Hill 9-31
Pipeline Leak
Soil Sample Summary

Backgrounds from other well pads nearby

LABORATORY DATA SUMMARY											
Sample ID	Ski 31-1 BGN	Ski 31-1 BGS#2	Hill 10-31 BG Pothole	Pipeline Leak N1	Pipeline Leak S1	Pipeline Leak E1	Pipeline Leak W1	Pipeline Leak BOT	**ECMC TABLE 915-1 CONCENTRATION LEVELS**		
Sample Depth	0-6"	9"	3.5'	5'	5'	5'	5'	7'			
Longitude	-108.762365	-108.762441	-108.772493	-108.772250	-108.772250	-108.772237	-108.772257	-108.772256			
Latitude	40.098613	40.097701	40.098443	40.096437	40.096404	40.096423	40.096421	40.096427			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Background North	Background South #2	Background Pothole	North Wall Sample #1	South Wall Sample #1	East Wall Sample #1	West Wall Sample#1	Bottom Sample #1			
Sample Date	6/27/2022	5/31/2023	10/26/2023	7/8/2024	7/8/2024	7/8/2024	7/8/2024	7/8/2024			
Analytical Parameters									**Residential Soil Screening Level**	**Protection of Groundwater**	**UNITS**
TPH											
TPH Gasoline Range Organics	NA	NT	NA	0.683	0.153	7.4	1.1	4.95	500		mg/kg
TPH Diesel Range Organics [C10-C28]	NA	NT	NA	51.7	1060	216	604	42.1			
TPH Oil Range Organics [C28-C36]	NA	NT	NA	58.3	438	107	286	23.3			
TOTAL TPH	NA	NT	NA	**110.683**	**1498.153**	**330.4**	**891.1**	**70.35**			
BTEX											
Benzene	NA	NT	NA	<0.000467	0.000606	0.00173	0.001	0.00143	1.2	0.0026	mg/kg
Toluene	NA	NT	NA	<0.00130	0.00222	0.00358	0.00153	0.0031	490	0.69	mg/kg
Ethylbenzene	NA	NT	NA	<0.000737	<0.000737	<0.000737	<0.000737	<0.000737	5.8	0.78	mg/kg
Total Xylenes	NA	NT	NA	<0.000880	0.00174	0.02200	0.00170	0.00530	58	9.9	mg/kg
TMB											
1,2,4-Trimethylbenzene	NA	NT	NA	<0.00158	<0.00158	0.127	0.0027	0.037	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	NA	NT	NA	<0.00200	0.0151	0.189	0.00983	0.137	27	0.0087	mg/kg
Metals											
Arsenic	**4.47**	**2.93**	**4.66**	**4.8**	**5**	**5.5**	5.4	6	0.68	0.29	mg/kg
Barium	NA	NT	NA	152	125	134	180	158	15,000	82	mg/kg
Cadmium	NA	NT	NA	0.28	0.26	0.38	0.32	0.45	71	0.38	mg/kg
Chromium (Hexavalent)	NA	NT	<0.255	<0.255	<0.255	<0.255	<0.255	<0.255	0.3	0.00067	mg/kg
Copper	NA	NT	NA	11.8	13.2	17.6	14.3	18.1	3,100	46	mg/kg
Lead	NA	NT	NA	15.1	8.9	15.1	10.6	15.4	400	14	mg/kg
Nickel	NA	NT	NA	11.2	10.5	15.7	13.4	16.3	1,500	26	mg/kg
Selenium	NA	NT	NA	ND	ND	0.49	ND	0.59	390	0.26	mg/kg
Silver	NA	NT	NA	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	NA	NT	NA	46.2	41.3	64	50.7	73.6	23,000	370	mg/kg
SAR Metals Analysis											
Sodium Adsorption Ratio	**17.3**	**14.6**	11.1	**14.5**	**19.4**	**26**	**10.2**	**22.8**	<6		ratio
Polynuclear Aromatic Hyrdrocarbons											
Acenaphthene	NA	NT	NA	< 0.00209	0.0237	0.0267	0.0294	< 0.00209	360	0.55	mg/kg
Anthracene	NA	NT	NA	< 0.00230	0.0227	< 0.00230	< 0.00230	< 0.00230	1,800	5.8	mg/kg
Benzo(a)anthracene	NA	NT	NA	< 0.00173	0.0461	0.0123	< 0.00173	< 0.00173	1.1	0.011	mg/kg
Benzo(a)pyrene	NA	NT	NA	< 0.00179	0.0334	0.00842	0.00303	< 0.00179	0.11	0.24	mg/kg
Benzo(b)fluoranthene	NA	NT	NA	< 0.00153	0.0422	0.00967	0.00345	< 0.00153	1.1	0.3	mg/kg
Benzo(k)fluoranthene	NA	NT	NA	< 0.00215	0.017	0.00382	< 0.00215	< 0.00215	11	2.9	mg/kg
Chrysene	NA	NT	NA	< 0.00232	0.0393	0.0163	0.0161	< 0.00232	110	9	mg/kg
Dibenzo(a,h)anthracene	NA	NT	NA	< 0.00172	0.00399	< 0.00172	< 0.00172	< 0.00172	0.11	0.096	mg/kg
Fluoranthene	NA	NT	NA	< 0.00227	0.125	0.0377	0.0151	0.00349	240	8.9	mg/kg
Fluorene	NA	NT	NA	< 0.00205	0.014	0.0383	0.0491	0.00295	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	NA	NT	NA	< 0.00181	0.0183	0.00438	< 0.00181	< 0.00181	1.1	0.98	mg/kg
1-Methylnapthalene	NA	NT	NA	< 0.00449	0.0178	0.516	0.716	0.0244	18	0.006	mg/kg
2-Methylnapthalene	NA	NT	NA	< 0.00427	0.0075	0.282	0.232	0.00583	24	0.019	mg/kg
Napthalene	NA	NT	NA	< 0.00408	< 0.00408	0.0768	0.0151	< 0.00408	2	0.0038	mg/kg
Pyrene	NA	NT	NA	< 0.00200	0.115	0.0334	0.00931	0.00312	180	1.3	mg/kg
General Chemistry											
Boron	NA	NT	NA	1.9	2.5	3.6	4.1	5.1	2		mg/L
Specific Conductivity	**5.430**	1.050	1.920	**17.200**	**21.600**	**25.500**	**9.88**	**11.00**	<4		mmhos/cm
pH (*T8 Qaulifier)	8.21	9.14	7.99	7.67	7.67	7.66	7.82	8.23	6-8.3		su