Hill 9-31
Pipeline Leak
Soil Sample Summary

	Backgrounds from other well pads nearby				Backgrounds from surrounding area			REMOVED			REMOVED					
LABORATORY DATA SUMMARY																
Sample ID	Ski 31-1 BGN	Ski 31-1 BGS#2	Hill 10-31 BG Pothole	Gov 6-1 BG Pothole	Hill 9-31 BGE	Hill 9-31 BGSE	Pipeline Leak N1	Pipeline Leak S1	Pipeline Leak S2	Pipeline Leak E1	Pipeline Leak W1	Pipeline Leak W2	Pipeline Leak BOT	**ECMC TABLE 915-1 CONCENTRATION LEVELS**		
Sample Depth	0-6"	9"	3.5'	6'	1'	1'	5'	5'	5'	5'	5'	5'	7'			
Longitude	-108.762365	-108.762441	-108.772493	-108.771441	-108.772120	-108.772174	-108.772250	-108.772250	-108.772253	-108.772237	-108.772257	-108.772229	-108.772256			
Latitude	40.098613	40.097701	40.098443	40.090899	40.096404	40.096292	40.096437	40.096404	40.096401	40.096423	40.096421	40.096416	40.096427			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Background North	Background South #2	Background Pothole	Background Pothole	Background East	Background Southeast	North Wall Sample #1	South Wall Sample #1	South Wall Sample #2	East Wall Sample #1	West Wall Sample#1	West Wall Sample #2	Bottom Sample #1			
Sample Date	6/27/2022	5/31/2023	10/26/2023	4/9/2024	8/5/2024	8/5/2024	7/8/2024	7/8/2024	8/5/2024	7/8/2024	7/8/2024	8/5/2024	7/8/2024			
Analytical Parameters														**Residential Soil Screening Level**	**Protection of Groundwater**	**UNITS**
TPH																
TPH Gasoline Range Organics	NA	NT	NA	NT	NA	NA	0.683	0.153	0.0252	7.4	1.1	0.036	4.95	500		mg/kg
TPH Diesel Range Organics [C10-C28]	NA	NT	NA	NT	NA	NA	51.7	1060	<1.61	216	604	<1.61	42.1			
TPH Oil Range Organics [C28-C36]	NA	NT	NA	NT	NA	NA	58.3	438	7.41	107	286	7.71	23.3			
TOTAL TPH	NA	NT	NA	NT	NA	NA	**110.683**	**1498.153**	**7.43**	**330.4**	**891.1**	**7.746**	**70.35**			
BTEX																
Benzene	NA	NT	NA	NT	NA	NA	<0.000467	0.000606	<0.000467	0.00173	0.001	<0.000467	0.00143	1.2	0.0026	mg/kg
Toluene	NA	NT	NA	NT	NA	NA	<0.00130	0.00222	<0.00130	0.00358	0.00153	<0.00130	0.0031	490	0.69	mg/kg
Ethylbenzene	NA	NT	NA	NT	NA	NA	<0.000737	<0.000737	<0.000737	<0.000737	<0.000737	<0.000737	<0.000737	5.8	0.78	mg/kg
Total Xylenes	NA	NT	NA	NT	NA	NA	<0.000880	0.00174	<0.000880	0.02200	0.00170	<0.000880	0.00530	58	9.9	mg/kg
TMB																
1,2,4-Trimethylbenzene	NA	NT	NA	NT	NA	NA	<0.00158	<0.00158	<0.00158	0.127	0.0027	<0.00158	0.037	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	NA	NT	NA	NT	NA	NA	<0.00200	0.0151	<0.00200	0.189	0.00983	<0.00200	0.137	27	0.0087	mg/kg
Metals																
Arsenic	**4.47**	**2.93**	**4.66**	**3.92**	**5.44**	**5.06**	**4.8**	**5**	**5.07**	**5.5**	5.4	5.17	6	0.68	0.29	mg/kg
Barium	NA	NT	NA	NT	NA	NA	152	125	183	134	180	158	158	15,000	82	mg/kg
Cadmium	NA	NT	NA	NT	NA	NA	0.28	0.26	0.432	0.38	0.32	0.307	0.45	71	0.38	mg/kg
Chromium (Hexavalent)	NA	NT	<0.255	NT	NA	NA	<0.255	<0.255	<0.255	<0.255	<0.255	<0.255	<0.255	0.3	0.00067	mg/kg
Copper	NA	NT	NA	NT	NA	NA	11.8	13.2	16.9	17.6	14.3	17.3	18.1	3,100	46	mg/kg
Lead	NA	NT	NA	NT	NA	NA	15.1	8.9	13.5	15.1	10.6	12.4	15.4	400	14	mg/kg
Nickel	NA	NT	NA	NT	NA	NA	11.2	10.5	14.5	15.7	13.4	14.4	16.3	1,500	26	mg/kg
Selenium	NA	NT	NA	NT	NA	NA	ND	ND	0.936	0.49	ND	0.894	0.59	390	0.26	mg/kg
Silver	NA	NT	NA	NT	NA	NA	ND	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	NA	NT	NA	NT	NA	NA	46.2	41.3	66.4	64	50.7	57.5	73.6	23,000	370	mg/kg
SAR Metals Analysis																
Sodium Adsorption Ratio	**17.3**	**14.6**	11.1	**56.1**	2.52	0.978	**14.5**	**19.4**	**0.869**	**26**	**10.2**	**3.67**	**22.8**	<6		ratio
Polynuclear Aromatic Hyrdrocarbons																
Acenaphthene	NA	NT	NA	NT	NA	NA	< 0.00209	0.0237	< 0.00209	0.0267	0.0294	< 0.00209	< 0.00209	360	0.55	mg/kg
Anthracene	NA	NT	NA	NT	NA	NA	< 0.00230	0.0227	< 0.00230	< 0.00230	< 0.00230	< 0.00230	< 0.00230	1,800	5.8	mg/kg
Benzo(a)anthracene	NA	NT	NA	NT	NA	NA	< 0.00173	0.0461	< 0.00173	0.0123	< 0.00173	< 0.00173	< 0.00173	1.1	0.011	mg/kg
Benzo(a)pyrene	NA	NT	NA	NT	NA	NA	< 0.00179	0.0334	< 0.00179	0.00842	0.00303	< 0.00179	< 0.00179	0.11	0.24	mg/kg
Benzo(b)fluoranthene	NA	NT	NA	NT	NA	NA	< 0.00153	0.0422	< 0.00153	0.00967	0.00345	< 0.00153	< 0.00153	1.1	0.3	mg/kg
Benzo(k)fluoranthene	NA	NT	NA	NT	NA	NA	< 0.00215	0.017	< 0.00215	0.00382	< 0.00215	< 0.00215	< 0.00215	11	2.9	mg/kg
Chrysene	NA	NT	NA	NT	NA	NA	< 0.00232	0.0393	< 0.00232	0.0163	0.0161	< 0.00232	< 0.00232	110	9	mg/kg
Dibenzo(a,h)anthracene	NA	NT	NA	NT	NA	NA	< 0.00172	0.00399	< 0.00172	< 0.00172	< 0.00172	< 0.00172	< 0.00172	0.11	0.096	mg/kg
Fluoranthene	NA	NT	NA	NT	NA	NA	< 0.00227	0.125	< 0.00227	0.0377	0.0151	< 0.00227	0.00349	240	8.9	mg/kg
Fluorene	NA	NT	NA	NT	NA	NA	< 0.00205	0.014	< 0.00205	0.0383	0.0491	< 0.00205	0.00295	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	NA	NT	NA	NT	NA	NA	< 0.00181	0.0183	< 0.00181	0.00438	< 0.00181	< 0.00181	< 0.00181	1.1	0.98	mg/kg
1-Methylnapthalene	NA	NT	NA	NT	NA	NA	< 0.00449	0.0178	< 0.00449	0.516	0.716	< 0.00449	0.0244	18	0.006	mg/kg
2-Methylnapthalene	NA	NT	NA	NT	NA	NA	< 0.00427	0.0075	< 0.00427	0.282	0.232	< 0.00427	0.00583	24	0.019	mg/kg
Napthalene	NA	NT	NA	NT	NA	NA	< 0.00408	< 0.00408	< 0.00408	0.0768	0.0151	< 0.00408	< 0.00408	2	0.0038	mg/kg
Pyrene	NA	NT	NA	NT	NA	NA	< 0.00200	0.115	< 0.00200	0.0334	0.00931	< 0.00200	0.00312	180	1.3	mg/kg
General Chemistry																
Boron	NA	NT	NA	NA	NA	NA	1.9	2.5	1.1	3.6	4.1	1.85	5.1	2		mg/L
Specific Conductivity	**5.430**	1.050	1.920	**4.950**	5.050	0.478	**17.200**	**21.600**	**0.513**	**25.500**	**9.88**	**5.42**	**11.00**	<4		mmhos/cm
pH (*T8 Qaulifier)	8.21	9.14	7.99	**9.21**	7.91	8.28	7.67	7.67	8.27	7.66	7.82	7.85	8.23	6-8.3		su