Table 1
Cascade Creek 604-12-13
Soil Characterization Sampling Summary

LABORATORY DATA SUMMARY													
Sample ID	S1	S2	S3	100719/ 12-13/S3/0-6"	100719/ 12-13/S3/6-12"	052120SS3R	S4	S5	S6	052120SS7	052120SS8	**COGCC TABLE 910-1 CONCENTRATION LEVELS**	
Sample Depth	0-6"	16-20"	0-8"	0-6"	6-12"	0-6"	0-4"	0-6"	0-4"	0-6"	0-6"		
Sample Date	5/7/2019	5/7/2019	5/7/2019	10/7/2019	10/7/2019	5/21/2020	5/7/2019	5/7/2019	5/7/2019	5/21/2020	5/21/2020		
Longitude N	39.55506	39.55503	39.55503	39.55503	39.55503	39.555041	39.55502	39.55503	39.5551	39.555036	39.555045		
Latitude W	-108.23287	-108.23286	-108.23283	-108.23283	-108.23283	-108.232831	-108.23279	-108.23266	-108.23266	-108.232813	-108.232851		
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab		
Lab ID	L1096305	L1096305	L109635	L1147323	L1147323	L1221508	L1096305	L109635	L1096305	L1221508	L1221508		
Sample Description	Spill Characterization - Up Gradient	Spill Characterization - Flow Path	Spill Characterization - Flow Path	SS3-Followup Verification	SS3-Followup Verification	SS3-Followup Verification	Spill Characterization - Flow Path	Spill Characterization - Flow Path	Spill Characterization - Down Gradient	Spill Characterization - Flow Path	Spill Characterization - Flow Path		
Analytical Parameters													**UNITS**
TPH													
TPH Diesel Range Organics	44.6	71.4	**6930**	**681**	**544**	21.4	24.8	15.4	21.2	190	30.2	500	mg/kg
TPH Gasoline Range Organics	ND	ND	**0.17**	**ND**	**ND**	ND	ND	ND	ND	ND	ND		
BTEX													
Benzene	0.000958	0.00108	0.00083	ND	ND	NT	0.00095	0.00103	0.00113	NT	NT	0.17	mg/kg
Toluene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	85	mg/kg
Ethylbenzene	0.000544	ND	ND	ND	ND	NT	0.000514	0.000802	0.000695	NT	NT	100	mg/kg
Total Xylene	ND	ND	ND	ND	ND	NT	ND	ND	0.00169	NT	NT	175	mg/kg
Metals													
Arsenic	**<2.00**	**<2.00**	**<2.00**	**3.36**	**3.05**	NT	**2.35**	**2.51**	**<2.00**	NT	NT	0.39 / 8.8*	mg/kg
Barium	362	279	430	412	324	NT	299	304	294	NT	NT	15,000	mg/kg
Cadmium	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	70	mg/kg
Chromium III	42.1	37.5	30.8	42.9	40.2	NT	41.4	41.9	42	NT	NT	120,000	mg/kg
Chromium VI	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	23	mg/kg
Copper	16.9	13.3	11.2	18	16.1	NT	12.9	12.7	18	NT	NT	3,100	mg/kg
Lead	32.3	12.3	8.75	17.3	12.8	NT	13.2	14.6	21.9	NT	NT	400	mg/kg
Mercury	0.0735	0.0342	0.0392	ND	ND	NT	0.034	0.0413	0.0418	NT	NT	23	mg/kg
Nickel	22.1	19.5	13.2	28.8	29.2	NT	23.7	20.9	22.6	NT	NT	1,600	mg/kg
Selenium	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	390	mg/kg
Silver	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	390	mg/kg
Zinc	60.8	44.2	35.5	52.5	48.3	NT	44	46.1	49	NT	NT	23,000	mg/kg
SAR Metal Analysis													
Sodium Adsorption Ratio	1.00	4.19	5.50	8.16	5.65	NT	**16.20**	3.75	2.03	NT	NT	<12	ratio
Polynuclear Aromatic Hyrdrocarbons													
Acenaphthene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	1,000	mg/kg
Anthracene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	1,000	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	0.22	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	2.2	mg/kg
Chrysene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	0.022	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	1,000	mg/kg
Fluorene	ND	ND	0.0372	ND	ND	NT	ND	ND	ND	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	NT	0.22	mg/kg
Napthalene	ND	ND	0.026	ND	ND	NT	ND	ND	ND	NT	NT	23	mg/kg
Pyrene	ND	ND	ND	0.00738	ND	NT	ND	ND	ND	NT	NT	1,000	mg/kg
General Chemistry													
Specific Conductivity	0.062	0.239	0.279	0.172	0.299	NT	0.297	0.176	0.111	NT	NT	<4 or 2 x the background	mmhos/cm
pH	8.79	**9.49**	**9.87**	**10**	**9.67**	NT	8.94	**9.09**	**9.19**	NT	NT	6-9	su

mg/kg - milligrams per kilogram
mg/L - milligrams per liter
J - indicates an estimated value
mmhos/cm - millimhos per centimeter
mv - millivolts
su - standard units
NT - not tested

NT - parameter was not tested
ND - not detected above method detection limit
* - background sample L524098, BG-SW 4 IN, 6/29/2011 (8.8 mg/kg)
Over COGCC Table 910-1 concentration levels but under BACKGROUND level.
Over COGCC Table 910-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 910-1 concentration levels