

**TABLE 1**  
**CANEPA 6-22**  
**SOIL SAMPLE FIELD DATA SUMMARY TABLE**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
<b>Wellhead Soil Samples</b>							
WH-B01 @ 6'	1/25/2024	6	0.6	N/S	N/O	40.26081076, -104.9396312	Y
WH-N01 @ 5'	1/25/2024	5	0.3	N/S	N/O	40.26082016, -104.9396346	N
WH-S01 @ 5'	1/25/2024	5	0.2	N/S	N/O	40.26079976, -104.9396302	N
WH-E01 @ 5'	1/25/2024	5	0.3	N/S	N/O	40.26081226, -104.9396168	N
WH-W01 @ 5'	1/25/2024	5	0.3	N/S	N/O	40.26081044, -104.9396476	N
WHS-N01 @ 3"	1/25/2024	0.25	0.4	N/S	N/O	40.26084625, -104.9396312	N
WHS-S01 @ 3"	1/25/2024	0.25	0.2	N/S	N/O	40.26077487, -104.9396279	N
WHS-E01 @ 3"	1/25/2024	0.25	0.4	N/S	N/O	40.26080813, -104.9395769	N
WHS-W01 @ 3"	1/25/2024	0.25	0.5	N/S	N/O	40.26080609, -104.9396795	N
<b>Flowline Soil Samples</b>							
FL-B01 @ 4'	1/25/2024	4	0.4	N/S	N/O	40.26082179, -104.9396146	Y
FL-B02 @ 4'	1/26/2024	4	0.6	N/S	N/O	40.26252882, -104.9356359	Y
FL-B03 @ 5'	1/31/2024	5	0.9	N/S	N/O	40.2624737976646, -104.935649280181	N
FL-B04 @ 3'	1/31/2024	3	0.4	N/S	N/O	40.2623998526189, -104.93589181253	N
FL-B05 @ 3'	1/31/2024	3	0.0	N/S	N/O	40.2622765789141, -104.936152054042	N
FL-B06 @ 3'	1/31/2024	3	0.0	N/S	N/O	40.2621292458704, -104.936397708326	N
FL-B07 @ 3'	1/31/2024	3	0.3	N/S	N/O	40.2619872158591, -104.936608298105	N
FL-B08 @ 3'	1/31/2024	3	0.2	N/S	N/O	40.2619278594496, -104.93670320974	N
FL-B09 @ 3'	1/31/2024	3	0.0	N/S	N/O	40.2618056515363, -104.936856997308	N
FL-B10 @ 3'	1/31/2024	3	1.2	N/S	N/O	40.2616190188178, -104.937073930081	N
FL-B11 @ 3'	1/31/2024	3	0.6	N/S	N/O	40.2614057444621, -104.93729068349	N
FL-B12 @ 3'	1/31/2024	3	0.7	N/S	N/O	40.2611835234954, -104.937481679182	N
FL-B13 @ 3'	1/31/2024	3	0.0	N/S	N/O	40.2609801080733, -104.937694167309	N
FL-B14 @ 3'	1/31/2024	3	0.2	N/S	N/O	40.2608514312294, -104.93796526572	Y
FL-B15 @ 3'	1/31/2024	3	1.4	N/S	N/O	40.2608444854356, -104.938330076393	N
FL-B16 @ 3'	1/31/2024	3	1.2	N/S	N/O	40.26084660023, -104.938675537401	N
FL-B17 @ 3'	1/31/2024	3	1.7	N/S	N/O	40.2608500314281, -104.93899815483	N
FL-B18 @ 3'	1/31/2024	3	0.8	N/S	N/O	40.2608269733316, -104.939332079449	N
<b>Background Soil Samples</b>							
WH-BG01 @ 3'	1/25/2024	3	0.2	N/S	N/O	40.26083866, -104.9397697	Y
WH-BG01 @ 6'	1/25/2024	6	0.3	N/S	N/O	40.26083866, -104.9397697	Y
WH-BG02 @ 3'	1/25/2024	3	0.1	N/S	N/O	40.26094146, -104.9396298	Y
WH-BG02 @ 6'	1/25/2024	6	0.3	N/S	N/O	40.26094146, -104.9396298	Y
WH-BG03 @ 3'	1/25/2024	3	0.2	N/S	N/O	40.26068718, -104.9395569	Y
WH-BG03 @ 6'	1/25/2024	6	0.2	N/S	N/O	40.26068718, -104.9395569	Y
<b>Background Soil Samples (Warner 23-6)</b>							
WH-BG01 @ 3'	7/15/2022	3	0.5	N/S	N/O	40.253376, -104.935471	Y
WH-BG01 @ 6'	7/15/2022	6	1.1	N/S	N/O	40.253376, -104.935471	Y
WH-BG02 @ 3'	7/15/2022	3	1.2	N/S	N/O	40.253280, -104.935368	Y
WH-BG02 @ 6'	7/15/2022	6	1.0	N/S	N/O	40.253280, -104.935368	Y
WH-BG03 @ 3'	7/15/2022	3	1.3	N/S	N/O	40.253163, -104.935520	Y
WH-BG03 @ 6'	7/15/2022	6	1.3	N/S	N/O	40.253163, -104.935520	Y
WH-BG04 @ 3'	7/15/2022	3	1.6	N/S	N/O	40.253310, -104.935704	Y
WH-BG04 @ 6'	7/15/2022	6	1.9	N/S	N/O	40.253310, -104.935704	Y

**Notes:**

bgs = below ground surface  
PID = photoionization detector  
ppm-v = parts per million by volume

HC = hydrocarbon  
N/S = No Staining  
N/O = No Odor

TABLE 2  
CANEPA 6-22  
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs  
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
ECMC standards for soil (mg/kg) <sup>(2)</sup>		1.2	490	5.8	58	500			2	30	27
Wellhead Soil Samples											
WH-B01 @ 6'	1/25/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
Flowline Soil Samples											
FL-B01 @ 4'	1/25/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
FL-B02 @ 4'	1/26/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
FL-B14 @ 3'	1/31/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200

**Notes:**

<sup>(1)</sup> ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

<sup>(2)</sup> ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC= Energy and Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

**TABLE 3**  
**CANEPA 6-22**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<i>ECMC standards for soil (mg/kg)</i> <sup>(1)</sup>			6 - 8.3	<6	<4	2
<i>Background Limits</i>			8.45 (@6')	8.52 (@3')	10.6 (@6')	6.94 (@3')
<b>Wellhead Samples</b>						
WH-B01 @ 6'	1/25/2024	6	<b>8.43*</b>	0.762	0.465	0.481
<b>Flowline Samples</b>						
FL-B01 @ 4'	1/25/2024	4	8.26	0.282	0.996	0.220
FL-B02 @ 4'	1/26/2024	4	<b>8.36*</b>	0.716	0.468	1.01
FL-B14 @ 3'	1/31/2024	4	8.15	3.29	<b>4.67*</b>	1.23
<b>Background Soil Samples</b>						
WH-BG01 @ 3'	1/25/2024	3	8.40	0.622	0.403	0.409
WH-BG01 @ 6'	1/25/2024	6	8.45	0.694	0.468	0.704
WH-BG02 @ 3'	1/25/2024	3	8.31	0.663	0.420	0.613
WH-BG02 @ 6'	1/25/2024	6	8.44	0.700	0.470	0.792
WH-BG03 @ 3'	1/25/2024	3	8.36	0.749	0.431	0.802
WH-BG03 @ 6'	1/25/2024	6	8.43	1.23	0.613	0.874
<b>Background Soil Samples (Warner 23-6)</b>						
WH-BG01 @ 3'	7/15/2022	3	8.37	5.28	3.98	1.51
WH-BG01 @ 6'	7/15/2022	6	8.15	5.50	6.66	2.23
WH-BG02 @ 3'	7/15/2022	3	8.15	3.05	5.85	4.47
WH-BG02 @ 6'	7/15/2022	3	8.12	2.83	5.95	4.27
WH-BG03 @ 3'	7/15/2022	6	7.95	1.65	4.41	1.32
WH-BG03 @ 6'	7/15/2022	6	8.00	4.81	7.11	2.66
WH-BG04 @ 3'	7/15/2022	3	8.18	8.52	17.1	6.94
WH-BG04 @ 6'	7/15/2022	6	8.20	7.95	10.6	5.44

**Notes:**

<sup>(1)</sup> Standards for soil are taken from ECMC Table 915-1, effective January 15, 2021

ECMC= Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

Values presented in **BOLD\*** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations, but were within background limits.

TABLE 4  
CANEPa 6-22  
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs  
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
<i>ECMC standards for soil (mg/kg) <sup>(1)</sup></i>		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
<i>ECMC standards for soil (mg/kg) <sup>(2)</sup></i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
<b>Wellhead Soil Samples</b>															
WH-B01 @ 6"	1/25/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
<b>Flowline Soil Samples</b>															
FL-B01 @ 4'	1/25/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
FL-B02 @ 4'	1/26/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
FL-B14 @ 3'	1/31/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

**Notes:**

<sup>(1)</sup> Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

<sup>(2)</sup> Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

**TABLE 5**  
**CANEPA 6-22**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - METALS**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
<i>ECMC standards for soil (mg/kg) <sup>(1)</sup></i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) <sup>(2)</sup></i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
<i>Site Specific Background Limits</i>		9.96 (@3') 9.76 (@6')	233 (@3') 251 (@6')	0.260	NA	18.5	14.7	23.8	0.418 (@6')	NA	73.8
<b>Wellhead Soil Samples</b>											
WH-B01 @ 6'	1/25/2024	<b>6.06*</b>	<b>191*</b>	0.147	*<0.5	<8.96	8.87	11.9	0.181	<0.0896	39.6
<b>Flowline Soil Samples</b>											
FL-B01 @ 4'	1/25/2024	<b>6.37*</b>	<b>137*</b>	0.172	*<0.5	11.1	9.95	13.5	0.188	<0.0935	48.1
FL-B02 @ 4'	1/26/2024	<b>5.86*</b>	<b>132*</b>	0.138	*<0.5	12.0	9.01	13.8	0.162	<0.0836	49.1
FL-B14 @ 3'	1/31/2024	<b>6.93*</b>	<b>197*</b>	0.268	*<0.5	13.0	12.4	17.5	<b>0.399*</b>	<0.0890	64.0
<b>Background Soil Samples</b>											
WH-BG01 @ 3'	1/25/2024	6.46	136	0.159	<0.5	11.0	9.26	14.1	0.161	<0.0906	46.9
WH-BG01 @ 6'	1/25/2024	6.55	147	0.161	<0.5	11.7	9.70	14.4	0.183	<0.0956	49.7
WH-BG02 @ 3'	1/25/2024	7.97	143	0.208	<0.5	13.7	11.7	16.6	0.290	<0.0872	58.5
WH-BG02 @ 6'	1/25/2024	7.81	158	0.169	<0.5	11.7	10.2	14.6	0.253	<0.0969	48.9
WH-BG03 @ 3'	1/25/2024	7.46	187	0.209	<0.5	14.8	11.8	19.1	0.244	<0.0917	59.1
WH-BG03 @ 6'	1/25/2024	6.64	201	0.208	<0.5	12.9	10.8	15.9	0.335	<0.0919	53.0

**Notes:**

<sup>(1)</sup> Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

<sup>(2)</sup> Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC= Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

\* = compound is in accordance with the ECMC Table 915-1 Footnote 9.

Values presented in **BOLD\*** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations, but were within site-specific background limits.



**TABLE 4**  
**CANEPA 6-22**  
**SOIL VAPOR DATA SUMMARY TABLE**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Vapor Point ID	Date	Time	Methane (%)	Carbon Dioxide (%)	Carbon Monoxide (PPM)	Oxygen (%)	Hydrogen Sulfide (PPM)	Sample Collected (Y or N)
SVP-01 @ 8'	1/30/2024	1150	0.0	0.9	0	20.7	1	N
SVP-02 @ 8'	1/30/2024	1152	0.0	1.2	0	20.6	1	N
SVP-03 @ 5'	1/30/2024	1155	0.0	0.6	0	20.7	1	N
SVP-04 @ 5'	1/30/2024	1157	0.0	0.7	0	20.7	1	N
SVP-05 @ 5'	1/30/2024	1200	0.0	0.7	0	20.6	1	N

% = percentage

ppm = parts per million