



CONFIRMATIONAL GROUNDWATER MONITORING REPORT

July 2023 Sampling Event

SeaTac Development Site (MasterPark Lot C Property)
SeaTac, Washington

August 30, 2023

Prepared for

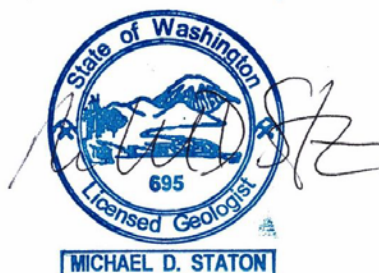
SeaTac Investments, LLC
Scarsella Bros., Inc.

Confirmational Groundwater Monitoring Report July 2023 Sampling Event SeaTac Development Site SeaTac, Washington

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LIST OF ABBREVIATIONS AND ACRONYMS

µg/L	micrograms per liter
Apex	Apex Laboratories, LLC
BTEX	benzene, toluene, ethylbenzene, and xylenes
CMP	compliance monitoring plan
COC	contaminant of concern
DO	dissolved oxygen
Ecology	Washington Department of Ecology
EDB	1,2-dibromoethane
EPA	US Environmental Protection Agency
ft	feet, foot
Golder	Golder Associates, Inc.
GRO	gasoline-range organics
IAS/SVE	<i>in situ</i> air sparging and soil vapor extraction
Landau	Landau Associates, Inc.
MDL	method detection limit
mg/L	milligrams per liter
MRL	method reporting limit
MSL	mean sea level
MTCA	Model Toxics Control Act
ORP	oxidation reduction potential
Site	SeaTac Development Site (MasterPark Lot C Property)
SLR	SLR International Corporation
subject property	16025 International Boulevard, SeaTac, Washington

1.0 INTRODUCTION

On July 31 and August 1, 2023, Landau Associates, Inc. (Landau) conducted quarterly confirmational groundwater monitoring at the SeaTac Development Site (Site), which is primarily located at 16025 International Boulevard in SeaTac, Washington (subject property). The location of the subject property, which is occupied by the MasterPark Lot C parking lot, is shown on Figure 1.

An *in situ* air sparging and soil vapor extraction (IAS/SVE) system was operated at the Site by Golder Associates, Inc. (Golder) from approximately May to July 2013, and December 2013 through July 2017 to remediate petroleum hydrocarbon-impacted groundwater. After the IAS/SVE system was deactivated in July 2017, performance groundwater monitoring was conducted on a semiannual basis from November 2017 through July 2019 to monitor changes in the petroleum hydrocarbon concentrations over time. The results of the performance groundwater monitoring showed that petroleum hydrocarbon concentrations in the groundwater beneath the northern and northwestern parts of the subject property remained above the Model Toxics Control Act (MTCA) Method A cleanup levels by July 2019 (SLR International Corporation [SLR] 2019). To reduce the remaining petroleum hydrocarbon concentrations in groundwater, SLR reactivated the IAS/SVE system on September 5, 2019. The system was operated through July 15, 2020, when it was deactivated prior to the July 2020 performance groundwater monitoring event. Based on the results of the January and July 2020 performance groundwater monitoring events (SLR 2020a, b), it appeared that the IAS/SVE system had effectively reduced the petroleum hydrocarbon concentrations in the groundwater beneath the subject property to levels that should naturally attenuate to below cleanup levels within a reasonable time frame. Therefore, the IAS/SVE system was not reactivated after the July 2020 performance groundwater monitoring event.

In accordance with the Compliance Monitoring Plan (CMP; Golder 2011) for the Site, the confirmational groundwater monitoring program has been conducted to evaluate the potential rebound of contaminant concentrations after the deactivation of the IAS/SVE system, and, if there is minimal rebound, to demonstrate that the contaminant concentrations have been reduced to below the cleanup levels or to concentrations that will naturally attenuate to below the cleanup levels within a reasonable time frame. The first four quarterly confirmational groundwater monitoring events were conducted in October 2020, January 2021, April 2021, and July 2021. The groundwater sample analytical results showed that there was some localized rebound of the gasoline-range organics (GRO) concentrations at monitoring wells MW-07, MW-12, and MW-22; however, the GRO concentrations were not at levels that justified reactivation of the IAS/SVE system (SLR 2020d, 2021a, b, c).

The first semiannual confirmational groundwater monitoring event was conducted in January 2022 in accordance with the CMP for the Site, as well as with the modifications to the confirmational groundwater monitoring program (SLR 2020c) that were approved by the Washington State Department of Ecology (Ecology; 2020). The groundwater sample analytical results showed that the sample from well MW-07 contained a GRO concentration that exceeded the MTCA Method A cleanup level. The groundwater samples from the other sampled wells did not contain analyte concentrations greater than the Method A or Method B cleanup levels (SLR 2022a).

The second semiannual confirmational groundwater monitoring event was conducted in July 2022. None of the groundwater samples contained analyte concentrations greater than the MTCA Method A or Method B cleanup levels (SLR 2022b). Because there were no groundwater contaminant of concern (COC) concentrations greater than the Site cleanup levels, SLR verbally requested to Ecology that the confirmational groundwater monitoring proceed on a quarterly basis and that the July 2022 sampling event be considered the first quarterly sampling event, with subsequent sampling events to be conducted in October 2022, January 2023, and April 2023. To support that request, SLR formally requested modifications to the confirmational groundwater monitoring program (Staton 2022). On October 10, 2022, Ecology agreed with the requested changes to the confirmational groundwater monitoring program as long as the groundwater COC concentrations remain below the Site cleanup levels (Atkins 2022).

The groundwater sample analytical results from the October 2022 and January 2023 quarterly monitoring events showed that none of the samples contained analyte concentrations greater than the Site cleanup levels (SLR 2023a, b). The groundwater sample analytical results from the April 2023 quarterly monitoring event showed that samples collected from only one location, MW-12, contained analyte concentrations greater than Site cleanup levels (SLR 2023c). The sample from MW-12 contained a benzene concentration (7.02 micrograms per liter [$\mu\text{g/L}$]) that exceeded the cleanup level; a duplicate sample collected from MW-12 contained a GRO concentration (0.90 milligrams [mg/L]) and a benzene concentration (8.04 $\mu\text{g/L}$) that exceeded the cleanup levels. Because the four quarterly confirmational sampling event results showed that the contaminant concentrations have been reduced to below the cleanup levels or, at one localized area, to concentrations that will naturally attenuate to below the cleanup levels within a reasonable time frame, Landau formally requested Ecology's approval to discontinue the groundwater monitoring program at the Site to conclude the confirmational groundwater monitoring phase and proceed with Site closure (Landau 2023). The request letter also emphasized that there is already a restrictive covenant in place for the subject property that states that "No groundwater may be taken for any use from the property excepting for purposes required by possible remedial actions." Ecology agreed to review the request but asked that the July 2023 quarterly confirmational groundwater monitoring event be conducted in the meantime. The results of the July 2023 monitoring event are reported in the following sections.

2.0 JULY 2023 GROUNDWATER MONITORING EVENT

On July 31 and August 1, 2023, Landau personnel collected groundwater samples from monitoring wells MW-07, MW-09, MW-12, MW-13, MW-16, MW-17A, and MW-18. A sample could not be collected from PORT-MW-B due to access restrictions. The locations of the groundwater monitoring wells that are included in the confirmational groundwater monitoring program are shown on Figure 2. Wells MW-15 and MW-22 are only sampled on an annual basis during the January events and were not sampled during this event.

Prior to collecting the groundwater samples, Landau personnel measured the depths to groundwater in Site monitoring wells (with the exception of those located within South 160th Street due to access restrictions) by using an electronic water level meter. During sample collection, Landau used the existing dedicated submersible bladder pumping system located in each well to purge approximately 1.0–2.0 gallons of water from the well. The pH, specific conductance, temperature, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity of the extracted water were measured approximately every 3 minutes. A groundwater sample was collected from each of the wells following the stabilization of the field parameter measurements. The final field parameter readings prior to sample collection are presented in Table 1. The groundwater samples were collected in the appropriate sample containers provided by Apex Laboratories, LLC (Apex) of Tigard, Oregon. Landau documented the groundwater purging and sampling activities on Low-Flow Groundwater Sampling Field Data Sheets, which are presented in Appendix A.

In accordance with the CMP and the modifications to the confirmational groundwater monitoring program, the groundwater samples were submitted to Apex for analysis of the groundwater COCs for the Site (benzene, toluene, ethylbenzene, total xylenes [BTEX], naphthalene, and n-hexane by US Environmental Protection Agency [EPA] Method 8260D; 1,2-dibromoethane [EDB] by EPA Method 8260D selected ion monitoring; and GRO by Ecology Method NWTPH-Gx).

The sampling purge water is stored in properly labeled 55-gallon drums at the subject property. The water will be transported to a licensed facility for off-site treatment and disposal.

2.1 Groundwater Monitoring Results

On July 31, 2023, the depths to groundwater in the monitoring wells ranged from 46.53 to 107.20 feet (ft) below the top of each well casing. The groundwater elevations in the wells ranged from 309.41 to 312.65 ft above mean sea level (MSL). The depth to groundwater measurements and groundwater elevations in the monitoring wells on July 31, 2023, are presented in Table 2.

Based on the groundwater elevations on July 31, 2023, the general groundwater flow direction beneath the subject property area was primarily to the west and southwest. Due to an anomalous depth to groundwater measurement, the groundwater elevation in MW-01 was not used to evaluate the groundwater flow direction. MW-01 is screened less than 3 ft below the high seasonal groundwater table and is frequently dry. The groundwater elevation in MW-10 was also not used to evaluate the groundwater flow direction because the top of the well screen was more than 30 ft below the

groundwater table. A groundwater elevation contour map of the data collected on July 31, 2023, is presented on Figure 3.

2.2 Groundwater Sample Analytical Results

The groundwater sample analytical results showed that the sample from MW-12 contained a GRO concentration (1.05 mg/L) that exceeded the MTCA Method A cleanup level (0.80 mg/L when benzene is present); however, a duplicate sample collected from MW-12 contained a GRO concentration (0.76 mg/L) that was below the cleanup level. The groundwater samples from MW-07, MW-09, MW-13, MW-16, MW-17A, and MW-18 did not contain analyte concentrations greater than the MTCA Method A or Method B cleanup levels. A Method B cleanup level was only used if a Method A cleanup level was not available for an analyte.

The groundwater samples collected from wells MW-07, MW-13, and MW-18 contained at least one analyte concentration above the laboratory's method reporting limits (MRLs); however, the detected concentrations were below the MTCA Method A or Method B cleanup levels. The samples collected from wells MW-09, MW-16, and MW-17A did not contain any analyte concentrations greater than the MRLs. EDB was not detected at or above the laboratory's method detection limits (MDLs) in any of the groundwater samples; however, the MDLs exceeded the Method A cleanup level in all samples.

The July 2023 groundwater sample analytical results are presented in Table 1, and the GRO and benzene concentrations are also presented on Figure 2. The groundwater sample analytical results from the July 2023 monitoring event, as well as from the previous groundwater monitoring events (groundwater COCs only), are presented in data tables and on trend plots in Appendix B. The laboratory report from the July 2023 sampling event is included in Appendix C.

3.0 DATA QUALITY ASSURANCE AND VALIDATION

Based on the results of a data validation review, the groundwater sample analytical data were acceptable with data qualifications. The naphthalene and n-hexane results for several samples were J or UJ qualified due to continuing calibration and laboratory control sample recoveries outside control limits. The analytical results of the duplicate sample (MW-32-0723) and its corresponding parent sample (MW-12-0723) were J or UJ qualified for GRO, benzene, toluene, total xylenes, and naphthalene due to high relative percentage differences.

Landau collected an equipment blank sample, and a trip blank sample was provided by the laboratory. Both samples were analyzed for BTEX and GRO. The analytical results showed that the equipment blank and trip blank samples did not contain any analyte concentrations greater than the MDLs, indicating detected concentrations in the samples were not affected by potential field contamination.

4.0 CONCLUSIONS

On July 31 and August 1, 2023, Landau conducted a quarterly confirmational groundwater monitoring event at the SeaTac Development Site. The objectives of the confirmational groundwater monitoring program are to evaluate the potential rebound of contaminant concentrations after the deactivation of the IAS/SVE system in July 2020 and, if there is minimal rebound, to demonstrate that the contaminant concentrations have been reduced to below the cleanup levels or to levels that will naturally attenuate to below the cleanup levels within a reasonable time frame.

The groundwater sample analytical results from the five quarterly confirmational monitoring events indicate localized, seasonal rebound of the GRO and benzene concentrations beneath the northwestern corner of the subject property; however, the previous IAS/SVE operations and natural attenuation have reduced the volatile petroleum hydrocarbon concentrations at the Site to below the cleanup levels or to levels that will naturally attenuate to below the cleanup levels within a reasonable time frame.

Furthermore, the localized area of remaining impacted groundwater appears to be stable. Based on the current groundwater conditions and the presence of a restrictive covenant that prevents the use of the groundwater beneath the subject property, Landau recommends the termination of the groundwater monitoring program for the Site.

5.0 USE OF THIS REPORT

This report has been prepared for the exclusive use of SeaTac Investments, LLC and Scarsella Bros., Inc., for specific application to the SeaTac Development Site. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau, shall be at the user's sole risk. Landau warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. Landau makes no other warranty, either express or implied.

6.0 REFERENCES

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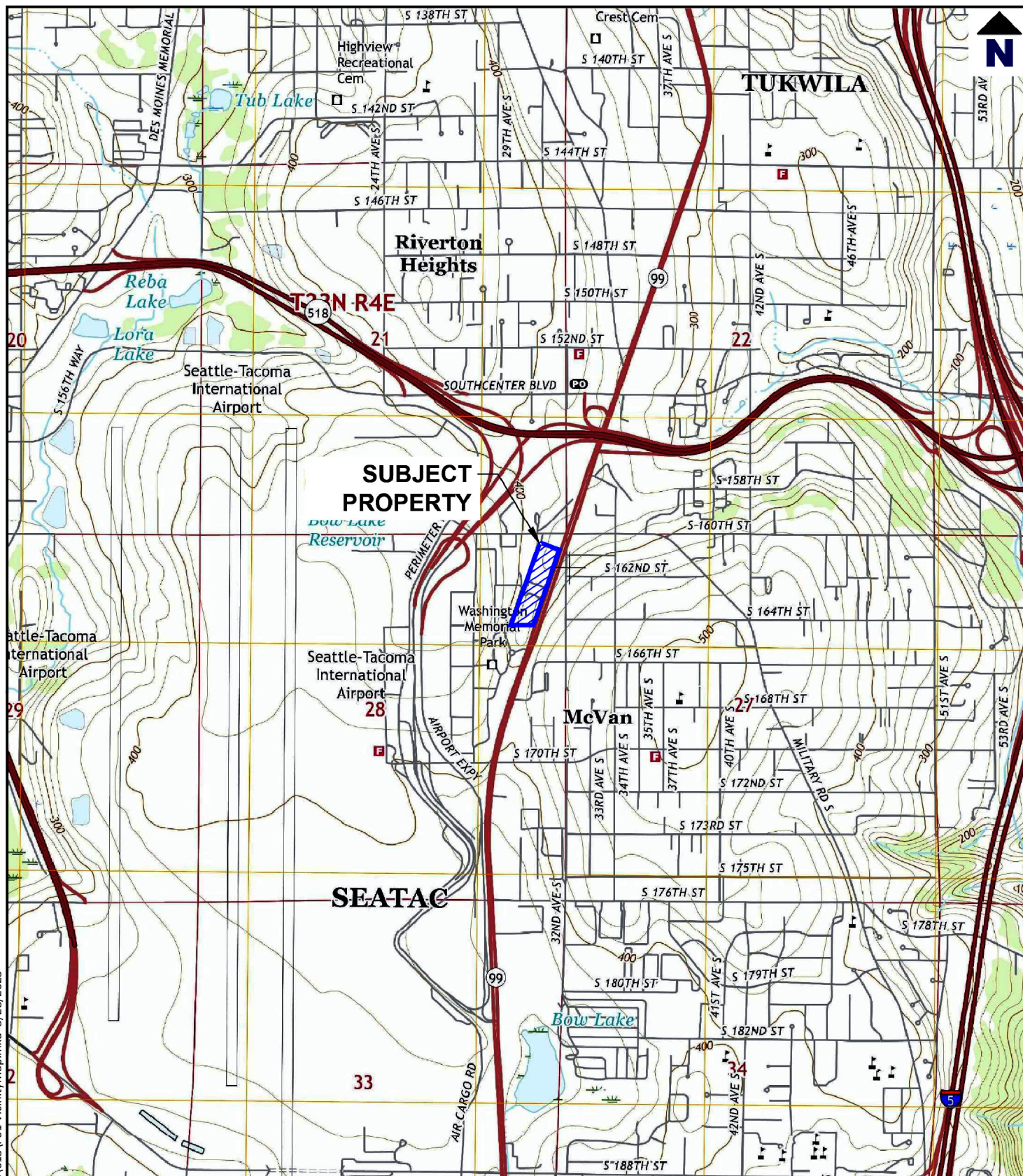
Confirmational Groundwater Monitoring Report—July 2023 Sampling Event
SeaTac Development Site (MasterPark Lot C Property)

SLR. 2023b. Confirmational Groundwater Monitoring Report—January 2023 Sampling Event, SeaTac Development Site (MasterPark Lot C Property). SLR International Corporation. March.

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G:\Projects\2218\001\010\013\F01 VicinityMap.mxd 8/28/2023



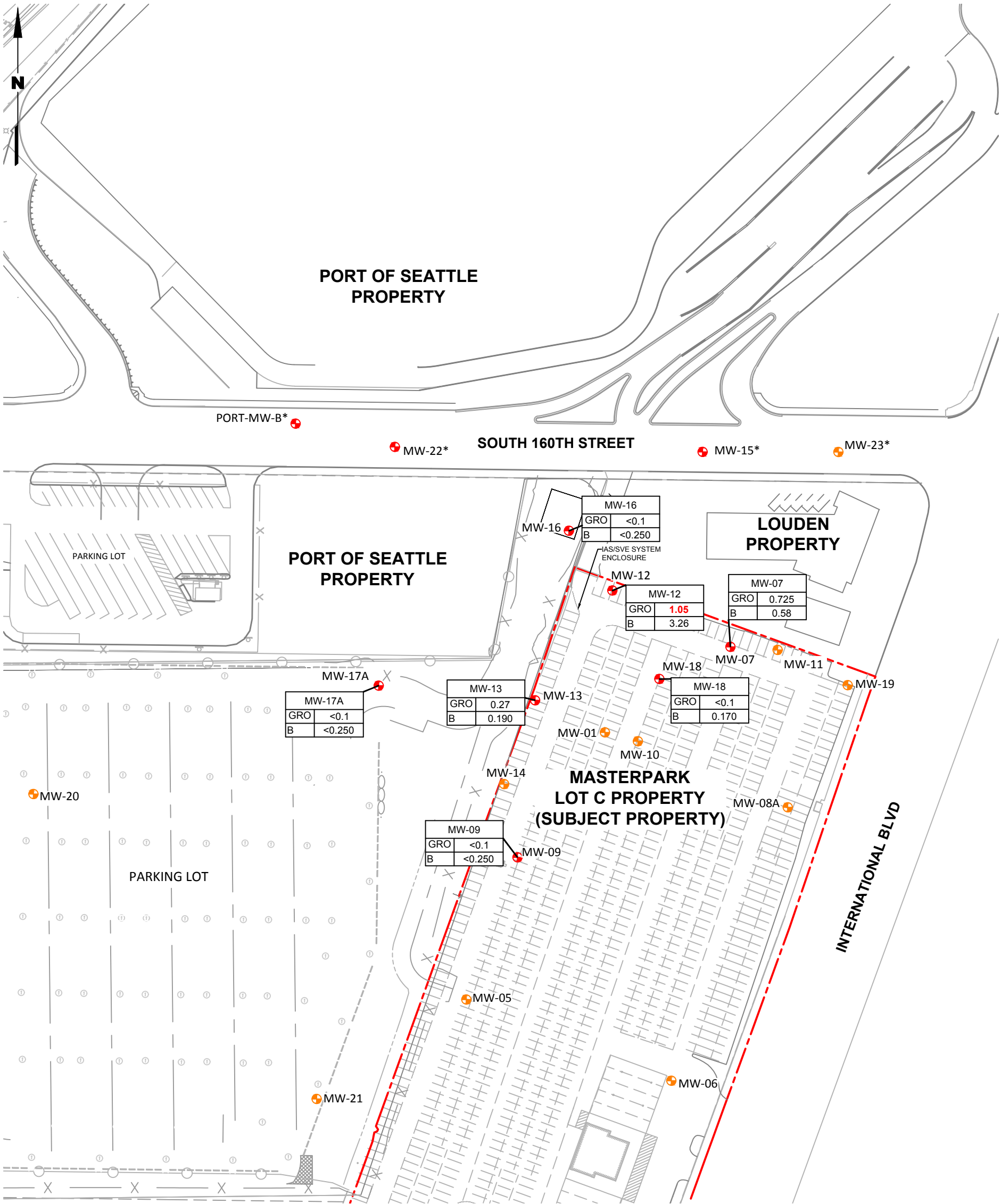
REFERENCED FROM :
USGS 7.5 MINUTE QUADRANGLE DES MOINES, 2017

0 2000' 4000'

SeaTac Development Site
SeaTac, Washington

Subject Property Location Map

Figure
1



Legend

- MW-14 SITE MONITORING WELL LOCATION AND DESIGNATION - GROUNDWATER ELEVATIONS MEASURED
- MW-09 SITE MONITORING WELL LOCATION AND DESIGNATION - CONFIRMATIONAL MONITORING WELL
- SUBJECT PROPERTY LINE
- FENCE

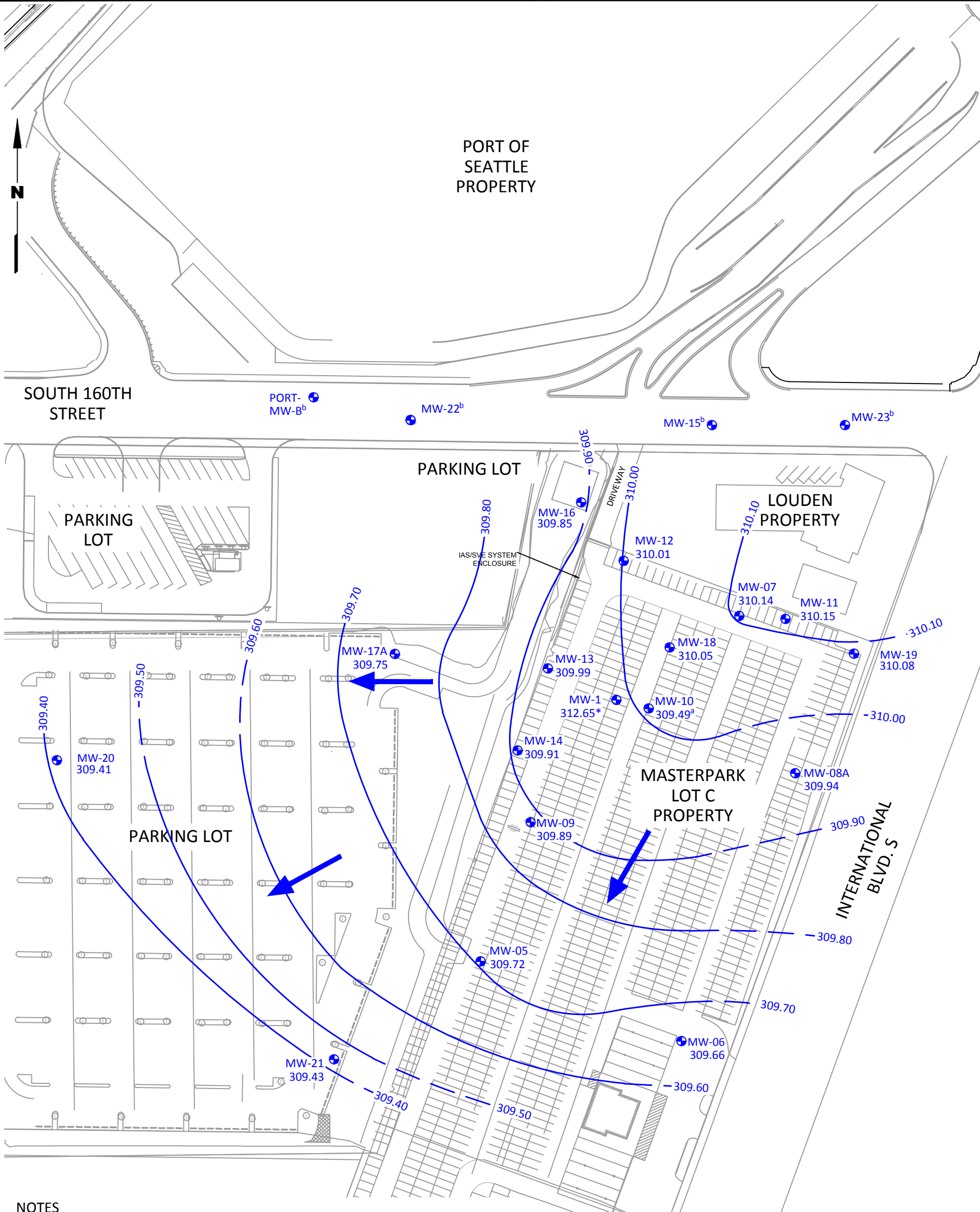
GASOLINE-RANGE ORGANICS	MW-07		SAMPLE LOCATION
	GRO	0.23	
	B	0.25	
BENZENE			ANALYTICAL RESULT IN µg/L

Source: SLR, 2023

SeaTac Development Site
SeaTac, Washington

GRO and Benzene Concentrations in
Groundwater Samples - July 2023

Figure
2



NOTES

1. BASEMAP BASED ON IAS AND SVE PIPING LAYOUT FIGURE (12/02/15) AND GROUNDWATER MONITORING LOCATIONS MAP (05/01/19) PRODUCED BY GOLDER ASSOCIATES, INC.
2. * = DUE TO AN ANOMALOUS DEPTH TO GROUNDWATER MEASUREMENT, THE GROUNDWATER ELEVATION WAS NOT USED FOR CONTOURING.
3. a = SINCE WELL MW-10 IS SCREENED OVER 30 FEET BELOW THE GROUNDWATER TABLE, THE GROUNDWATER ELEVATION IN MW-10 WAS NOT USED FOR CONTOURING.
4. b = DUE TO ACCESS RESTRICTIONS, THE WELL WAS NOT MEASURED DURING THE JULY 2023 EVENT.
5. BLACK AND WHITE REPRODUCTION OF THIS COLOR ORIGINAL MAY REDUCE ITS EFFECTIVENESS AND LEAD TO INCORRECT INTERPRETATION.

LEGEND

- MW-21  SITE MONITORING WELL LOCATION AND DESIGNATION
- 310.17 GROUNDWATER SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL) ON JULY 31, 2023
- 310.10'— GROUNDWATER SURFACE ELEVATION CONTOUR LINE (IN FEET ABOVE MEAN SEA LEVEL)
-  GENERAL GROUNDWATER FLOW DIRECTION

Source: SLR, 2023

SeaTac Development Site
SeaTac, Washington

Groundwater Elevation
Contour Map
July 2023

Figure
3

Table 1
Groundwater Field Parameters and Sample Analytical Results for Groundwater COCs
July 2023 Sampling Event
SeaTac Development Site
SeaTac, Washington

Well ID	Date Sampled	Field Parameters							Analytical Data											
		Depth to Groundwater (feet)	pH	Temperature (°C)	Specific Conductance (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	GRO ^a (mg/L)	Benzene ^b (µg/L)	Toluene ^b (µg/L)	Ethylbenzene ^b (µg/L)	Total Xylenes ^b (µg/L)	EDB ^c (µg/L)	N-hexane ^b (µg/L)	Napthalene ^b (µg/L)	DRO ^d (mg/L)	ORO ^d (mg/L)	DRO ^d after Silica Gel Cleanup (mg/L)	ORO ^d after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^e									0.8 ^f /1.0 ^g	5.0	1,000	700	1,000	0.01	480 ^h	160	0.5	0.5	0.5	0.5
MW-07	08/01/23	48.55	6.46	15.3	206	0.61	145.1	1.24	0.725	0.58	1.38	2.94	6.78	<0.0500 ⁱ	<10.0	<4.00	NA	NA	NA	NA
MW-09	08/01/23	52.24	6.12	16.2	177	1.42	148.7	0.12	<0.1	<0.250	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA	NA	NA
MW-12	07/31/23	54.82	7.41	16.10	248.30	0.53	68.20	1.58	1.05 J	3.26 J	4.96 J	44.40	143 J	<0.0100	6.06 J	8.28 J	NA	NA	NA	NA
MW-12 Duplicate ^k	07/31/23	-	-	-	-	-	-	-	0.764 J	2.25 J	3.84 J	36.60	115 J	<0.0100	<10.0	11.5 J	NA	NA	NA	NA
MW-13	08/01/23	55.43	6.62	14.4	250	1.72	139.9	0.01	0.27	0.190 J	<1.00	<0.500	<1.50	<0.360 ⁱ	<10.0	<4.00	NA	NA	NA	NA
MW-16	07/31/23	67.78	6.86	16.2	207	0.98	124.3	0.76	<0.1	<0.250	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA	NA	NA
MW-17A	08/01/23	84.70	6.17	14.5	154	4.50	189.1	1.24	<0.1	<0.250	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA	NA	NA
MW-18	08/01/23	50.40	6.78	16.0	503	0.66	168.3	0.70	<0.1	0.170 J	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA	NA	NA

Notes:

- Values in bold and **red** exceed MTCA Method A Cleanup Levels.
J = The laboratory noted that the reported result is an estimate.
- ^a Analyzed by Ecology Method NWTPH-Gx.
^b Analyzed by EPA Method 8260D.
^c Analyzed by EPA Method 8260D SIM.
^d Analyzed by Ecology Method NWTPH-Dx.
^e Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
^f When benzene is present.
^g When benzene is not present.
^h Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (January 2023).
ⁱ The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.
^j Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA Method 8260/8270 by +8%. The result is reported as an estimated value.
^k Duplicate sample named MW-32-0723 and was collected from well MW-12'

Abbreviations and Acronyms:

- °C = degrees Celsius
µg/L = micrograms per liter
µmhos/cm = micromhos per centimeter
COCs = contaminants of concern
DRO = diesel-range organics
EDB = 1,2-dibromoethane
GRO = gasoline-range organics
ID = identification
mg/L = milligrams per liter
- mV = Millivolts
NA = not analyzed
NTU = nephelometric turbidity unit
ORO = oil-range organics

Table 2
Groundwater Monitoring Data - July 31, 2023
SeaTac Development Site
SeaTac, Washington

Well Number	Top of Casing Elevation ^a (ft)	Approximate Depth of Well Screen (ft bgs)	Date Measured	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-01	361.38	41 to 51	07/31/23	48.73	312.65
MW-05	364.26	48 to 58	07/31/23	54.54	309.72
MW-06	369.68	50 to 60	07/31/23	60.02	309.66
MW-07	358.69	43.5 to 53.5	07/31/23	48.55	310.14
MW-08A	359.16	44 to 54	07/31/23	49.22	309.94
MW-09	362.13	47.5 to 57	07/31/23	52.24	309.89
MW-10	360.18	80 to 90	07/31/23	50.69	309.49
MW-11	357.53	42 to 57	07/31/23	47.38	310.15
MW-12	364.83	52 to 67	07/31/23	54.82	310.01
MW-13	365.42	50 to 65	07/31/23	55.43	309.99
MW-14	363.76	50 to 65	07/31/23	53.85	309.91
MW-16	377.63	64 to 74	07/31/23	67.78	309.85
MW-17A	394.44	80 to 95	07/31/23	84.70	309.74
MW-18	360.45	47 to 62	07/31/23	50.40	310.05
MW-19	356.61	43 to 58	07/31/23	46.53	310.08
MW-20	416.61	103 to 113	07/31/23	107.20	309.41
MW-21	412.85	95 to 110	07/31/23	103.42	309.43

Notes:

^a The top of well casing elevations were surveyed relative to mean seal level.

Abbreviations and Acronyms:

bgs = below ground surface

ft = feet

Low-Flow Groundwater Sampling Field Data Sheets



// GROUNDWATER SAMPLE COLLECTION FORM

Project Name: SeaTac Development
Event: Groundwater Sampling
Weather: 75, sunny
LAI Representative: Spencer Lo

Project Number: 2218001.010.011
Well Name: MW-7
Sample ID: MW-7 -0723
Date: 8/1/2023 Time: 910

WELL INFORMATION & PURGE DATA

Top of Screen Depth (ft): _____ Well Secure? ☐ No ☒ Yes Damaged? ☒ No ☐ Yes
DTW After Cap Opened (ft): _____ Time: _____ Describe: flush mount
Static DTW (ft): _____ Time: _____ Flow-Thru Cell Vol.: N/A WLM No.: Heron #3
Begin Purge - Date/Time: 8/ 1 /2023 @ 914 End Purge - Date/Time: 8/ 1 /2023 @ 929 Gallons Purged: 1.25
Water Disposal: ☒ 55-gal drum ☐ Storage tank ☐ Ground ☐ Other: _____

Time	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Purge Vol. ≥ 1 flow-thru cell vol. (Yes/No)	Comments/ Observations
Stabilization →	± 3%	± 10%	± 3%	± 0.1 units	± 10 mV	± 10%	± 0.00 ft		
914	16.2	5.84	189	7.10	153.9	15.95	-	yes	
917	15.2	0.71	198	6.42	170.6	11.24	-	yes	
920	15.3	0.65	203	6.40	167.7	3.63	-	yes	
923	15.3	0.62	206	6.47	157.3	3.4	-	yes	
926	15.2	0.61	207	6.47	154.6	3.57	-	yes	
929	15.3	0.61	206	6.47	149.9	0.46	-	yes	

SAMPLE COLLECTION DATA

Collection Method: ☐ Bailer ☒ Pump Type: Bladder Pump
Material: ☐ Stainless Steel ☒ PVC ☐ Teflon ☐ Polyethylene ☐ Other ☐ Dedicated
Decon Procedure: ☒ Alconox Wash ☐ Tap Rinse ☒ DI Water ☐ Dedicated
☐ Other (describe sequence): _____
Sample Description (turbidity, color, odor, sheen, etc.): Sampling intake set at 50.95'; Clear

Replicate	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Time	Comments/Observations/Fe2+
1	15.3	0.59	206.3	6.46	146.5	0.89	-	933	
2	15.3	0.62	206.4	6.45	143.7	1.24	-	936	
3									
4									
Average	15.30	0.61	206.35	6.46	145.10	N/A			Ferrous Iron: N/A

Bottles	Analysis Requested (Circle/Bold Applicable)
	(8260) (8260D-SIM) (8010) (8020) (Boeing VOC Short List) (VOC-Boeing 38 list)
	(NWTPH-G) (NWTPH-Gx) (BETX) (NWTPH-HCID) (NWTPH-Dx) (NWTPH-Dx w/SGC) (Naphthalene) (n-hexane)
	(8270) (PAH) (8081) (8141) (Oil & Grease)
	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)
	(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)
	(Total Cyanide) (WAD Cyanide) (Free Cyanide)
	(Total 6010) (Total 6020) (Diss 6010) (Diss 6020) (Total 7471)
	(Total Metals) (Dissolved Metals) List:
3-40mL HCl preserved VOAs and 2 1L HCl preserved Ambers	

Duplicate Sample ID: MW-22-0723 @ 1330

Comments: _____

Signature: _____

Date: 8/1/2023



// GROUNDWATER SAMPLE COLLECTION FORM

Project Name: SeaTac Development
Event: Groundwater Sampling
Weather: 75, sunny
LAI Representative: Spencer Lo

Project Number: 2218001.010.011
Well Name: MW-9
Sample ID: MW-9 -0723
Date: 8/1/2023 Time: 1010

WELL INFORMATION & PURGE DATA

Top of Screen Depth (ft):
DTW After Cap Opened (ft): Time: Describe: flush mount
Static DTW (ft): 52.24 Time: 1045 Flow-Thru Cell Vol.: N/A WLM No.: Heron #3
Begin Purge - Date/Time: 8/1/2023 @ 1018 End Purge - Date/Time: 8/1/2023 @ 1033 Gallons Purged: 1.25
Water Disposal: ☒ 55-gal drum ☐ Storage tank ☐ Ground ☐ Other:

Time	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Purge Vol. ≥ 1 flow-thru cell vol. (Yes/No)	Comments/ Observations
Stabilization →	± 3%	± 10%	± 3%	± 0.1 units	± 10 mV	± 10%	± 0.00 ft		
1018	17.9	9.14	138	6.45	153.7	10.31	-	yes	
1021	16.1	2.91	157	6.27	153.3	4.77	-	yes	
1024	16.1	2.18	165	6.08	158.4	14.3	-	yes	
1027	16.4	1.62	170	6.07	156.1	12.25	-	yes	
1030	16.2	1.54	172	6.10	152.7	0.35	-	yes	
1033	16.1	1.55	173	6.08	152.5	0.67	-	yes	

SAMPLE COLLECTION DATA

Collection Method: ☐ Bailer ☒ Pump Type: Bladder Pump
Material: ☐ Stainless Steel ☒ PVC ☐ Teflon ☐ Polyethylene ☐ Other ☐ Dedicated
Decon Procedure: ☒ Alconox Wash ☐ Tap Rinse ☒ DI Water ☐ Dedicated
☐ Other (describe sequence):
Sample Description (turbidity, color, odor, sheen, etc.): Sampling intake set at 53.45'; Clear

Replicate	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Time	Comments/Observations/Fe2+
1	16.1	1.45	175.5	6.12	149.3	0.01	-	1036	
2	16.2	1.38	177.8	6.12	148.1	0.12	-	1039	
3									
4									
Average	16.15	1.42	176.65	6.12	148.70	N/A			Ferrous Iron: N/A

Bottles	Analysis Requested (Circle/Bold Applicable)
	(8260) (8260D-SIM) (8010) (8020) (Boeing VOC Short List) (VOC-Boeing 38 list)
	(NWTPH-G) (NWTPH-Gx) (BETX) (NWTPH-HCID) (NWTPH-Dx) (NWTPH-Dx w/SGC) (Naphthalene) (n-hexane)
	(8270) (PAH) (8081) (8141) (Oil & Grease)
	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)
	(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)
	(Total Cyanide) (WAD Cyanide) (Free Cyanide)
	(Total 6010) (Total 6020) (Diss 6010) (Diss 6020) (Total 7471)
	(Total Metals) (Dissolved Metals) List:
6-40mL HCl preserved VOAs	

Duplicate Sample ID:
Comments:
Signature: Date: 8/1/2023



// GROUNDWATER SAMPLE COLLECTION FORM

Project Name: SeaTac Development
Event: Groundwater Sampling
Weather: 80, Sunny
LAI Representative: Spencer Lo

Project Number: 2218001.010.011
Well Name: MW-12
Sample ID: MW-12 -0723
Date: 7/31/2023 Time: 1250

WELL INFORMATION & PURGE DATA

Top of Screen Depth (ft):
DTW After Cap Opened (ft): Time: Describe: flush mount
Static DTW (ft): 54.82 Time: 924 Flow-Thru Cell Vol.: N/A WLM No.: Heron #3
Begin Purge - Date/Time: 7/ 31 /2023 @ 1300 End Purge - Date/Time: 7/ 31 /2023 @ 1312 Gallons Purged: 1
Water Disposal: ☒ 55-gal drum ☐ Storage tank ☐ Ground ☐ Other:

Time	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Purge Vol. ≥ 1 flow-thru cell vol. (Yes/No)	Comments/ Observations
Stabilization →	± 3%	± 10%	± 3%	± 0.1 units	± 10 mV	± 10%	± 0.00 ft		
1300	17.5	1.23	229	7.45	101.7	3.18	-	yes	
1303	15.9	0.55	233	7.27	93.6	2.69	-	yes	
1306	16.1	0.45	234	7.34	76.8	2.84	-	yes	
1309	16.1	0.43	235	7.34	69.9	2.33	-	yes	
1312	15.9	0.41	239	7.37	68.7	2.61	-	yes	

SAMPLE COLLECTION DATA

Collection Method: ☐ Bailer ☒ Pump Type: Bladder Pump
Material: ☐ Stainless Steel ☒ PVC ☐ Teflon ☐ Polyethylene ☐ Other ☐ Dedicated
Decon Procedure: ☒ Alconox Wash ☐ Tap Rinse ☒ DI Water ☐ Dedicated
☐ Other (describe sequence):
Sample Description (turbidity, color, odor, sheen, etc.): Sampling intake set at 57.95'; Clear

Replicate	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Time	Comments/Observations/Fe2+
1	16.1	0.48	241.2	7.39	66.8	1.73	-	1318	
2	16.2	0.5	247.8	7.4	66.4	1.85	-	1322	
3	16	0.55	251.3	7.43	71.7	1.85	-	1324	
4	16.1	0.57	252.9	7.41	67.9	1.58	-	1327	
Average	16.10	0.53	248.30	7.41	68.20	N/A			Ferrous Iron: N/A

Bottles	Analysis Requested (Circle/Bold Applicable)
	(8260) (8260D-SIM) (8010) (8020) (Boeing VOC Short List) (VOC-Boeing 38 list)
	(NWTPH-G) (NWTPH-Gx) (BETX) (NWTPH-HCID) (NWTPH-Dx) (NWTPH-Dx w/SGC) (Naphthalene) (n-hexane)
	(8270) (PAH) (8081) (8141) (Oil & Grease)
	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)
	(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)
	(Total Cyanide) (WAD Cyanide) (Free Cyanide)
	(Total 6010) (Total 6020) (Diss 6010) (Diss 6020) (Total 7471)
	(Total Metals) (Dissolved Metals) List:
3-40mL HCl preserved VOAs and 2 1L HCl preserved Ambers	

Duplicate Sample ID: MW-32-0723 @ 1330

Comments:

Signature:

Spencer Lo

Date: 7/31/2023



// GROUNDWATER SAMPLE COLLECTION FORM

Project Name: SeaTac Development
Event: Groundwater Sampling
Weather: 75, sunny
LAI Representative: Spencer Lo

Project Number: 2218001.010.011
Well Name: MW-13
Sample ID: MW-13 -0723
Date: 8/1/2023 Time: 940

WELL INFORMATION & PURGE DATA

Top of Screen Depth (ft):
DTW After Cap Opened (ft): Time: Describe: flush mount
Static DTW (ft): 55.43 Time: 1019 Flow-Thru Cell Vol.: N/A WLM No.: Heron #3
Begin Purge - Date/Time: 8/ 1 /2023 @ 945 End Purge - Date/Time: 8/ 1 /2023 @ 1006 Gallons Purged: 1.75
Water Disposal: ☒ 55-gal drum ☐ Storage tank ☐ Ground ☐ Other:

Time	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Purge Vol. ≥ 1 flow-thru cell vol. (Yes/No)	Comments/ Observations
Stabilization →	± 3%	± 10%	± 3%	± 0.1 units	± 10 mV	± 10%	± 0.00 ft		
945	15.7	8.30	226	6.54	149.3	0.48	-	yes	
948	14.3	3.12	234	6.28	159.1	0.46	-	yes	
951	14.2	3.04	235	6.30	157.7	0.07	-	yes	
954	14.4	2.74	239	6.36	154.3	0	-	yes	
957	14.4	2.21	244	6.45	149.9	0.03	-	yes	
1000	14.3	1.85	248	6.54	145.3	0.01	-	yes	
1003	14.3	1.86	248	6.56	144.1	0	-	yes	
1006	14.3	1.72	248	6.58	142.8	0.02	-	yes	

SAMPLE COLLECTION DATA

Collection Method: ☐ Bailer ☒ Pump Type: Bladder Pump
Material: ☐ Stainless Steel ☒ PVC ☐ Teflon ☐ Polyethylene ☐ Other ☐ Dedicated
Decon Procedure: ☒ Alconox Wash ☐ Tap Rinse ☒ DI Water ☐ Dedicated
☐ Other (describe sequence):
Sample Description (turbidity, color, odor, sheen, etc.): Sampling intake set at 58.50'; Clear

Replicate	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Time	Comments/Observations/Fe2+
1	14.3	1.73	248.9	6.61	140.4	0.02	-	1009	
2	14.5	1.71	250.4	6.62	139.4	0.01	-	1012	
3									
4									
Average	14.40	1.72	249.65	6.62	139.90	N/A			Ferrous Iron: N/A

Bottles	Analysis Requested (Circle/Bold Applicable)
	(8260) (8260D-SIM) (8010) (8020) (Boeing VOC Short List) (VOC-Boeing 38 list)
	(NWTPH-G) (NWTPH-Gx) (BETX) (NWTPH-HCID) (NWTPH-Dx) (NWTPH-Dx w/SGC) (Naphthalene) (n-hexane)
	(8270) (PAH) (8081) (8141) (Oil & Grease)
	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)
	(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)
	(Total Cyanide) (WAD Cyanide) (Free Cyanide)
	(Total 6010) (Total 6020) (Diss 6010) (Diss 6020) (Total 7471)
	(Total Metals) (Dissolved Metals) List:
3-40mL HCl preserved VOAs and 2 1L HCl preserved Ambers	

Duplicate Sample ID:
Comments:
Signature: Date: 8/1/2023



// GROUNDWATER SAMPLE COLLECTION FORM

Project Name: SeaTac Development
Event: Groundwater Sampling
Weather: 80, Sunny
LAI Representative: Spencer Lo

Project Number: 2218001.010.011
Well Name: MW-16
Sample ID: MW-16 -0723
Date: 7/31/2023 Time: 1350

WELL INFORMATION & PURGE DATA

Top of Screen Depth (ft): _____ Well Secure? ☐ No ☒ Yes Damaged? ☒ No ☐ Yes
DTW After Cap Opened (ft): _____ Time: _____ Describe: flush mount
Static DTW (ft): 67.78 Time: 1052 Flow-Thru Cell Vol.: N/A WLM No.: Heron #3
Begin Purge - Date/Time: 7/ 31 /2023 @ 1352 End Purge - Date/Time: 7/ 31 /2023 @ 1409 Gallons Purged: 1.5
Water Disposal: ☒ 55-gal drum ☐ Storage tank ☐ Ground ☐ Other: _____

Time	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Purge Vol. ≥ 1 flow-thru cell vol. (Yes/No)	Comments/ Observations
Stabilization →	± 3%	± 10%	± 3%	± 0.1 units	± 10 mV	± 10%	± 0.00 ft		
1352	16.1	9.12	205	7.50	118.4	2.11	-	yes	
1355	18.3	7.30	209	7.32	126.8	1.31	-	yes	
1358	16.1	4.57	195	7.21	130.3	1.61	-	yes	
1401	16.3	1.71	193	7.01	130.8	1.57	-	yes	
1403	15.9	1.24	193	6.98	129.8	1.11	-	yes	
1406	15.9	1.19	196	6.94	124.7	1.69	-	yes	
1409	15.8	1.13	197	6.89	125.8	2.11	-	yes	

SAMPLE COLLECTION DATA

Collection Method: ☐ Bailer ☒ Pump Type: Bladder Pump
Material: ☐ Stainless Steel ☒ PVC ☐ Teflon ☐ Polyethylene ☐ Other ☐ Dedicated
Decon Procedure: ☒ Alconox Wash ☐ Tap Rinse ☒ DI Water ☐ Dedicated
☐ Other (describe sequence): _____
Sample Description (turbidity, color, odor, sheen, etc.): Sampling intake set at 71.20'; Clear

Replicate	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Time	Comments/Observations/Fe2+
1	16.1	1.03	204.3	6.9	122.5	0.84	-	1415	
2	16.2	0.98	206.6	6.87	125.6	1.39	-	1417	
3	16.2	0.99	207.5	6.84	125.5	1.85	-	1420	
4	16.3	0.93	209.4	6.83	123.5	0.76	-	1423	
Average	16.20	0.98	206.95	6.86	124.28	N/A			Ferrous Iron: N/A

Bottles	Analysis Requested (Circle/Bold Applicable)
	(8260) (8260D-SIM) (8010) (8020) (Boeing VOC Short List) (VOC-Boeing 38 list)
	(NWTPH-G) (NWTPH-Gx) (BETX) (NWTPH-HCID) (NWTPH-Dx) (NWTPH-Dx w/SGC) (Naphthalene) (n-hexane)
	(8270) (PAH) (8081) (8141) (Oil & Grease)
	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)
	(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)
	(Total Cyanide) (WAD Cyanide) (Free Cyanide)
	(Total 6010) (Total 6020) (Diss 6010) (Diss 6020) (Total 7471)
	(Total Metals) (Dissolved Metals) List:
3-40mL HCl preserved VOAs and 2 1L HCl preserved Ambers	

Duplicate Sample ID: _____
Comments: _____
Signature: Spencer Lo Date: 7/31/2023



// GROUNDWATER SAMPLE COLLECTION FORM

Project Name: SeaTac Development
Event: Groundwater Sampling
Weather: 75, sunny
LAI Representative: Spencer Lo

Project Number: 2218001.010.011
Well Name: MW-17A
Sample ID: MW-17A -0723
Date: 8/1/2023 Time: 800

WELL INFORMATION & PURGE DATA

Top of Screen Depth (ft):
DTW After Cap Opened (ft): Time: Describe: flush mount
Static DTW (ft): 84.70 Time: 1059 Flow-Thru Cell Vol.: N/A WLM No.: Heron #3
Begin Purge - Date/Time: 8/ 1 /2023 @ 803 End Purge - Date/Time: 8/ 1 /2023 @ 821 Gallons Purged: 1.5
Water Disposal: ☒ 55-gal drum ☐ Storage tank ☐ Ground ☐ Other:

Time	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Purge Vol. ≥ 1 flow-thru cell vol. (Yes/No)	Comments/ Observations
Stabilization →	± 3%	± 10%	± 3%	± 0.1 units	± 10 mV	± 10%	± 0.00 ft		
803	19.4	8.43	178	7.16	175.5	1.42	-	yes	
806	14.9	7.32	157	6.62	184.5	4.14	-	yes	
809	14.7	5.91	154	6.40	186.4	2.81	-	yes	
812	14.6	5.37	152	6.27	187.8	2.83	-	yes	
815	14.6	5.00	152	6.19	189.6	2.65	-	yes	
818	14.4	4.86	152	6.13	191.2	3.19	-	yes	
821	14.4	4.76	152	6.12	191.3	1.88	-	yes	

SAMPLE COLLECTION DATA

Collection Method: ☐ Bailer ☒ Pump Type: Bladder Pump
Material: ☐ Stainless Steel ☒ PVC ☐ Teflon ☐ Polyethylene ☐ Other ☐ Dedicated
Decon Procedure: ☒ Alconox Wash ☐ Tap Rinse ☒ DI Water ☐ Dedicated
☐ Other (describe sequence):
Sample Description (turbidity, color, odor, sheen, etc.): Sampling intake set at 89.30'; Clear

Replicate	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Time	Comments/Observations/Fe2+
1	14.5	4.56	153.4	6.15	189.1	1.85	-	825	
2	14.5	4.51	154.4	6.19	188.4	1.24	-	828	
3	14.4	4.43	154.1	6.17	189.9	1.24	-	830	
4									
Average	14.47	4.50	153.97	6.17	189.13	N/A			Ferrous Iron: N/A

Bottles	Analysis Requested (Circle/Bold Applicable)
	(8260) (8260D-SIM) (8010) (8020) (Boeing VOC Short List) (VOC-Boeing 38 list)
	(NWTPH-G) (NWTPH-Gx) (BETX) (NWTPH-HCID) (NWTPH-Dx) (NWTPH-Dx w/SGC) (Naphthalene) (n-hexane)
	(8270) (PAH) (8081) (8141) (Oil & Grease)
	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)
	(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)
	(Total Cyanide) (WAD Cyanide) (Free Cyanide)
	(Total 6010) (Total 6020) (Diss 6010) (Diss 6020) (Total 7471)
	(Total Metals) (Dissolved Metals) List:
3-40mL HCl preserved VOAs and 2 1L HCl preserved Ambers	

Duplicate Sample ID:
Comments:
Signature: Date: 8/1/2023



// GROUNDWATER SAMPLE COLLECTION FORM

Project Name: SeaTac Development
Event: Groundwater Sampling
Weather: 75, sunny
LAI Representative: Spencer Lo

Project Number: 2218001.010.011
Well Name: MW-18
Sample ID: MW-18 -0723
Date: 8/1/2023 Time: 840

WELL INFORMATION & PURGE DATA

Top of Screen Depth (ft): _____ Well Secure? ☐ No ☒ Yes Damaged? ☒ No ☐ Yes
DTW After Cap Opened (ft): _____ Time: _____ Describe: flush mount
Static DTW (ft): 50.40 Time: 955 Flow-Thru Cell Vol.: N/A WLM No.: Heron #3
Begin Purge - Date/Time: 8/ 1 /2023 @ 845 End Purge - Date/Time: 8/ 1 /2023 @ 857 Gallons Purged: 1
Water Disposal: ☒ 55-gal drum ☐ Storage tank ☐ Ground ☐ Other: _____

Time	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Purge Vol. ≥ 1 flow-thru cell vol. (Yes/No)	Comments/ Observations
Stabilization →	± 3%	± 10%	± 3%	± 0.1 units	± 10 mV	± 10%	± 0.00 ft		
845	18.6	4.83	385	6.13	187.1	0.76	-	yes	
848	16.3	0.80	490	6.56	185.1	0.6	-	yes	
851	16.1	0.77	501	6.62	182.3	0.67	-	yes	
854	15.9	0.75	501	6.67	179.0	0.88	-	yes	
857	15.9	0.70	501	6.71	173.1	0.32	-	yes	

SAMPLE COLLECTION DATA

Collection Method: ☐ Bailer ☒ Pump Type: Bladder Pump
Material: ☐ Stainless Steel ☒ PVC ☐ Teflon ☐ Polyethylene ☐ Other ☐ Dedicated
Decon Procedure: ☒ Alconox Wash ☐ Tap Rinse ☒ DI Water ☐ Dedicated
☐ Other (describe sequence): _____
Sample Description (turbidity, color, odor, sheen, etc.): Sampling intake set at 53.05'; Clear

Replicate	Temp (°C)	DO (mg/L)	Cond (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Time	Comments/Observations/Fe2+
1	16	0.67	503	6.75	169.9	0.65	-	900	
2	15.9	0.64	502	6.8	166.7	0.7	-	903	
3									
4									
Average	15.95	0.66	502.50	6.78	168.30	N/A			Ferrous Iron: N/A

Bottles	Analysis Requested (Circle/Bold Applicable)
	(8260) (8260D-SIM) (8010) (8020) (Boeing VOC Short List) (VOC-Boeing 38 list)
	(NWTPH-G) (NWTPH-Gx) (BETX) (NWTPH-HCID) (NWTPH-Dx) (NWTPH-Dx w/SGC) (Naphthalene) (n-hexane)
	(8270) (PAH) (8081) (8141) (Oil & Grease)
	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (F)
	(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2)
	(Total Cyanide) (WAD Cyanide) (Free Cyanide)
	(Total 6010) (Total 6020) (Diss 6010) (Diss 6020) (Total 7471)
	(Total Metals) (Dissolved Metals) List:
3-40mL HCl preserved VOAs and 2 1L HCl preserved Ambers	

Duplicate Sample ID: _____
Comments: _____
Signature: Spencer Lo Date: 8/1/2023

Data Tables and Trend Graphs

Table B-1
Summary of Groundwater Sampling Results - Well MW-07
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
01/05/01	358.70	NM	NM	NM	NM	NM	NM	NM	80	470	7,700	2,000	11,200	NA	NA	NA	< 0.25	< 0.50	NA	NA
08/16/07	358.70	NM	NM	NM	NM	NM	NM	NM	68	500	3,200	1,600	8,690	NA	NA	NA	NA	NA	NA	NA
12/07/09	358.70	49.02	309.68	6.89	10.90	347	2.83	NM	46	520	5,600	1,300	6,800	0.03	220	420	NA	NA	NA	NA
03/18/10	358.70	48.69	310.01	6.61	13.30	354	1.41	5.18	26	230	1,100	360	4,630	0.01	160	210	NS	NS	NA	NA
02/13/14	358.69	47.72	310.97	6.56	14.3	131	0.35	3.87	29	25	110	180	2,022	< 3.8 ^e	190	220	11 J	< 0.20	NA	NA
05/29/14	358.69	47.65	311.04	6.65	16.4	379	0.13	2.84	27	14	80	190	1,811	< 1.5 ^e	140	210 B	11 J	< 0.20	NA	NA
09/11/14	358.69	47.95	310.74	6.73	16.5	373	0.35	2.28	36	17	81	260	2,110	< 0.028 ^e	280	300 B J	11	0.41 J	NA	NA
12/04/14	358.69	47.95	310.74	6.70	15.7	333	0.20	2.95	26	21	66	200	1,507	< 0.07 ^e	170	180	11 J	0.32 J	NA	NA
06/18/15	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 ^e	93 J	96 J	5.4	0.24 J	NA	NA
12/03/15	358.69	49.96	308.73	6.44	15.9	526	0.14	2.91	23	77	1,200	270	1,550	<0.020 ^e	160	69	4.9 J	< 0.20	NA	NA
05/04/16	358.69	49.05	309.64	6.68	16.0	640	1.02	4.57	12	30	500	170	970	<0.20 ^e	150	68 J	6.5 J	0.30 J	NA	NA
11/16/16	358.69	48.50	310.19	6.54	15.9	411	1.39	3.95	8.3	4.3	9.5	40	85	<0.20 ^e	11 J	37	2.4	<0.20	NA	NA
05/03/17	358.69	48.13	310.56	6.38	16.2	188	1.33	3.78	2.9	1.8	0.46	14	21	<0.20 ^e	1.9	32	1.4	0.20	NA	NA
11/14/17	358.69	47.15	311.54	6.39	15.1	278	0.98	NM	2.2	0.70	0.42	1.1	5.9	<0.20 ^e	0.3	11	1.6	0.44	NA	NA
01/18/18	358.69	46.75	311.94	6.21	14.7	270	0.23	2.15	1.9	1.0	0.67	2.0 J	7.3 J	<0.20 ^e	0.5	10	1.5	<0.20	NA	NA
03/09/18	358.69	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/16/18	358.69	46.10	312.59	6.15	15.2	248	0.25	2.25	1.8	0.41	0.35	1.1	3	<0.01	<0.20	6.1	0.78	<0.20	NA	NA
11/08/18	358.69	46.32	312.37	6.67	14.7	220	0.29	1.60	1.4	0.73	0.29	0.78	1.6	<0.01	0.42	4.0	0.74	<0.20	NA	NA
07/26/19	358.69	46.74	311.95	6.45	17.4	281	0.43	NM	0.73	0.30	0.27	0.75	1.1	<0.0030	0.29	1.6	0.17	<0.20	<0.10	<0.20
01/29/20	358.69	48.12	310.57	6.72	14.6	201	0.86	NM	0.75	0.39	8.1	2.3	11	<0.02 ^e	7.0	5.1	NA	NA	<0.081	<0.16
07/22/20	358.69	48.43	310.26	6.03	16.1	139	0.29	NM	0.80	<0.20	<1.0	2.2	12	<0.010	<2.0	2.9	NA	NA	NA	NA
10/19/20	358.69	48.79	309.90	6.32	15.6	205	1.73	6.59	1.74	0.84	2.50	9.69	15	<0.020 ^e	<0.20	5.8	NA	NA	NA	NA
01/18/21	358.69	49.03	309.66	6.32	14.1	266	1.40	2.73	3.55	2.66	33	41	200	<0.50 ^e	19	16	NA	NA	NA	NA
04/26/21	358.69	48.65	310.04	6.60	15.9	277	0.59	4.54	1.63	3.77	3.23	14	26	<0.01	5.3 J	7.8	NA	NA	NA	NA
07/26/21	358.69	48.78	309.91	6.53	16.1	237	0.26	2.66	2.35	3.17	7.36	23	77	<0.04 ^e	8.43	14	NA	NA	NA	NA
01/24/22	358.69	48.52	310.17	6.55	14.7	247	0.67	45.2	0.83	1.95	0.93 J	3.89	4.65	<0.046 ^e	<2.5	3.12	NA	NA	NA	NA
07/25/22	358.69	47.61	311.08	5.97	16.6	210	2.29	10.7	0.12	0.36	<1.0	<0.50	<1.50	<0.022 ^e	<2.0	<2.0	NA	NA	NA	NA
10/25/22	358.69	47.95	310.74	5.65	15.3	179	0.68	3.7	0.26	0.40	<1.0	0.61	<1.5	<0.022e	<2.0	<2.0	NA	NA	NA	NA
01/30/23	358.69	48.11	310.58	6.43	14.6	172	1.30	2.11	0.23	0.25	<1.0	<0.50	<1.5	<0.025e	<2.0	<2.0	NA	NA	NA	NA
04/11/23	358.69	48.08	310.61	6.37	15.0	162	0.38	38.90	0.27	0.45	<1.0	1.03	2.8	<0.250 ^e	<2.0	<2.0	NA	NA	NA	NA
08/01/23	358.69	48.55	310.14	6.46	15.3	206	0.61	1.2	0.725	0.58	1.38	2.94	6.78	<0.0500 ^e	<10.0	<4.00	NA	NA	NA	NA

Table B-1
Summary of Groundwater Sampling Results - Well MW-07
SeaTac Development Site
SeaTac, Washington

Notes:

- Values in bold and red exceed MTCA Method A Cleanup Levels.
- J = Laboratory estimated value
- ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
- ^b When benzene is present.
- ^c When benzene is not present.
- ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
- ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:

- °C = degrees Celsius
- µg/L = micrograms per liter
- µmhos/cm = micromhos per centimeter
- DRO = diesel-range organics
- EDB = 1,2-dibromoethane
- GRO = gasoline-range organics
- mg/L = milligrams per liter
- NA = not analyzed
- NM = not measured
- NS = not sampled
- NTU = nephelometric turbidity unit
- ORO = oil-range organics

Table B-2
Summary of Groundwater Sampling Results - Well MW-09
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
01/05/01	362.14	NM	NM	NM	NM	NM	NM	NM	90	1,900	1,200	1,800	9,700	NA	NA	NA	< 0.25	< 0.50	NA	NA
08/16/07	362.14	NM	NM	NM	NM	NM	NM	NM	34	280	230	750	3,270	NA	NA	NA	NA	NA	NA	NA
05/19/09	362.14	52.25	309.89	6.17	15.6	290	1.86	2.86	37	240	220	810	2,910	NA	NA	NA	NA	NA	NA	NA
12/07/09	362.14	52.67	309.47	6.52	10.7	306	0.43	NM	19	190	33	730	1,927	0.01	83	260	NA	NA	NA	NA
03/19/10	362.14	52.30	309.84	6.19	14.2	294	0.13	7.18	16	170	65	400	1,434	0.016	100	160	NS	NS	NA	NA
02/12/14	362.13	51.45	310.68	6.49	12.6	99.5	0.28	3.10	7.5	30	8.1	150	98	< 0.080 ^e	16	120	1.6 J	< 0.20	NA	NA
05/29/14	362.13	51.41	310.72	6.44	15.0	295	0.14	1.01	7.8	32	9.4	170	112	< 0.37 ^e	5.6	92 B	2.3 J	< 0.20	NA	NA
09/10/14	362.13	NM	NM	6.49	15.7	310	0.20	3.85	5.6	17	4.6	100	47	< 0.01	< 0.20	74	2.8	< 0.20	NA	NA
12/03/14	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 ^e	< 0.20	44	1.9	< 0.20	NA	NA
06/17/15	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 ^e	< 0.20	18	1.5	< 0.20	NA	NA
12/03/15	362.13	NM	NM	6.37	14.1	477	0.96	3.91	2.2 J	8.4	1.5 J	73	1.5 J	< 0.07 ^e	< 0.20	5.7	1.0 J	< 0.20	NA	NA
05/03/16	362.13	NM	NM	6.51	18.3	221	4.68	1.08	<0.10	0.15 J	<0.20	0.71	<0.40	<0.20 ^e	<0.20	<0.50	0.22 J	<0.20	NA	NA
11/15/16	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 ^e	<0.20	<0.50	0.20	<0.20	NA	NA
05/03/17	362.13	NM	NM	5.94	15.5	165	3.09	1.43	<0.10	0.23	0.050 J	0.42	<0.40	<0.20 ^e	<0.20	<0.50	0.28	<0.20	NA	NA
11/14/17	362.13	50.74	311.39	5.98	13.9	211	2.14	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.020 ^e	<0.20	<0.50	0.22	<0.20	NA	NA
01/16/18	362.13	50.33	311.80	5.94	13.6	202	1.10	1.02	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.26	<0.20	NA	NA
03/09/18	362.13	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	362.13	49.68	312.45	5.86	15.0	193	0.67	0.61	<0.10	0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	0.34	<0.20	NA	NA
11/07/18	362.13	49.86	312.27	6.28	13.8	203	0.32	0.25	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	0.28	<0.20	NA	NA
07/29/19	362.13	50.33	311.80	6.32	15.5	285	0.50	NM	<0.10	0.20	<0.20	<0.20	<0.60	<0.0030	<0.20	<0.50	0.11	<0.20	<0.10	<0.20
01/30/20	362.13	51.45	310.68	6.40	12.7	249	0.77	NM	<0.10	0.54	<0.50	<0.25	<0.75	<0.20 ^e	<1.0	<1.0	NA	NA	NA	NA
01/25/22	362.13	52.05	310.08	7.07	12.5	285	4.23	6.51	<0.05	<0.10	<0.50	<0.25	<0.75	<0.010	<2.50	<1.0	NA	NA	NA	NA
07/25/22	362.13	51.19	310.94	5.67	18.1	175	3.15	1.25	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	362.13	51.49	310.64	5.64	14.0	157	2.76	1.46	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	362.13	51.65	310.48	6.35	12.1	170	3.00	2.75	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/11/23	362.13	51.57	310.56	6.34	13.3	104	4.95	38.90	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ^e	<2.0	<2.0	NA	NA	NA	NA
08/01/23	362.13	52.24	309.89	6.12	16.2	177	1.42	0.12	<0.1	<0.250	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA	NA	NA

Table B-2
Summary of Groundwater Sampling Results - Well MW-09
SeaTac Development Site
SeaTac, Washington

Notes:

- Values in bold and red exceed MTCA Method A Cleanup Levels.
- J = Laboratory estimated value
- ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
- ^b When benzene is present.
- ^c When benzene is not present.
- ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
- ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:

- °C = degrees Celsius
- µg/L = micrograms per liter
- µmhos/cm = micromhos per centimeter
- DRO = diesel-range organics
- EDB = 1,2-dibromoethane
- GRO = gasoline-range organics
- mg/L = milligrams per liter
- NM = not measured
- NS = not sampled
- ORO = oil-range organics

Table B-3
Summary of Groundwater Sampling Results - Well MW-12
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
08/16/07	364.88	NM	NM	NM	NM	NM	NM	NM	92	710	7,600	1,800	11,000	NA	NA	NA	NA	NA	NA	NA
05/21/09	364.88	54.99	309.87	6.43	17.8	416	0.19	33.7	110	1,600	11,000	2,100	10,000	0.70	< 500 ^e	580	NA	NA	NA	NA
12/07/09	364.88	55.29	309.59	7.58	12.0	452	0.06	NM	38	390	2,600	1,200	4,990	0.21	110	540	NA	NA	NA	NA
03/15/10	364.88	54.99	309.89	6.38	14.5	472	0.03	40.8	36	230	2,400	1,300	5,140	0.16	210	520	NS	NS	NS	NS
02/13/14	364.83	55.02	309.81	7.76	14.1	125	10.50	3.43	8.6	79	410	79	970	< 3.8 ^e	< 10	25	1.1 J	< 0.20	NA	NA
05/29/14	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	< 0.070 ^e	< 0.20	< 0.50	0.34 J	< 0.20	NA	NA
09/11/14	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	NA	NA
12/04/14	364.83	54.87	309.96	8.04	15.1	258	11.51	153	< 0.10	< 0.25	< 0.25	0.73	6.0	< 0.070 ^e	0.18 J	0.68	0.20	< 0.20	NA	NA
06/18/15	364.83	NM	NM	8.09	16.3	208	9.90	2.44	< 0.25	< 0.20	< 0.20	0.10 J	2.1	< 0.070 ^e	0.26	< 0.50	0.45	< 0.20	NA	NA
12/03/15	364.83	56.74	308.09	NM	NM	NM	NM	NM	< 0.25	< 0.20	< 0.20	< 0.20	<0.40	<0.020 ^e	< 0.20	< 0.50	0.29	< 0.20	NA	NA
05/04/16	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 ^e	<0.20	<0.50	0.18 J	<0.20	NA	NA
11/16/16	364.83	55.20	309.63	7.84	14.9	199	8.45	13.4	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.16	<0.20	NA	NA
05/03/17	364.83	59.02	305.81	7.53	15.9	80	8.01	4.96	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.89	<0.22	NA	NA
11/15/17	364.83	53.37	311.46	7.69	14.9	301	0.99	18.9	2.23	1.75	17.8	10.6	113	<0.20 ^e	29	33	1.0	0.30	NA	NA
01/18/18	364.83	53.13	311.70	7.29	14.4	314	0.35	30.1	2.20	1.72	11.5	25.6	90	<0.20 ^e	29	30	1.6	<0.20	NA	NA
03/09/18	364.83	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/16/18	364.83	52.31	312.52	7.06	15.3	374	0.27	3.02	2.82	17	2.05	23.8	43.0	<0.010	26	19	2.9	<0.20	NA	NA
11/08/18	364.83	52.55	312.28	7.98	14.7	354	0.36	6.60	3.61	26	2.48	24.3	25.0	<0.010	48 J	17	<0.10	<0.20	NA	NA
07/29/19	364.83	53.01	311.82	7.28	16.0	455	0.89	NM	2.29	8.2	2.90	16.0	25.0	<0.0030	8.4	14	1.85	<0.20	<0.10	<0.20
01/29/20	364.83	63.90	300.93	7.18	12.6	10	13.47	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	<0.078	<0.16
07/22/20	364.83	54.60	310.23	6.36	15.2	185	0.24	NM	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/19/20	364.83	54.97	309.86	6.85	15.5	129	1.58	2.87	0.13	<0.20	<1.0	<0.50	6.16	<0.010	2.05	<4.0	NA	NA	NA	NA
01/18/21	364.83	55.23	309.60	6.28	14.3	68	0.48	5.04	0.48	0.37	1.97	3.56	40.3	<0.010	9.68	9.24	NA	NA	NA	NA
04/26/21	364.83	54.85	309.98	7.01	15.1	363	0.28	3.25	0.97	0.61	8.84	42.9	66.8	<0.010	21 J	22.4	NA	NA	NA	NA
07/26/21	364.83	55.05	309.78	7.23	15.8	278	0.24	1.01	3.57	1.95	13.9	114.0	378	<0.020 ^e	58	72.2	NA	NA	NA	NA
01/24/22	364.83	54.73	310.10	7.20	14.4	819	0.20	4.75	0.31	4.21	1.70	11.6	28.3	<0.020 ^e	<2.5	3.22	NA	NA	NA	NA
07/26/22	364.83	53.89	310.94	6.57	16.1	251	2.19	1.52	0.51	1.03	4.59	28.7	62.9	<0.010	2.6	5.80	NA	NA	NA	NA
10/25/22	364.83	54.23	310.60	5.77	13.1	17	8.47	8.09	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	364.83	54.38	310.45	7.13	14.1	188	0.49	0.86	0.34	3.30	2.25	14.9	27.2	<0.020e	<2.0	2.86	NA	NA	NA	NA
04/11/23	364.83	54.09	310.74	7.29	14.5	148	0.40	0.74	0.9 ^f	8.04 ^f	13.00	30.3	74.5	<0.250 ^e	5.83	5.15	NA	NA	NA	NA
07/31/23	364.83	54.82	310.01	7.41	16.1	248	0.53	1.58	1.05 J	3.26 J	4.96 J	44.4	143 J	<0.0100	6.06 J	8.28 J	NA	NA	NA	NA

Table B-3
Summary of Groundwater Sampling Results - Well MW-12
SeaTac Development Site
SeaTac, Washington

Notes:

- Values in bold and red exceed MTCA Method A Cleanup Levels.
- J = Laboratory estimated value
- ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
- ^b When benzene is present.
- ^c When benzene is not present.
- ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
- ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.
- ^f Concentration, which is from a duplicate sample, exceeded the concentration in the designated sample from MW-12.

Abbreviations and Acronyms:

- °C = degrees Celsius
- µg/L = micrograms per liter
- µmhos/cm = micromhos per centimeter
- EDB = 1,2-dibromoethane
- GRO = gasoline-range organics
- mg/L = milligrams per liter
- NA = not analyzed
- NM = not measured
- NS = not sampled
- NTU = nephelometric turbidity unit
- ORO = oil-range organics

Table B-4
Summary of Groundwater Sampling Results - Well MW-13
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
08/16/07	365.42	NM	NM	NM	NM	NM	NM	NM	92	180	5,600	2,100	12,600	NA	NA	NA	NA	NA	NA	NA
05/20/09	365.42	55.51	309.91	6.29	18.8	474	1.13	4.8	76	51	1,400	2,100	11,000	0.067	< 250	640	NA	NA	NA	NA
12/07/09	365.42	55.83	309.59	6.44	12.3	429	0.18	NM	31	20	310	870	4,570	0.054	100	500	NA	NA	NA	NA
03/19/10	365.42	55.66	309.76	6.28	12.8	271	0.16	72.1	33	14	230	890	4,500	0.029	130	410	NS	NS	NS	NS
02/12/14	365.42	54.35	311.07	6.57	13.2	73.3	1.41	4.28	14	< 0.25	3.9	240	2,070	< 0.080 ^e	< 0.20	33	1.4 J	< 0.20	NA	NA
05/29/14	365.42	55.62	309.80	6.84	14.7	182	10.59	4.24	0.14	< 0.25	< 0.25	0.85	19	< 0.070 ^e	0.11 J	< 0.50	0.32	< 0.20	NA	NA
09/10/14	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	< 0.01	< 0.20	< 0.50	0.29	< 0.20	NA	NA
12/04/14	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	< 0.070 ^e	< 0.20	< 0.50	0.31	< 0.20	NA	NA
06/18/15	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	< 0.070 ^e	< 0.20	0.61	0.27	< 0.20	NA	NA
12/02/15	365.42	56.43	308.99	7.27	14.2	164	10.20	0.90	< 0.25	< 0.20	< 0.20	0.23	1.1 J	<0.020 ^e	< 0.20	< 0.50	0.26	< 0.20	NA	NA
05/03/16	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 ^e	<0.20	<0.50	0.12 J	<0.20	NA	NA
11/15/16	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 ^e	<0.20	<0.50	0.19	<0.20	NA	NA
05/03/17	365.42	55.14	310.28	7.03	14.5	116	10.71	1.45	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.18	<0.20	NA	NA
11/14/17	365.42	54.05	311.37	6.75	13.6	136	1.72	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.13	<0.20	NA	NA
01/16/18	365.42	53.62	311.80	6.93	13.4	159	0.85	2.02	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	<0.10	<0.20	NA	NA
03/09/18	365.42	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	365.42	52.96	312.46	6.43	14.1	120	1.87	1.14	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
11/07/18	365.42	53.16	312.26	7.10	13.6	141	1.00	0.64	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
07/29/19	365.42	53.59	311.83	6.83	17.0	212	1.85	NM	<0.10	0.070 J	<0.20	<0.20	<0.60	<0.0030	<0.20	<0.50	<0.10	<0.20	<0.10	<0.20
01/30/20	365.42	54.92	310.50	7.10	12.9	215	3.28	NM	<0.10	0.15 J	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	NA	NA
07/22/20	365.42	55.19	310.23	5.75	14.4	238	0.99	NM	0.90	0.34	<1.0	0.74	<1.50	<0.20 ^e	5.8	4.6	NA	NA	NA	NA
10/19/20	365.42	55.67	309.75	6.72	14.1	274	2.04	2.17	0.53	0.21	<1.0	<0.50	<1.50	<0.20 ^e	<2.0	<2.0	NA	NA	NA	NA
01/18/21	365.42	55.85	309.57	6.56	13.3	277	1.31	0.49	0.53	0.22	1.23	6.58	18.1	<0.010	<2.0	4.7	NA	NA	NA	NA
04/26/21	365.42	55.44	309.98	6.85	14.3	217	6.18	1.69	<0.10	<0.20	<1.0	<0.50	3.73	<0.010	<2.0	<2.0	NA	NA	NA	NA
07/26/21	365.42	55.65	309.77	6.92	14.7	204	5.01	0.68	<0.05	<0.10	<0.50	<0.25	<0.75	<0.020 ^e	<2.0	<2.0	NA	NA	NA	NA
01/25/22	365.42	55.30	310.12	6.60	13.5	271	2.91	0.51	<0.05	<0.10	<0.50	<0.25	<0.75	<0.010	<2.5	<1.0	NA	NA	NA	NA
07/26/22	365.42	54.47	310.95	6.18	15.1	335	3.58	3.23	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	365.42	54.82	310.60	6.07	14.1	287	1.81	4.04	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	365.42	54.99	310.43	6.58	13.4	225	4.04	1.15	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/11/23	365.42	54.90	310.52	6.43	13.6	193	3.43	0.54	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ^e	<2.0	<2.0	NA	NA	NA	NA
08/01/23	365.42	55.43	309.99	6.62	14.4	250	1.72	0.01	0.27	0.190 J	<1.00	<0.500	<1.50	<0.360 ^e	<10.0	<4.00	NA	NA	NA	NA

Table B-4
Summary of Groundwater Sampling Results - Well MW-13
SeaTac Development Site
SeaTac, Washington

Notes:
Values in bold and red exceed MTCA Method A Cleanup Levels.
J = Laboratory estimated value
^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
^b When benzene is present.
^c When benzene is not present.
^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:
°C = degrees Celsius
µg/L = micrograms per liter
µmhos/cm = micromhos per centimeter
EDB = 1,2-dibromoethane
GRO = gasoline-range organics
mg/L = milligrams per liter
NA = not analyzed
NM = not measured
NS = not sampled
NTU = nephelometric turbidity unit
ORO = oil-range organics

Table B-5
Summary of Groundwater Sampling Results - Well MW-15
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
11/01/07	364.67	54.19	310.48	NM	NM	NM	NM	NM	10	18	16	350	418	NA	NA	NA	0.44	NA	NA	NA
05/19/09	364.67	54.76	309.91	6.34	15.2	552	1.58	> 1,000	7.80	9.90	3.4	200	74	NA	NA	NA	NA	NA	NA	NA
12/07/09	364.67	55.05	309.62	6.61	13.6	484	0.26	NM	5.90	21	<4.0	420	49	<0.0096	6.3	150	NA	NA	NA	NA
03/16/10	364.67	54.83	309.84	6.44	12.9	565	0.18	21.0	5.40	17	2.0	310	59	<0.0096	28	120	NA	NA	NA	NA
11/08/18	364.67	52.40	312.27	7.18	14.0	290	2.49	NM	0.82	0.48	0.19 J	1.8	0.24 J	NA	NA	NA	1.0	<0.20	NA	NA
01/18/21	364.67	54.80	309.87	6.58	13.9	493	0.92	36.6	0.29	0.60	<1.0	0.71	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/24/22	364.67	54.54	310.13	6.64	13.7	542	0.72	3.5	0.10	0.19	<0.50	<0.25	<0.75	<0.010	<2.5	<1.0	NA	NA	NA	NA
01/31/23	365.42	54.18	311.24	6.58	13.4	225	4.04	32.0	0.43	0.42	<1.0	0.51	<1.5	<0.250 ^e	<2.0	<2.0	NA	NA	NA	NA
04/11/23	365.42	54.09	311.33	6.43	13.6	193	3.43	0.00	0.00	0.00	0.0	0.0	0.0	<0.020 ^e	0.00	0.0	0.00	0.00	NA	NA

Notes:

- Values in bold and red exceed MTCA Method A Cleanup Levels.
- J = Laboratory estimated value
- ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
- ^b When benzene is present.
- ^c When benzene is not present.
- ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
- ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:

- °C = degrees Celsius
- µg/L = micrograms per liter
- µmhos/cm = micromhos per centimeter
- DRO = diesel-range organics
- EDB = 1,2-dibromoethane
- GRO = gasoline-range organics
- mg/L = milligrams per liter
- NA = not analyzed
- NM = not measured
- NS = not sampled
- NTU = nephelometric turbidity unit
- ORO = oil-range organics

Table B-6
Summary of Groundwater Sampling Results - Well MW-16
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data									
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5
11/13/07	376.36	65.95	310.41	--	--	--	--	--	26	160	320	830	1,733	NA	NA	NA	NA	NA
05/22/09	376.36	66.56	309.80	6.33	15.4	440	0.35	3.97	28	180	67	1,200	1,800	<0.10 ^e	240	350	NA	NA
12/07/09	376.36	66.82	309.54	6.50	12.7	473	0.25	NM	10	69	67	580	490	0.053	66	230	NA	NA
03/17/10	376.36	66.62	309.74	6.40	11.7	446	0.22	5.14	6.60	51	15	430	292	0.044	38	170	NA	NA
07/29/19	377.63	65.95	311.68	6.57	15.6	184	0.45	NM	1.73	0.64	0.32	0.45	0.48 J	<0.0030	4.13	1.0	<0.10	<0.20
10/19/20	377.63	68.02	309.61	6.55	13.4	237	2.26	2.54	0.19	0.29	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA
01/18/21	377.63	68.21	309.42	6.37	13.3	248	0.58	1.08	0.41	0.22	<1.0	<0.50	<1.5	<0.010	3.43	<2.0	NA	NA
04/26/21	377.63	67.82	309.81	6.72	14.1	184	1.31	2.13	0.35	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA
07/26/21	377.63	68.02	309.61	6.79	15.8	150	0.90	0.49	0.080 J	0.12 J	<0.50	<0.25	<0.75	<0.040 ^e	<2.0	<2.0	NA	NA
01/24/22	377.63	67.68	309.95	6.88	12.7	147	1.30	0.81	<0.050	<0.10	<0.50	<0.25	<0.75	<0.020 ^e	<2.5	<1.0	NA	NA
07/25/22	377.63	66.81	310.82	6.38	14.8	143	1.35	1.32	<0.10	<0.20	<1.0	<0.50	<1.5	<0.020e	<2.0	<2.0	NA	NA
10/26/22	377.63	67.15	310.48	6.05	13.6	199	3.78	0.71	0.18	<0.20	<1.0	<0.50	<1.5	<0.020e	<2.0	<2.0	NA	NA
01/31/23	377.63	67.34	310.29	6.75	12.0	184	0.86	1.22	0.13	<0.20	<1.0	<0.50	<1.5	<0.020e	<2.0	<2.0	NA	NA
04/11/23	377.63	67.25	310.38	6.58	12.8	166	0.84	2.45	0.13	<0.20	<1.0	<0.50	<1.5	<0.250 ^e	<2.0	<2.0	NA	NA
07/31/23	377.63	67.78	309.85	6.86	16.2	207	0.98	0.76	<0.1	<0.250	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA

Notes:

Values in bold and red exceed MTCA Method A Cleanup Levels.

-- = Not available

J = Laboratory estimated value

^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.

^b When benzene is present.

^c When benzene is not present.

^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).

^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:

°C = degrees Celsius

µg/L = micrograms per liter

µmhos/cm = micromhos per centimeter

DRO = diesel-range organics

EDB = 1,2-dibromoethane

GRO = gasoline-range organics

mg/L = milligrams per liter

NA = not analyzed

NM = not measured

NS = not sampled

NTU = nephelometric turbidity unit

ORO = oil-range organics

Table B-7
Summary of Groundwater Sampling Results - Well MW-17A
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
11/13/07	385.81	75.60	310.21	NM	NM	NM	NM	NM	17	1.0	5.2	45	507	NA	NA	NA	7.3	< 0.50	NA	NA
05/28/09	385.81	76.17	309.64	6.23	18.2	183.9	0.37	4.9	6.3	0.70	0.6	13	96	< 0.20 ^g	< 5.0	150	NA	NA	NA	NA
12/07/09	385.81	76.49	309.32	6.46	10	166	0.13	NM	4.5	< 4.0	7.0	8.8	56	< 0.0095	< 4.0	140	NA	NA	NA	NA
03/17/10	385.81	76.29	309.52	6.51	9.3	145	0.52	142	1.7	< 1.0	< 1.0	4.0	27	< 0.0095	< 1.0	63	NS	NS	NS	NS
02/11/14	394.00 ^e	83.80	310.20 ^f	6.36	11.3	82.5	1.06	137	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.080 ^g	< 0.20	0.74	< 0.10	< 0.20	NA	NA
05/29/14	394.00 ^e	84.00	310.00 ^f	6.22	12.2	175	2.06	39.7	< 0.10	0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	0.62 J	< 0.10	< 0.20	NA	NA
09/10/14	394.00 ^e	84.18	309.82 ^f	6.28	12.4	162	1.42	18.8	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	0.64 J	< 0.10	< 0.20	NA	NA
12/05/14	394.00 ^e	84.18	309.82 ^f	6.42	11.7	167	1.09	31.8	< 0.10 J	0.54 J	< 0.25 J	< 0.25 J	0.63 J	< 0.070 ^g	< 0.20 J	2.8	< 0.10	< 0.20	NA	NA
06/17/15	394.00 ^e	84.16	309.84 ^f	6.29	12.9	158	3.13	29.6	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/18/15	394.00e	85.95	308.05f	6.57	11.8	127	0.20	23.7	0.050 J	0.75	< 0.20	0.080 J	< 0.40	<0.020 ^e	< 0.20	0.98 J	< 0.10	< 0.20	NA	NA
05/03/16	394.00 ^e	85.21	308.79 ^f	6.51	13.1	132	4.60	8.41	<0.10	0.33	<0.20	<0.20	<0.40	<0.20 ^g	0.11 J	0.71 J	<0.10	<0.20	NA	NA
11/15/16	394.00 ^e	84.57	309.43 ^f	6.46	12.6	122	3.76	10.2	<0.10	0.14 J	<0.20	<0.20	<0.40	<0.20 ^g	<0.20	<0.50	<0.10	<0.20	NA	NA
05/03/17	394.00 ^e	84.24	309.76 ^f	6.08	12.4	76	7.25	7.57	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^g	<0.20	<0.50	<0.10	<0.20	NA	NA
11/15/17	394.00 ^e	83.17	310.83 ^f	6.62	12.1	105	7.05	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^g	<0.20	0.54	<0.10	<0.20	NA	NA
01/16/18	394.00 ^e	82.95	311.05 ^f	6.27	12.0	111	8.55	4.2	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^g	<0.20	<0.50	<0.10	<0.20	NA	NA
03/09/18	394.00 ^e	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	394.00 ^e	82.21	311.79f	6.14	12.9	106	8.57	1.4	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
11/08/18	394.00 ^e	82.49	311.51 ^f	6.48	12.3	116	8.20	3.4	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
07/29/19	394.00 ^e	82.67	311.33 ^f	6.35	15.4	175	6.90	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.0030	0.10 J	<0.50	<0.10	<0.20	<0.10	<0.20
01/30/20	394.44	84.14	310.30	6.38	12.1	161	5.74	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	NA	NA
07/21/20	394.44	84.35	310.09	5.35	13.7	168	1.99	NM	<0.10	<0.20	<1.0	<0.50	<1.5	<0.0100	<2.0	<2.0	NA	NA	NA	NA
10/19/20	394.44	84.93	309.51	5.86	14.3	182	3.02	13.2	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/18/21	394.44	85.14	309.30	6.23	12.3	179	1.15	1.7	<0.10	0.49	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/26/21	394.44	84.69	309.75	6.29	13.3	180	3.98	94.8	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
07/26/21	394.44	84.85	309.59	6.34	16.1	162	3.99	38.1	<0.050	<0.10	<0.50	<0.25	<0.75	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/24/22	394.44	84.68	309.76	6.70	12.4	220	1.50	12.9	<0.050	<0.10	<0.50	<0.25	<0.75	<0.010	<2.5	<1.0	NA	NA	NA	NA
07/25/22	394.44	83.38	311.06	6.12	14.0	189	4.00	33.5	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/26/22	394.44	83.99	310.45	5.74	13.3	127	6.64	1.5	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	394.44	84.19	310.25	6.55	12.7	139	5.30	1.2	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/11/23	394.44	84.11	310.33	6.32	12.5	135	5.09	6.36	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ^g	<2.0	<2.0	NA	NA	NA	NA
08/01/23	394.44	84.70	309.74	6.17	14.5	154	4.50	1.24	<0.1	<0.250	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA	NA	NA

Table B-7
Summary of Groundwater Sampling Results - Well MW-17A
SeaTac Development Site
SeaTac, Washington

Notes:

- Values in bold and **red** exceed MTCA Method A Cleanup Levels.
- J = Laboratory estimated value
- ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
- ^b When benzene is present.
- ^c When benzene is not present.
- ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
- ^e Top of casing elevation was not surveyed; elevation was estimated by Golder Associates, Inc.
- ^f Estimated elevation.
- ^g The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:

- °C = degrees Celsius
- µg/L = micrograms per liter
- µmhos/cm = micromhos per centimeter
- DRO = diesel-range organics
- EDB = 1,2-dibromoethane
- GRO = gasoline-range organics
- mg/L = milligrams per liter
- NA = not analyzed
- NM = not measured
- NS = not sampled
- NTU = nephelometric turbidity unit
- ORO = oil-range organics

Table B-8
Summary of Groundwater Sampling Results - Well MW-18
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
11/28/07	360.45	52.50	307.95	NM	NM	NM	NM	NM	79	2,900	7,500	1,600	6,290	NA	NA	NA	0.66	< 0.50 ^e	NA	NA
05/21/09	360.45	54.53	305.92	6.71	17.4	494	0.11	4.58	78	3,100	7,600	2,200	9,600	1.4	500	460	NA	NA	NA	NA
12/07/09	360.45	50.85	309.60	6.80	12.4	587	0.28	NM	44	2,200	5,400	1,600	6,690	1.9	180	380	NA	NA	NA	NA
03/18/10	360.45	50.58	309.87	6.69	14.2	586	0.11	5.39	52	2,600	6,000	1,700	6,690	2.5	350	420	NS	NS	NS	NS
02/12/14	360.45	49.01	311.44	7.62	13.8	175	8.11	2.89	1.0	27	13	17	91	< 0.080 ^e	1.1	4.0	0.77 J	<0.20	NA	NA
05/29/14	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	< 0.070 ^e	0.64	0.84 J+	0.33 J	<0.20	NA	NA
09/11/14	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	NA	NA
12/04/14	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	< 0.070 ^e	0.10 J	< 0.50	0.24	< 0.20	NA	NA
06/18/15	360.45	49.51	310.94	8.05	15.2	515	10.89	49.6	< 0.25	0.67	0.54	0.24	1.1	< 0.070 ^e	< 0.20	< 0.50	0.38	< 0.20	NA	NA
12/03/15	360.45	NM	NM	8.28	14.8	455	10.21	14.6	< 0.25	0.57	4.8	0.34	9.8	<0.020 ^e	0.25	0.67	0.13	< 0.20	NA	NA
05/04/16	360.45	51.12	309.33	7.27	14.8	513	4.53	4.77	0.22	8.0	5.5	8.2	29	<0.20 ^e	1.5	1.5 J	0.37 J	<0.20	NA	NA
11/16/16	360.45	50.63	309.82	7.55	15.0	503	6.97	2.44	0.12	3.6	1.2	2.1	9.0	<0.20 ^e	0.39	<0.50	0.48	<0.20	NA	NA
05/03/17	360.45	50.12	310.33	7.19	15.6	313	4.54	3.57	0.28	6.9	3.1	6.8	21	<0.20 ^e	1.4	2.7	0.29	0.30	NA	NA
11/14/17	360.45	49.00	311.45	6.78	15.2	454	0.71	NM	1.3	3.6	1.6	7.4	8.7	<0.20 ^e	0.33	<0.50	4.4	0.43	NA	NA
01/16/18	360.45	48.62	311.83	6.12	14.4	22.7	6.23	18.1	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	<0.10	<0.20	NA	NA
03/09/18	360.45	48.35	312.10	6.69	14.4	479	0.28	1.89	1.9	NS	NS	NS	NS	NS	NS	NS	4.7	<0.20	NA	NA
05/16/18	360.45	47.94	312.51	6.42	15.2	405	0.21	1.41	1.5	6.2	2.2	20	19	<0.010	1.3	5.1	2.9	<0.20	NA	NA
11/07/18	360.45	48.14	312.31	6.82	15.1	506	0.17	2.50	1.5	6.6	1.1	24	2.8	<0.010	<0.20	7.0	3.3	<0.20	NA	NA
07/26/19	360.45	48.58	311.87	6.55	17.9	782	0.65	NM	1.2	1.3	0.25	1.2	2.4	<0.0030	0.22	4.8	2.8	<0.20	<0.10	<0.20
01/30/20	360.45	50.03	310.42	7.51	13.5	27.0	7.14	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	<0.080	<0.16
07/22/20	360.45	50.25	310.20	6.80	16.1	355	1.57	NM	<0.10	<0.20	<1.0	<0.50	<1.50	<0.0100	<2.0	<2.0	NA	NA	NA	NA
10/19/20	360.45	50.68	309.77	7.51	16.4	390	2.34	1.5	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/18/21	360.45	50.90	309.55	7.49	14.9	378	0.66	0.7	<0.10	0.66	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/26/21	360.45	50.49	309.96	7.65	15.7	378	0.19	0.44	<0.10	0.51	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
07/26/21	360.45	50.63	309.82	7.65	18.1	308	0.31	0.63	<0.05	0.59	<0.50	<0.25	<0.75	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/25/22	360.45	50.31	310.14	7.01	14.7	622	0.40	0.29	<0.05	0.33	<0.50	<0.25	<0.75	<0.010	<2.5	<1.0	NA	NA	NA	NA
07/26/22	360.45	49.43	311.02	6.92	18.2	496	0.86	1.71	<0.10	0.70	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	360.45	49.79	310.66	6.36	15.9	530	0.68	0.69	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	360.45	49.96	310.49	7.09	13.8	510	0.66	1.12	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/11/23	360.45	49.90	310.55	6.77	15.1	312	0.80	0.59	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ^e	<2.0	<2.0	NA	NA	NA	NA
08/01/23	360.45	50.40	310.05	6.78	16.0	503	0.66	0.70	<0.1	0.170 J	<1.00	<0.500	<1.50	<0.0100	<10.0	<4.00	NA	NA	NA	NA

Table B-8
Summary of Groundwater Sampling Results - Well MW-18
SeaTac Development Site
SeaTac, Washington

Notes:

- Values in bold and **red** exceed MTCA Method A Cleanup Levels.
- J = Laboratory estimated value
- ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
- ^b When benzene is present.
- ^c When benzene is not present.
- ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
- ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:

- °C = degrees Celsius
- µg/L = micrograms per liter
- µmhos/cm = micromhos per centimeter
- DRO = diesel-range organics
- EDB = 1,2-dibromoethane
- GRO = gasoline-range organics
- mg/L = milligrams per liter
- NA = not analyzed
- NM = not measured
- NS = not sampled
- NTU = nephelometric turbidity unit
- ORO = oil-range organics

Table B-9
Summary of Groundwater Sampling Results - Well MW-22
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
12/10/09	393.31	83.8	309.51	6.96	11.7	5.66	0.27	NM	8.0	17	26	770	1,112	< 0.0095	4.9	270	NA	NA	NA	NA
02/12/10	393.31	NM	NM	NM	NM	NM	NM	0.97	12.0	22	51	850	1,719	< 0.0096	11	280	NA	NA	NA	NA
03/16/10	393.31	83.63	309.68	6.65	12.5	586	0.25	82.0	15.0	23	74	1,400	2,420	< 0.0095	15	380	NS	NS	NS	NS
03/20/14	393.31	82.93	310.38	6.68	12.2	381	0.87	64.8	17.0	5.7	12	990	1,503	< 0.070 ^f	7.8	400 J	1.2 J	< 0.20	NA	NA
05/28/14	393.31	82.72	310.59	6.73	13.2	383	0.30	2.26	18.0	3.90	9.70	940	1,900	< 0.070 ^f	8.6	420 B	1.7 J	< 0.20	NA	NA
09/12/14	393.31	82.98	310.33	6.81	13.7	423	0.29	1.03	16.0	4.80	9.30	690	1,103	< 1.5 ^f	9.8	460 B J	1.1 J	< 0.20	NA	NA
12/05/14	393.31	82.98	310.33	6.81	12.8	378	0.26	3.71	16.0	8.70	11.0	740	1,103	< 1.5 ^f	7.2	380	0.86 J	< 0.20	NA	NA
06/25/15	393.31	82.95	310.36	6.82	13.6	354	0.52	3.34	19.0	5.90	7.40	750	1,402	< 0.74 ^f	4.7	310	1.0 J	< 0.20	NA	NA
12/02/15	393.31	84.83	308.48	6.87	13.0	325	0.25	3.42	19.0	4.40	6.20	840	1,503	<0.020 ^e	3.0 J	240	1.5 J	< 0.20	NA	NA
05/04/16	393.31	83.85	309.46	6.84	13.3	294	0.39	3.61	15.0	3.80	5.00	780	1,403	<0.20 ^f	8.6	470 Q	2.8 J	<0.20	NA	NA
11/16/16	393.31	83.43	309.88	6.89	13.1	246	1.00	5.50	11.0	3.97	3.93	631	882	<0.20 ^f	5.9 J	438	1.9	<0.20	NA	NA
05/02/17	393.31	82.95	310.36	6.67	13.3	172	0.41	1.87	12.8	4.22	4.35	651	960	<0.20 ^f	5.7	389	2.8	<0.22	NA	NA
11/15/17	393.31	81.93	311.38	7.09	13.1	215	1.72	3.72	11.1	4.17	3.34	481	583	<2.0 ^f	5.4	326	2.4	<0.20	NA	NA
01/18/18	393.31	81.43	311.88	6.67	12.9	196	0.81	3.08	16.5	4.90	3.89	530	731	<2.0 ^f	7.9	349	2.9	<0.20	NA	NA
03/09/18	393.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/16/18	393.31	80.92	312.39	6.41	13.5	172	3.39	2.94	12.2	2.97	2.4	340	630	<0.010	4.8	268	2.0	<0.20	NA	NA
11/07/18	393.31	81.22	312.09	6.97	13.4	171	3.92	1.78	8.56	2.27	2.2	198	407	<0.010	4.0	228	1.8 J	0.20 UJ	NA	NA
08/08/19	393.31	81.52	311.79	6.02	14.6	231	5.05	NM	1.94	1.05	0.33	61.4	76.3	<0.0030	0.47	61	0.77	<0.20	<0.10	<0.20
01/29/20	393.31	82.58	310.73	6.72	12.8	192	1.78	NM	4.32	3.10	<5.0	247	335	<2.5 ^f	<10	130	NA	NA	0.27 ^e	<0.20
07/21/20	393.31	83.04	310.27	5.60	14.8	208	0.96	NM	4.38	2.90	<5.0	184	340	<2.5 ^f	<10	175	NA	NA	NA	NA
01/24/22	393.31	82.79	310.52	7.70	13.0	252	0.54	0.84	0.23	1.51	<0.50	1	<0.75	<0.010	<1.0	13.2	NA	NA	NA	NA
01/30/23	393.31	82.96	310.35	7.72	12.4	204	0.76	2.17	0.10	0.40	<1.0	<0.50	<1.5	<0.010	<2.0	2.8	NA	NA	NA	NA

Table B-9
Summary of Groundwater Sampling Results - Well MW-22
SeaTac Development Site
SeaTac, Washington

Notes:

- Values in bold and red exceed MTCA Method A Cleanup Levels.
- J = Laboratory estimated value
- ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
- ^b When benzene is present.
- ^c When benzene is not present.
- ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
- ^e The laboratory noted that the result for diesel-range organics is due to overlap from gasoline or a gasoline-range product.
- ^f The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:

- °C = degrees Celsius
- µg/L = micrograms per liter
- µmhos/cm = micromhos per centimeter
- DRO = diesel-range organics
- EDB = 1,2-dibromoethane
- GRO = gasoline-range organics
- mg/L = milligrams per liter
- NA = not analyzed
- NM = not measured
- NS = not sampled
- NTU = nephelometric turbidity unit
- ORO = oil-range organics

Table B-10
Summary of Groundwater Sampling Results - Well PORT-MW-B
SeaTac Development Site
SeaTac, Washington

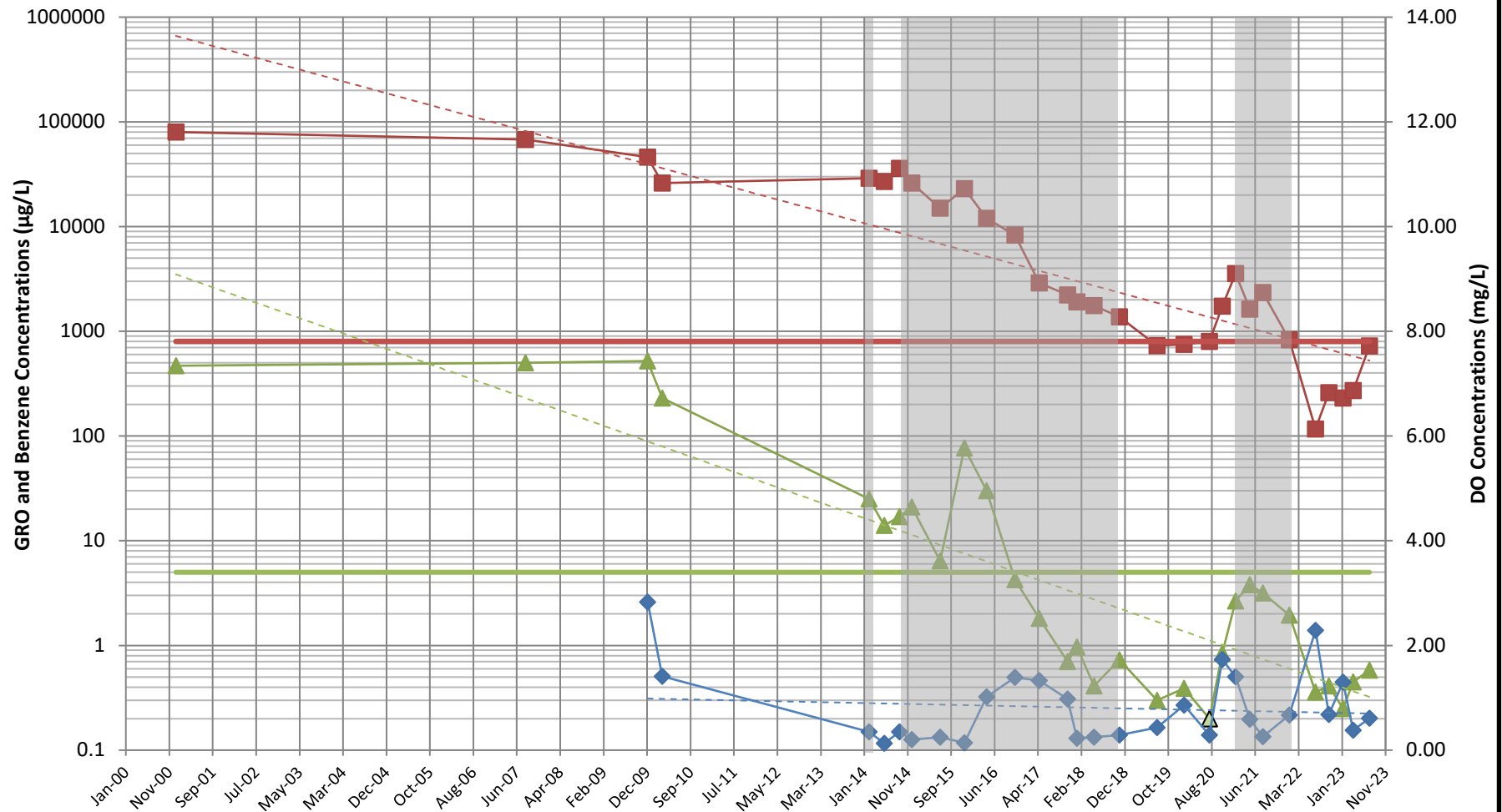
Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
08/03/11	400.00 ^e	NM	NM	NM	NM	NM	NM	NM	0.20	1.3	< 1.0	13	3.4	< 0.01	< 1.0	13	0.28	< 0.25	NA	NA
03/20/14	400.00 ^e	89.70	310.30 ^f	6.55	12.3	267	6.16	NM	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	< 0.50 J	< 0.10	< 0.20	NA	NA
05/28/14	400.00 ^e	89.50	310.50 ^f	6.50	14.2	317	4.63	98.3	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
09/12/14	400.00 ^e	89.71	310.29 ^f	6.56	14.0	266	3.56	6.18	< 0.10	< 0.25	< 0.25	1.10	1.90	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/05/14	400.00 ^e	89.71	310.29 ^f	6.57	12.6	265	4.07	84.1	0.11	< 0.25	< 0.25	1.10	1.00	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
06/25/15	400.00 ^e	89.67	310.33 ^f	6.51	14.3	290	3.80	4.18	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/02/15	400.00 ^e	91.61	308.39 ^f	6.56	13.0	267	2.34	1.79	< 0.25	< 0.20	< 0.20	0.26	0.40 J	< 0.070 ^g	< 0.20	2.3 J	< 0.10	0.49	NA	NA
05/04/16	400.00 ^e	90.55	309.45 ^f	6.72	13.2	219	2.59	7.38	<0.10	0.080 J	<0.20	0.74	0.50	<0.20 ^g	<0.20	0.83 J	<0.10	<0.20	NA	NA
11/16/16	400.00 ^e	90.31	309.69 ^f	6.70	13.1	192	3.97	11.7	<0.10	0.030 J	<0.20	0.04 J	<0.40	<0.20 ^g	<0.20	<0.50	<0.10	<0.20	NA	NA
05/02/17	400.00 ^e	89.65	310.35 ^f	6.54	12.9	107	3.85	2.63	<0.10	0.21	<0.20	1.16	<0.40	<0.020 ^e	<0.20	1.37	<0.10	<0.20	NA	NA
11/15/17	400.00 ^e	88.67	311.33 ^f	6.78	13.0	199	5.09	2.42	<0.10	<0.20	<0.20	0.36	<0.40	<0.20 ^g	<0.20	<0.50	<0.10	<0.20	NA	NA
01/18/18	400.00 ^e	88.17	311.83 ^f	6.82	12.6	173	1.39	3.43	0.15	0.47	<0.20	2.68	<0.40	<0.20 ^g	<0.20	3.24	0.17	<0.20	NA	NA
03/09/18	400.00 ^e	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/16/18	400.00 ^e	87.64	312.36 ^f	6.40	13.8	103	3.36	2.35	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
11/07/18	400.00 ^e	87.91	312.09 ^f	6.80	13.1	103	4.92	1.29	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
08/08/19	400.00 ^e	89.52	310.73 ^f	7.27	11.7	114	3.73	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.0030	0.11 J	<0.50	0.14	<0.20	<0.10	<0.20
01/29/20	399.83	105.60	294.23	6.66	12.0	166	8.70	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	NA	NA
07/21/20	399.83	89.77	310.06	5.37	14.5	174	3.15	NM	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/19/20	399.83	90.30	309.53	6.22	15.0	194	1.14	3.27	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/18/21	399.83	90.61	309.22	6.31	12.3	209	3.75	14.50	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/26/21	399.83	90.12	309.71	6.80	13.7	228	2.99	62.60	<0.10	0.22	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
07/26/21	399.83	90.28	309.55	6.88	15.2	185	3.88	2.10	<0.050	<0.10	<0.50	<0.25	<0.75	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/24/22	399.83	90.02	309.81	7.00	12.7	224	2.71	0.64	<0.050	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	NA	NA
07/25/22	399.83	89.11	310.72	6.88	17.8	253	2.01	6.20	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	399.83	89.49	310.34	6.14	14.2	152	4.11	12.70	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/30/23	399.83	89.67	310.16	7.48	11.9	211	1.43	114.00	<0.10	0.40	<1.0	1.2	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/11/23	399.83	89.52	310.31	7.27	11.7	114	3.73	18	<0.10	0.13 J	<1.0	<0.50	<1.5	<0.250 ^g	<2.0	<2.0	NA	NA	NA	NA

Table B-10
Summary of Groundwater Sampling Results - Well PORT-MW-B
SeaTac Development Site
SeaTac, Washington

Notes:
J = Laboratory estimated value
^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
^b When benzene is present.
^c When benzene is not present.
^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).
^e Top of casing elevation was not surveyed; elevation was estimated by Golder Associates, Inc.
^f Estimated elevation.
^g The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Abbreviations and Acronyms:
°C = degrees Celsius
µg/L = micrograms per liter
µmhos/cm = micromhos per centimeter
DRO = diesel-range organics
EDB = 1,2-dibromoethane
GRO = gasoline-range organics
mg/L = milligrams per liter
NA = not analyzed
NM = not measured
NS = not sampled
NTU = nephelometric turbidity unit
ORO = oil-range organics

MW-07

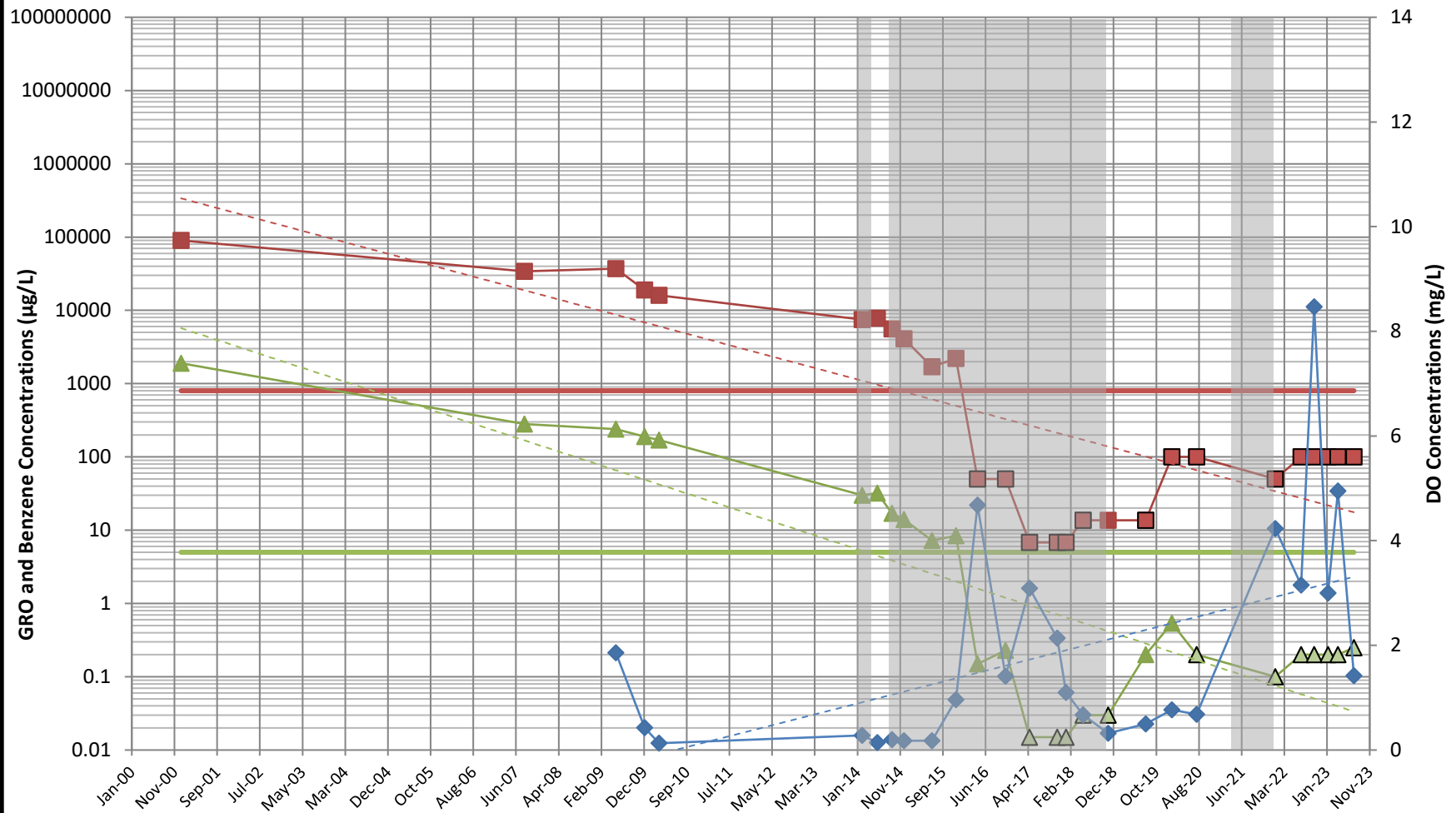


Legend

- GRO Concentrations
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 ug/L)
- - - GRO Trendline
- - - DO Trendline
- GRO Cleanup Level (800 ug/L)
- △ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- - - Benzene Trendline
- IAS - SVE system operating

FIGURE B-1
GRO and Benzene Concentrations in MW-07
SeaTac Development Site

MW-09

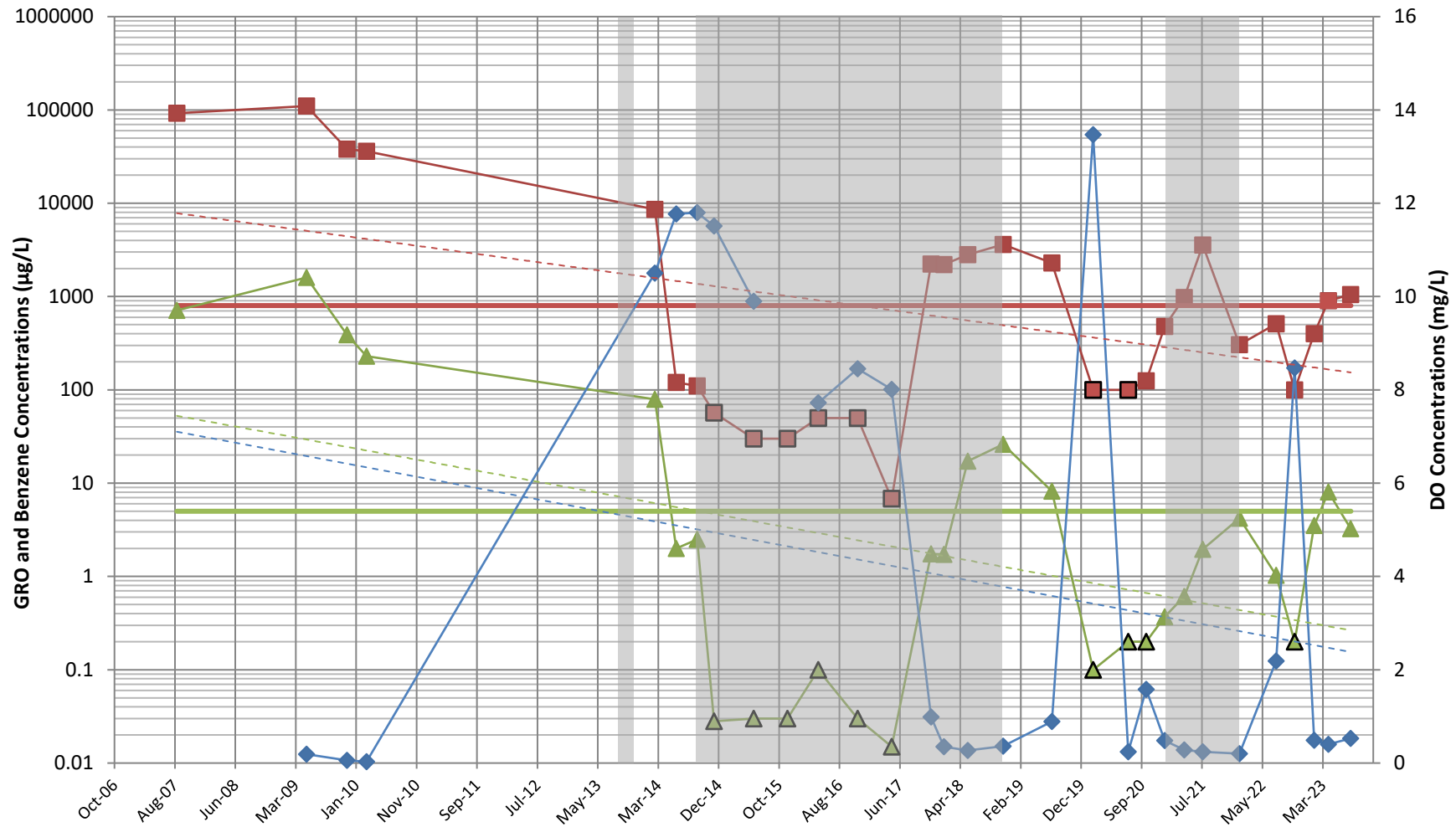


Legend

- GRO Concentrations
- GRO Cleanup Level (800 ug/L)
- △ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- - - Benzene Trendline
- GRO Non-Detects
- Benzene Cleanup Level (5 ug/L)
- - - Benzene Trendline
- - - DO Trendline
- IAS - SVE system operating

FIGURE B-2
GRO and Benzene Concentrations in
MW-09
SeaTac Development Site

MW-12

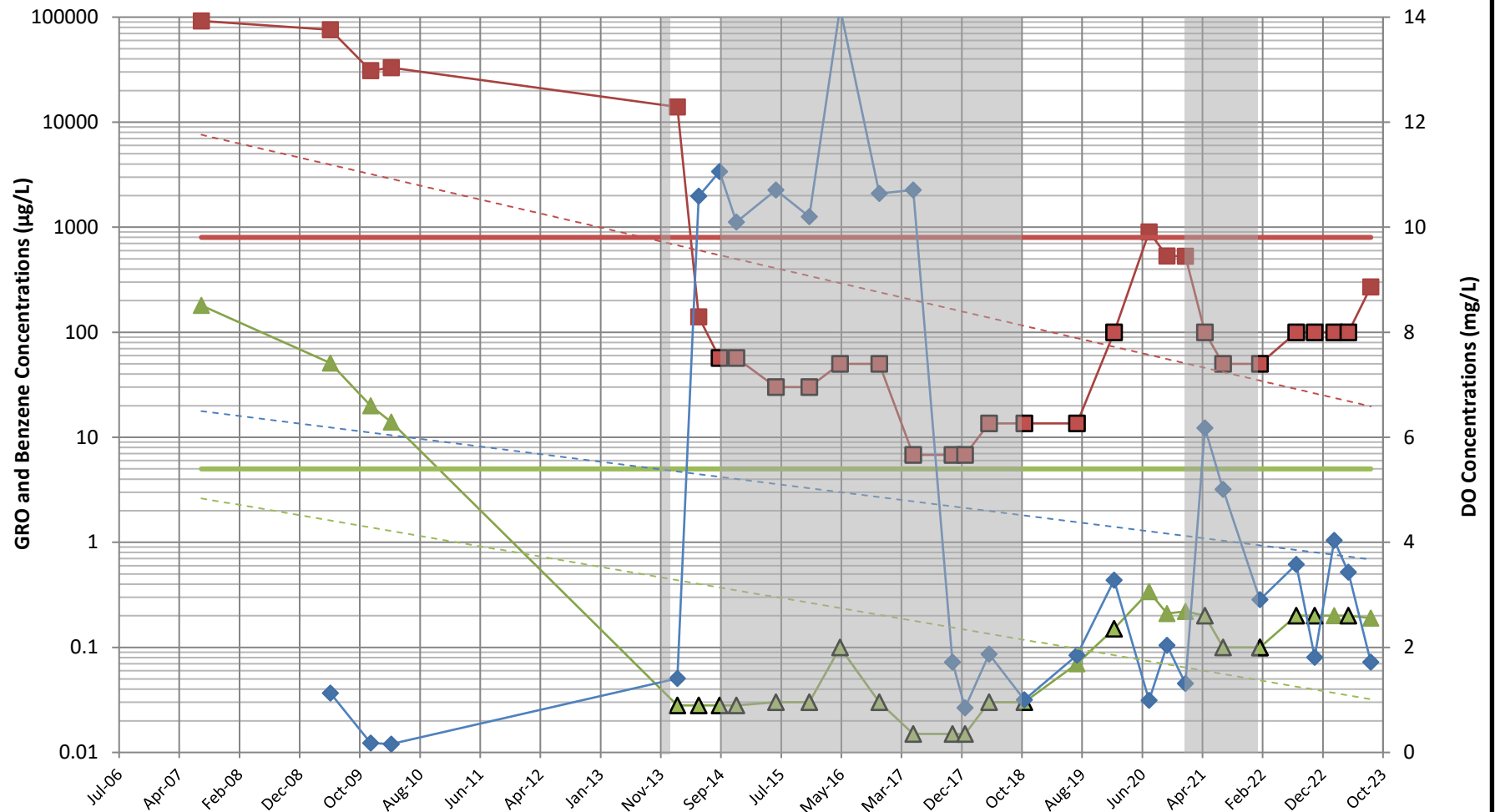


Legend

- GRO Concentrations
- GRO Cleanup Level (800 µg/L)
- ▲ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- - - Benzene Trendline
- GRO Non-Detects
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 µg/L)
- - - GRO Trendline
- - - DO Trendline
- IAS - SVE system operating

FIGURE B-3
GRO and Benzene Concentrations in MW-12
SeaTac Development Site

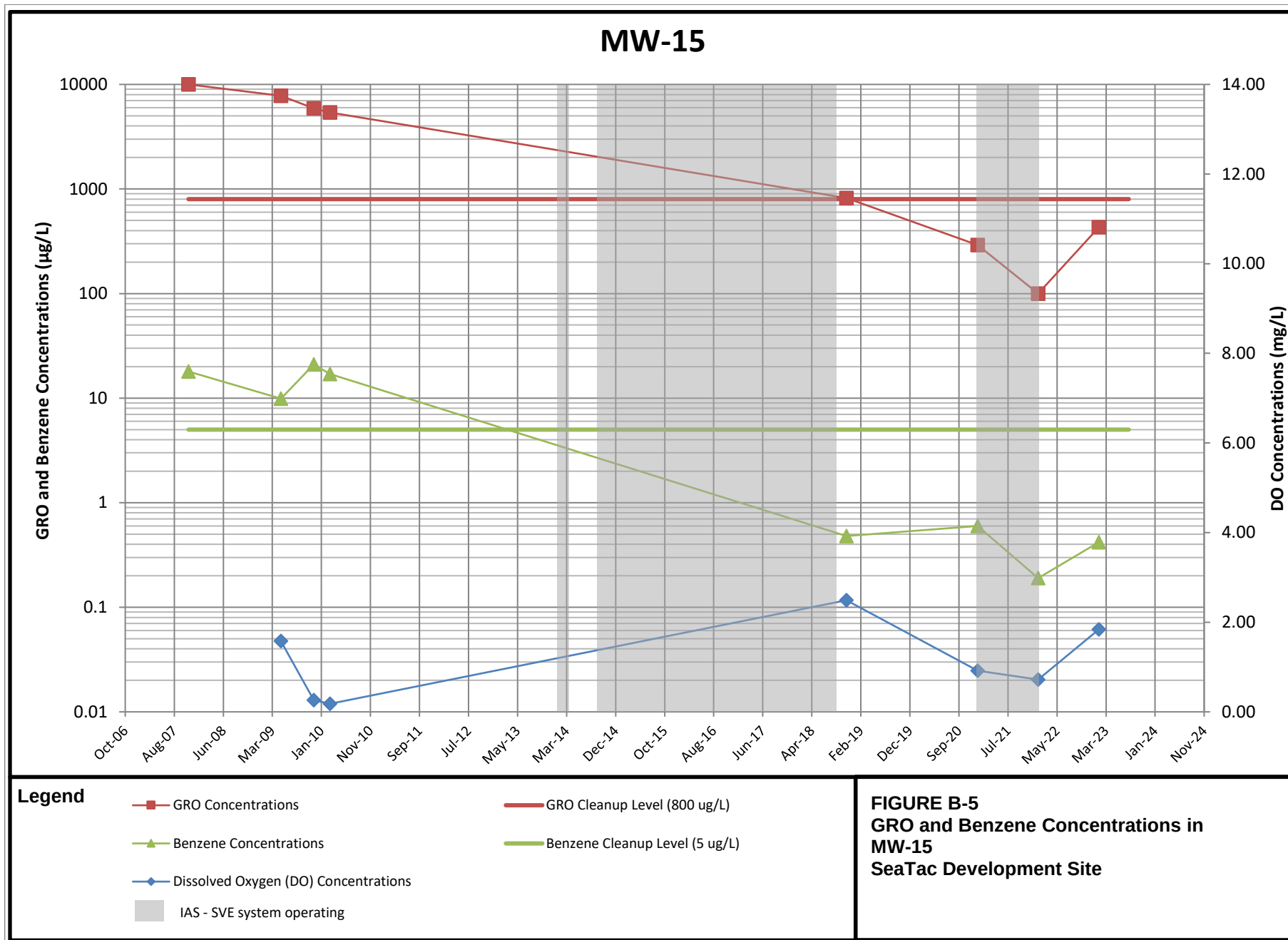
MW-13



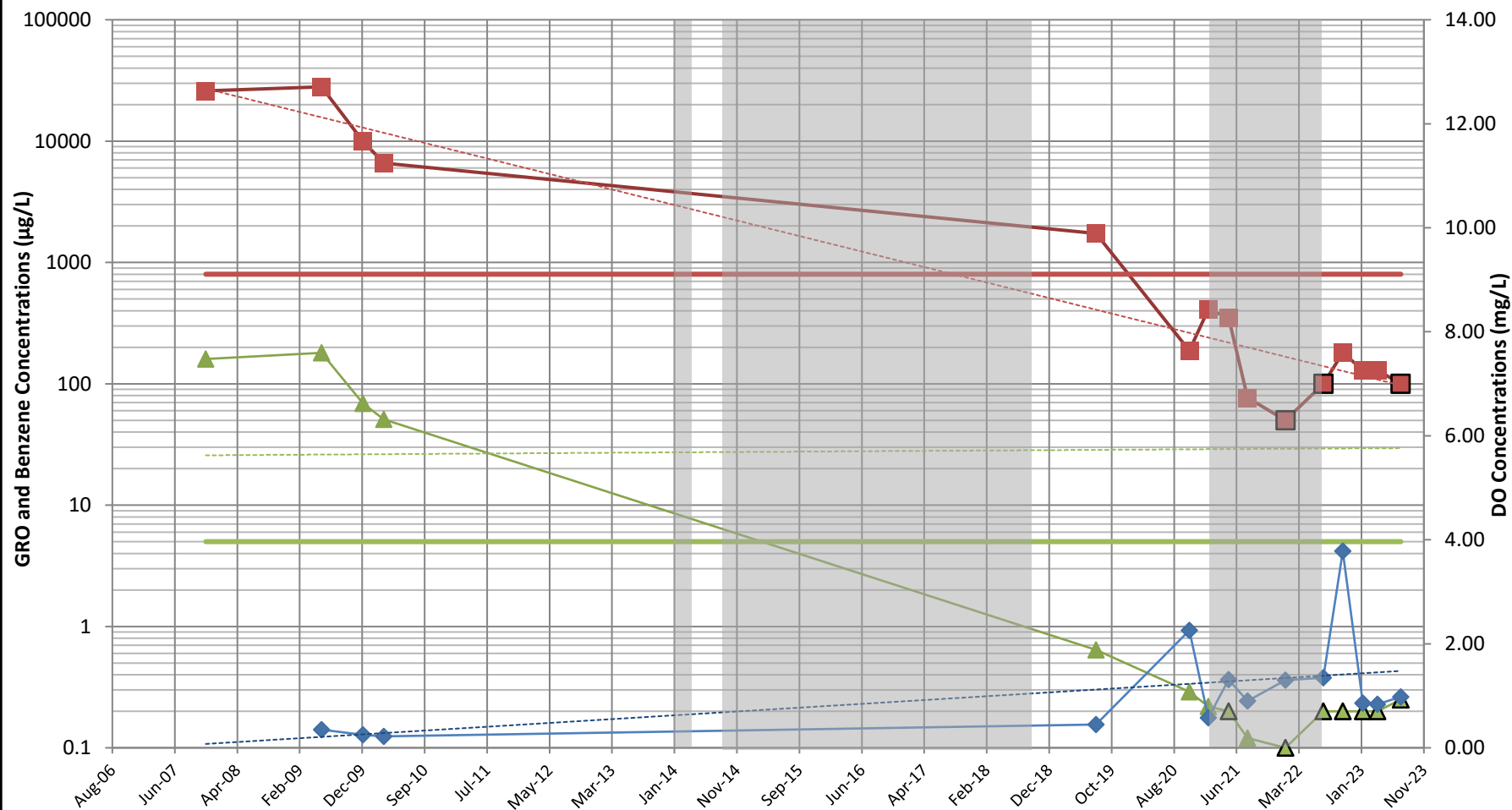
Legend

- GRO Concentrations
- GRO Cleanup Level (800 ug/L)
- ▲ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- - - Benzene Trendline
- GRO Non-Detects
- Benzene Cleanup Level (5 ug/L)
- - - GRO Trendline
- - - DO Trendline
- IAS - SVE system operating

FIGURE B-4
GRO and Benzene Concentrations in
MW-13
SeaTac Development Site



MW-16

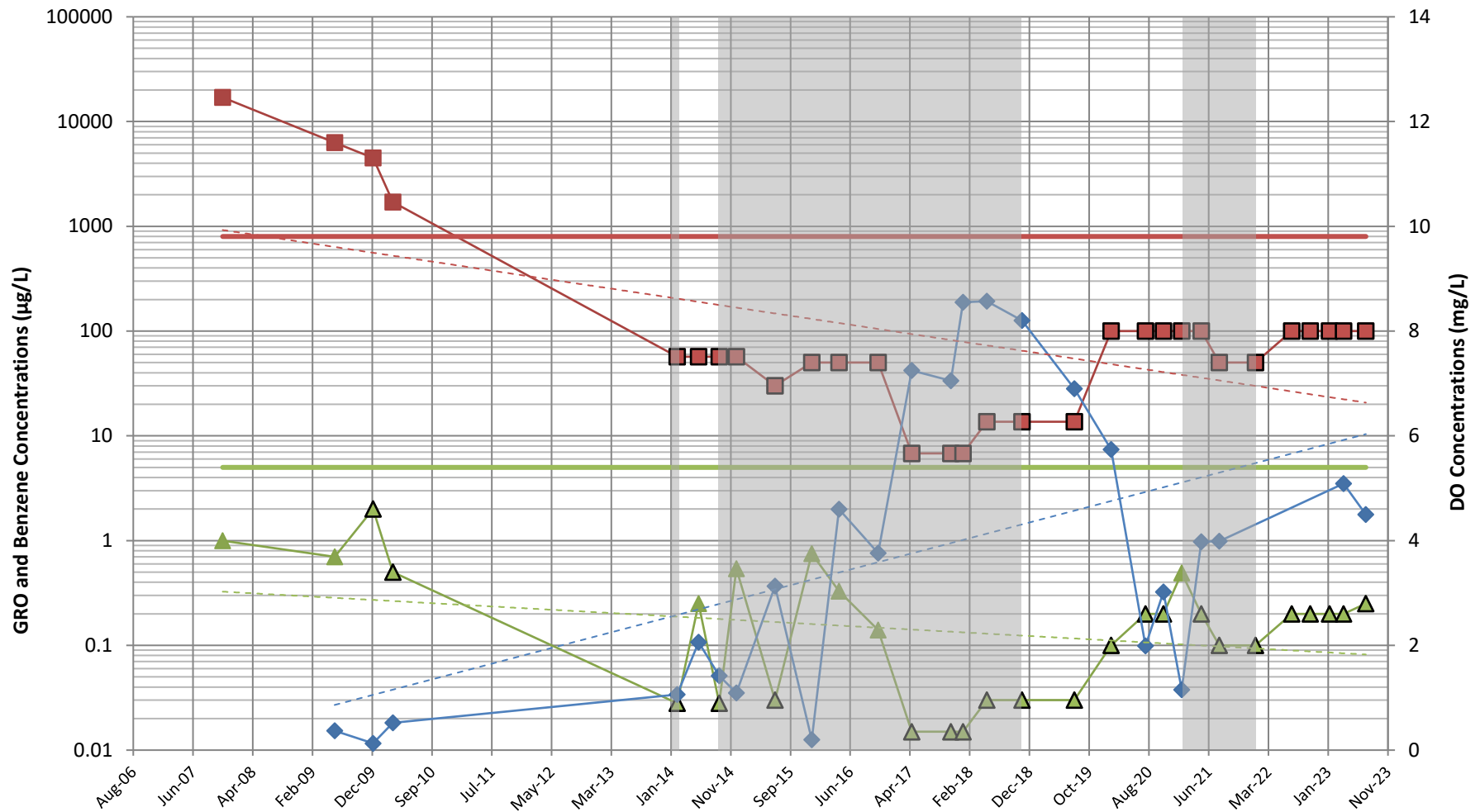


Legend

- GRO Concentrations
- ▲— Benzene Concentrations
- ▲ Benzene Non-Detects
- ◆— Dissolved Oxygen (DO) Concentrations
- Benzene Trendline
- GRO Cleanup Level (800 ug/L)
- Benzene Cleanup Level (5 ug/L)
- GRO Non-Detects
- GRO Trendline
- DO Trendline
- IAS - SVE system operating

FIGURE B-6
GRO and Benzene Concentrations in
MW-16
SeaTac Development Site

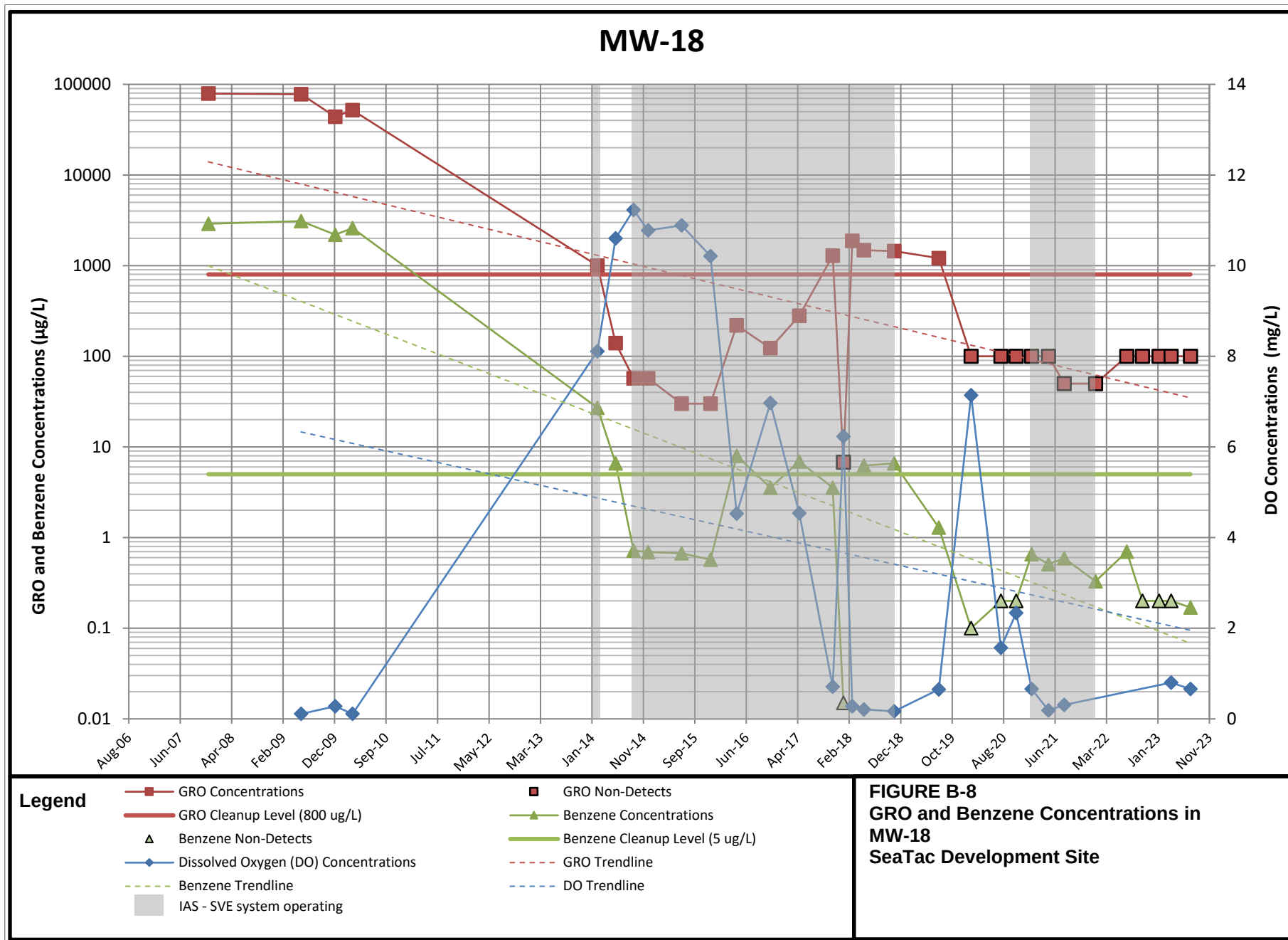
MW-17A

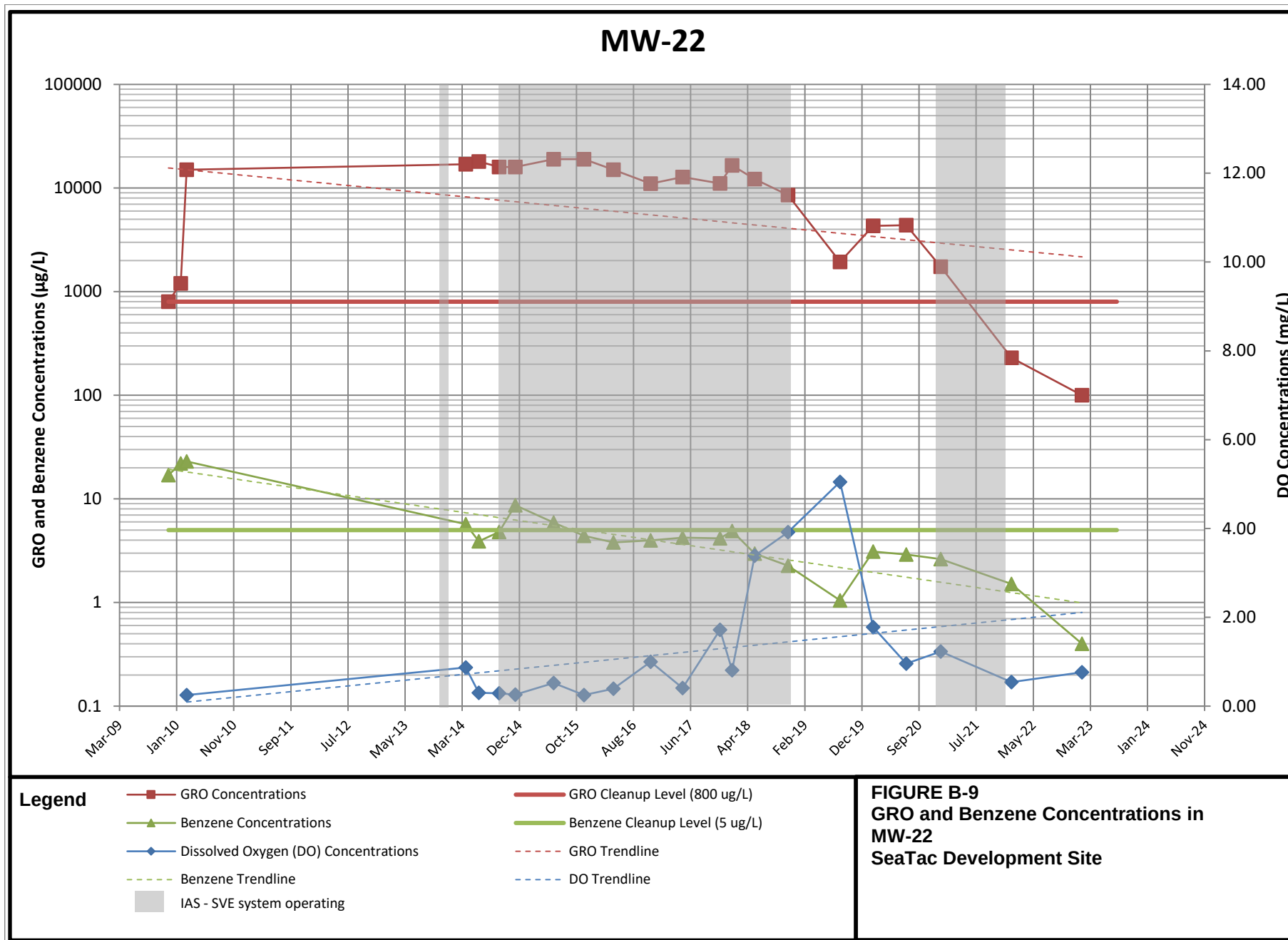


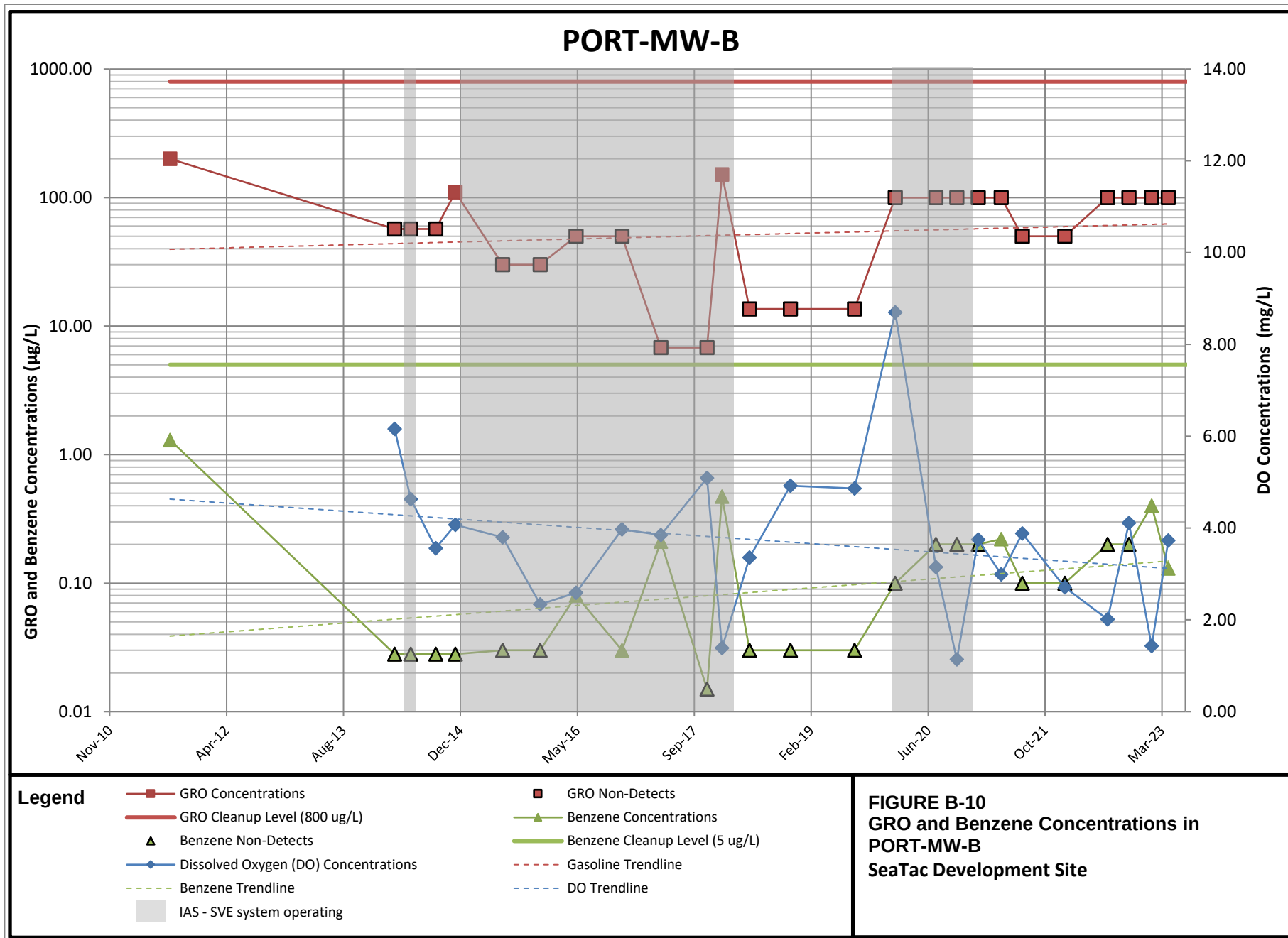
Legend

- GRO Concentrations
- GRO Cleanup Level (800 ug/L)
- ▲ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- - - Benzene Trendline
- GRO Non-Detects
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 ug/L)
- - - GRO Trendline
- - - DO Trendline
- IAS - SVE system operating

FIGURE B-7
GRO and Benzene Concentrations in
MW-17A
SeaTac Development Site







Analytical Laboratory Data Report



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, August 10, 2023

Mike Staton
Landau Associates (Northgate)
155 NE 100th St #302
Seattle, WA 98125

RE: A3H0772 - Sea-Tac Development Site - 2218001.010.011

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3H0772, which was received by the laboratory on 8/3/2023 at 10:50:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 3.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Landau Associates (Northgate)**155 NE 100th St #302
Seattle, WA 98125Project: **Sea-Tac Development Site**Project Number: **2218001.010.011**Project Manager: **Mike Staton****Report ID:****A3H0772 - 08 10 23 1724****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7-0723	A3H0772-01	Water	08/01/23 09:29	08/03/23 10:50
MW-9-0723	A3H0772-02	Water	08/01/23 10:33	08/03/23 10:50
MW-12-0723	A3H0772-03	Water	07/31/23 13:12	08/03/23 10:50
MW-13-0723	A3H0772-04	Water	08/01/23 10:06	08/03/23 10:50
MW-16-0723	A3H0772-05	Water	07/31/23 14:09	08/03/23 10:50
MW-17A-0723	A3H0772-06	Water	08/01/23 08:21	08/03/23 10:50
MW-18-0723	A3H0772-07	Water	08/01/23 08:57	08/03/23 10:50
MW-32-0723	A3H0772-08	Water	07/31/23 13:30	08/03/23 10:50
Equipment Blank-0723	A3H0772-09	Water	08/01/23 08:45	08/03/23 10:50
Trip Blank	A3H0772-10	Water	07/31/23 00:00	08/03/23 10:50

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

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ORELAP ID: OR100062Landau Associates (Northgate)155 NE 100th St #302
Seattle, WA 98125Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7-0723 (A3H0772-01)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	725	50.0	100	ug/L	1	08/04/23 21:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	105 %	Limits: 50-150 %	1	08/04/23 21:55	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			95 %	50-150 %	1	08/04/23 21:55	NWTPH-Gx (MS)	
MW-9-0723 (A3H0772-02)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	ND	50.0	100	ug/L	1	08/04/23 17:47	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	91 %	Limits: 50-150 %	1	08/04/23 17:47	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			104 %	50-150 %	1	08/04/23 17:47	NWTPH-Gx (MS)	
MW-12-0723 (A3H0772-03)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	1050	50.0	100	ug/L	1	08/04/23 22:40	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	08/04/23 22:40	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			96 %	50-150 %	1	08/04/23 22:40	NWTPH-Gx (MS)	
MW-13-0723 (A3H0772-04)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	270	50.0	100	ug/L	1	08/04/23 18:10	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	87 %	Limits: 50-150 %	1	08/04/23 18:10	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			89 %	50-150 %	1	08/04/23 18:10	NWTPH-Gx (MS)	
MW-16-0723 (A3H0772-05)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	ND	50.0	100	ug/L	1	08/04/23 18:32	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits: 50-150 %	1	08/04/23 18:32	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	08/04/23 18:32	NWTPH-Gx (MS)	
MW-17A-0723 (A3H0772-06)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	ND	50.0	100	ug/L	1	08/04/23 18:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	86 %	Limits: 50-150 %	1	08/04/23 18:55	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-150 %	1	08/04/23 18:55	NWTPH-Gx (MS)	
MW-18-0723 (A3H0772-07)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	ND	50.0	100	ug/L	1	08/04/23 19:18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	94 %	Limits: 50-150 %	1	08/04/23 19:18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			108 %	50-150 %	1	08/04/23 19:18	NWTPH-Gx (MS)	

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Landau Associates (Northgate)

155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-32-0723 (A3H0772-08)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	764	50.0	100	ug/L	1	08/04/23 23:02	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	08/04/23 23:02	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			90 %	50-150 %	1	08/04/23 23:02	NWTPH-Gx (MS)	
Equipment Blank-0723 (A3H0772-09)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	ND	50.0	100	ug/L	1	08/04/23 17:24	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	91 %	Limits: 50-150 %	1	08/04/23 17:24	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			93 %	50-150 %	1	08/04/23 17:24	NWTPH-Gx (MS)	
Trip Blank (A3H0772-10)		Matrix: Water			Batch: 23H0175			
Gasoline Range Organics	ND	50.0	100	ug/L	1	08/04/23 17:02	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	92 %	Limits: 50-150 %	1	08/04/23 17:02	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			96 %	50-150 %	1	08/04/23 17:02	NWTPH-Gx (MS)	

Apex Laboratories

Philip Nerenberg, Lab Director

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ORELAP ID: OR100062Landau Associates (Northgate)155 NE 100th St #302
Seattle, WA 98125Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Equipment Blank-0723 (A3H0772-09)		Matrix: Water			Batch: 23H0175			
Benzene	ND	0.100	0.200	ug/L	1	08/04/23 17:24	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	08/04/23 17:24	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/04/23 17:24	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	08/04/23 17:24	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>		<i>98 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>08/04/23 17:24</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>				<i>98 %</i>	<i>80-120 %</i>	<i>1</i>	<i>08/04/23 17:24</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>100 %</i>	<i>80-120 %</i>	<i>1</i>	<i>08/04/23 17:24</i>	<i>EPA 8260D</i>
Trip Blank (A3H0772-10)		Matrix: Water			Batch: 23H0175			
Benzene	ND	0.100	0.200	ug/L	1	08/04/23 17:02	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	08/04/23 17:02	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/04/23 17:02	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	08/04/23 17:02	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>		<i>96 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>08/04/23 17:02</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>				<i>102 %</i>	<i>80-120 %</i>	<i>1</i>	<i>08/04/23 17:02</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>101 %</i>	<i>80-120 %</i>	<i>1</i>	<i>08/04/23 17:02</i>	<i>EPA 8260D</i>

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Landau Associates (Northgate)

155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7-0723 (A3H0772-01)		Matrix: Water			Batch: 23H0175			
Benzene	0.580	0.125	0.250	ug/L	1	08/04/23 21:55	EPA 8260D	
Toluene	1.38	0.500	1.00	ug/L	1	08/04/23 21:55	EPA 8260D	
Ethylbenzene	2.94	0.250	0.500	ug/L	1	08/04/23 21:55	EPA 8260D	
Xylenes, total	6.78	0.750	1.50	ug/L	1	08/04/23 21:55	EPA 8260D	
Naphthalene	ND	4.00	4.00	ug/L	1	08/04/23 21:55	EPA 8260D	
n-Hexane	ND	5.00	10.0	ug/L	1	08/04/23 21:55	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits:	80-120 %	1	08/04/23 21:55	EPA 8260D
Toluene-d8 (Surr)			93 %		80-120 %	1	08/04/23 21:55	EPA 8260D
4-Bromofluorobenzene (Surr)			99 %		80-120 %	1	08/04/23 21:55	EPA 8260D
MW-9-0723 (A3H0772-02)		Matrix: Water			Batch: 23H0175			
Benzene	ND	0.125	0.250	ug/L	1	08/04/23 17:47	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	08/04/23 17:47	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/04/23 17:47	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	08/04/23 17:47	EPA 8260D	
Naphthalene	ND	4.00	4.00	ug/L	1	08/04/23 17:47	EPA 8260D	
n-Hexane	ND	5.00	10.0	ug/L	1	08/04/23 17:47	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	104 %	Limits:	80-120 %	1	08/04/23 17:47	EPA 8260D
Toluene-d8 (Surr)			109 %		80-120 %	1	08/04/23 17:47	EPA 8260D
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	08/04/23 17:47	EPA 8260D
MW-12-0723 (A3H0772-03)		Matrix: Water			Batch: 23H0175			
Benzene	3.26	0.125	0.250	ug/L	1	08/04/23 22:40	EPA 8260D	
Toluene	4.96	0.500	1.00	ug/L	1	08/04/23 22:40	EPA 8260D	
Ethylbenzene	44.4	0.250	0.500	ug/L	1	08/04/23 22:40	EPA 8260D	
Xylenes, total	143	0.750	1.50	ug/L	1	08/04/23 22:40	EPA 8260D	
n-Hexane	6.06	5.00	10.0	ug/L	1	08/04/23 22:40	EPA 8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	08/04/23 22:40	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	08/04/23 22:40	EPA 8260D
4-Bromofluorobenzene (Surr)			99 %		80-120 %	1	08/04/23 22:40	EPA 8260D
MW-12-0723 (A3H0772-03RE1)		Matrix: Water			Batch: 23H0245			
Naphthalene	8.28	2.00	4.00	ug/L	1	08/07/23 15:56	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	08/07/23 15:56	EPA 8260D

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503-718-2323

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Landau Associates (Northgate)

155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-0723 (A3H0772-03RE1)		Matrix: Water			Batch: 23H0245			
Surrogate: Toluene-d8 (Surr)		Recovery: 100 %	Limits: 80-120 %	1	08/07/23 15:56	EPA 8260D		
4-Bromofluorobenzene (Surr)		101 %	80-120 %	1	08/07/23 15:56	EPA 8260D		
MW-13-0723 (A3H0772-04)		Matrix: Water			Batch: 23H0175			
Benzene	0.190	0.125	0.250	ug/L	1	08/04/23 18:10	EPA 8260D	J
Toluene	ND	0.500	1.00	ug/L	1	08/04/23 18:10	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/04/23 18:10	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	08/04/23 18:10	EPA 8260D	
Naphthalene	ND	4.00	4.00	ug/L	1	08/04/23 18:10	EPA 8260D	
n-Hexane	ND	5.00	10.0	ug/L	1	08/04/23 18:10	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 91 %	Limits: 80-120 %	1	08/04/23 18:10	EPA 8260D		
Toluene-d8 (Surr)		97 %	80-120 %	1	08/04/23 18:10	EPA 8260D		
4-Bromofluorobenzene (Surr)		96 %	80-120 %	1	08/04/23 18:10	EPA 8260D		
MW-16-0723 (A3H0772-05)		Matrix: Water			Batch: 23H0175			
Benzene	ND	0.125	0.250	ug/L	1	08/04/23 18:32	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	08/04/23 18:32	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/04/23 18:32	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	08/04/23 18:32	EPA 8260D	
Naphthalene	ND	4.00	4.00	ug/L	1	08/04/23 18:32	EPA 8260D	
n-Hexane	ND	5.00	10.0	ug/L	1	08/04/23 18:32	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1	08/04/23 18:32	EPA 8260D		
Toluene-d8 (Surr)		101 %	80-120 %	1	08/04/23 18:32	EPA 8260D		
4-Bromofluorobenzene (Surr)		100 %	80-120 %	1	08/04/23 18:32	EPA 8260D		
MW-17A-0723 (A3H0772-06)		Matrix: Water			Batch: 23H0175			
Benzene	ND	0.125	0.250	ug/L	1	08/04/23 18:55	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	08/04/23 18:55	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/04/23 18:55	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	08/04/23 18:55	EPA 8260D	
Naphthalene	ND	4.00	4.00	ug/L	1	08/04/23 18:55	EPA 8260D	
n-Hexane	ND	5.00	10.0	ug/L	1	08/04/23 18:55	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 104 %	Limits: 80-120 %	1	08/04/23 18:55	EPA 8260D		
Toluene-d8 (Surr)		110 %	80-120 %	1	08/04/23 18:55	EPA 8260D		

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Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-17A-0723 (A3H0772-06)				Matrix: Water		Batch: 23H0175		
Surrogate: 4-Bromofluorobenzene (Surr)		Recovery: 101 %	Limits: 80-120 %	1	08/04/23 18:55		EPA 8260D	
MW-18-0723 (A3H0772-07)				Matrix: Water		Batch: 23H0175		
Benzene	0.170	0.125	0.250	ug/L	1	08/04/23 19:18	EPA 8260D	J
Toluene	ND	0.500	1.00	ug/L	1	08/04/23 19:18	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/04/23 19:18	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	08/04/23 19:18	EPA 8260D	
Naphthalene	ND	4.00	4.00	ug/L	1	08/04/23 19:18	EPA 8260D	
n-Hexane	ND	5.00	10.0	ug/L	1	08/04/23 19:18	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 104 %	Limits: 80-120 %	1	08/04/23 19:18		EPA 8260D	
Toluene-d8 (Surr)		105 %	80-120 %	1	08/04/23 19:18		EPA 8260D	
4-Bromofluorobenzene (Surr)		100 %	80-120 %	1	08/04/23 19:18		EPA 8260D	
MW-32-0723 (A3H0772-08)				Matrix: Water		Batch: 23H0175		
Benzene	2.25	0.125	0.250	ug/L	1	08/04/23 23:02	EPA 8260D	
Toluene	3.84	0.500	1.00	ug/L	1	08/04/23 23:02	EPA 8260D	
Ethylbenzene	36.6	0.250	0.500	ug/L	1	08/04/23 23:02	EPA 8260D	
Xylenes, total	115	0.750	1.50	ug/L	1	08/04/23 23:02	EPA 8260D	
n-Hexane	ND	5.00	10.0	ug/L	1	08/04/23 23:02	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 98 %	Limits: 80-120 %	1	08/04/23 23:02		EPA 8260D	
Toluene-d8 (Surr)		97 %	80-120 %	1	08/04/23 23:02		EPA 8260D	
4-Bromofluorobenzene (Surr)		102 %	80-120 %	1	08/04/23 23:02		EPA 8260D	
MW-32-0723 (A3H0772-08RE1)				Matrix: Water		Batch: 23H0245		
Naphthalene	11.5	2.00	4.00	ug/L	1	08/07/23 16:24	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %	Limits: 80-120 %	1	08/07/23 16:24		EPA 8260D	
Toluene-d8 (Surr)		100 %	80-120 %	1	08/07/23 16:24		EPA 8260D	
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	08/07/23 16:24		EPA 8260D	

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Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7-0723 (A3H0772-01)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.0500	0.0500	ug/L	1	08/10/23 01:21	EPA 8260D SIM	R-02
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %	Limits: 80-120 %	1	08/10/23 01:21	EPA 8260D SIM		
Toluene-d8 (Surr)		103 %	80-120 %	1	08/10/23 01:21	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		98 %	80-120 %	1	08/10/23 01:21	EPA 8260D SIM		
MW-9-0723 (A3H0772-02)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	08/10/23 01:48	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %	Limits: 80-120 %	1	08/10/23 01:48	EPA 8260D SIM		
Toluene-d8 (Surr)		101 %	80-120 %	1	08/10/23 01:48	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		103 %	80-120 %	1	08/10/23 01:48	EPA 8260D SIM		
MW-12-0723 (A3H0772-03)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	08/10/23 02:14	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %	Limits: 80-120 %	1	08/10/23 02:14	EPA 8260D SIM		
Toluene-d8 (Surr)		100 %	80-120 %	1	08/10/23 02:14	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	08/10/23 02:14	EPA 8260D SIM		
MW-13-0723 (A3H0772-04)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.360	0.360	ug/L	1	08/10/23 02:41	EPA 8260D SIM	R-02
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %	Limits: 80-120 %	1	08/10/23 02:41	EPA 8260D SIM		
Toluene-d8 (Surr)		101 %	80-120 %	1	08/10/23 02:41	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	08/10/23 02:41	EPA 8260D SIM		
MW-16-0723 (A3H0772-05)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	08/10/23 03:08	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %	Limits: 80-120 %	1	08/10/23 03:08	EPA 8260D SIM		
Toluene-d8 (Surr)		103 %	80-120 %	1	08/10/23 03:08	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		102 %	80-120 %	1	08/10/23 03:08	EPA 8260D SIM		
MW-17A-0723 (A3H0772-06)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	08/10/23 03:35	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %	Limits: 80-120 %	1	08/10/23 03:35	EPA 8260D SIM		
Toluene-d8 (Surr)		100 %	80-120 %	1	08/10/23 03:35	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		102 %	80-120 %	1	08/10/23 03:35	EPA 8260D SIM		

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Seattle, WA 98125Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

ANALYTICAL SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-18-0723 (A3H0772-07)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	08/10/23 04:02	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits: 80-120 %	1	08/10/23 04:02	EPA 8260D SIM	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/10/23 04:02	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			102 %	80-120 %	1	08/10/23 04:02	EPA 8260D SIM	
MW-32-0723 (A3H0772-08)		Matrix: Water			Batch: 23H0341			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	08/10/23 04:29	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits: 80-120 %	1	08/10/23 04:29	EPA 8260D SIM	
Toluene-d8 (Surr)			100 %	80-120 %	1	08/10/23 04:29	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	08/10/23 04:29	EPA 8260D SIM	

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Seattle, WA 98125Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0175 - EPA 5030C						Water						
Blank (23H0175-BLK1)			Prepared: 08/04/23 13:04 Analyzed: 08/04/23 16:39									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						
LCS (23H0175-BS2)			Prepared: 08/04/23 13:04 Analyzed: 08/04/23 16:17									
NWTPH-Gx (MS)												
Gasoline Range Organics	462	50.0	100	ug/L	1	500	---	92	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %		50-150 %		"						
Duplicate (23H0175-DUP1)			Prepared: 08/04/23 13:04 Analyzed: 08/04/23 22:17									
QC Source Sample: MW-7-0723 (A3H0772-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	714	50.0	100	ug/L	1	---	725	---	---	2	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %		50-150 %		"						
Duplicate (23H0175-DUP2)			Prepared: 08/04/23 13:04 Analyzed: 08/05/23 00:09									
QC Source Sample: Non-SDG (A3H0770-01)												
Gasoline Range Organics	ND	500	1000	ug/L	10	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 87 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		85 %		50-150 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Landau Associates (Northgate)

155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0175 - EPA 5030C						Water						
Blank (23H0175-BLK1)			Prepared: 08/04/23 13:04 Analyzed: 08/04/23 16:39									
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		117 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
LCS (23H0175-BS1)						Prepared: 08/04/23 13:04 Analyzed: 08/04/23 15:43						
EPA 8260D												
Benzene	19.7	0.100	0.200	ug/L	1	20.0	---	98	80-120%	---	---	
Toluene	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Ethylbenzene	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Xylenes, total	56.8	0.750	1.50	ug/L	1	60.0	---	95	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		111 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		90 %		80-120 %		"						
Duplicate (23H0175-DUP1)						Prepared: 08/04/23 13:04 Analyzed: 08/04/23 22:17						
QC Source Sample: MW-7-0723 (A3H0772-01)												
EPA 8260D												
Benzene	0.610	0.100	0.200	ug/L	1	---	0.580	---	---	5	30%	
Toluene	1.36	0.500	1.00	ug/L	1	---	1.38	---	---	1	30%	
Ethylbenzene	3.00	0.250	0.500	ug/L	1	---	2.94	---	---	2	30%	
Xylenes, total	7.31	0.750	1.50	ug/L	1	---	6.78	---	---	8	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		92 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						
Duplicate (23H0175-DUP2)						Prepared: 08/04/23 13:04 Analyzed: 08/05/23 00:09						
QC Source Sample: Non-SDG (A3H0770-01)												
Benzene	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

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155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0175 - EPA 5030C						Water						
Duplicate (23H0175-DUP2)			Prepared: 08/04/23 13:04 Analyzed: 08/05/23 00:09									
QC Source Sample: Non-SDG (A3H0770-01)												
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Xylenes, total	ND	7.50	15.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
Matrix Spike (23H0175-MS1)			Prepared: 08/04/23 13:04 Analyzed: 08/04/23 20:02									
QC Source Sample: Non-SDG (A3H0717-01)												
EPA 8260D												
Benzene	20.2	0.100	0.200	ug/L	1	20.0	ND	101	79-120%	---	---	
Toluene	19.9	0.500	1.00	ug/L	1	20.0	ND	100	80-121%	---	---	
Ethylbenzene	21.1	0.250	0.500	ug/L	1	20.0	ND	106	79-121%	---	---	
Xylenes, total	57.5	0.750	1.50	ug/L	1	60.0	ND	96	79-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						

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Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0175 - EPA 5030C						Water						
Blank (23H0175-BLK1)			Prepared: 08/04/23 13:04		Analyzed: 08/04/23 16:39							
EPA 8260D												
Benzene	ND	0.125	0.250	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	4.00	4.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
n-Hexane	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		117 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
LCS (23H0175-BS1)			Prepared: 08/04/23 13:04		Analyzed: 08/04/23 15:43							
EPA 8260D												
Benzene	19.7	0.125	0.250	ug/L	1	20.0	---	98	80-120%	---	---	
Toluene	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Ethylbenzene	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Xylenes, total	56.8	0.750	1.50	ug/L	1	60.0	---	95	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Naphthalene	13.8	4.00	4.00	ug/L	1	20.0	---	69	80-120%	---	---	Q-55
1,2-Dibromoethane (EDB)	19.3	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,2-Dichloroethane (EDC)	20.5	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Isopropylbenzene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2,4-Trimethylbenzene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,3,5-Trimethylbenzene	17.5	0.500	1.00	ug/L	1	20.0	---	87	80-120%	---	---	
n-Hexane	25.0	5.00	10.0	ug/L	1	20.0	---	125	80-120%	---	---	Q-55
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		111 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		90 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Landau Associates (Northgate)

155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0175 - EPA 5030C						Water						
Duplicate (23H0175-DUP1)						Prepared: 08/04/23 13:04 Analyzed: 08/04/23 22:17						
QC Source Sample: MW-7-0723 (A3H0772-01)												
EPA 8260D												
Benzene	0.610	0.125	0.250	ug/L	1	---	0.580	---	---	5	30%	
Toluene	1.36	0.500	1.00	ug/L	1	---	1.38	---	---	1	30%	
Ethylbenzene	3.00	0.250	0.500	ug/L	1	---	2.94	---	---	2	30%	
Xylenes, total	7.31	0.750	1.50	ug/L	1	---	6.78	---	---	8	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	4.00	4.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	0.660	0.500	1.00	ug/L	1	---	0.640	---	---	3	30%	
1,2,4-Trimethylbenzene	8.08	0.500	1.00	ug/L	1	---	7.03	---	---	14	30%	
1,3,5-Trimethylbenzene	1.05	0.500	1.00	ug/L	1	---	0.980	---	---	7	30%	
n-Hexane	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		92 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Duplicate (23H0175-DUP2)

Prepared: 08/04/23 13:04 Analyzed: 08/05/23 00:09

QC Source Sample: Non-SDG (A3H0770-01)

Benzene	ND	1.25	2.50	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Xylenes, total	ND	7.50	15.0	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	40.0	40.0	ug/L	10	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
n-Hexane	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

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155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23H0175 - EPA 5030C						Water							
Duplicate (23H0175-DUP2)			Prepared: 08/04/23 13:04 Analyzed: 08/05/23 00:09										
QC Source Sample: Non-SDG (A3H0770-01)													
Surr: Toluene-d8 (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x							
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"							
Matrix Spike (23H0175-MS1)			Prepared: 08/04/23 13:04 Analyzed: 08/04/23 20:02										
QC Source Sample: Non-SDG (A3H0717-01)													
EPA 8260D													
Benzene	20.2	0.125	0.250	ug/L	1	20.0	ND	101	79-120%	---	---	Q-54a	
Toluene	19.9	0.500	1.00	ug/L	1	20.0	ND	100	80-121%	---	---		
Ethylbenzene	21.1	0.250	0.500	ug/L	1	20.0	ND	106	79-121%	---	---		
Xylenes, total	57.5	0.750	1.50	ug/L	1	60.0	ND	96	79-121%	---	---		
Methyl tert-butyl ether (MTBE)	20.6	0.500	1.00	ug/L	1	20.0	ND	103	71-124%	---	---		
Naphthalene	13.0	4.00	4.00	ug/L	1	20.0	ND	65	61-128%	---	---	Q-54	
1,2-Dibromoethane (EDB)	19.4	0.250	0.500	ug/L	1	20.0	ND	97	77-121%	---	---		
1,2-Dichloroethane (EDC)	20.0	0.250	0.500	ug/L	1	20.0	ND	100	73-128%	---	---		
Isopropylbenzene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	72-131%	---	---		
1,2,4-Trimethylbenzene	18.7	0.500	1.00	ug/L	1	20.0	ND	94	76-124%	---	---		
1,3,5-Trimethylbenzene	19.0	0.500	1.00	ug/L	1	20.0	ND	95	75-124%	---	---	Q-54	
n-Hexane	25.7	5.00	10.0	ug/L	1	20.0	ND	129	48-143%	---	---		
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x							
Toluene-d8 (Surr)		99 %		80-120 %		"							
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"							

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Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0245 - EPA 5030C						Water						
Blank (23H0245-BLK1)			Prepared: 08/07/23 10:00 Analyzed: 08/07/23 13:08									
EPA 8260D												
Benzene	ND	0.125	0.250	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						
LCS (23H0245-BS1)			Prepared: 08/07/23 10:00 Analyzed: 08/07/23 12:14									
EPA 8260D												
Benzene	18.8	0.125	0.250	ug/L	1	20.0	---	94	80-120%	---	---	
Toluene	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Ethylbenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Xylenes, total	58.8	0.750	1.50	ug/L	1	60.0	---	98	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Naphthalene	18.3	2.00	4.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloroethane (EDC)	19.1	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Isopropylbenzene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,4-Trimethylbenzene	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,3,5-Trimethylbenzene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
Duplicate (23H0245-DUP1)			Prepared: 08/07/23 12:00 Analyzed: 08/07/23 22:16									

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Landau Associates (Northgate)

155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0245 - EPA 5030C						Water						
Duplicate (23H0245-DUP1)			Prepared: 08/07/23 12:00		Analyzed: 08/07/23 22:16							
QC Source Sample: Non-SDG (A3H0819-06)												
Benzene	ND	0.625	1.25	ug/L	5	---	ND	---	---	---	30%	
Toluene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Ethylbenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Xylenes, total	ND	3.75	7.50	ug/L	5	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Naphthalene	ND	10.0	20.0	ug/L	5	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Isopropylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						

Matrix Spike (23H0245-MS1)

Prepared: 08/07/23 12:00 Analyzed: 08/07/23 20:28

QC Source Sample: Non-SDG (A3H0819-08)EPA 8260D

Benzene	20.1	0.125	0.250	ug/L	1	20.0	ND	101	79-120%	---	---	
Toluene	19.7	0.500	1.00	ug/L	1	20.0	ND	99	80-121%	---	---	
Ethylbenzene	19.9	0.250	0.500	ug/L	1	20.0	ND	100	79-121%	---	---	
Xylenes, total	61.7	0.750	1.50	ug/L	1	60.0	ND	103	79-121%	---	---	
Methyl tert-butyl ether (MTBE)	18.6	0.500	1.00	ug/L	1	20.0	ND	93	71-124%	---	---	
Naphthalene	18.1	2.00	4.00	ug/L	1	20.0	ND	90	61-128%	---	---	
1,2-Dibromoethane (EDB)	19.3	0.250	0.500	ug/L	1	20.0	ND	96	77-121%	---	---	
1,2-Dichloroethane (EDC)	19.8	0.250	0.500	ug/L	1	20.0	ND	99	73-128%	---	---	
Isopropylbenzene	20.6	0.500	1.00	ug/L	1	20.0	ND	103	72-131%	---	---	
1,2,4-Trimethylbenzene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	76-124%	---	---	
1,3,5-Trimethylbenzene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	75-124%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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Landau Associates (Northgate)

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Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0341 - EPA 5030C						Water						
Blank (23H0341-BLK1)			Prepared: 08/09/23 11:51 Analyzed: 08/10/23 00:27									
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (23H0341-BS1)			Prepared: 08/09/23 11:51 Analyzed: 08/09/23 23:33									
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	0.193	0.0100	0.0200	ug/L	1	0.200	---	96	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Duplicate (23H0341-DUP1)			Prepared: 08/09/23 11:51 Analyzed: 08/10/23 04:56									
QC Source Sample: MW-32-0723 (A3H0772-08)												
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						
Matrix Spike (23H0341-MS1)			Prepared: 08/09/23 11:51 Analyzed: 08/10/23 10:18									
QC Source Sample: Non-SDG (A3H0798-03)												
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	0.203	0.0100	0.0200	ug/L	1	0.200	ND	102	77-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Matrix Spike Dup (23H0341-MSD1)			Prepared: 08/09/23 11:51 Analyzed: 08/10/23 10:45									
QC Source Sample: Non-SDG (A3H0798-03)												
1,2-Dibromoethane (EDB)	0.201	0.0100	0.0200	ug/L	1	0.200	ND	101	77-121%	1	30%	

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Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

QUALITY CONTROL (QC) SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0341 - EPA 5030C						Water						
Matrix Spike Dup (23H0341-MSD1)			Prepared: 08/09/23 11:51 Analyzed: 08/10/23 10:45									
<u>QC Source Sample: Non-SDG (A3H0798-03)</u>												
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

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Seattle, WA 98125

Project: **Sea-Tac Development Site**Project Number: **2218001.010.011**Project Manager: **Mike Staton****Report ID:****A3H0772 - 08 10 23 1724****SAMPLE PREPARATION INFORMATION****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23H0175</u>							
A3H0772-01	Water	NWTPH-Gx (MS)	08/01/23 09:29	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-02	Water	NWTPH-Gx (MS)	08/01/23 10:33	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-03	Water	NWTPH-Gx (MS)	07/31/23 13:12	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-04	Water	NWTPH-Gx (MS)	08/01/23 10:06	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-05	Water	NWTPH-Gx (MS)	07/31/23 14:09	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-06	Water	NWTPH-Gx (MS)	08/01/23 08:21	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-07	Water	NWTPH-Gx (MS)	08/01/23 08:57	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-08	Water	NWTPH-Gx (MS)	07/31/23 13:30	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-09	Water	NWTPH-Gx (MS)	08/01/23 08:45	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-10	Water	NWTPH-Gx (MS)	07/31/23 00:00	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260D**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23H0175</u>							
A3H0772-09	Water	EPA 8260D	08/01/23 08:45	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-10	Water	EPA 8260D	07/31/23 00:00	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260D**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23H0175</u>							
A3H0772-01	Water	EPA 8260D	08/01/23 09:29	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-02	Water	EPA 8260D	08/01/23 10:33	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-03	Water	EPA 8260D	07/31/23 13:12	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-04	Water	EPA 8260D	08/01/23 10:06	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-05	Water	EPA 8260D	07/31/23 14:09	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-06	Water	EPA 8260D	08/01/23 08:21	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-07	Water	EPA 8260D	08/01/23 08:57	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
A3H0772-08	Water	EPA 8260D	07/31/23 13:30	08/04/23 13:04	5mL/5mL	5mL/5mL	1.00
<u>Batch: 23H0245</u>							
A3H0772-03RE1	Water	EPA 8260D	07/31/23 13:12	08/07/23 12:00	5mL/5mL	5mL/5mL	1.00
A3H0772-08RE1	Water	EPA 8260D	07/31/23 13:30	08/07/23 12:00	5mL/5mL	5mL/5mL	1.00

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Project: Sea-Tac Development Site

Project Number: **2218001.010.011**

Project Manager: **Mike Staton**

Report ID:

A3H0772 - 08 10 23 1724

SAMPLE PREPARATION INFORMATION

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23H0341</u>							
A3H0772-01	Water	EPA 8260D SIM	08/01/23 09:29	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00
A3H0772-02	Water	EPA 8260D SIM	08/01/23 10:33	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00
A3H0772-03	Water	EPA 8260D SIM	07/31/23 13:12	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00
A3H0772-04	Water	EPA 8260D SIM	08/01/23 10:06	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00
A3H0772-05	Water	EPA 8260D SIM	07/31/23 14:09	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00
A3H0772-06	Water	EPA 8260D SIM	08/01/23 08:21	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00
A3H0772-07	Water	EPA 8260D SIM	08/01/23 08:57	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00
A3H0772-08	Water	EPA 8260D SIM	07/31/23 13:30	08/09/23 11:52	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +5%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -11%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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**Revised A3H0772*

LA - LANDAU ASSOCIATES **Chain-of-Custody Record**

Project Name: Sea-Tac Development Project No.: 2218001.010.011

Project Location/Event: Drainage

Sampler's Name: Spencer, L

Project Contact: Mike Staton

Send Results To: Mike Staton - mstaton@landau.com

North Seattle (206) 631-8660
Tacoma (253) 926-2493
Olympia (360) 791-3178

Spokane (509) 327-9737
Portland (503) 542-1080

Turnaround Time: Standard
Accelerated

Date: 8-1-23 Page 1 of 1

Sample ID	Date	Time	Matrix	No. of Containers	Testing Parameters	Observations/Comments	Received by	Relinquished by
MW-7-0723	8-1-23	9:29	water	6				
MW-9-0723	8-1-23	10:33	water	6				
MW-12-0723	8-1-23	13:12	water	6				
MW-13-0723	8-1-23	14:06	water	6				
MW-16-0723	8-1-23	14:09	water	6				
MW-17A-0723	8-1-23	14:21	water	6				
MW-18-0723	8-1-23	15:57	water	6				
MW-22-0723	8-1-23	13:30	water	6				
Exp. Small Black-0723	8-1-23	15:15	water	3				
Tri. blank			water	1				

Special Handling Requirements: _____

Shipment Method: _____

Stored on ice: Yes / No

Allow water samples to settle, collect aliquot from clear portion ☐

NWPH-DX - Acid wash cleanup ☐

Silica gel cleanup ☐

Dissolved metal samples were field filtered

Other: _____

Received by: _____

Relinquished by: _____

Signature: _____

Printed Name: _____

Company: _____

Date: _____

Time: _____

WHITE COPY - Laboratory

YELLOW COPY - Project File

PINK COPY - Client Representative

10/2016

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Landau Associates (Northgate)

155 NE 100th St #302
Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

A3H0772

Turnaround Time: Standard
Accelerated

Date: 8-2-23
Page: 1 of 1

Chain-of-Custody Record

Project Name: Sea-Tac Development Project No.: 2218001.010-011

Project Location/Event: Sea-Tac, WA

Sampler's Name: Spencer Lo

Project Contact: Mike Staton

Send Results To: Mike Staton - mstaton@landauinc.com

Testing Parameters

Special Handling Requirements: _____

Shipment Method: _____

Stored on ice: Yes / No _____

Observations/Comments: _____

Allow water samples to settle, collect aliquot from clear portion ☐ _____

NWTPH-Dx - Acid wash cleanup ☐ _____

- Silica gel cleanup ☐ _____

Dissolved metal samples were field filtered _____

Other _____

Sample ID	Date	Time	Matrix	No. of Containers
MW-7-0723	8-1-23	929	water	6
MW-8-0723	8-1-23	1023	water	6
MW-12-0723	7-31-23	1312	water	6
MW-13-0723	8-1-23	1006	water	6
MW-16-0723	7-31-23	1409	water	6
MW-17A-0723	8-1-23	821	water	6
MW-18-0723	8-1-23	857	water	6
MW-22-0723	7-31-23	1330	water	6
Equipment Blank-0723		845	water	3
Trip Blank			water	1

Relinquished by

Signature: [Signature]

Printed Name: Spencer Lo

Company: LA

Date: 8-2-23 Time: 1600

Received by

Signature: [Signature]

Printed Name: Kelvin

Company: LA

Date: 8/13/23 Time: 1050

Relinquished by

Signature: _____

Printed Name: _____

Company: _____

Date: _____ Time: _____

Received by

Signature: _____

Printed Name: _____

Company: _____

Date: _____ Time: _____

WHITE COPY - Laboratory

YELLOW COPY - Project File

PINK COPY - Client Representative



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Landau Associates (Northgate)

155 NE 100th St #302

Seattle, WA 98125

Project: Sea-Tac Development Site

Project Number: 2218001.010.011

Project Manager: Mike Staton

Report ID:

A3H0772 - 08 10 23 1724

APEX LABS COOLER RECEIPT FORM

Client: Landau Element WO#: A3H6772Project/Project #: Sea-Tac, WA / 2218001-010-011

Delivery Info:

Date/time received: 8/3/23 @ 1050 By: WMODelivered by: Apex Client ESS FedEx ☒ UPS Radio Morgan SDS Evergreen OtherCooler Inspection Date/time inspected: 8/3/23 @ 1050 By: WMOChain of Custody included? Yes ☒ NoSigned/dated by client? Yes ☒ No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.3</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) N Possible reason why:Green dots applied to out of temperature samples? Yes ☒ NoOut of temperature samples form initiated? Yes ☒ NoSample Inspection: Date/time inspected: 8/3/23 @ 16:54 By: SKAMAll samples intact? Yes ☒ No Comments:Bottle labels/COCs agree? Yes ☒ No Comments:COC/container discrepancies form initiated? Yes No ☒Containers/volumes received appropriate for analysis? Yes ☒ No Comments:Do VOA vials have visible headspace? Yes No ☒ NA

Comments:

Water samples: pH checked: Yes No NA ☒ pH appropriate? Yes No NA ☒

Comments:

Additional information: 4819 8422 3511 TB# 3350

Labeled by:

SKAM

Witness:

AAW

Cooler Inspected by:

SKAM

Form Y-003 R-00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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