DRAFT

TABLE 1
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYTICAL DATA[1]
PETROLEUM HYDROCARBONS
I-84 DIESEL SPILL - LINDSEY LAKE OERS 2019-0334
I-84, MP 54 NEAR CASCADE LOCKS, OREGON

Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Diesel-range Hydrocarbons	Oil-range Hydrocarbons
			Northwest Method TPH-Dx (mg/kg)	
Interceptor Trench	2/18/19	--	**279** F-15	**227** F-03, F-16
Interceptor Trench East	2/18/19	--	**53.7** F-13, F-15	**815** F-03, F-16
	2/18/19	--	<26.4	**447**
Interceptor Trench West	2/18/19	--	**3710** F-15	**191** F-03, F-16
11, 180, 2	2/20/19	2	**1310** F-15	**822** F-16
11, 240, 2	2/20/19	2	**1450** F-15	**353** F-16
T0@1	2/21/19	1	**201**	<50.0
T1@2	2/21/19	2	<105	**643**
T2@2	2/21/19	2	<105	**683**
T3@2	2/21/19	2	<104	**412**
T4@2	2/21/19	2	<25.0	**255**
T5@2	2/21/19	2	<106	**367**
T6@2	2/21/19	2	<25.0	**236**
T7@3	2/21/19	3	<109	**429**
T8@3	2/21/19	3	<108	**478**
T9@3	2/21/19	3	<102	**357**
T10@1	2/21/19	1	**628** F-15	**1300** F-16
	2/21/19	1	**693** F-15	**930** F-16
T11@3	2/21/19	3	<25.0	**405**
T12@3	2/21/19	3	**85.3**	<50.0
T13@4	2/22/19	4	<25.0	<50.0
T14@3.5	2/22/19	3.5	<25.0	<50.0
35, 90, 20	2/22/19	20	<25.0	<50.0
35, 110, 20	2/22/19	20	<25.0	<50.0
45, 150, 20-1448	2/22/19	20	<25.0	<50.0
50, 80, 20	2/22/19	20	<25.0	<50.0
45, 150, 20-1457	2/22/19	20	<26.7	<53.5
40, 220, 20	2/22/19	20	<25.0	<50.0
45, 130, 20	2/22/19	20	<25.0	<50.0
35, 60, 10	2/22/19	10	**26.2** F-15	**103** F-16
45, 60, 15	2/22/19	15	**26.7** F-15	**157** F-16
21, 58, 4	2/22/19	4	<207	**477**
40, 200, 20	2/22/19	20	<25.0	<50.0
40, 240, 20	2/22/19	20	**43.7**	<50.0
40, 180, 20	2/22/19	20	<25.0	<50.0
45, 60, 15x	2/22/19	15	**31.5** F-15	**105** F-16
21, 58, 4x	2/22/19	4	<208	**459**
Trip Blank	2/21/19	--	--	--
35, 170, 20	2/28/19	20	**37.9**	<50.0
20, 130, 10	2/28/19	10	**81**	<50.0
35, 170, 20X	2/28/19	20	**34**	<50.0
11, 150, 1	2/28/19	1	**105 F-15**	**329 F-16**

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Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Diesel-range Hydrocarbons	Oil-range Hydrocarbons
			Northwest Method TPH-Dx (mg/kg)	
55, 170, 20	2/28/19	20	<25.0	<50.0
11, 130, 2	2/28/19	2	<25.0	<50.0
15, 150, 10	2/28/19	10	<25.0	<50.0
30, 130, 20	2/28/19	20	<25.0	<50.0
45, 130, 20	2/28/19	20	<25.0	<50.0
55, 150, 20	2/28/19	20	<25.0	<50.0
11, 170, 2	2/28/19	2	**178 F-15**	**780 F-16**
35, 150, 20	2/28/19	20	<25.0	<50.0
20, 170, 10	2/28/19	10	**38.2**	<50.1
15,210,10x	2/28/19	10	**113**	<50.0
11,230,1	2/28/19	1	**117**	**250**
15,210,10	2/28/19	10	**61.3**	<50.0
15,230,10	2/28/19	10	<25.0	<50.0
30,230,20	2/28/19	20	<25.0	<50.0
30,210,20	2/28/19	20	<25.0	<50.0
50,210,20	2/28/19	20	<25.0	<50.0
15,190,10	2/28/19	10	**28.8**	<50.0
45,190,20	2/28/19	20	<26.9	<53.9
11,210,1	2/28/19	1	**304 F-15**	**96.9 F-16**
11-190-1	2/28/19	1	<25.0	**118**
30-190-20	2/28/19	20	**111**	<50.0
11-90-2	3/1/19	2	<25.0	**69.3**
11-70-1	3/1/19	1	**52.2 F-15**	**214 F-16**
18-70-5	3/1/19	5	<25.0	<50.0
11-110-2	3/1/19	2	<25.0	**178**
230-50-22	3/1/19	22	<25.3	<50.6
50-230-25	3/1/19	25	<26.1	<52.3
53-210-22	3/1/19	22	<25.0	<50.0
53-210-25	3/1/19	25	<25.0	<50.0
53-200-22	3/1/19	22	<26.6	<53.1
53-200-22X	3/1/19	22	<25.5	<51.0
18-110-12	3/1/19	12	**165 F-13, F-15**	**1290 F-16**
11, 250, 2	3/2/19	2	**1020 F-15**	**514 F-16, Q-42**
11, 270, 1	3/2/19	1	<25.0	**68.3**
15, 150, 5	3/2/19	5	**44.1**	<50.0
30, 180, 20	3/2/19	20	**40.5**	<50.0
11, 290, 1	3/2/19	1	<25.0	**66.3**
15, 270, 10	3/2/19	10	<25.0	<50.0
20, 270, 20	3/2/19	20	<25.0	<50.0
40, 270, 20	3/2/19	20	**204**	<50.0
18, 290, 5	3/2/19	5	<25.0	<50.0
25, 290, 20	3/2/19	20	<25.0	<50.0
25, 290, 20X	3/2/19	20	<25.0	<50.0
40, 290, 20	3/2/19	20	**35**	<52.0
40, 310, 20	3/2/19	20	**566**	<50.0
20, 310, 20	3/2/19	20	<25.4	<50.7
15, 310, 10	3/2/19	10	<25.0	<50.0
11, 310, 2	3/2/19	2	**2930**	<199

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Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Diesel-range Hydrocarbons	Oil-range Hydrocarbons
			Northwest Method TPH-Dx (mg/kg)	
45,330,20	3/4/19	20	**37.4**	<50.0
25,330,20	3/4/19	20	**48.8**	<50.0
15,330,15	3/4/19	15	**520**	<50.0
11,330,1	3/4/19	1	**5020**	<399
15, 350, 10	3/4/19	10	**471 F-15**	**72.5 F-16**
11, 350, 1	3/4/19	1	**5490**	<394
20, 350, 20	3/4/19	20	**151**	<50.0
15, 370, 8	3/4/19	8	**204**	<50.0
11, 370, 1	3/4/19	1	**6760**	<825
30, 350, 20	3/4/19	20	<25.1	<50.2
20, 370, 15	3/4/19	15	**73.8**	<50.0
30, 370, 20	3/4/19	20	**1310**	<50.0
11, 390, 1	3/4/19	1	**6760**	<851
16, 390, 8	3/4/19	8	**38.4**	<50.0
36, 390, 15	3/4/19	15	**113**	<50.0
45, 390, 25	3/4/19	25	**57.2 F-15**	**146 F-16**
18, 410, 6	3/4/19	6	<25.0	**71.9**
40, 410, 25	3/4/19	25	<25.0	<50.0
15, 350, 10x	3/4/19	10	**433**	<50.0
30, 350, 20x	3/4/19	20	<25.0	<50.0
45-410-30	3/5/19	30	<25.0	<50.0
45-430-30	3/5/19	30	<25.0	<50.0
45-440-30	3/5/19	30	<25.0	<50.0
20-20-3	3/5/19	3	<25.0	**361**
13-0-1	3/5/19	1	**30.5 F-15**	**535 F-16**
13-0-8	3/5/19	8	**64.2 F-15**	**392 F-16**
13-(-20)-1	3/5/19	1	<108	**477**
30-(-20)-8	3/5/19	8	<25.0	**51.1**
40-(-20)-15	3/5/19	15	<25.0	**62.5**
20-(-40)-5	3/5/19	5	<108	**228**
35-(-40)-12	3/5/19	12	<104	**312**
40-(-20)-15X	3/5/19	15	<25.0	**90**

Notes:

[1]Chemical analytical analyses were performed by Apex Laboratory of Tigard, Oregon.

[2]Oregon Department of Environmental Quality. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

*This RBC 1) is not established; 2) exceeds the solubility limit; or 3) is greater than a concentration where free product would be present.

mg/kg = milligrams per kilogram

bgs = below ground surface

"<6.97" indicates the analyte was not detected above the reported detection limit.

"--" = not analyzed

">Max" = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.

F-03 qualifier = The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.

F-13 qualifier = The chromatographic pattern does not resemble the fuel standard used for quantitation

F-15 qualifier = Results for diesel are estimated due to overlap from the reported oil result.

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Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Diesel-range Hydrocarbons	Oil-range Hydrocarbons
			Northwest Method TPH-Dx (mg/kg)	

F-16 qualifier = Results for oil are estimated due to overlap from the reported diesel result.

Bold indicates analyte detection.

Shading indicates concentration exceeds one or more DEQ RBC.

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TABLE 2
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYTICAL DATA[1]
SELECT VOCs
I-84 DIESEL SPILL - LINDSEY LAKE OERS 2019-0334
I-84, MP 54 NEAR CASCADE LOCKS, OREGON

			BTEX Compounds (EPA Method 5035/8260B) (mg/kg)										
Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Benzene	1,2-Dibromoethane	1,2-Dichloroethane	Ethylbenzene	Isopropylbenzene	Methyl tert-butyl ether	Napthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes, Total
Interceptor Trench*	2/18/19	--	<0.0165	--	--	**0.0777**	--	--	--	<0.0826	--	--	**0.612**
Interceptor Trench East*	2/18/19	--	<0.0168	--	--	<0.0421	--	--	--	<0.0842	--	--	<0.126
Interceptor Trench West*	2/18/19	--	<0.0177	--	--	**0.197**	--	--	--	<0.0885	--	--	**1.70**
11, 180, 2	2/20/19	2	<0.0178	--	--	<0.0446	--	--	--	<0.0891	--	--	**0.163**
11, 240, 2	2/20/19	2	<0.0102	--	--	<0.0254	--	--	--	<0.0509	--	--	**0.0789**
Trip Blank	2/21/19	--	<0.200	--	--	<0.500	--	--	--	<1.00	--	--	<1.50
T0@1*	2/21/19	1	<0.00947	<0.0473	<0.0237	<0.0237	<0.0473	<0.0473	<0.0947	<0.0473	**0.0542**	<0.0473	<0.0710
T1@2	2/21/19	2	<0.0998	<0.0499	<0.0249	<0.0249	<0.0499	<0.0499	<0.0998	<0.0499	<0.0499	<0.0499	<0.0748
T2@2	2/21/19	2	<0.0100	<0.0500	<0.0250	<0.0250	<0.0500	<0.0500	<0.100	<0.0500	<0.0500	<0.0500	**0.0917**
T3@2*	2/21/19	2	<0.0110	<0.0551	<0.0276	<0.0276	<0.0551	<0.0551	<0.110	<0.0551	<0.0551	<0.0551	<0.0827
T4@2	2/21/19	2	<0.00928	<0.0464	<0.0232	<0.0232	<0.0464	<0.0464	<0.0928	<0.0464	<0.0464	<0.0464	<0.0696
T5@2	2/21/19	2	<0.0101	<0.0503	<0.0252	<0.0252	<0.0503	<0.0503	<0.101	<0.0503	<0.0503	<0.0503	<0.0755
T6@2	2/21/19	2	<0.0111	<0.0553	<0.0276	<0.0276	<0.0553	<0.0553	<0.111	<0.0553	<0.0553	<0.0553	<0.0829
T7@3	2/21/19	3	<0.0127	<0.0635	<0.0317	<0.0317	<0.0635	<0.0635	<0.127	<0.0635	<0.0635	<0.0635	<0.0952
T8@3	2/21/19	3	<0.0128	<0.0638	<0.0319	<0.0319	<0.0638	<0.0638	<0.128	<0.0638	<0.0638	<0.0638	<0.0957
T9@3	2/21/19	3	<0.0105	<0.0523	<0.0262	<0.0262	<0.0523	<0.0523	<0.105	<0.0523	<0.0523	<0.0523	<0.0785
T10@1	2/21/19	1	<0.0104	<0.0519	<0.0259	<0.0259	<0.0519	<0.0519	<0.104	<0.0519	**0.182**	<0.0519	**0.0979**
T11@3	2/21/19	3	<0.0110	<0.0551	<0.0276	<0.0276	<0.0551	<0.0551	<0.110	<0.0551	<0.0551	<0.0551	<0.0827
T12@3*	2/21/19	3	<0.0133	<0.0667	<0.0333	<0.0333	<0.0667	<0.0667	<0.133	<0.0667	<0.0667	<0.0667	<0.100
T13@4	2/22/19	4	<0.0107	<0.0533	<0.0267	<0.0267	<0.0533	<0.0533	<0.107	<0.0533	<0.0533	<0.0533	<0.0800
T14@3.5	2/22/19	3.5	<0.0108	<0.0538	<0.0269	<0.0269	<0.0538	<0.0538	<0.108	<0.0538	<0.0538	<0.0538	<0.0807
35, 90, 20	2/22/19	20	<0.0197	<0.0983	<0.0492	<0.0492	<0.0983	<0.0983	<0.197	<0.0983	<0.0983	<0.0983	<0.147
35, 110, 20	2/22/19	20	<0.0119	<0.0596	<0.0298	<0.0298	<0.0596	<0.0596	<0.119	<0.0596	<0.0596	<0.0596	<0.0894
45, 150, 20-1448	2/22/19	20	<0.0116	<0.0582	<0.0291	<0.0291	<0.0582	<0.0582	<0.116	<0.0582	<0.0582	<0.0582	<0.0874
50, 80, 20	2/22/19	20	<0.0120	<0.0598	<0.0299	<0.0299	<0.0598	<0.0598	<0.120	<0.0598	<0.0598	<0.0598	<0.0896
45, 150, 20-1457	2/22/19	20	<0.0147	<0.0733	<0.0366	<0.0366	<0.0733	<0.0733	<0.147	<0.0733	<0.0733	<0.0733	<0.110
40, 220, 20	2/22/19	20	<0.0182	<0.0910	<0.0455	<0.0455	<0.0910	<0.0910	<0.182	<0.0910	<0.0910	<0.0910	<0.137
45, 130, 20	2/22/19	20	<0.0119	<0.0597	<0.0298	<0.0298	<0.0597	<0.0597	<0.119	<0.0597	<0.0597	<0.0597	<0.0895
35, 60, 10	2/22/19	10	<0.0110	<0.0550	<0.0275	<0.0275	<0.0550	<0.0550	<0.110	<0.0550	<0.0550	<0.0550	<0.0824
45, 60, 15	2/22/19	15	<0.0105	<0.0527	<0.0263	<0.0263	<0.0527	<0.0527	<0.105	<0.0527	**0.0928**	<0.0527	<0.0790
21, 58, 4	2/22/19	4	<0.0128	<0.0639	<0.0319	<0.0319	<0.0639	<0.0639	<0.0128	<0.0639	<0.0639	<0.0639	<0.0958
40, 200, 20	2/22/19	20	<0.0127	<0.0633	<0.0317	<0.0317	<0.0633	<0.0633	<0.127	<0.0633	<0.0633	<0.0633	<0.0950
40, 240, 20	2/22/19	20	<0.0122	<0.0609	<0.0305	<0.0305	<0.0609	<0.0609	<0.122	<0.0609	<0.0609	<0.0609	<0.0914
40, 180, 20	2/22/19	20	<0.0127	<0.0633	<0.0316	<0.0316	<0.0633	<0.0633	<0.127	<0.0633	<0.0633	<0.0633	<0.0949
45, 60, 15x	2/22/19	15	<0.0102	<0.0511	<0.0256	<0.0256	<0.0511	<0.0511	<0.102	<0.0511	**0.0944**	<0.0511	<0.0767
21, 58, 4x	2/22/19	4	<0.0141	<0.0707	<0.0353	<0.0353	<0.0707	<0.0707	<0.141	<0.0707	<0.0707	<0.0707	<0.106
35, 170, 20	2/28/19	20	<0.0110	<0.0549	<0.0274	<0.0274	<0.0549	<0.0549	<0.110	<0.0549	<0.0549	<0.0549	<0.0823
20, 130, 10	2/28/19	10	<0.0139	<0.0696	<0.0348	<0.0348	<0.0696	<0.0696	<0.139	<0.0696	<0.0696	<0.0696	<0.140
35, 170, 20X	2/28/19	20	<0.0111	<0.0553	<0.0277	<0.0277	<0.0553	<0.0553	<0.111	<0.0553	<0.0553	<0.0553	<0.0830
11, 150, 1	2/28/19	1	<0.00998	<0.0499	<0.0250	<0.0250	<0.0499	<0.0499	<0.0998	<0.0499	<0.0499	<0.0499	<0.0749
55, 170, 20	2/28/19	20	<0.0118	<0.0589	<0.0295	<0.0295	<0.0589	<0.0589	<0.118	<0.0589	<0.0589	<0.0589	<0.0884
11, 130, 2	2/28/19	2	<0.0142	<0.0709	<0.0354	<0.0354	<0.0709	<0.0709	<0.142	<0.0709	<0.0709	<0.0709	<0.106
15, 150, 10	2/28/19	10	<0.0182	<0.0909	<0.0455	<0.0455	<0.0909	<0.0909	<0.182	<0.0909	<0.0909	<0.0909	<0.136
30, 130, 20	2/28/19	20	<0.0132	<0.0659	<0.0329	<0.0329	<0.0659	<0.0659	<0.132	<0.0659	<0.0659	<0.0659	<0.0988
45, 130, 20	2/28/19	20	<0.0110	<0.0549	<0.0275	<0.0275	<0.0549	<0.0549	<0.110	<0.0549	<0.0549	<0.0549	<0.0824
55, 150, 20	2/28/19	20	<0.0127	<0.0637	<0.0318	<0.0318	<0.0637	<0.0637	<0.127	<0.0637	<0.0637	<0.0637	<0.0955
11, 170, 2	2/28/19	2	<0.0105	<0.0526	<0.0263	<0.0263	<0.0526	<0.0526	<0.105	<0.0526	<0.0526	<0.0526	<0.0789
35, 150, 20	2/28/19	20	<0.0116	<0.0579	<0.0290	<0.0290	<0.0579	<0.0579	<0.116	<0.0579	<0.0579	<0.0579	<0.0869
20, 170, 10	2/28/19	10	<0.0123	<0.0614	<0.0307	<0.0307	<0.0614	<0.0614	<0.123	<0.0614	<0.0614	<0.0614	<0.0922
15,210,10x	2/28/19	10	<0.0153	<0.0765	<0.0383	<0.0383	<0.0765	<0.0765	<0.153	<0.0765	<0.0765	<0.0765	<0.115
11,230,1	2/28/19	1	<0.0111	<0.0555	<0.0277	<0.0277	<0.0555	<0.0555	<0.111	<0.0555	<0.0555	<0.0555	<0.0832
15,210,10	2/28/19	10	<0.0152	<0.0761	<0.0380	<0.0380	<0.0761	<0.0761	<0.152	<0.0761	<0.0761	<0.0761	<0.114
15,230,10	2/28/19	10	<0.0146	<0.0732	<0.0366	<0.0366	<0.0732	<0.0732	<0.146	<0.0732	<0.0732	<0.0732	<0.110
30,230,20	2/28/19	20	<0.0202	<0.101	<0.0506	<0.0506	<0.101	<0.101	<0.202	<0.101	<0.101	<0.101	<0.152
30,210,20	2/28/19	20	<0.0136	<0.0679	<0.0340	<0.0340	<0.0679	<0.0679	<0.136	<0.0679	<0.0679	<0.0679	<0.102
50,210,20	2/28/19	20	<0.0152	<0.0761	<0.0381	<0.0381	<0.0761	<0.0761	<0.152	<0.0761	<0.0761	<0.0761	<0.114
15,190,10	2/28/19	10	<0.0120	<0.06010	<0.0301	<0.0301	<0.06010	<0.06010	<0.120	<0.06010	<0.06010	<0.06010	<0.0902
45,190,20	2/28/19	20	<0.0154	<0.0769	<0.0385	<0.0385	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.0769	<0.115
11,210,1	2/28/19	1	<0.0133	<0.0663	<0.0332	<0.0332	<0.0663	<0.0663	<0.133	<0.0663	<0.0663	<0.0663	<0.0995
11-190-1	2/28/19	1	<0.0101	<0.0503	<0.0251	<0.0251	<0.0503	<0.0503	<0.101	<0.0503	<0.0503	<0.0503	,0.0754

DRAFT

Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Benzene	1,2-Dibromoethane	1,2-Dichloroethane	Ethylbenzene	Isopropylbenzene	Methyl tert-butyl ether	Napthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes, Total
30-190-20	2/28/19	20	<0.0123	<0.0615	<0.0307	<0.0307	<0.0615	<0.0615	<0.123	<0.0615	<0.0615	<0.0615	<0.0922
11-90-2	3/1/19	2	<0.00986	<0.0493	<0.0247	<0.0247	<0.0493	<0.0493	<0.0986	<0.0493	<0.0493	<0.0493	<0.0740
11-70-1	3/1/19	1	<0.00954	<0.0477	<0.0239	<0.0239	<0.0477	<0.0477	<0.0954	<0.0477	<0.0477	<0.0477	<0.0716
18-70-5	3/1/19	5	<0.0118	<0.0591	<0.0295	<0.0295	<0.0591	<0.0591	<0.118	<0.0591	<0.0591	<0.0591	<0.0886
11-110-2	3/1/19	2	<0.00891	<0.0445	<0.0223	<0.0223	<0.0445	<0.0445	<0.0891	<0.0445	<0.0445	<0.0445	<0.0668
230-50-22	3/1/19	22	<0.0319	<0.0696	<0.0348	<0.0348	<0.0696	<0.0696	<0.139	<0.0696	<0.0696	<0.0696	<0.104
50-230-25	3/1/19	25	<0.0157	<0.0787	<0.0394	<0.0394	<0.0787	<0.0787	<0.157	<0.0787	<0.0787	<0.0787	<0.118
53-210-22	3/1/19	22	<0.0130	<0.0652	<0.0326	<0.0326	<0.0652	<0.0652	<0.130	<0.0652	<0.0652	<0.0652	<0.0978
53-210-25	3/1/19	25	<0.0127	<0.0634	<0.0317	<0.0317	<0.0634	<0.0634	<0.127	<0.0634	<0.0634	<0.0634	<0.0950
53-200-22	3/1/19	22	<0.0161	<0.0803	<0.0402	<0.0402	<0.0803	<0.0803	<0.161	<0.0803	<0.0803	<0.0803	<0.120
53-200-22X	3/1/19	22	<0.0159	<0.0795	<0.0398	<0.0398	<0.0795	<0.0795	<0.159	<0.0795	<0.0795	<0.0795	<0.119
18-110-12	3/1/19	12	<0.0123	<0.0614	<0.0307	<0.0307	<0.0614	<0.0614	<0.123	<0.0614	<0.0614	<0.0614	<0.0920
11, 250, 2	3/2/19	2	<0.00955	<0.0478	<0.0239	**0.0287**	<0.0478	<0.0478	**0.232**	<0.0478	**0.736 Q-42**	**0.190 Q-42**	**0.167**
11, 270, 1	3/2/19	1	<0.0171	<0.0856	<0.0428	<0.0428	<0.0856	<0.0856	<0.171	<0.0856	<0.0856	<0.0856	<0.128
15, 150, 5	3/2/19	5	<0.0148	<0.0740	<0.0370	<0.0370	<0.0740	<0.0740	<0.148	<0.0740	<0.0740	<0.0740	<0.111
30, 180, 20	3/2/19	20	<0.00980	<0.0490	<0.0245	<0.0245	<0.0490	<0.0490	<0.0980	<0.0490	<0.0490	<0.0490	<0.0735
11, 290, 1	3/2/19	1	<0.0126	<0.0632	<0.0316	<0.0316	<0.0632	<0.0632	<0.126	<0.0632	<0.0632	<0.0632	<0.0948
15, 270, 10	3/2/19	10	<0.0138	<0.0688	<0.0344	<0.0344	<0.0688	<0.0688	<0.138	<0.0688	<0.0688	<0.0688	<0.103
20, 270, 20	3/2/19	20	<0.0108	<0.0539	<0.0270	<0.0270	<0.0539	<0.0539	<0.108	<0.0539	<0.0539	<0.0539	<0.0809
40, 270, 20	3/2/19	20	<0.0212	<0.106	<0.0530	<0.0530	<0.106	<0.106	<0.212	<0.106	**0.285**	<0.106	<0.159
18, 290, 5	3/2/19	5	<0.0224	<0.112	<0.0559	<0.0559	<0.112	<0.112	<0.224	<0.112	<0.112	<0.112	<0.168
25, 290, 20	3/2/19	20	<0.0125	<0.0623	<0.0312	<0.0312	<0.0623	<0.0623	<0.125	<0.0623	<0.0623	<0.0623	<0.0935
25, 290, 20X	3/2/19	20	<0.0120	<0.0598	<0.0299	<0.0299	<0.0598	<0.0598	<0.120	<0.0598	<0.0598	<0.0598	<0.0898
40, 290, 20	3/2/19	20	<0.0125	<0.0626	<0.0313	<0.0313	<0.0626	<0.0626	<0.125	<0.0626	<0.0626	<0.0626	<0.0939
40, 310, 20	3/2/19	20	<0.0130	<0.0651	<0.0326	<0.0326	<0.0651	<0.0651	**0.142**	<0.0651	**0.0977**	<0.0651	<0.0977
20, 310, 20	3/2/19	20	<0.0122	<0.0608	<0.0304	<0.0304	<0.0608	<0.0608	<0.122	<0.0608	<0.0608	<0.0608	<0.0912
15, 310, 10	3/2/19	10	<0.0136	<0.0680	<0.0340	<0.0340	<0.0680	<0.0680	<0.136	<0.0680	<0.0680	<0.0680	<0.102
11, 310, 2	3/2/19	2	<0.103	<0.0517	<0.0258	**0.225**	**0.312**	<0.0517	**1.13**	<0.0517	**9.39**	**2.9**	**1.96**
45,330,20	3/4/19	20	<0.00956	<0.0478	<0.0239	<0.0239	<0.0478	<0.0478	<0.0956	<0.0478	<0.0478	<0.0478	<0.0717
25,330,20	3/4/19	20	<0.0102	<0.0509	<0.0255	<0.0255	<0.0509	<0.0509	<0.102	<0.0509	<0.0509	<0.0509	<0.0764
15,330,15	3/4/19	15	<0.0112	<0.0562	<0.0281	<0.0281	<0.0562	<0.0562	<0.112	<0.0562	**0.166**	<0.0562	<0.0843
11,330,1	3/4/19	1	<0.00982	<0.0491	<0.0245	**0.118**	**0.192**	<0.0491	**2.59**	<0.0491	**10.1**	**2.58**	**1.24**
15, 350, 10	3/4/19	10	<0.00958	<0.0479	<0.0239	**0.0321**	<0.0479	<0.0479	**0.157**	<0.0479	**0.458**	**0.124**	**0.159**
11, 350, 1	3/4/19	1	<0.0188	<0.0940	<0.0470	**1.04**	**0.79**	<0.0940	**3.27**	**0.303**	**24**	**6.71**	**7.74**
20, 350, 20	3/4/19	20	<0.0112	<0.0559	<0.0280	<0.0280	<0.0559	<0.0559	<0.112	<0.0559	<0.0559	<0.0559	<0.0839
15, 370, 8	3/4/19	8	<0.00872	<0.0436	<0.0218	**0.0265**	<0.0436	<0.0436	<0.0872	<0.0436	**0.372**	**0.106**	**0.146**
11, 370, 1	3/4/19	1	<0.00958	<0.0479	<0.0239	**0.381**	**0.383**	<0.0479	**2.75**	**0.128**	**16**	**4.07**	**3.06**
30, 350, 20	3/4/19	20	<0.0254	<0.127	<0.0635	<0.0635	<0.127	<0.127	<0.254	<0.127	<0.127	<0.127	<0.191
20, 370, 15	3/4/19	15	<0.0109	<0.0547	<0.0273	<0.0273	<0.0547	<0.0547	<0.109	<0.0547	**0.0928**	<0.0547	<0.0820
30, 370, 20	3/4/19	20	<0.0102	<0.0510	<0.0255	<0.0255	<0.0510	<0.0510	<0.204	<0.0510	**0.34**	**0.265**	**0.0917**
11, 390, 1	3/4/19	1	<0.0100	<0.0502	<0.0251	**1.99**	**1.33**	<0.0502	**3.1**	**0.642**	**35.8**	**8.89**	**14.3**
16, 390, 8	3/4/19	8	<0.0120	<0.0600	<0.0300	<0.0300	<0.0600	<0.0600	<0.120	<0.0600	**0.111**	<0.0600	<0.0900
36, 390, 15	3/4/19	15	<0.0108	<0.0542	<0.0271	**0.0378**	<0.0542	<0.0542	<0.108	<0.0542	**0.3**	**0.108**	**0.262**
45, 390, 25	3/4/19	25	<0.0198	<0.0991	<0.0496	<0.0496	<0.0991	<0.0991	<0.198	<0.0991	<0.0991	<0.0991	<0.149
18, 410, 6	3/4/19	6	<0.0109	<0.0547	<0.0273	<0.0273	<0.0547	<0.0547	<0.109	<0.0547	**0.0594**	<0.0547	<0.0820
40, 410, 25	3/4/19	25	<0.00911	<0.0455	<0.0228	<0.0228	<0.0455	<0.0455	<0.0911	<0.0455	<0.0455	<0.0455	<0.0683
15, 350, 10x	3/4/19	10	<0.0165	<0.0824	<0.0412	<0.0412	<0.0824	<0.0824	<0.165	<0.0824	**0.278**	<0.0824	**0.150**
30, 350, 20x	3/4/19	20	<0.0171	<0.0855	<0.0428	<0.0428	<0.0855	<0.0855	<0.171	<0.0855	<0.0855	<0.0855	<0.128
45-410-30	3/5/19	30	<0.00889	<0.0445	<0.0222	<0.0222	<0.0445	<0.0445	<0.0889	<0.0445	<0.0445	<0.0445	<0.0667
45-430-30	3/5/19	30	<0.0113	<0.0563	<0.0282	<0.0282	<0.0563	<0.0563	<0.113	<0.0563	<0.0563	<0.0563	<0.0845
45-440-30	3/5/19	30	<0.00829	<0.0415	<0.0207	<0.0207	<0.0415	<0.0415	<0.0829	<0.0415	<0.0415	<0.0415	<0.0622
20-20-3	3/5/19	3	<0.0116	<0.0578	<0.0289	<0.0289	<0.0578	<0.0578	<0.116	<0.0578	<0.0578	<0.0578	<0.0867
13-0-1	3/5/19	1	<0.0133	<0.0667	<0.0334	<0.0334	<0.0667	<0.0667	<0.133	<0.0667	<0.0667	<0.0667	<0.100
13-0-8	3/5/19	8	<0.0107	<0.0533	<0.0266	<0.0266	<0.0533	<0.0533	<0.107	<0.0533	<0.0533	<0.0533	<0.0799
13-(-20)-1	3/5/19	1	<0.0110	<0.0552	<0.0276	<0.0276	<0.0552	<0.0552	<0.110	<0.0552	<0.0552	<0.0552	<0.0828
30-(-20)-8	3/5/19	8	<0.0143	<0.0714	<0.0357	<0.0357	<0.0714	<0.0714	<0.143	<0.0714	<0.0714	<0.0714	<0.107
40-(-20)-15	3/5/19	15	<0.0110	<0.0551	<0.0276	<0.0276	<0.0551	<0.0551	<0.110	<0.0551	**0.164**	<0.0551	<0.0827
20-(-40)-5	3/5/19	5	<0.0106	<0.0530	<0.0265	<0.0265	<0.0530	<0.0530	<0.106	<0.0530	<0.0530	<0.0530	<0.795
35-(-40)-12	3/5/19	12	<0.0102	<0.0510	<0.0255	<0.0255	<0.0510	<0.0510	<0.102	<0.0510	<0.0510	<0.0510	<0.0765
40-(-20)-15X	3/5/19	15	<0.0141	<0.0705	<0.0352	<0.0352	<0.0705	<0.0705	<0.141	<0.0705	**0.111**	<0.0705	<0.106

Notes:

[1]Chemical analytical analyses were performed by Apex Laboratory of Tigard, Oregon.

[2]Oregon Department of Environmental Quality (DEQ). Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

*This RBC is: 1) not established; 2) exceeds the solubility limit; or 3) is greater than a concentration where free product would be present.

mg/kg = milligrams per kilogram

bgs = below ground surface

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Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Benzene	1,2-Dibromoethane	1,2-Dichloroethane	Ethylbenzene	Isopropylbenzene	Methyl tert-butyl ether	Napthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes, Total

Bold indicates analyte detection.

* = V-15 qualifier = Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

"<0.00126" indicates the analyte was not detected above the reported detection limit.

TABLE 3

SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA[1]

SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)

I-84 DIESEL SPILL - LINDSEY LAKE OERS 2019-0334

I-84, MP 54 NEAR CASCADE LOCKS, OREGON

Soil Sample	Date Sampled	Sample Depth (ft bgs)	Anthracene	Acenaphthene	Acenaphthylene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
Interceptor Trench	2/18/19	--	<0.0679	<0.0679	<0.0679	<0.0679	<0.102	<0.102	<0.0679	<0.102	<0.0679	<0.0679	<0.0679	<0.136	<0.0679	<0.136	**0.129** J	**0.0994** J
Interceptor Trench East	2/18/19	--	<0.0728	<0.0728	<0.0728	**0.0781** J	<0.109	**0.157** J	**0.167**	**0.194** J	**0.138** J	<0.0728	**0.126** J	<0.0728	**0.0973** J	<0.146	<0.0728	**0.147**
Interceptor Trench West	2/18/19	--	<0.0750	<0.150	<0.0750	<0.0750	<0.113	<0.113	<0.0750	<0.113	<0.0750	<0.0750	<0.0750	<0.256 R-02	<0.0750	**0.389**	**0.316**	**0.216**
11, 240, 2	2/20/19	2	<0.0129	<0.0129	<0.0129	<0.0129	**0.372**	**0.508** M-05	**0.293**	**0.146** J	<0.387 R-02	**0.065** J	**0.265**	<0.145 R-02	**0.286**	<0.129	**0.257**	**0.433**
35, 60, 10*	2/22/19	10	<0.0314	<0.0314	<0.0314	<0.0314	<0.0472	**0.0568 J**	**0.0521 J**	<0.0472	**0.0501 J**	<0.0314	**0.043 J**	<0.0314	**0.0323 J**	<0.0630	**0.0369 J**	**0.0569 J**
40, 60, 15*	2/22/19	15	<0.0635	<0.0635	<0.0635	<0.0635	<0.0635	0.0493 J	**0.055 J**	<0.0475	**0.036 J**	<0.0316	<0.0316	<0.0316	**0.0397 J**	<0.0635	**0.0319 J**	**0.042 J**
21, 58, 4	2/22/19	4	<0.0599	<0.0599	<0.0599	**0.0845 J**	<0.0901	**0.156 J**	**0.17 J**	<0.0901	**0.119 J**	<0.0599	**0.11 J**	<0.0599	**0.0999 J**	<0.120	**0.0655 J**	**0.131**
40, 240, 20	2/22/19	20	<0.0170	<0.0170	<0.0170	<0.0170	<0.0256	<0.0256	<0.0170	<0.0256	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.00342	**0.00312 J**	<0.00342
45, 60, 15x	2/22/19	15	<0.0300	<0.0300	<0.0300	<0.0300	<0.0452	<0.0452	**0.0429 J**	<0.0452	<0.0300	<0.0300	<0.0300	<0.0300	**0.0346 J**	<0.0603	<0.0300	**0.0316 J**
21, 58, 4x	2/22/19	4	<0.0592	<0.0592	<0.0592	**0.0733 J**	<0.0890	**0.128 J**	**0.110 J**	<0.0890	**0.102 J**	<0.0592	**0.115 J**	<0.0592	**0.0744 J**	<0.119	**0.0757 J**	**0.128 J**
T0@1	2/21/19	1	<0.00554	<0.0208 R-02	<0.0111	**0.00792 J**	**0.0115 J**	**0.0117 J**	**0.0178**	<0.00833	**0.00888 J**	<0.00554	**0.0159**	<0.0291 R-02	**0.0134**	<0.0329	**0.0443**	**0.042**
T2@2*	2/21/19	2	<0.0288	<0.0288	<0.0288	<0.0288	<0.0434	**0.0476 J**	**0.0541 J**	<0.0434	**0.0362 J**	<0.0288	<0.0288	<0.0288	**0.0312 J**	<0.0579	<0.0288	**0.0372 J**
T6@2*	2/21/19	2	<0.0289	<0.0289	<0.0289	<0.0289	<0.0435	<0.0435	**0.0419 J**	<0.0435	<0.0289	<0.0289	<0.0289	<0.0289	**0.0319 Q-42, J**	<0.0581	<0.0289	**0.0320 Q-42, J**
T10@1	2/21/19	1	<0.0595	<0.0595	<0.0595	<0.0595	<0.0895	<0.0895	**0.0773 J**	<0.0895	**0.0658 J**	<0.0595	<0.0595	<0.119	<0.0595	<0.119	**0.111 J**	**0.0975 J**
T12@3	2/21/19	3	<0.0640	<0.0640	<0.0640	**0.00848 J**	<0.0963	**0.0106 J**	**0.0124 J**	<0.0963	**0.00784 J**	<0.0640	**0.0133**	<0.0640	**0.0106 J**	<0.0129	**0.0111 J**	**0.0188**
35, 170, 20	2/28/19	20	<0.0120	<0.0120	<0.0120	**<0.00973 J**	<0.0092	<0.0092	<0.0060	<0.0092	**0.0114 J**	<0.0060	**0.0181**	<0.0120	<0.0060	<0.0120	**0.0174**	**0.0256**
20, 130, 10	2/28/19	10	<0.0135	<0.00675	<0.00675	**0.0111 J**	<0.0101	**0.0142 J**	**0.00990 J**	<0.0101	**0.0152 M-05**	<0.00675	**0.0227**	<0.0152	**0.00837 J**	<0.0135	**0.0297**	**0.0324**
35, 170, 20X	2/28/19	20	<0.00621	<0.00621	<0.00621	**0.0104 J**	<0.00934	**0.00993 J**	**0.00732 J**	<0.00934	**0.0113 J**	<0.00621	**0.0161 Q-42**	<0.0125	**0.00673 J**	<0.0125	**0.0161**	**0.026**
11, 150, 1	2/28/19	1	<0.0691	<0.0691	<0.0691	<0.0691	<0.104	<0.104	<0.0691	<0.104	<0.0691	<0.0691	<0.0691	<0.0691	<0.0691	<0.139	<0.0691	<0.0691
11, 170, 2	2/28/19	2	<0.0302	<0.0302	<0.0302	**0.0433 J**	**0.0531 J**	**0.0716 J**	**0.097**	<0.0454	**0.0444 J**	<0.0302	**0.0545 J**	<0.0302	**0.0626**	<0.0606	**0.0427 J**	**0.068**
20, 170, 10	2/28/19	10	<0.00687	<0.00687	<0.00687	**0.00904 J**	<0.0103	**0.0126 J**	**0.0218**	<0.0103	**0.0216 M-05**	<0.00687	**0.0131 J**	<0.00687	**0.0219**	<0.0138	**0.0153**	**0.0181**
11,210,1	2/28/19	1	<0.0728	<0.0728	<0.0728	<0.0728	<0.110	<0.110	<0.0728	<0.110	<0.0728	<0.0728	<0.0728	<0.0728	<0.0728	<0.146	**0.104 J**	**0.0863 J**
30-190-20	2/28/19	20	<0.00656	<0.00656	<0.00656	**0.00706 J**	<0.00987	<0.00987	<0.00656	<0.00987	<0.00656	<0.00656	**0.00792 J**	<0.0132	<0.00656	<0.0132	**0.0146**	**0.0128 J**
11-190-1	2/28/19	1	<0.0705	<0.0705	<0.0705	<0.0705	<0.106	<0.106	<0.0705	<0.106	<0.0705	<0.0705	<0.0705	<0.0705	<0.0351	<0.0705	<0.0351	**0.0489 J**
15,210,10X	2/28/19	10	<0.00654	<0.00654	<0.00654	<0.00654	<0.0983	<0.0983	<0.00654	<0.0983	<0.00654	<0.00654	**0.0122 J**	<0.0131	<0.00654	<0.0131	**0.0194**	**0.0159**
11,230,1	2/28/19	1	<0.0723	<0.0723	<0.0723	<0.0723	<0.109	<0.109	<0.0723	<0.109	<0.0723	<0.0723	<0.0723	<0.0723	<0.0723	<0.145	<0.0723	<0.0723
15,210,10	2/28/19	10	<0.00643	<0.0129	<0.00643	<0.00643	<0.00967	<0.00967	<0.00643	<0.00967	<0.00643	<0.00643	**0.0128 J**	<0.0129	<0.00643	<0.0129	**0.0229**	**0.0163**
15,190,10	2/28/19	10	<0.00654	<0.00654	<0.00654	<0.00654	<0.0983	<0.0983	<0.00654	<0.0983	<0.00654	<0.00654	<0.00654	<0.00654	<0.00654	<0.0131	<0.00654	<0.00654
11-90-2	3/1/19	2	<0.0275	<0.0275	<0.0275	**0.0203 J**	**0.0335 J**	**0.0357 J**	**0.0527**	<0.0206	**0.0258 J**	<0.0137	**0.0399**	<0.0137	**0.0345**	<0.0275	**0.0229 J**	**0.0611**
11-70-1	3/1/19	1	<0.0705	<0.0705	<0.0705	<0.0705	<0.106	<0.106	**0.0832 J**	<0.106	<0.0705	<0.0705	<0.0705	<0.0705	<0.0705	<0.142	<0.0705	**0.0717 J**
11-110-2	3/1/19	2	<0.106	<0.106	<0.106	<0.106	<0.160	<0.160	<0.106	<0.160	<0.106	<0.106	<0.106	<0.106	<0.106	<0.214	<0.106	<0.106
53-200-22	3/1/19	22	<0.00170	<0.00170	<0.00170	<0.00170	<0.0255	<0.0255	<0.00170	<0.0255	<0.00170	<0.00170	<0.00170	<0.00170	<0.00170	<0.0340	<0.00170	<0.00170
18-110-12	3/1/19	12	<0.0395	<0.0395	<0.0395	**0.0641 J**	**0.0632 J**	**0.0837 J**	**0.0708 J**	<0.0593	**0.0709 J**	<0.0395	**0.0686 J**	<0.0395	**0.0634 J**	<0.0792	**0.0505 J**	**0.0769 J**
25, 290, 20X	3/2/19	20	<0.0163	<0.0163	<0.0163	<0.0163	<0.0246	<0.0246	<0.00163	<0.0246	<0.00163	<0.00163	<0.00163	<0.00163	<0.00163	<0.00328	<0.00163	<0.00163
11, 250, 2	3/2/19	2	<0.111	<0.0551	<0.0551	**0.0583 J Q-42**	<0.0829	<0.0829	**0.0562 J**	<0.0829	<0.0551	<0.0551	**0.0635 J**	<0.177 R-02	<0.0551	<0.111	**0.305**	**0.218**
11, 270, 1	3/2/19	1	<0.0137	<0.0137	<0.0137	**0.0138 J**	<0.0206	<0.0206	**0.0170 J**	<0.0206	<0.0137	<0.0137	**0.0282**	<0.0137	<0.0137	<0.0275	**0.0193 J**	**0.0299**
15, 150, 5	3/2/19	5	<0.0659	<0.0659	<0.0659	<0.0659	<0.0991	<0.0991	<0.0659	<0.0991	<0.0659	<0.0659	<0.0659	<0.0132	<0.0659	<0.0132	**0.0128 J**	**0.0105 J**
30, 180, 20	3/2/19	20	<0.00636	<0.00636	<0.00636	<0.00636	<0.00956	<0.00956	<0.00636	<0.00956	<0.00636	<0.00636	<0.00636	<0.0128	<0.00636	<0.0128	**0.0159**	**0.0119 J**
11, 290, 1	3/2/19	1	<0.00560	<0.00560	<0.00560	**0.00852 J**	**0.0100 J**	**0.0120 J**	**0.0153**	<0.00842	**0.00817 J**	<0.00560	**0.0131**	<0.00560	**0.0101 J**	<0.0112	**0.0114**	**0.0221**
40, 270, 20	3/2/19	20	**0.107**	**0.0176**	<0.0140	**0.0396**	**0.0144 J**	**0.0224 M-05**	<0.00697	<0.0105	**0.0536**	<0.00697	**0.221**	**0.159**	<0.00697	**0.147**	**0.53**	**0.224**

Soil Sample	Date Sampled	Sample Depth (ft bgs)	Anthracene	Acenaphthene	Acenaphthylene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
40, 290, 20	3/2/19	20	<0.00693	<0.00693	<0.00693	**0.00991 J**	<0.0104	**0.0146 J**	**0.0104 J**	<0.0104	**0.0119 J**	<0.00693	**0.0178**	<0.00693	**0.00904 J**	<0.0139	**0.0201**	**0.0197**
40, 310, 20	3/2/19	20	<0.0898 R-02	<0.125 R-02	<0.0449 R-02	**0.194**	**0.255**	**0.262 M-05**	**0.224**	**0.0833 M-05**	**0.289**	**0.0388**	**0.273**	<0.157 R-02	**0.185**	**0.155**	**0.435**	**0.551**
11, 310, 2	3/2/19	2	<0.0845 R-02	<0.259 R-02	<0.0845 R-02	<0.0281	<0.0422	<0.0422	**0.0294 J**	<0.0422	<0.0281	<0.0281	**0.0498 J**	<0.366 R-02	<0.0281	**0.573 M-02**	**0.469**	**0.360 Q-42**
15, 350, 10	3/4/19	10	<0.0151	<0.0568	<0.0304	**0.0230 J**	**0.0237 J**	**0.0375 J**	**0.0534**	<0.0227	**0.0323 M-05**	<0.0151	**0.0526**	<0.0909 R-02	**0.0427**	**0.0666**	**0.158**	**0.126**
15, 350, 10X	3/4/19	10	<0.0618	<0.0618	<0.0618	<0.0618	<0.0929	<0.0929	**0.0746 J Q-42**	<0.0929	<0.0618	<0.0618	**0.0841 J Q-42**	<0.124	**0.0717 J Q-42**	<0.124	**0.15**	**0.146 Q-42**
30, 350, 20X	3/4/19	20	<0.00657	<0.00657	<0.00657	0.0109 J	0.0109 J	0.0140 J	**0.0243**	<0.00988	**0.111 J**	<0.00657	**0.0178**	<0.00657	**0.0165**	<0.0132	**0.0134**	**0.0187**
11, 350, 1	3/4/19	1	<0.137	<0.437 R-02	<0.187 R-02	<0.0554	<0.0833	<0.0833	**0.0700 J**	<0.0833	<0.0554	<0.0554	**0.124**	<0.666	**0.0598 J**	**1.21 M-02**	**0.985**	**0.726**
20, 350, 20	3/4/19	20	<0.0121 J	<0.0121	<0.00602	**0.00656 J**	<0.00905	<0.00905	**0.00707 J**	<0.00905	**0.00629 J**	<0.00602	<0.0121	<0.0181 R-02	<0.00602	<0.0121	**0.0387**	**0.0505**
15, 370, 8	3/4/19	8	<0.00600	<0.0180 R-02	<0.0120	**0.00794 J**	<0.00902	**0.0129 J**	**0.0128**	<0.00902	**0.0124 M-05**	<0.00600	**0.0178**	<0.0361 R-02	**0.00954 J**	**0.0293 M-02**	**0.0538**	**0.0463**
11, 370, 1	3/4/19	1	<0.188 R-02	<0.627 R-02	<0.251 R-02	<0.0556	<0.0837	<0.0837	<0.0556	<0.0837	<0.0556	<0.0556	<0.112	<0.962 R-02	<0.0556	**1.55 M-02**	**1.33**	**0.92**
20, 370, 15	3/4/19	15	<0.00506	<0.0114	<0.0114	**0.0175 M-05**	**0.0231**	**0.0295**	**0.0259**	**0.00913 J**	**0.0232 M-05**	<0.00566	**0.0266**	<0.0170 R-02	**0.0226**	**0.0144 J**	**0.0374**	**0.0455**
30, 370, 20	3/4/19	20	<0.0297	<0.0945 R-02	<0.0445 R-02	**0.0156 J**	<0.0222	<0.0222	**0.0253 J**	<0.0222	**0.0184 J**	<0.0148	**0.0314**	<0.139 R-02	**0.0201 J**	<0.0778 R-02	**0.245**	**0.196**
11, 390, 1	3/4/19	1	<0.170 R-02	<0.532 R-02	<0.192 R-02	<0.0566	<0.0851	<0.0851	<0.0566	<0.0851	<0.0566	<0.0566	<0.0566	<0.809	<0.0566	**1.53**	**1.09**	**0.709**
16, 390, 8	3/4/19	8	<0.00630	<0.0127	<0.00630	**0.0109 J**	<0.00948	<0.00948	<0.00630	<0.00948	**0.00906 J**	<0.00630	**0.0183**	<0.0127	<0.00630	<0.0127	**0.0365**	**0.0315**
36, 390, 15	3/4/19	15	<0.0128	<0.00639	<0.00639	**0.00973 J**	**0.0124 J**	**0.0242 M-05**	**0.0231 M-05**	<0.00961	**0.0136 M-05**	<0.00639	**0.0142**	<0.0128	**0.0193**	<0.0128	**0.0165**	**0.0234**
45, 390, 25	3/4/19	25	<0.0160	<0.0160	<0.0160	**0.0197 J**	<0.0240	**0.0246 J**	**0.0304 J**	**0.0329 J**	**0.0189 J**	<0.0160	**0.0294 J**	<0.0160	**0.0226 J**	<0.0321	**0.0185 J**	**0.037**
18, 410, 6	3/4/19	6	<0.0153	<0.0153	<0.0153	**0.0177 J**	<0.0230	<0.0230	**0.0185 J**	<0.0230	**0.0187 J**	<0.0153	**0.0214 J**	<0.0153	**0.0159 J**	<0.0307	**0.0267 J**	**0.0327**
45, 330, 20	3/4/19	20	<0.00598	<0.00598	<0.00598	**0.0149 M-05**	**0.0167 J**	**0.0261 M-05**	**0.0239 Q-42**	<0.0899	**0.02**	<0.00598	**0.0253**	<0.00598	**0.0192**	**0.0294**	**0.0276**	**0.032**
25, 330, 20	3/4/19	20	<0.00609	<0.00609	<0.00609	<0.00609	<0.00916	<0.00916	<0.00609	<0.00916	<0.00609	<0.00609	**0.00830 J**	<0.0122	<0.00609	<0.0122	**0.0177**	**0.015**
15, 330, 15	3/4/19	15	<0.00630	<0.0189 R-02	<0.0126	**0.0134 M-05**	**0.0133 J**	**0.0253 M-05**	**0.0204**	<0.00947	**0.0302 M-05**	<0.00630	**0.0696**	<0.0332	**0.0127**	**0.0396**	**0.0901**	**0.0852**
11, 330, 1	3/4/19	1	<0.230 R-02	<0.732 R-02	<0.230 R-02	<0.0556	<0.0837	<0.0837	**0.0637 J**	<0.0837	<0.0556	<0.0556	<0.125 R-02	<1.17 R-02	<0.0556	**1.49 M-02**	**1.38**	**1.17**
40-(-20)-15X	3/5/19	15	<0.0144	<0.0144	<0.0144	**0.0234 J**	**0.0225 J**	**0.0488 M-05**	**0.0439**	<0.0216	**0.0382 M-05**	<0.0144	**0.035**	<0.0144	**0.0260 J**	<0.0289	**0.0292**	**0.0461**

Notes:

[1]Chemical analysis was performed by Apex Laboratory of Tigard, Oregon. .

[2] Oregon Department of Environmental Quality. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

ft bgs = feet below the existing ground surface

mg/kg = milligrams per kilogram

J qualifier = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

R-02 qualifier = The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

* = R-04 qualifier = Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.

M-02 qualifier = Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.

M-05 qualifier = Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.

Q-42 qualifier = Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits.□(Refer to the QC Section of Analytical Report.)

<0.00729 = Analyte was not detected at a concentration greater than the reported detection limit.

1-Methylnaphthalene	2-Methylnaphthalene
0.256 J	**0.395**
<0.146	<0.146
0.872	**1.34**
0.378	**0.55**
<0.0630	<0.0630
<0.0635	<0.0635
<0.120	<0.120
0.00443 J	**0.00577 J**
<0.0603	<0.0603
<0.119	<0.119
0.0795	**0.115**
<0.0579	<0.0579
<0.0581	<0.0581
0.212 J	**0.272**
<0.0129	**0.0161 J**
0.0137 J	**0.0204 J**
0.0244 J	**0.0326**
0.0178	**0.0269**
<0.139	<0.139
<0.0606	<0.0606
<0.0138	<0.0138
<0.146	<0.146
0.0222 J	**0.035**
<0.0705	<0.0705
0.0142 J	**0.0186 J**
<0.145	<0.145
0.0153 J	**0.0206 J**
<0.0131	<0.0131
<0.0275	<0.0275
<0.142	<0.142
<0.214	<0.214
<0.0340	<0.0340
<0.0792	<0.0792
<0.00328	<0.00328
0.299	**0.422**
<0.0275	<0.0275
<0.0132	**0.0154 J**
<0.0128	**0.0153 J**
<0.0112	<0.0112
0.13	**0.196**

1-Methylnaphthalene	2-Methylnaphthalene
<0.0139	**0.0140 J**
0.413	**0.613**
1.3	**2.09**
0.191	**0.281**
0.159 J	**0.213 J**
<0.0132	<0.0132
2.56	**4.19**
0.0135 J	**0.0165 J**
0.0736	**0.111**
3.64	**5.81**
0.0354	**0.0498**
0.337	**0.37**
3.28	**5.03**
0.0207 J	**0.028**
0.0285	**0.0408**
<0.0321	<0.0321
<0.0307	<0.0307
0.0238 J	**0.0499**
0.0226 J	**0.0282**
0.0855	**0.12**
3.82	**6.11**
<0.0289	<0.0289

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TABLE 4
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYTICAL DATA[1]
PETROLEUM HYDROCARBONS
I-84 DIESEL SPILL - LINDSEY LAKE OERS 2019-0334
I-84, MP 54 NEAR CASCADE LOCKS, OREGON

Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Diesel-range Hydrocarbons	Oil-range Hydrocarbons
			Northwest Method TPH-Dx (mg/kg)	
Background	2/17/19	surface	<28.6	<57.3
Secondary Containment	2/17/19	surface	<143	<286
Containment	2/17/19	surface	<62.7	<125
Sed-1	2/24/19	surface	**51.4** F-17	**121** F-17
Sed-2	2/24/19	surface	<129	**139** F-17, J
Sed-Bg	2/24/19	surface	<103	<206

Notes:

[1]Chemical analytical analyses were performed by Apex Laboratory of Tigard, Oregon.

[2]Oregon Department of Environmental Quality. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

*This RBC 1) is not established; 2) exceeds the solubility limit; or 3) is greater than a concentration where free product would be present.

mg/kg = milligrams per kilogram

bgs = below ground surface

"<6.97" indicates the analyte was not detected above the reported detection limit.

"--" = not analyzed

">Max" = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.

J qualifier = Estimated Result. Result detected below the lowest point of the calibration curve, but above

F-17 qualifier = No fuel pattern detected. The Diesel result represents carbon range C12 to C24, and the

Bold indicates analyte detection.

Shading indicates concentration exceeds one or more DEQ RBC.

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TABLE 5
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYTICAL DATA[1]
SELECT BTEX COMPOUNDS
I-84 DIESEL SPILL - LINDSEY LAKE OERS 2019-0334
I-84, MP 54 NEAR CASCADE LOCKS, OREGON

			BTEX Compounds (EPA Method 5035/8260B) (mg/kg)			
Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Benzene	Ethylbenzene	Toluene	Xylenes, Total
Background*	2/17/19	surface	<0.0171	<0.0428	<0.0856	<0.128
Secondary Containment*	2/17/19	surface	<0.131	<0.327	<0.654	<0.981
Containment*	2/17/19	surface	<0.0506	<0.127	<0.253	<0.380
Sed-1*	2/24/19	surface	<0.0384	<0.0959	<0.192	<0.288
Sed-2*	2/24/19	surface	<0.113	<0.283	<0.566	<0.849
Sed-Bg*	2/24/19	surface	<0.0937	<0.234	<0.469	<0.703

Notes:

[1]Chemical analytical analyses were performed by Apex Laboratory of Tigard, Oregon.

[2]Oregon Department of Environmental Quality (DEQ). Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

*This RBC is: 1) not established; 2) exceeds the solubility limit; or 3) is greater than a concentration where free product would be present.

mg/kg = milligrams per kilogram

bgs = below ground surface

Bold indicates analyte detection.

* = V-15 qualifier = Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

"<0.00126" indicates the analyte was not detected above the reported detection limit.

TABLE 6

SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA[1]

SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)

I-84 DIESEL SPILL - LINDSEY LAKE OERS 2019-0334

I-84, MP 54 NEAR CASCADE LOCKS, OREGON

Soil Sample	Date Sampled	Sample Depth (ft bgs)	Anthracene	Acenaphthene	Acenaphthylene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene
Background	2/17/19	surface	<0.00192	<0.00192	<0.00192	<0.00192	<0.00288	<0.00288	<0.00192	<0.00288	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	**0.00418 J**	**0.00208 J**	<0.00192	<0.00384	<0.00384
Secondary Containment	2/17/19	surface	<0.00985	<0.00985	<0.00985	<0.00985	<0.0148	<0.0148	<0.00985	<0.0148	<0.00985	<0.00985	<0.00985	<0.00985	<0.00985	<0.0198	<0.0198	<0.00985	<0.0198	<0.0198
Containment	2/17/19	surface	<0.00429	<0.00429	<0.00429	**0.00975 M-05**	**0.00921 J**	**0.0128 J**	**0.00678 J**	<0.00645	**0.00921 M-05**	<0.00429	**0.0132**	<0.00429	**0.00694 J**	<0.00861	**0.00904**	**0.0118**	<0.00861	<0.00861
Sed-1	2/24/19	surface	<0.0128	<0.0128	<0.0128	**0.0173 J**	<0.0193	<0.0193	**0.0133 J**	<0.0193	<0.0128	<0.0128	**0.0204 J**	<0.0128	<0.0128	<0.0258	<0.0128	**0.0242 J**	<0.0258	<0.0258
Sed-2	2/24/19	surface	<0.00819	<0.00819	<0.00819	<0.00819	<0.0123	<0.0123	<0.00819	<0.0123	<0.00819	<0.00819	<0.00819	<0.00819	<0.00819	<0.0164	<0.00819	<0.00819	<0.0164	<0.0164
Sed-Bg	2/24/19	surface	<0.00704	<0.00704	<0.00704	**0.0105 J**	<0.0106	<0.0106	<0.00704	<0.0106	**0.00969 J**	<0.00704	<0.00704	<0.00704	<0.00704	<0.0141	<0.00704	<0.00704	<0.0141	<0.0141

Notes:

[1]Chemical analysis was performed by Apex Laboratory of Tigard, Oregon. .

[2] Oregon Department of Environmental Quality. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

ft bgs = feet below the existing ground surface

mg/kg = milligrams per kilogram

<0.00729 = Analyte was not detected at a concentration greater than the reported detection limit.

J qualifier = Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

M-05 qualifier = Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.