








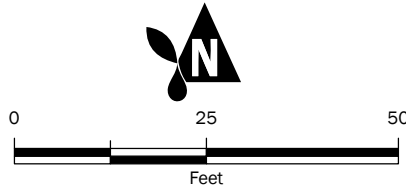


-  Soil Vapor Sample
-  Monitoring Well
-  Soil Boring
-  Historical Soil Boring
-  Historical Monitoring Well

-  Aloha Cafe Building
-  Aloha Cafe Property Boundary
-  Former or Closed-in-place UST or AST
-  Tax Parcel



Site Plan

Remedial Investigation - Texaco Strickland Site
 6808 196th Street SW
 Lynnwood, Washington

	JAN-2020	BY: WVG / TDR	FIGURE NO. 1
	PROJECT NO. 180357	REVISED BY: WEG	

Table 1 - Groundwater Elevation Data

DRAFT

Project No. 180357, Lynwood, Washington

	TOC Elevation	Date	DTNAPL	DTW	Water Table (ft BTOC) ¹	Groundwater Elevation
MW-1	451.74	7/31/2019	--	12.86	12.86	438.88
		11/19/2019	--	13.81	13.81	437.93
MW-2	450.59	7/31/2019	--	11.51	11.51	439.08
		11/19/2019	--	11.76	11.76	438.83
MW-3	451.69	7/31/2019	10.45	10.75	10.52	441.17
		11/19/2019	11.62	12.00	11.71	439.98
MW-4	452.01	7/31/2019	11.22	11.33	11.25	440.76
		11/19/2019	12.36	12.67	12.43	439.58
MW-5	451.38	7/31/2019	9.87	10.69	10.07	441.31
		11/19/2019	11.37	11.73	11.46	439.92
MW-6	449.4	7/31/2019	--	9.01	9.01	440.39
		11/19/2019	--	9.10	9.10	440.30
MW-7	450.14	7/31/2019	--	8.29	8.29	441.85
		11/19/2019	--	9.12	9.12	441.02
MW-8	451.31	7/31/2019	9.41	9.92	9.53	441.78
		11/19/2019	10.66	11.07	10.76	440.55
MW-9	451.75	7/31/2019	--	11.9	11.90	439.85
		11/19/2019	--	13.25	13.25	438.50
MW-10	451.34	7/31/2019	--	13.53	13.53	437.81
		11/20/2019	--	13.99	13.99	437.35
MW-11	450.81	7/31/2019	--	9.81	9.81	441.00
		11/19/2019	--	10.83	10.83	439.98
MW-12	449.42	7/31/2019	--	10.93	10.93	438.49
		11/19/2019	--	10.87	10.87	438.55
MW-13	450.57	7/31/2019	--	13.67	13.67	436.90
		11/19/2019	--	13.83	13.83	436.74
MW-14	450.85	7/31/2019	--	14.64	14.64	436.21
		11/19/2019	--	14.73	14.73	436.12
MW-15	451.16	7/31/2019	12.40	12.42	12.40	438.76
		11/19/2019	13.97	14.15	14.01	437.15
MW-16	450.6	7/31/2019	--	9.15	9.15	441.45
		11/19/2019	--	10.58	10.58	440.02
MW-17	450.18	7/31/2019	--	8.47	8.47	441.71
		11/19/2019	--	9.7	9.70	440.48
MW-18	449.28	7/31/2019	--	12.08	12.08	437.20
		11/19/2019	--	12.96	12.96	436.32
MW-19	446.02	7/31/2019	--	11.54	11.54	434.48
		11/19/2019	--	10.31	10.31	435.71

Notes

TOC = Top of Casing elevation in ft above mean sea level (NAVD88); NAPL = Non-aqueous phase liquid

DTNAPL = Depth to NAPL below TOC (ft); DTW = Depth to water below TOC (ft); btoc = below TOC

¹ - In wells where NAPL is present, the depth to water table was calculated as

$$\text{Water Table} = \text{DTW} + 0.76 * (\text{DTNAPL} - \text{DTW})$$

Table 2 - Soil Analytical Results

Project No. 180357, Lynwood, Washington

DRAFT

Analyte	Unit	MTCA Method A Cleanup Level	Location	B-05	B-06	B-07		B-08	GP-04	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19						
			Date	06/10/2019	06/11/2019	06/12/2019	06/12/2019	07/16/2019	06/05/2019	06/10/2019	06/10/2019	06/10/2019	06/11/2019	06/11/2019	06/10/2019	06/12/2019	06/12/2019	06/14/2019	07/15/2019	07/16/2019				
			Sample Depth	B-05-16	B-06-13	B-07-8	B-07-12.5	B-08-13.5	GP-04-2	MW-11-1	MW-11-6	MW-11-13	MW-12-15	MW-13-12.5	MW-14-12.5	MW-15-7.5	MW-15-10.5	MW-15-13	MW-15-17.5	MW-15-25	MW-16-7.5	MW-17-8.5	MW-18-10	MW-19-8.5
			16 ft	13 ft	8 ft	12.5 ft	13.5 ft	2 ft	1 ft	6 ft	13 ft	15 ft	12.5 ft	12.5 ft	7.5 ft	10.5 ft	13 ft	17.5 ft	25 ft	7.5 ft	8.5 ft	10 ft	8.5 ft	
TPHs																								
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	87 J	< 5 U	< 5 U	< 5 U	280	2600	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	6500 J	3400	200	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	--	240 X	--	< 50 U	< 50 U	< 50 U	< 50 U	1500 X	990 X	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	--	< 250 U	--	< 250 U	< 250 U	< 250 U	< 250 U	590	370	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	--	240 X	--	< 250 U	< 250 U	< 250 U	< 250 U	2090 X	1360 X	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
BTEX																								
Benzene	mg/kg	0.03	< 0.02 U	< 0.02 U	--	--	< 0.02 U	< 0.03 U	< 0.2 U	0.63	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	--	--	0.7 J	0.22	0.026	--	--	< 0.02 U	< 0.02 U	
Toluene	mg/kg	7	< 0.02 U	< 0.02 U	--	--	< 0.02 U	< 0.05 U	0.99	4.1	0.031	< 0.02 U	< 0.02 U	< 0.02 U	--	--	4.7 J	0.096	< 0.005 U	--	--	< 0.02 U	< 0.02 U	
Ethylbenzene	mg/kg	6	< 0.02 U	< 0.02 U	--	--	< 0.02 U	< 0.05 U	2	38	0.025	< 0.02 U	< 0.02 U	< 0.02 U	--	--	10 J	0.19	< 0.005 U	--	--	< 0.02 U	< 0.02 U	
Total Xylenes	mg/kg	9	< 0.06 U	< 0.06 U	--	--	< 0.06 U	< 0.1 U	11	140	0.12	< 0.06 U	< 0.06 U	< 0.06 U	--	--	64 J	1.19	< 0.01 U	--	--	< 0.06 U	< 0.06 U	
PAHs																								
Naphthalene	mg/kg	5	--	--	< 0.005 UJ	< 0.005 UJ	--	< 0.05 U	1.5	7.4	--	--	--	--	< 0.005 UJ	6.3 J	4.9	--	--	--	--	--	--	--
Metals																								
Lead	mg/kg	250	--	--	1.44	--	--	--	--	8.76	--	--	--	--	--	1.88	1.93	--	--	--	--	--	--	--
VOCs																								
1,1,1,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	< 0.05 U	< 0.05 U
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	< 0.05 U	< 0.05 U
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	< 0.05 U	< 0.05 U
1,1-Dichloropropene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	< 0.25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	< 0.005 U	< 0.005 U	--	< 0.05 U	< 0.005 U	< 0.005 U	--	--	--	--	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg	--	--	--	< 0.005 U	< 0.005 U	< 0.05 U	< 0.05 U	< 0.005 U	< 0.005 U	--	< 0.05 U	< 0.05 U	< 0.05 U	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	--	< 0.05 U	< 0.05 U	
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	mg/kg	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	mg/kg	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	< 0.5 U	< 0.5 U	--	--	--	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	--	--	--	--	--	< 0.5 U	< 0.5 U
Chloroform	mg/kg	--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	mg/kg	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg	--	--	--	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	--	< 0.05 U	< 0.05 U

Table 2 - Soil Analytical Results

Project No. 180357, Lynwood, Washington

DRAFT

Analyte	Unit	MTCA Method A Cleanup Level	Location	B-05	B-06	B-07		B-08	GP-04	MW-11			MW-12	MW-13	MW-14	MW-15			MW-16	MW-17	MW-18	MW-19		
			Date	06/10/2019	06/11/2019	06/12/2019	06/12/2019	07/16/2019	06/05/2019	06/10/2019	06/10/2019	06/10/2019	06/10/2019	06/11/2019	06/11/2019	06/12/2019	06/12/2019	06/12/2019	06/12/2019	06/14/2019	06/14/2019	07/15/2019	07/16/2019	
Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth	Sample Depth		
VOCs (continued)																								
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--		
Dibromochloromethane	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--		
Dibromomethane	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--		
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--		
Isopropylbenzene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--		
m,p-Xylenes	mg/kg		--	--	--	--	--	--	< 0.1 U	--	--	--	--	--	--	--	46 J	0.88	< 0.01 U	--	--	--		
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	< 0.005 U	< 0.005 U	--	--	< 0.05 U	< 0.005 U	< 0.005 U	--	--	--	--	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--	--		
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	< 0.5 U	< 0.5 U	--	--	--	< 0.5 U	< 0.5 U	< 0.5 U	--	--	--	--	--	--	< 0.5 U	< 0.5 U	
n-Hexane	mg/kg		--	--	--	--	--	--	< 0.25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Propylbenzene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
o-Xylene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
sec-Butylbenzene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Styrene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
tert-Butylbenzene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	< 0.025 U	< 0.025 U	--	--	--	< 0.025 U	< 0.025 U	< 0.025 U	--	--	--	--	--	--	--	< 0.025 U	< 0.025 U
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	< 0.05 U	< 0.05 U
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--	< 0.05 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	< 0.02 U	< 0.02 U	--	--	--	< 0.02 U	< 0.02 U	< 0.02 U	--	--	--	--	--	--	--	< 0.02 U	< 0.02 U
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--	< 0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	< 0.05 U	< 0.05 U	--	--	--	< 0.05 U	< 0.05 U	< 0.05 U	--	--	--	--	--	--	--	< 0.05 U	< 0.05 U

Notes

All results are pending validation and subject to change

Bold = detected

Blue = exceeded

U = nondetect

J = estimated

UJ = nondetect, estimated

X = chromatographic pattern did not match fuel standard

Table 3 - Groundwater Analytical Data

Project No. 180357, Lynwood, Washington

DRAFT

Analyte	Unit	Location Date Sample	MW-1		MW-2		MW-6		MW-7		MW-9	
			08/01/2019 MW-1-080119	11/20/2019 MW-1-112019	08/01/2019 MW-2-080119	11/20/2019 MW-2-112019	07/31/2019 MW-6-073119	11/20/2019 MW-6-112019	07/31/2019 MW-7-073119	11/19/2019 MW-7-111919	08/01/2019 MW-9-080119	11/20/2019 MW-9-112019
		MTCA Method A Cleanup Level										
TPHs												
Gasoline Range Organics	ug/L	800	24000	44000	1600	4600	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	560
Diesel Range Organics	ug/L	500	2100 X	3200 X	790 X	2200 X	68 X	< 50 U	83 X	< 50 U	88 X	290 X
Motor Oil Range Organics	ug/L	500	1000 X	570 X	< 250 U	260 X	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	ug/L	500	3100 X	3770 X	790 X	2460 X	68 X	< 250 U	83 X	< 250 U	88 X	290 X
BTEX												
Benzene	ug/L	5	4200	6700	13	30	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	6.4
Toluene	ug/L	1000	410	1500	2.2	6.5	< 1 U	< 1 U	< 1 U	2.7	< 1 U	< 1 U
Ethylbenzene	ug/L	700	520	860	6.5	28	< 1 U	< 1 U	< 1 U	1.6	< 1 U	6.6
Total Xylenes	ug/L	1000	1650	3680	7.4	23.9	< 2 U	< 2 U	< 2 U	8.8	< 2 U	3.3
PAHs												
Naphthalene	ug/L	160	130	210	33	150	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Metals												
Lead	ug/L	15	< 1 UJ	< 1 U	< 1 UJ	< 1 U	< 1 UJ	< 1 U	< 1 UJ	< 1 U	< 1 UJ	< 1 U
VOCs												
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L		--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	< 1 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane (EDC)	ug/L	5	< 1 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L		--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L		--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L		1300	2800	5.6	19	< 2 U	< 2 U	< 2 U	7.1	< 2 U	< 2 U
Methyl tert-butyl ether (MTBE)	ug/L	20	< 1 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Methylene Chloride	ug/L	5	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L		350	880	1.8	4.9	< 1 U	< 1 U	< 1 U	1.7	< 1 U	3.3
Tetrachloroethene (PCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	0.2	--	--	--	--	--	--	--	--	--	--

Notes
Bold = detected
Blue = exceeded
 U = nondetect
 J = estimated
 UJ = nondetect, estimated
 X = chromatographic pattern did not match fuel standard

Table 3 - Groundwater Analytical Data

Project No. 180357, Lynwood, Washington

DRAFT

Location Date Sample			MW-10		MW-11		MW-12		MW-13		MW-14	
			08/01/2019 MW-10-080119	11/20/2019 MW-10-112019	07/31/2019 MW-11-073119	11/19/2019 MW-11-111919	08/01/2019 MW-12-080119	11/20/2019 MW-12-112019	07/31/2019 MW-13-073119	11/20/2019 MW-13-112019	07/31/2019 MW-14-073119	11/20/2019 MW-14-112019
Analyte	Unit	MTCA Method A Cleanup Level										
TPHs												
Gasoline Range Organics	ug/L	800	19000	21000	13000	20000	240	540	1400	1800	7500	11000
Diesel Range Organics	ug/L	500	1900 X	3900 X	1100 X	2400 X	310 X	370 X	530 X	780 X	1200 X	1600 X
Motor Oil Range Organics	ug/L	500	260 X	340 X	< 250 U	310 X	< 250 U	< 250 U	< 250 U	< 250 U	330 X	300 X
Diesel and Oil Extended Range Organics	ug/L	500	2160 X	4240 X	1100 X	2710 X	310 X	370 X	530 X	780 X	1530 X	1900 X
BTEX												
Benzene	ug/L	5	2400	2800	320	270	0.59	1.1	7.5	4	2400	2700
Toluene	ug/L	1000	44	< 100 U	1800	1500	< 1 U	< 1 U	< 1 U	< 1 U	32	< 100 U
Ethylbenzene	ug/L	700	670	1000	410	690	< 1 U	< 1 U	< 1 U	< 1 U	130	< 100 U
Total Xylenes	ug/L	1000	1103	1500	1400	2580	< 2 U	< 2 U	< 2 U	< 2 U	90	< 200 U
PAHs												
Naphthalene	ug/L	160	160	270	42	130	< 1 U	< 1 U	< 1 U	< 1 U	50	< 100 U
Metals												
Lead	ug/L	15	< 1 UJ	< 1 U	3.49 J	1.85	< 1 UJ	< 1 U	< 1 UJ	< 1 U	< 1 UJ	< 1 U
VOCs												
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
1,1-Dichloroethane	ug/L	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
1,1-Dichloroethene	ug/L	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
1,2-Dibromoethane (EDB)	ug/L	0.01	< 1 U	< 100 U	< 1 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 100 U
1,2-Dichloroethane (EDC)	ug/L	5	< 1 U	< 100 U	< 1 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 100 U
Chloroethane	ug/L	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
cis-1,2-Dichloroethene (cDCE)	ug/L	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
m,p-Xylenes	ug/L	--	1100	1500	1000	2100	< 2 U	< 2 U	< 2 U	< 2 U	72	< 200 U
Methyl tert-butyl ether (MTBE)	ug/L	20	< 1 U	< 100 U	< 1 U	< 100 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 100 U
Methylene Chloride	ug/L	5	--	--	--	--	--	--	< 5 U	< 5 U	< 5 U	< 500 U
o-Xylene	ug/L	--	2.7	< 100 U	400	480	< 1 U	< 1 U	< 1 U	< 1 U	18	< 100 U
Tetrachloroethene (PCE)	ug/L	5	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
trans-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
Trichloroethene (TCE)	ug/L	5	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 100 U
Vinyl Chloride	ug/L	0.2	--	--	--	--	--	--	< 0.2 U	< 0.2 U	2.7	< 20 U

Notes
Bold = detected
Blue = exceeded
 U = nondetect
 J = estimated
 UJ = nondetect, estimated
 X = chromatographic pattern did not match fuel standard

Table 3 - Groundwater Analytical Data

Project No. 180357, Lynwood, Washington

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			MW-16		MW-17		MW-18		MW-19	
			07/31/2019	11/19/2019	07/31/2019	11/19/2019	07/31/2019	11/19/2019	07/31/2019	11/20/2019
Location	Date	Sample	MW-16-073119	MW-16-111919	MW-17-073119	MW-17-111919	MW-18-073119	MW-18-111919	MW-19-073119	MW-19-112019
Analyte	Unit	MTCA Method A Cleanup Level								
TPHs										
Gasoline Range Organics	ug/L	800	< 100 U	< 100 U	1800	1100	< 100 U	1300	< 100 U	< 100 U
Diesel Range Organics	ug/L	500	84 X	< 50 U	320 X	560 X	55 X	260 X	< 50 U	< 50 U
Motor Oil Range Organics	ug/L	500	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	ug/L	500	84 X	< 250 U	320 X	560 X	55 X	260 X	< 250 U	< 250 U
BTEX										
Benzene	ug/L	5	< 0.35 U	< 0.35 U	< 0.35 U	4.2	1	240	< 0.35 U	< 0.35 U
Toluene	ug/L	1000	< 1 U	< 1 U	< 1 U	2.8	< 1 U	8.2	< 1 U	< 1 U
Ethylbenzene	ug/L	700	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	14	< 1 U	< 1 U
Total Xylenes	ug/L	1000	< 2 U	< 2 U	< 2 U	6.3	< 2 U	65	< 2 U	< 2 U
PAHs										
Naphthalene	ug/L	160	< 1 U	< 1 U	< 1 U	1.6	< 1 U	5.2	< 1 U	< 1 U
Metals										
Lead	ug/L	15	< 1 UJ	1.02	< 1 UJ	< 1 U	< 1 UJ	< 1 U	< 1 UJ	< 1 U
VOCs										
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethane	ug/L		--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	ug/L		--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dibromoethane (EDB)	ug/L	0.01	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane (EDC)	ug/L	5	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L		--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene (cDCE)	ug/L		--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
m,p-Xylenes	ug/L		< 2 U	< 2 U	< 2 U	4.2	< 2 U	48	< 2 U	< 2 U
Methyl tert-butyl ether (MTBE)	ug/L	20	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Methylene Chloride	ug/L	5	--	--	--	--	< 5 U	< 5 U	< 5 U	< 5 U
o-Xylene	ug/L		< 1 U	< 1 U	< 1 U	2.1	< 1 U	17	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/L	5	--	--	--	--	< 1 U	< 1 U	17	12
trans-1,2-Dichloroethene	ug/L		--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene (TCE)	ug/L	5	--	--	--	--	< 1 U	< 1 U	1	< 1 U
Vinyl Chloride	ug/L	0.2	--	--	--	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

Notes
Bold = detected
Blue = exceeded
 U = nondetect
 J = estimated
 UJ = nondetect, estimated
 X = chromatographic pattern did not match fuel standard

Table 4 - Soil Gas Analytical Results

Project No. 180357, Lynwood, Washington

DRAFT

					Location Date	GP-01 07/25/2019	GP-02 07/25/2019	GP-03 07/25/2019	GP-04 07/25/2019	SVS-01 07/25/2019	SVS-02 07/25/2019
					Sample	GP-01-072519	GP-02-072519	GP-03-072519	GP-04-072519	SVS-01-072519	SVS-02-072519
Analyte	Unit	Risk Driver	MTCA Method B Subslab Screening Level (Unrestricted) ¹	MTCA Method B Subslab Screening Level (Commercial) ²							
BTEX											
Benzene	ug/m3	C	11	37	3.8	1.5	3.9	1.2	2.2	3.3	
Toluene	ug/m3	NC	76,000	560,000	28	12	17	11	9.3	13	
Ethylbenzene	ug/m3	NC	15,000	110,000	6	3.4	4.9	3.4	2.6	2.9	
Total Xylenes	ug/m3	NC	1,500	11,000	32.9	18.3	27.1	18.7	14.4	14.2	
PAHs											
Naphthalene	ug/m3	C	2.5	8.4	< 0.84 U	< 0.81 U	< 2 U	< 0.84 U	< 0.81 U	< 0.81 U	
VOCs											
1,2-Dibromoethane (EDB)	ug/m3	NC	0.14	0.47	< 0.25 U	< 0.24 U	< 0.58 U	< 0.25 U	< 0.24 U	< 0.24 U	
1,2-Dichloroethane (EDC)	ug/m3	NC	3.2	10.7	< 0.13 U	< 0.13 U	< 0.3 U	< 0.13 U	< 0.13 U	< 0.13 U	
Methyl tert-butyl ether (MTBE)	ug/m3	NC	320	1,070	< 5.8 U	< 5.6 U	< 14 U	< 5.8 U	< 5.6 U	< 5.6 U	
APH											
C5 - C8 Aliphatic Hydrocarbons	ug/m3	--	--	--	410	350	8,700	510	1,000	1,700	
C9 - C12 Aliphatic Hydrocarbons	ug/m3	--	--	--	2,200	2,600	9,600	1,800	1,300	1,100	
C9 - C10 Aromatic Hydrocarbons	ug/m3	--	--	--	< 80 U	< 77 U	< 190 U	100	78	100	
Total Petroleum Hydrocarbons (ND = 1/2 RL) ³	ug/m3	NC	4,700	35,000	2,721	3,024	18,449	2,445	2,407	2,934	

Notes

- (1) Model Toxic Control Act (MTCA) Method B Subslab Soil Gas Screening Levels (SLs).
- (2) Commercial screening levels calculated by adjusting exposure frequency for both noncarcinogens and carcinogens to 0.30, and average body weight and breathing rate for noncarcinogens to 70 kg and 20 m³/day, respectively. These adjustments are in accordance with MTCA Equations 750-1 and 750-2 and Ecology's Implementation Memorandum No. 21 (FAQs Regarding VI and Ecology's 2009 Draft VI Guidance).
- (3) Total petroleum hydrocarbon concentration is the sum total of VOCs and APHs, one-half of the laboratory detection limit was used for non-detects
- (4) Generic sub-slab TPH screening level based on generic TPH indoor air cleanup level of 140 ug/m3 and an attenuation factor of 0.03 (Ecology Implementation Memo #18.)

Bold - Analyte Detected

Blue Shaded - Detected result exceeded unrestricted use MTCA Method B Subslab Screening Level

Red - Detected result exceeded commercial use MTCA Method B Subslab Screening Level

BTEX = benzene, toluene, ethylbenzene, and total xylenes

PAHs = polycyclic aromatic hydrocarbons

VOCs = volatile organic compounds

APH = air petroleum hydrocarbon

ug/m³ = micrograms per cubic meter

-- = not applicable

U = analyte was not detected at or above the reported result.

C = Carcinogenic; NC = Non carcinogenic

Table 5 - LNAPL Gauging Data

DRAFT

Project No. 180357, Lynwood, Washington

Well	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)
MW-3	6/5/2019	9.10	9.15	0.05
	7/31/2019	10.45	10.75	0.30
	8/5/2019	10.56	10.87	0.31
	8/12/2019	10.73	11.02	0.29
	8/20/2019	10.99	11.24	0.25
	8/28/2019	11.15	11.47	0.32
	9/4/2019	11.23	11.61	0.38
	9/13/2019	11.44	11.83	0.39
	9/18/2019	11.46	11.84	0.38
	9/27/2019	11.43	11.78	0.35
10/1/2019	11.4	11.72	0.32	
MW-4	6/5/2019	9.63	9.75	0.12
	7/31/2019	11.22	11.33	0.11
	8/5/2019	11.35	11.46	0.11
	8/12/2019	11.52	11.62	0.1
	8/20/2019	11.76	11.9	0.14
	8/28/2019	11.86	12.01	0.15
	9/4/2019	12.05	12.25	0.2
	9/13/2019	12.25	12.57	0.32
	9/18/2019	12.22	12.54	0.32
	9/27/2019	12.22	12.50	0.28
10/1/2019	12.20	12.43	0.23	
MW-5	6/5/2019	9.63	9.75	0.12
	7/31/2019	11.22	11.33	0.11
	8/5/2019	11.35	11.46	0.11
	8/12/2019	11.52	11.62	0.1
	8/20/2019	11.76	11.9	0.14
	8/28/2019	11.86	12.01	0.15
	9/4/2019	12.05	12.25	0.2
	9/13/2019	12.25	12.57	0.32
	9/18/2019	12.22	12.54	0.32
	9/27/2019	12.22	12.50	0.28
10/1/2019	11.10	11.40	0.30	

Table 5 - LNAPL Gauging Data

DRAFT

Project No. 180357, Lynwood, Washington

Well	Date	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)
MW-8	6/5/2019	--	8.49	--
	7/31/2019	9.41	9.92	0.51
	8/5/2019	9.47	10.08	0.61
	8/12/2019	9.63	10.24	0.61
	8/20/2019	9.86	10.03	0.17
	8/28/2019	10.03	10.44	0.41
	9/4/2019	10.21	10.8	0.59
	9/13/2019	10.4	10.68	0.28
	9/18/2019	10.41	10.69	0.28
	9/27/2019	10.41	10.7	0.29
	10/1/2019	10.39	10.66	0.27
MW-15	6/5/2019 ^(a)	--	--	--
	7/31/2019	12.40	12.42	0.02
	8/5/2019	12.62	12.65	0.03
	8/12/2019	12.64	12.77	0.13
	8/20/2019	13.29	13.49	0.20
	8/28/2019	13.80	14.02	0.22
	9/4/2019	14.15	14.44	0.29
	9/13/2019	14.34	14.70	0.36
	9/18/2019	14.26	14.51	0.25
	9/27/2019	14.01	14.16	0.15
	10/1/2019	13.85	13.96	0.11

Notes:

LNAPL - light non-aqueous phase liquids

Indicates LNAPL was bailed from the well after gauging

(a) Monitoring well had not been installed as of this date