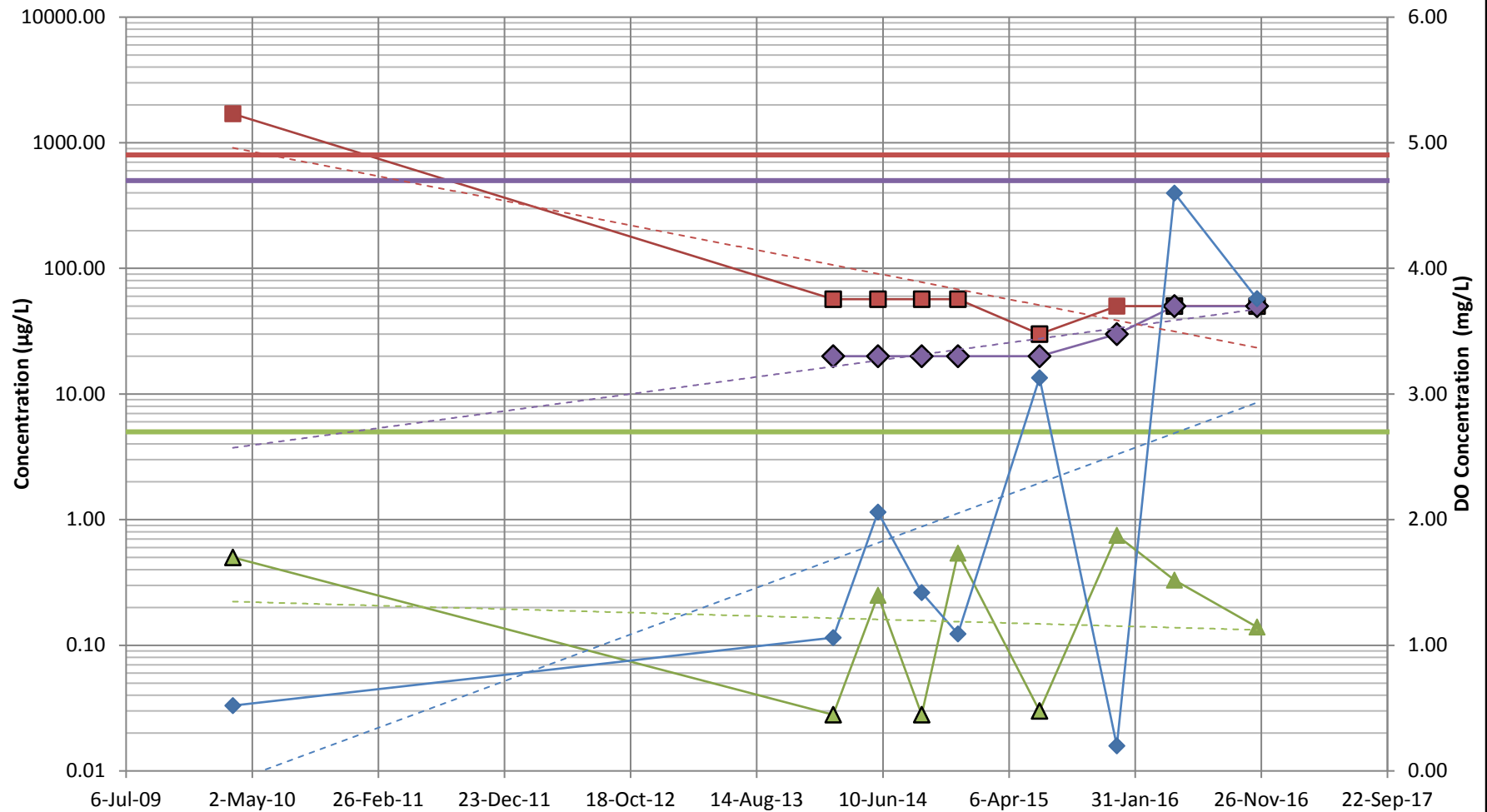
FIGURE B-5

Gasoline, Benzene, & Diesel Concentrations in MW-13

Seatac Development Site Masterpark Lot C



MW-17A



Legend

- Gasoline Concentrations
- Gasoline Cleanup Level (800 ug/L)
- ▲ Benzene Non-Detects
- ◆ Diesel Concentrations
- Diesel Cleanup Level (500 ug/L)
- - - Gasoline Trendline
- Gasoline Non-Detects
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 ug/L)
- ◆ Diesel Non-Detects
- ◆ Dissolved Oxygen Concentrations
- - - Benzene Trendline

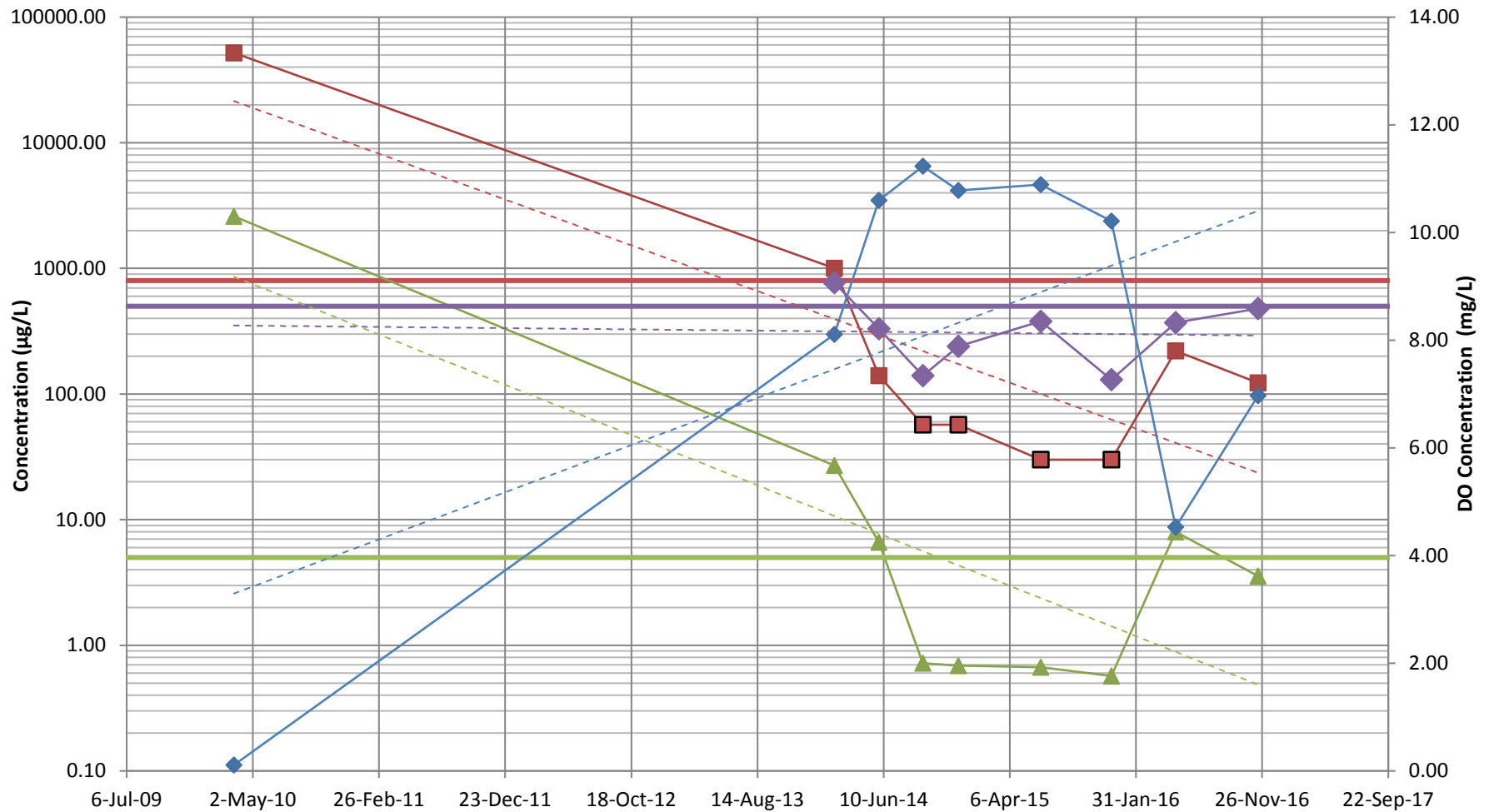
Note: Cleanup levels are based on MTCA Method A. Non-detects are plotted at MDL or 1/2 LOQ value.

FIGURE B-6

Gasoline, Benzene, & Diesel Concentrations in MW-17A
Seatac Development Site Masterpark Lot C



MW-18



Legend

- Gasoline Concentrations
- Gasoline Cleanup Level (800 ug/L)
- Benzene Cleanup Level (5 ug/L)
- Diesel Cleanup Level (500 ug/L)
- - - Gasoline Trendline
- - - Diesel Trendline
- Gasoline Non-Detects
- Benzene Concentrations
- Diesel Concentrations
- Dissolved Oxygen Concentrations
- - - Benzene Trendline
- - - DO Trendline

Note: Cleanup levels are based on MTCA Method A. Non-detects are plotted at MDL or 1/2 LOQ value.

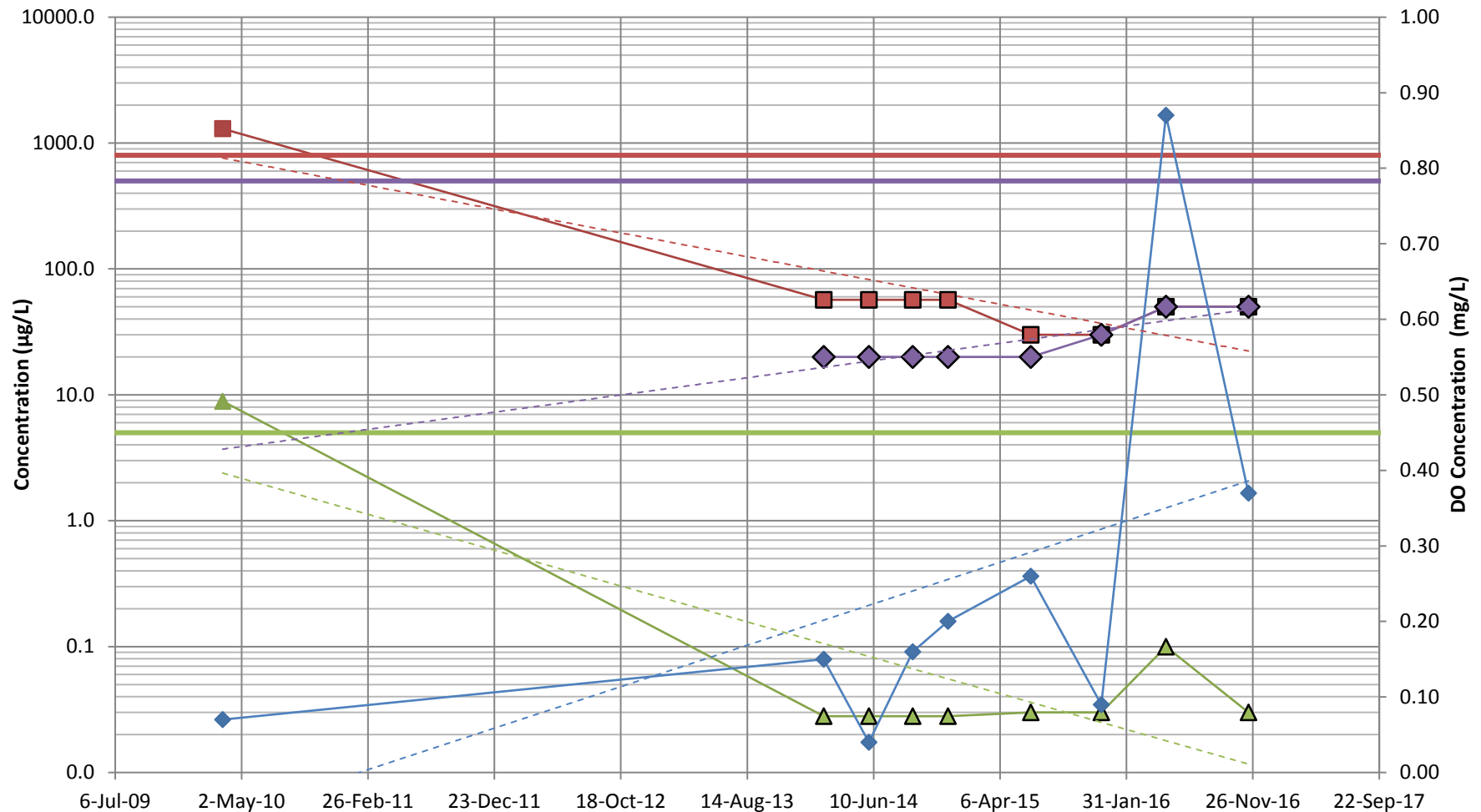
FIGURE B-7

Gasoline, Benzene, & Diesel Concentrations in MW-18

Seatac Development Site Masterpark Lot C



MW-19



Legend

- Gasoline Concentrations
- Gasoline Cleanup Level (800 $\mu\text{g/L}$)
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 $\mu\text{g/L}$)
- ◆ Diesel Concentrations
- Diesel Cleanup Level (500 $\mu\text{g/L}$)
- - Gasoline Trendline
- - Diesel Trendline
- Gasoline Non-Detects
- ▲ Benzene Non-Detects
- ◆ Diesel Non-Detects
- Dissolved Oxygen Concentrations
- - Benzene Trendline
- - DO Trendline

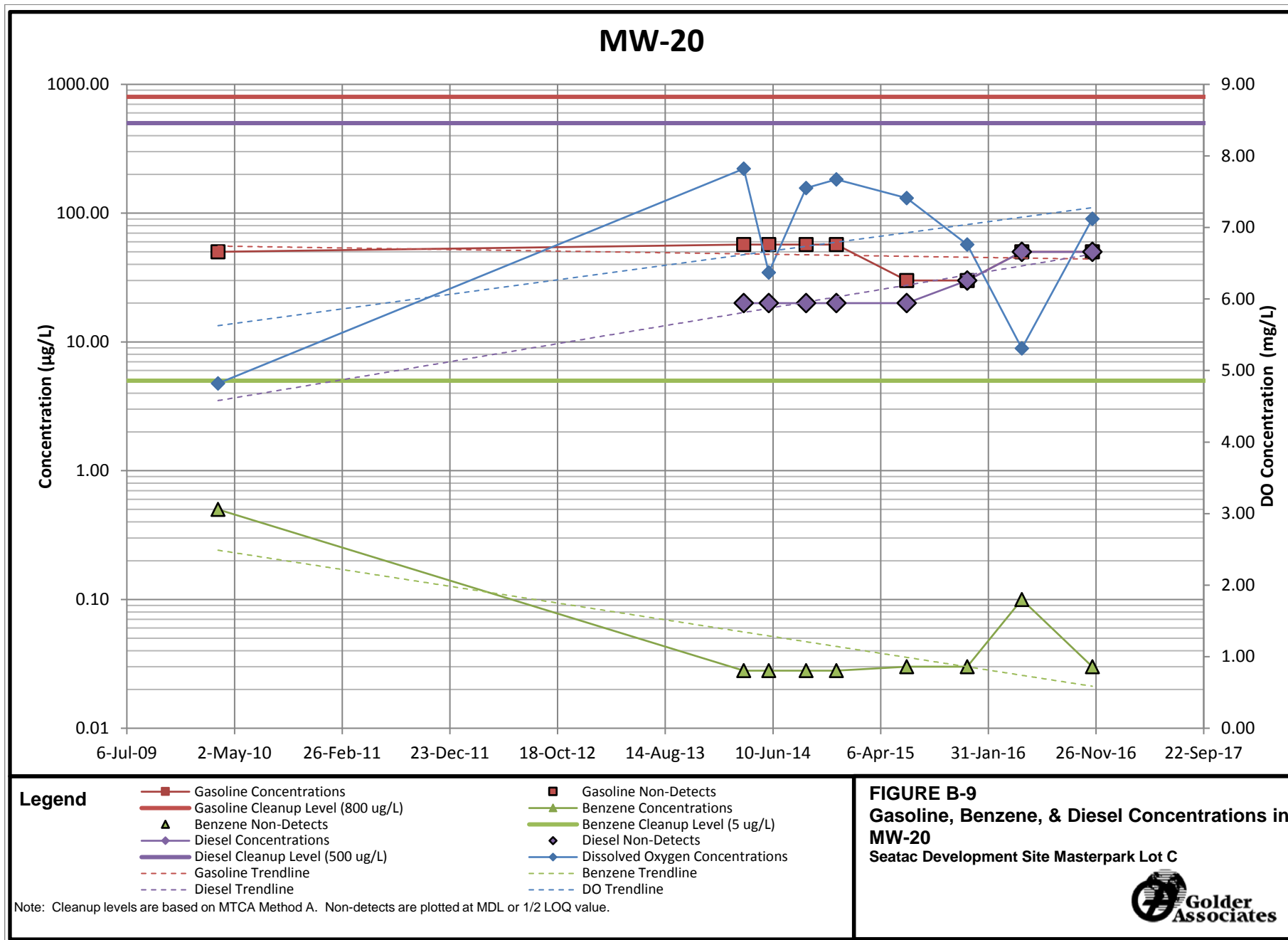
Note: Cleanup levels are based on MTCA Method A. Non-detects are plotted at MDL or 1/2 LOQ value.

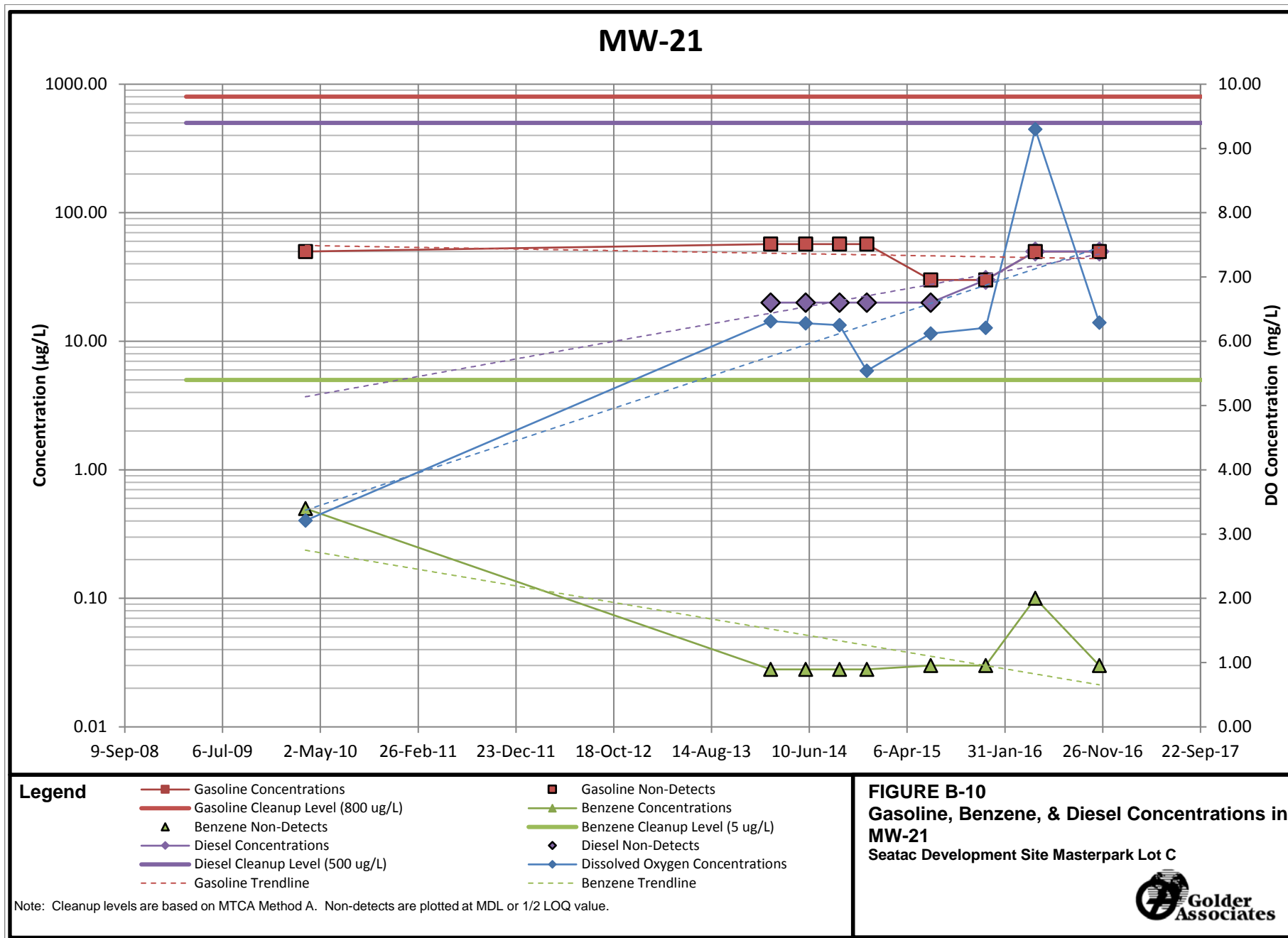
FIGURE B-8

Gasoline, Benzene, & Diesel Concentrations in MW-19

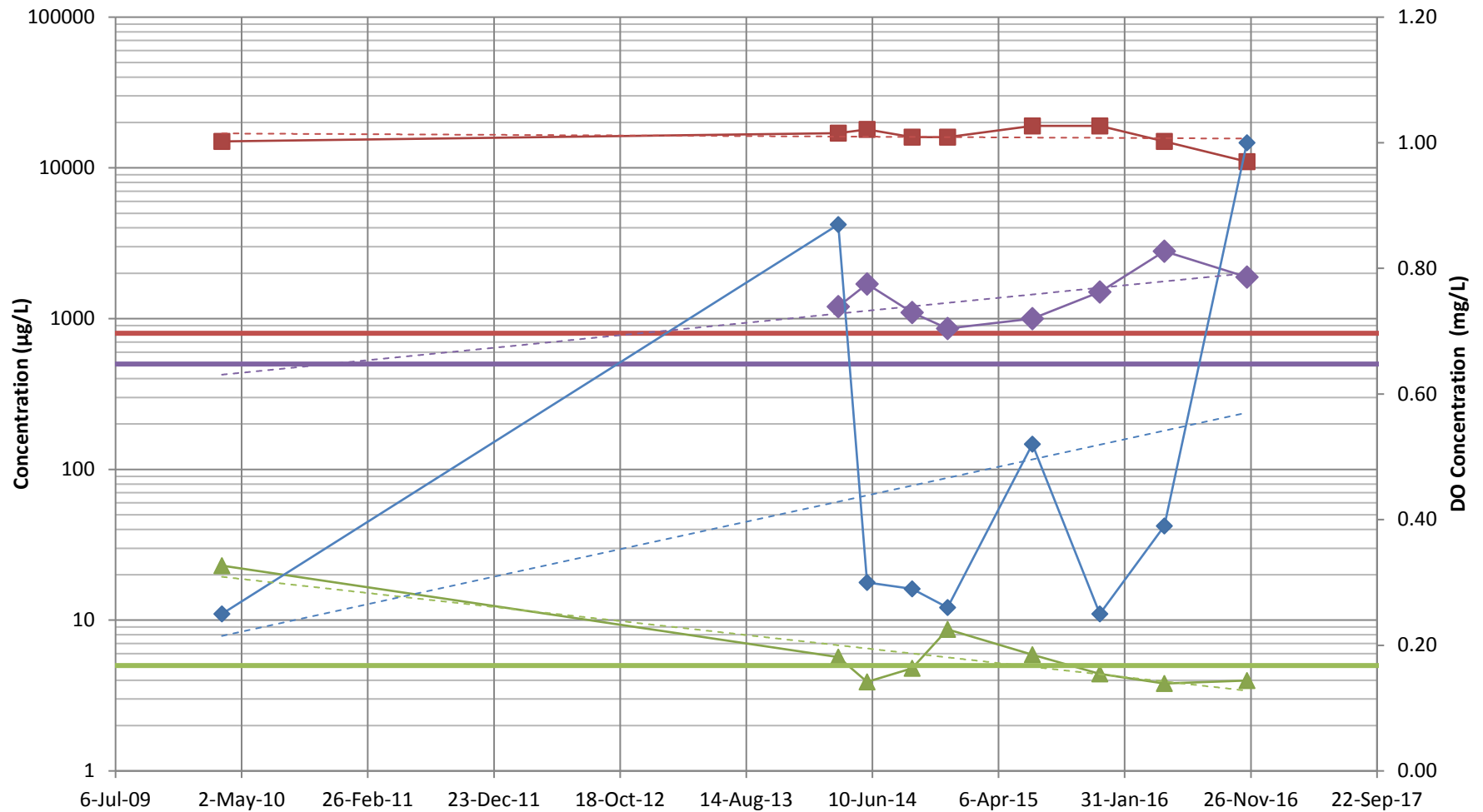
Seatac Development Site Masterpark Lot C







MW-22



Legend

- Gasoline Concentrations
- ▲ Benzene Concentrations
- ◆ Diesel Concentrations
- ◆ Dissolved Oxygen Concentrations
- Benzene Trendline
- DO Trendline
- Gasoline Cleanup Level (800 µg/L)
- Benzene Cleanup Level (5 µg/L)
- Diesel Cleanup Level (500 µg/L)
- Gasoline Trendline
- Diesel Trendline

Note: Cleanup levels are based on MTCA Method A. Non-detects are plotted at MDL or 1/2 LOQ value.

FIGURE B-11
Gasoline, Benzene, & Diesel Concentrations in MW-22
 Seatac Development Site Masterpark Lot C



