

**TABLE 1**  
**HERMAN UPRR 31-31 1**  
**SOIL SAMPLE FIELD DATA SUMMARY TABLE**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Latitude	Longitude	Horizontal GPS Accuracy (ft.)	Submitted for Lab Analysis? (Y/N)
WC01@3"	1/8/2025	0.25	37.4	Staining present	40.1867021	-104.8162877	0.9	Yes
REL-B01@4'	3/18/2025	4	0.6	No Staining	40.1867036	-104.8162923	0.79	Yes
REL-N01@2'	3/18/2025	2	0.5	No Staining	40.1867165	-104.8162954	0.68	Yes
REL-E01@2'	3/18/2025	4	3.5	No Staining	40.1867099	-104.8162721	0.76	Yes
REL-S01@2'	3/18/2025	4	3.2	No Staining	40.1866860	-104.8162838	0.70	Yes
REL-W01@2'	3/18/2025	4	3.1	No Staining	40.1866974	-104.8163028	0.69	Yes
REL-GW01	3/18/2025	4	NM	No Staining	40.1867059	-104.8162886	0.84	Yes
HERMAN UPRR 31-31 1 WELLHEAD BACKGROUND SOIL SAMPLING								
BG01@3"	1/8/2025	0.25	0.3	No Staining	40.1865695	-104.8165496	0.53	Yes
BG02@3"	1/8/2025	0.25	0.2	No Staining	40.1864292	-104.8164573	0.61	Yes
BG03@3"	1/8/2025	0.25	0.4	No Staining	40.1865204	-104.8160683	0.69	Yes
BG04@3"	1/8/2025	0.25	0.4	No Staining	40.1866296	-104.8161383	0.64	Yes

Notes:

ft. bgs = Feet below ground surface

PID = Photoionization detector

ppm = Parts per million

GPS = Global positioning system

NM = Not measured

**TABLE 2**  
**HERMAN UPRR 31-31 1**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (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			0.0081	0.0087
ECMC standards for soil (mg/kg) <sup>(2)</sup>		1.2	490	5.8	58	500			30	27
WC01@3"	1/8/2025	<0.00200	<0.00200	<0.00200	<0.00200	1.53	<25.0	<100	0.0525	<0.00200

Notes:

VOCs = Volatile organic compounds

(1) Standards for soil 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 = Colorado Energy and Carbon Management Commission

mg/kg = Milligrams per kilogram

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

(<) = Concentration below minimum detection limit and/or laboratory reporting limit

**BOLD** = Analytical result is in exceedance of ECMC Table 915-1 soil standards

**TABLE 3**  
**HERMAN UPRR 31-31 1**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	0.0038	1.3
ECMC standards for soil (mg/kg) <sup>(2)</sup>		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	2	180
WC01@3"	1/8/2025	<0.0412	<0.0412	<0.00545	<0.0412	<0.0412	<0.0412	<0.0412	<0.0412	<0.0412	<0.0412	<0.0412	<0.00297	<0.00743	<0.00188	<0.0412

Notes:  
PAHs = Polycyclic aromatic hydrocarbons  
(1) Standards for soil 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 = Colorado Energy and Carbon Management Commission  
mg/kg = Milligrams per kilogram  
Benzo(a)A = Benzo(a)anthracene  
Benzo(b)F = Benzo(b)fluoranthene  
Benzo(k)F = Benzo(k)fluoranthene  
Benzo(a)P = Benzo(a)pyrene  
D (a,h) A = Dibenz(a,h)anthracene  
1,2,3-CD = Indeno(1,2,3-cd)pyrene  
1-M = 1-Methylnaphthalene  
2-M = 2-Methylnaphthalene  
(<) = Concentration below minimum detection limit and/or laboratory reporting limit

**TABLE 3**  
**HERMAN UPRR 31-31 1**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - METALS**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Depth (ft. bgs)	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)
ECMC standards for soil (mg/kg) <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC standards for soil (mg/kg) <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Site-Specific Background Limits (x 1.25)			6.26	333	0.584	0.41	-	50.0	-	1.43	-	-
WC01@3"	1/8/2025	0.25	<b>5.32*</b>	<b>101*</b>	0.380	<b>0.23*</b>	12.4	12.1	12.4	<b>0.299*</b>	0.0982	60.5
HERMAN UPRR 31-31 1 WELLHEAD BACKGROUND SOIL SAMPLING												
BG01@3"	1/8/2025	0.25	4.15	266	0.235	<0.20	18.7	40.0	10.5	0.265	<0.0975	50.3
BG02@3"	1/8/2025	0.25	4.57	114	0.300	<0.20	13.4	17.8	10.5	0.407	<0.0916	61.3
BG03@3"	1/8/2025	0.25	5.01	81.4	0.467	0.33	18.1	17.0	12.3	0.733	0.178	77.4
BG04@3"	1/8/2025	0.25	2.32	57.2	0.295	<0.20	<9.77	10.4	6.11	1.14	0.107	41.0

**Notes:**

(1) Standards for soil 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

ft. bgs = Feet below ground surface

ECMC = Colorado Energy and Carbon Management Commission

mg/kg = Milligrams per kilogram

- = Site specific background limit is not present or does not exceed relevant ECMC Table 915-1 standard

**BOLD** = Analytical result is in exceedance of ECMC Table 915-1 soil standards

\* Result exceeded the ECMC Table 915-1 standard, but was within the site-specific background concentrations x 1.25

(<) = Concentration below minimum detection limit and/or laboratory reporting limit

**TABLE 5**  
**HERMAN UPRR 31-31 1**  
**SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Soil Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC standards for soil <sup>(1)</sup>			6 - 8.3	< 6	< 4	2
Site-Specific Background Limits			-	18.7	12.4	9.22
WC01@3"	1/8/2025	0.25	8.29	5.54	2.00	1.89
HERMAN UPRR 31-31 1 WELLHEAD BACKGROUND SOIL SAMPLING						
BG01@3"	1/8/2025	0.25	6.94	0.710	0.782	0.661
BG02@3"	1/8/2025	0.25	7.04	0.199	0.902	0.896
BG03@3"	1/8/2025	0.25	7.90	18.7	12.4	9.22
BG04@3"	1/8/2025	0.25	8.11	16.1	2.32	9.06

**Notes:**

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

ECMC = Colorado Energy and Carbon Management Commission

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

- = Site specific background limit is not present or does not exceed relevant ECMC Table 915-1 standard