

TABLE 1
UPRC 9-11K
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)
Wellhead Soil Samples							
WH-B01 @ 6'	06/01/22	6	5.1	N/O	N/S	40.237589, -104.784842	Y
WH-N01 @ 5'	06/01/22	5	3.5	N/O	N/S	40.237608, -104.784848	N
WH-S01 @ 5'	06/01/22	5	2.7	N/O	N/S	40.237580, -104.784851	N
WH-E01 @ 5'	06/01/22	5	4.1	N/O	N/S	40.237597, -104.784828	N
WH-W01 @ 5'	06/01/22	5	3.3	N/O	N/S	40.237597, -104.784861	N
WHS-N01 @ 3"	06/01/22	0.25	7.4	N/O	N/S	40.237639, -104.784848	N
WHS-S01 @ 3"	06/01/22	0.25	6.8	N/O	N/S	40.237538, -104.784847	N
WHS-E01 @ 3"	06/01/22	0.25	7.4	N/O	N/S	40.237585, -104.784811	N
WHS-W01 @ 3"	06/01/22	0.25	7.9	N/O	N/S	40.237590, -104.784911	N
Flowline Soil Samples							
FL-B01 @ 5'	06/01/22	5	3.9	N/O	N/S	40.237588, -104.784859	Y
FL-B02 @ 4'	06/01/22	4	1.4	N/O	N/S	40.237164, -104.784825	N
FL-B03 @ 4'	06/01/22	4	1.5	N/O	N/S	40.236738, -104.784840	N
FL-B04 @ 4'	06/01/22	4	1.3	N/O	N/S	40.236319, -104.784855	N
FL-B05 @ 4'	06/01/22	4	2.3	N/O	N/S	40.235937, -104.784837	Y
Wellhead Background Soil Samples							
WH-BG01 @ 3'	06/01/22	3	8.0	N/O	N/S	40.237463, -104.784803	Y
WH-BG01 @ 6'	06/01/22	6	9.0	N/O	N/S	40.237463, -104.784803	Y
WH-BG02 @ 3'	06/01/22	3	5.6	N/O	N/S	40.237573, -104.784692	Y
WH-BG02 @ 6'	06/01/22	6	6.3	N/O	N/S	40.237573, -104.784692	Y
WH-BG03 @ 3'	06/01/22	3	7.8	N/O	N/S	40.237590, -104.785023	Y
WH-BG03 @ 6'	06/01/22	6	5.1	N/O	N/S	40.237590, -104.785023	Y

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

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



TABLE 2
UPRC 9-11K
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)
<i>COGCC standards for soil (mg/kg)⁽¹⁾</i>		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>COGCC standards for soil (mg/kg)⁽²⁾</i>		1.2	490	5.8	58	500			2	30	27
Wellhead Soil Samples											
WH-B01 @ 6'	06/01/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
Flowline Soil Samples											
FL-B01 @ 5'	06/01/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
FL-B05 @ 4'	06/01/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200

Notes:

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

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

COGCC = Colorado Oil and Gas Conservation Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding COGCC 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
UPRC 9-11K
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)
COGCC standards for soil (mg/kg) ⁽¹⁾			6 - 8.3	<6	<4	2
Wellhead Soil Samples						
WH-B01 @ 6'	06/01/22	6	8.40*	0.131	0.416	0.121
Background Soil Samples						
WH-BG01 @ 3'	06/01/22	3	8.53	1.60	0.332	0.256
WH-BG01 @ 6'	06/01/22	6	8.33	2.31	1.44	0.394
WH-BG02 @ 3'	06/01/22	3	8.32	4.57	1.36	<0.100
WH-BG02 @ 6'	06/01/22	6	8.17	8.93	5.79	0.240
WH-BG03 @ 3'	06/01/22	3	8.23	1.48	0.404	0.180
WH-BG03 @ 6'	06/01/22	6	8.42	2.49	2.01	0.671

Notes:

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

COGCC = Colorado Oil and Gas Conservation 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 COGCC Table 915-1 Cleanup Concentrations

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

TABLE 4
UPRC 9-11K
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'	06/02/22	1440	0	0.2	0	20.4	0	N
SVP-02 @ 8'	06/02/22	1445	0	1.7	0	20.1	0	N
SVP-03 @ 5'	06/02/22	1450	0	0.3	0	20.0	0	N
SVP-04 @ 5'	06/02/22	1455	0	0.4	0	19.6	0	N
SVP-05 @ 5'	06/02/22	1500	0	0.9	0	20.2	0	N

% = percentage

ppm = parts per million