

Table 1
MB Larson 3-25 Spill
Soil Data Summary

SAMPLE SUMMARY																
Location Description		MB Larson 3-25 Spill														
Sample Type		Soil														
LABORATORY DATA SUMMARY																
Sample ID		MBLAR325-S51	MBLAR325-S51	MBLAR325-S52	MBLAR325-S52	MBLAR325-S53	MBLAR325-S53	MBLAR325-S54	MBLAR325-S54	MB Larson 3-25 (ORIGIN)	MBLC325-BG1	MBLARBC11X25-BG1	COGCC TABLE 916-1 CONCENTRATION LEVELS	ECMC TABLE 915-1 CONCENTRATION LEVELS Residential Soil Levels Protection of Groundwater	UNITS	
Depth		0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	3"				
Sample Date		6/17/2019	11/13/2024	6/17/2019	11/13/2024	6/17/2019	11/13/2024	6/17/2019	11/13/2024	8/10/2022	10/25/2018	8/26/2021				
Analytical Parameters																
TPH																
TPH Gasoline Range Organics		NT	0.126	NT	0.0913 J	NT	0.114	NT	0.14	0.166	NT	NT	500	500	mg/kg	
TPH Diesel Range Organics		NT	7.64	NT	37.3	NT	26.2	NT	8.15	<4.00	NT	NT				
TPH Oil Range Organics		NT	30.3	NT	146	NT	107	NT	35.1	4.79	NT	NT				
RLS																
Benzene		NT	<0.001	NT	<0.001	NT	<0.001	NT	<0.001	NT	NT	NT	0.17	1.2	0.0026	mg/kg
Toluene		NT	<0.005	NT	<0.005	NT	<0.005	NT	<0.005	NT	NT	NT	85	490	0.69	mg/kg
Ethylbenzene		NT	<0.0025	NT	<0.0025	NT	<0.0025	NT	<0.0025	NT	NT	NT	100	5.8	0.78	mg/kg
Total Xylene		NT	<0.0065	NT	<0.0065	NT	<0.0065	NT	<0.0065	NT	NT	NT	175	9.9		mg/kg
1,2,4-Trimethylbenzene		NT	<0.005	NT	<0.005	NT	<0.005	NT	<0.005	NT	NT	NT	NA	30	0.0081	mg/kg
1,3,5-Trimethylbenzene		NT	<0.005	NT	<0.005	NT	<0.005	NT	<0.005	NT	NT	NT	NA	27	0.0067	mg/kg
Metals																
Arsenic		NT	6.34	NT	7.91	NT	6.41	NT	7.47	5.86	6.2	4.7	0.39	0.68	0.29	mg/kg
Barium		NT	76.3	NT	123	NT	191	NT	193	58.6	100	74	15,000	82		mg/kg
Cadmium		NT	0.147 J	NT	0.241 J	NT	0.147 J	NT	0.241 J	0.233 J	0.21 J	0.036 J	70	0.38		mg/kg
Chromium		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NA		mg/kg
Copper		NT	13.9	NT	12.8	NT	10.8	NT	13.1	11.7	13	11	3,100	3,100	46	mg/kg
Lead		NT	14.6	NT	15.1	NT	12.9	NT	14.3	14.9	11	13	400	14		mg/kg
Mercury		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	23	NA		mg/kg
Nickel		NT	17.2	NT	17.4	NT	14.4	NT	16.9	15.9	12	12	1,600	1,500	26	mg/kg
Selenium		NT	1.39 J	NT	1.95 J	NT	1.25 J	NT	1.25 J	<2.00	0.89	1.1	390	390	0.26	mg/kg
Silver		NT	<0.500	NT	<0.500	NT	<0.500	NT	<0.500	<1.00	<0.049	0.061 J	390	390	0.8	mg/kg
Zinc		NT	76.5	NT	73.8	NT	58.8	NT	72.7	61.6	63	55	23,000	23,000	370	mg/kg
SAM Metals Analysis																
Calcium		680	NT	930	NT	910	NT	200	NT	NT	750	440	NA	NA	NA	mg/L
Magnesium		59	NT	80	NT	72	NT	27	NT	NT	13	490	NA	NA	NA	mg/L
Sodium		2492	NT	690	NT	250	NT	380	NT	NT	5.8	1200	NA	NA	NA	mg/L
Sodium Adsorption Ratio		24	0.162	5.9	6.6	2.1	4.59	6.6	1.21	0.0445	0.057	8.6	<12	<6	<6	ratio
Polynuclear Aromatic Hydrocarbons																
Acenaphthene		NT	<0.006	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	1,000	380	0.55	mg/kg
Anthracene		NT	<0.006	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	1,000	1,800	5.8	mg/kg
Benzo(a)anthracene		NT	0.00189 J	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	0.22	1.1	0.011	mg/kg
Benzo(b)fluoranthene		NT	<0.006	NT	0.00256 J	NT	0.00274 J	NT	<0.006	<0.006	NT	NT	0.22	1.1	0.3	mg/kg
Benzo(k)fluoranthene		NT	<0.006	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	2.2	11.0	2.9	mg/kg
Benzo(a)pyrene		NT	<0.006	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	0.022	0.11	0.24	mg/kg
Chrysene		NT	<0.006	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	22	110	9	mg/kg
Dibenz(a,h)anthracene		NT	<0.006	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	0.022	0.11	0.096	mg/kg
Fluoranthene		NT	0.0008 J	NT	0.00233 J	NT	<0.006	NT	<0.006	<0.006	NT	NT	1,000	240	8.9	mg/kg
Fluorene		NT	0.00265 J	NT	<0.006	NT	<0.006	NT	<0.006	<0.006	NT	NT	1,000	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene		NT	<0.006	NT	0.00189 J	NT	<0.006	NT	<0.006	<0.006	NT	NT	0.22	1.1	0.38	mg/kg
1-methylnaphthalene		NT	0.00526 J	NT	<0.02	NT	<0.02	NT	<0.02	<0.02	NT	NT	NA	18.00	0.006	mg/kg
2-methylnaphthalene		NT	0.0054 J	NT	<0.02	NT	<0.02	NT	<0.02	<0.02	NT	NT	NA	24.00	0.019	mg/kg
Naphthalene		NT	0.0093 J	NT	<0.02	NT	<0.02	NT	0.00427 J	<0.002	NT	NT	23	2	0.0038	mg/kg
Phenanthrene		NT	0.00553 J	NT	0.00236 J	NT	0.00206 J	NT	<0.006	<0.006	NT	NT	1,000	180	1.3	mg/kg
General Chemistry																
Chromium, Hexavalent		NT	<1.80	NT	<1.80	NT	<1.80	NT	<1.80	0.300 J	0.68 J	<1.0	25	0.3	0.00067	mg/kg
Chromium, Trivalent		NT	NT	NT	NT	NT	NT	NT	NT	8.8	NT	NT	120,000	NA	NA	mg/kg
Hot Water Soluble Boron		NT	0.876	NT	1.86	NT	0.867	NT	0.704	0.772	NT	3.2	2	2	2	mg/L
Specific Conductivity		17	2.42	6.4	6.35	6.9	3.9	3.0	0.463	1.97	4.9	12.0	<4 or 2 x the background	<4	<4	mmhos/cm
pH		7.91	7.56	7.68	7.84	7.87	7.83	8.64	8.60	7.79	7.63	7.28		6-8.3	6-8.3	su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

nd - not detected

NT - not tested

NA - not available

NT - not tested

mg/kg = milligrams per kilogram
mg/L = milligrams per liter
J = indicate an estimated value
nd/not det = not detected
na = not available
nt = not available
nt = not available

Over COGCC Table 915-1 concentration levels but under BACKGROUND level
Over COGCC Table 915-1 concentration levels and not under BACKGROUND level
Over COGCC Table 915-1 concentration levels