

HSR Lost Creek 1-32																											
Organic Compounds in Soil		Benzene	Toluene	Ethylbenzene	Xylenes, total	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acenaphthene	Anthracene	Benzo(b)anthracene	Benzo(k)fluoranthene	Benzo(a)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Pyrene	Diesel Range Organics (C10-C28)	Residual Range Organics (C28-C40)	Gasoline Range Organics (C6-C12)	TPH	
Protection of Groundwater Soil Screening Level		0.0026	0.69	0.78	9.9	0.0081	0.0087	0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	0.0038	1.3	500	500	500	500	
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Sample ID	Sample Date																										
Background@Surface	12/12/2023 9:20:00 AM	0.0065	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	0.002	<0.002	<0.02	<25	<100	0.221	0.221	
Background 1 @Surface	2/9/2024 11:30:00 AM	<0.002	0.00242	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	0.002	<0.002	<0.02	<25	<100	<0.2	<100	
Source@Surface	12/12/2023 9:00:00 AM	48.7	43.3	2.86	23.8	12	2.83	0.496	0.052	0.01	0.024	<0.02	<0.02	0.076	<0.02	<0.02	0.579	<0.02	3.2	4.87	1.61	0.041	1,130	1,040	7,760	9,930	
SW1@5'	12/18/2023 10:10:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	685	761	1.14	1,447	
SW1@15'	12/18/2023 10:20:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	<25	<100	<0.2	<125.2	
SW2@5'	12/18/2023 10:30:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	<25	<100	<0.2	<125.2	
SW2@15'	12/18/2023 10:40:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	<25	<100	<0.2	<125.2	
SW3@5'	12/18/2023 11:50:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	<25	<100	<0.2	<125.2	
SW3@15'	12/18/2023 11:05:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	<25	<100	<0.2	<125.2	
SW4@5'	12/18/2023 11:15:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	<25	<100	<0.2	<125.2	
SW4@15'	12/18/2023 11:25:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.02	<25	<100	<0.2	<125.2	
BH1@20'	12/18/2023 11:35:00 AM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.012	0.003	<0.002	<0.02	78.8	<100	0.374	79.2	

**Note

- mg/Kg = milligrams per kilogram
- < = less than the stated laboratory method detection limit
- Screening levels derived from Energy and Carbon Management Commission Table 915-1
- Red Text: exceeds table 915-1 concentration
- Gray highlight indicates background sample

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Soil Suitability for Reclamation		Specific Conductance (EC)	SAR	pH	Boron
Table 915-1 Concentration		4	6	6-8.3	2
Units		mmhos/cm		pHUnits	mg/L
Sample ID	Sample Date				
Background@Surface	12/12/2023 9:20:00 AM	1.82	1.35	7.82	0.397
Background 1 @Surface	2/9/2024 11:30:00 AM	1.40	0.909	7.96	0.390
Source@Surface	12/12/2023 9:00:00 AM	1.87	2.28	7.41	0.837
SW1@5'	12/18/2023 10:10:00 AM	0.554	1.62	7.39	<0.0983
SW1@15'	12/18/2023 10:20:00 AM	0.493	1.32	8.04	<0.0992
SW2@5'	12/18/2023 10:30:00 AM	0.427	1.41	7.7	<0.102
SW2@15'	12/18/2023 10:40:00 AM	0.726	0.971	8	<0.102
SW3@5'	12/18/2023 11:50:00 AM	0.655	1.05	7.97	<0.0995
SW3@15'	12/18/2023 11:05:00 AM	1.01	1.6	8.11	<0.0996
SW4@5'	12/18/2023 11:15:00 AM	0.754	1.21	7.68	<0.0991
SW4@15'	12/18/2023 11:25:00 AM	0.823	0.996	8.17	0.264
BH1@20'	12/18/2023 11:35:00 AM	0.747	1.06	8.3	<0.101

****Note**

- mmhos/cm = millimhos per centimeter
- mg/L = milligrams per liter
- < = less than the stated laboratory method detection limit
- Screening levels derived from Energy and Carbon Management Commission Table 915-1
- Red Text: exceeds table 915-1 concentration
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Metals in Soil		Arsenic	Barium	Cadmium	Chromium, Hexavalent	Copper	Lead	Nickel	Selenium	Silver	Zinc
Protection of Groundwater Soil Screening Level		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site Specific Background Level		0.57625	--	--	--	--	--	--	0.52375		
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample ID	Sample Date										
Background@Surface	12/12/2023 9:20:00 AM	0.461	17.3	0.0874	<1.22	4.82	4.02	1.8	0.419	0.0184	16.7
Background 1 @Surface	2/9/2024 11:30:00 AM	1.58	17.8	0.105	<1.22	<9.13	4.74	2.05	0.604	<0.0913	23.5
Source@Surface	12/12/2023 9:00:00 AM	0.45	17.3	0.0796	<0.488	4.78	3.04	1.98	0.407	0.0083	18.6
SW1@5'	12/18/2023 10:10:00 AM	0.789	31.3	<0.25	<0.5	2.72	3.7	3.24	0.397	<0.25	14.9
SW1@15'	12/18/2023 10:20:00 AM	<0.25	31.1	<0.25	<0.5	2.27	2.45	2.09	<0.25	<0.25	9.38
SW2@5'	12/18/2023 10:30:00 AM	0.931	40.3	<0.25	<0.5	3.04	3.75	3.37	0.431	<0.25	15.9
SW2@15'	12/18/2023 10:40:00 AM	1.19	55.4	<0.25	<0.5	2.84	2.84	2.28	0.272	<0.25	9.09
SW3@5'	12/18/2023 11:50:00 AM	0.65	30.2	<0.25	<0.5	2.45	3.14	2.65	0.305	<0.25	12
SW3@15'	12/18/2023 11:05:00 AM	0.782	30	<0.25	<0.5	2.68	3.07	2.53	0.366	<0.25	11
SW4@5'	12/18/2023 11:15:00 AM	0.51	25.1	<0.25	<0.5	2.15	2.46	2.12	0.262	<0.25	10
SW4@15'	12/18/2023 11:25:00 AM	0.506	24.2	<0.25	<0.5	1.9	2.63	2.06	<0.25	<0.25	10.1
BH1@20'	12/18/2023 11:35:00 AM	0.862	36.1	<0.25	<0.5	2.77	3.07	2.79	0.287	<0.25	12.9

****Note**

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- Gray highlight indicates background sample