

TABLE 1
MILLER 7-10
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)
Initial Wellhead Soil Samples							
WH-B01 @ 6'	5/12/2025	6	0.3	N/S	N/O	40.2416931281113, -104.761443524004	Y
WH-RIS @ 4'	5/12/2025	4	1.4	N/S	N/O	40.2417037441365, -104.761425840058	Y
WH-N01 @ 5'	5/12/2025	5	2.2	N/S	N/O	40.2417080593884, -104.761429413061	N
WH-S01 @ 5'	5/12/2025	5	2.6	N/S	N/O	40.2416825519583, -104.761432351826	N
WH-E01 @ 5'	5/12/2025	5	2.8	N/S	N/O	40.2416969173532, -104.761423494547	N
WH-W01 @ 5'	5/12/2025	5	3.1	N/S	N/O	40.2416881092063, -104.761451794698	N
WHS-N01 @ 3"	5/12/2025	0.25	2.0	N/S	N/O	40.2417251050167, -104.761444019211	N
WHS-S01 @ 3"	5/12/2025	0.25	1.6	N/S	N/O	40.2416589120829, -104.761442795782	N
WHS-E01 @ 3"	5/12/2025	0.25	1.7	N/S	N/O	40.2416955546392, -104.761396518418	N
WHS-W01 @ 3"	5/12/2025	0.25	2.3	N/S	N/O	40.2416872066263, -104.761487763362	N
Wellhead Background Soil Samples							
WH-BG01 @ 3'	5/12/2025	3	2.4	N/S	N/O	40.2418586892139, -104.761421897381	Y
WH-BG01 @ 6'	5/12/2025	6	2.1	N/S	N/O	40.2418586892139, -104.761421897381	Y
WH-BG02 @ 3'	5/12/2025	3	1.8	N/S	N/O	40.2418383067207, -104.761347166139	Y
WH-BG02 @ 6'	5/12/2025	6	2.2	N/S	N/O	40.2418383067207, -104.761347166139	Y
WH-BG03 @ 3'	5/12/2025	3	1.7	N/S	N/O	40.2418060793281, -104.761287624411	Y
WH-BG03 @ 6'	5/12/2025	6	2.8	N/S	N/O	40.2418060793281, -104.761287624411	Y

Notes:

bgs = below ground surface
 PID = photoionization detector
 ppm-v = parts per million by volume
BOLD = ECOM Table 915-1 exceedance remaining

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



TABLE 2
MILLER 7-10
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)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>ECMC standards for soil (mg/kg)</i> ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0081	0.0087
<i>ECMC standards for soil (mg/kg)</i> ⁽²⁾		1.2	490	5.8	58	500			30	27
Initial Wellhead Soil Samples										
WH-B01 @ 6'	5/12/2025	<0.00200	<0.0100	<0.0100	<0.100	<0.100	6.59	12.3	<0.00500	<0.00500
WH-RIS @ 4'	5/12/2025	<0.00200	<0.0100	<0.0100	<0.100	<0.100	5.83	16.1	0.0105	0.0106

Notes:

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

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

ECMC = Energy & Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

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
MILLER 7-10
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</i> ⁽¹⁾			6 - 8.3	<6	<4	2
<i>Site-Specific Background Limits</i>			8.61	1.05	0.779	0.223
Initial Wellhead Soil Samples						
WH-B01 @ 6'	5/12/2025	6	9.73	0.465	0.237	<0.200
WH-RIS @ 4'	5/12/2025	4	8.27	0.0688	0.210	<0.200
Wellhead Background Soil Samples						
WH-BG01 @ 3'	5/12/2025	3	8.48	0.327	0.276	0.223
WH-BG01 @ 6'	5/12/2025	6	8.42	0.638	0.371	<0.200
WH-BG02 @ 3'	5/12/2025	3	8.26	0.381	0.274	<0.200
WH-BG02 @ 6'	5/12/2025	6	8.61	1.05	0.327	0.211
WH-BG03 @ 3'	5/12/2025	3	7.83	0.344	0.683	<0.200
WH-BG03 @ 6'	5/12/2025	6	7.94	0.338	0.779	<0.200

Notes:

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

ECMC = Energy & 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 Adsorption Ratio

EC = Electrical Conductivity

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

TABLE 4
MILLER 7-10
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)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</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	0.0038	1.3
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
<i>Initial Wellhead Soil Samples</i>																
WH-B01 @ 6'	5/12/2025	<0.00300	<0.0120	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0330
WH-RIS @ 4'	5/12/2025	<0.00300	<0.0120	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0330

Notes:
⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021
⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission
(<) = Analytical result is less than the indicated laboratory reporting limit
mg/kg = milligrams per kilogram
PAH = Polycyclic Aromatic Hydrocarbons

**TABLE 5
MILLER 7-10
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) ⁽¹⁾</i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
<i>Site-Specific Background Limits (1.25x Buffer Applied)</i>		4.97	246	0.265	N/A	14.7	12.7	13.7	0.603	N/A	70.1
Initial Wellhead Soil Samples											
WH-B01 @ 6'	5/12/2025	2.83*	65.6	<0.200	*<0.300	11.1	10.6	<10.0	0.436*	<0.500	<50.0
WH-RIS @ 4'	5/12/2025	2.37*	156*	<0.200	*<0.300	<10.0	21.6	<10.0	0.322*	<0.500	<50.0
Wellhead Background Soil Samples											
WH-BG01 @ 3'	5/12/2025	1.31	197	0.212	<0.300	<10.0	<10.0	<10.0	0.444	<0.500	<50.0
WH-BG01 @ 6'	5/12/2025	2.43	81.6	<0.200	<0.300	<10.0	<10.0	<10.0	0.327	<0.500	<50.0
WH-BG02 @ 3'	5/12/2025	2.83	80.9	<0.200	<0.300	<10.0	<10.0	<10.0	0.436	<0.500	<50.0
WH-BG02 @ 6'	5/12/2025	3.98	72.8	<0.200	<0.300	11.8	10.2	11.0	0.483	<0.500	56.1
WH-BG03 @ 3'	5/12/2025	2.46	122	<0.200	<0.300	<10.0	<10.0	<10.0	0.292	<0.500	<50.0
WH-BG03 @ 6'	5/12/2025	2.90	110	<0.200	<0.300	<10.0	<10.0	<10.0	0.461	<0.500	<50.0

Notes:

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

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

ECMC = Energy & Carbon Management Commission

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

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

mg/kg = Milligrams per Kilogram

N/A = Not Applicable

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations.

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

