

TABLE 1
KERR-MCGEE 3-14
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)
<i>Active Release Soil Samples</i>							
Initial Waste Characterization @ 1'	05/28/25	1	7.8	Strong HC Staining	Slight HC Odor	40.1435293971677, -104.859751211835	Y
<i>Background Soil Samples</i>							
BG01 @ 6"	05/28/25	0.5	1.2	N/S	N/O	40.1432343010214, -104.859707910583	Y
BG02 @ 6"	05/28/25	0.5	0.7	N/S	N/O	40.1432232153714, -104.859632500316	Y
BG03 @ 6"	05/28/25	0.5	0.9	N/S	N/O	40.1432263376732, -104.859556512968	Y

Notes:

bgs = below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

HC = hydrocarbon

BOLD = ECMC Table 915-1 exceedance remaining

N/S = No Staining

N/O = No Odor

TABLE 2
KERR-MCGEE 3-14
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
Active Release Soil Samples										
Initial Waste Characterization @ 1'	05/28/25	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200

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

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
KERR-MCGEE 3-14
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> ⁽¹⁾			6 - 8.3	<6	<4	2
<i>Background Limits</i>			8.31	0.0315	0.232	N/A
Active Release Soil Samples						
Initial Waste Characterization @ 1'	5/28/2025	1	8.31*	2.78	0.388	0.239
Flowline Soil Samples						
BG01 @ 6"	05/28/25	0.5	8.31	0.0224	0.194	<0.101
BG02 @ 6"	05/28/25	0.5	8.18	0.0315	0.200	<0.101
BG03 @ 6"	05/28/25	0.5	8.23	0.0143	0.232	<0.0997

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 Absorption Ratio

EC = Electrical Conductivity

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

TABLE 4
KERR-MCGEE 3-14
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>Active Release Soil Samples</i>																
Initial Waste Characterization @ 1'	5/28/2025	0.012	0.020	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.003	<0.020

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

TABLE 5
KERR-MCGEE 3-14
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>Background Limits (1.25x Buffer Applied)</i>		2.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Active Release Soil Samples											
Initial Waste Characterization @ 1'	5/28/2025	2.58*	<77.5	<0.359	0.12	<43.5	85.3	<24.6	<0.246	<0.756	<350
Background Soil Samples											
BG01 @ 6"	05/28/25	2.02	<71.8	<0.333	<0.20	<40.3	<12.3	<22.8	<0.228	<0.700	<324
BG02 @ 6"	05/28/25	1.96	<71.8	<0.333	<0.20	<40.3	<12.3	<22.8	<0.228	<0.700	<324
BG03 @ 6"	05/28/25	2.31	<73.5	<0.340	<0.21	<41.2	<12.5	<23.3	<0.233	<0.717	<331

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

N/A = Not Applicable

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

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.

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