

**TABLE 1**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**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 Waste Characterization @ 3"	6/7/2023	0.25	682.8	Slight HC staining	Slight HC odor	40.21801827, -104.9812191	Y
SEP-B01 @ 6'	6/27/2023	6	7.8	Slight HC staining	Slight HC odor	40.21802656, -104.9812083	Y
SEP-N01 @ 3'	6/27/2023	3	1.1	N/S	N/O	40.21803656, -104.9812088	Y
SEP-S01 @ 3'	6/27/2023	3	0.9	N/S	N/O	40.21799863, -104.9812081	Y
SEP-E01 @ 3'	6/27/2023	3	0.9	N/S	N/O	40.21801976, -104.9811759	Y
SEP-W01 @ 3'	6/27/2023	3	0.7	N/S	N/O	40.21801911, -104.981247	Y
SEP-B02 @ 3'	6/27/2023	3	0.6	N/S	N/O	40.2180365, -104.9812964	Y
SEP-B02 @ 6'	6/27/2023	6	3.1	N/S	N/O	40.2180365, -104.9812964	Y
SEP-B03 @ 3'	6/27/2023	3	1.9	N/S	N/O	40.21806588, -104.9812172	Y
SEP-B03 @ 6'	6/27/2023	6	0.9	N/S	N/O	40.21806588, -104.9812172	Y
SEP-B04 @ 3'	6/27/2023	3	0.7	N/S	N/O	40.21802222, -104.9811208	Y
SEP-B04 @ 6'	6/27/2023	6	0.8	N/S	N/O	40.21802222, -104.9811208	Y
SEP-B05 @ 3'	6/27/2023	3	1.6	N/S	N/O	40.21793859, -104.9812313	Y
SEP-B05 @ 6'	6/27/2023	6	22.4	N/S	N/O	40.21793859, -104.9812313	Y
SEP-B06 @ 9'	7/6/2023	9	6.4	N/S	N/O	40.21801501, -104.9812295	Y
SEP-N02 @ 8'	7/6/2023	8	63.8	N/S	N/O	40.21803126, -104.9812282	Y
SEP-E02 @ 8'	7/6/2023	8	23.4	N/S	N/O	40.21801655, -104.9811769	Y
SEP-B07 @ 3"	7/31/2023	0.25	0.3	N/S	N/O	40.21794135, -104.981149	Y
SEP-B08 @ 3"	7/31/2023	0.25	0.1	N/S	N/O	40.21799175, -104.9811439	Y
SEP-B09 @ 3"	7/31/2023	0.25	0.2	N/S	N/O	40.21795449, -104.9812865	Y
SEP-B10 @ 3"	7/31/2023	0.25	0.2	N/S	N/O	40.21799572, -104.9812954	Y
SEP-B11 @ 3"	7/31/2023	0.25	0.3	N/S	N/O	40.21795429, -104.9813587	Y
SEP-B12 @ 3"	7/31/2023	0.25	0.4	N/S	N/O	40.2179917, -104.9813587	Y
SEP-B13 @ 4'	8/17/2023	4	0.3	N/S	N/O	40.21803929, -104.981396	Y
SEP-B14 @ 4'	8/17/2023	4	0.2	N/S	N/O	40.21807359, -104.981384	Y
SEP-B15 @ 4'	8/17/2023	4	0.3	N/S	N/O	40.21813238, -104.9814011	Y
SEP-B16 @ 4'	8/17/2023	4	0.4	N/S	N/O	40.21818037, -104.9814023	Y
SEP-B17 @ 10'	9/1/2023	10	1.3	N/S	N/O	40.2179970959399, -104.981174606338	Y
SEP-B18 @ 13'	9/1/2023	13	3.7	N/S	N/O	40.2179929997125, -104.98124836707	Y
SEP-S02 @ 3'	9/1/2023	3	2.6	HC Staining	HC Odor	40.2179653649229, -104.981178655546	Y
SEP-S02 @ 9'	9/1/2023	9	4.9	N/S	N/O	40.2179653649229, -104.981178655546	Y
SEP-S03 @ 3'	9/1/2023	3	3.3	N/S	HC Odor	40.2179556215787, -104.981244343762	Y
SEP-S03 @ 9'	9/1/2023	9	19.5	N/S	N/O	40.2179556215787, -104.981244343762	Y
SEP-S04 @ 3'	9/1/2023	3	4.5	N/S	N/O	40.217964864932, -104.981307355516	Y
SEP-S04 @ 9'	9/1/2023	9	4.0	N/S	N/O	40.217964864932, -104.981307355516	Y
SEP-E03 @ 3'	9/1/2023	3	7.3	N/S	N/O	40.217988864916, -104.981126355555	Y
SEP-E03 @ 9'	9/1/2023	9	6.8	N/S	N/O	40.217988864916, -104.981126355555	Y
SEP-W03 @ 3'	9/1/2023	3	5.9	N/S	N/O	40.2179889034862, -104.981340232708	Y
SEP-W03 @ 9'	9/1/2023	9	2.1	N/S	N/O	40.2179889034862, -104.981340232708	Y
SEP-N03 @ 3'	9/5/2023	3	0.2	N/S	N/O	40.218171164, -104.98129395	Y
SEP-N03 @ 9'	9/5/2023	9	2.2	N/S	N/O	40.218171164, -104.98129395	Y
SEP-N04 @ 3'	9/5/2023	3	13.2	N/S	N/O	40.218161964, -104.98122285	Y
SEP-N04 @ 9'	9/5/2023	9	2.8	N/S	N/O	40.218161964, -104.98122285	Y
SEP-N05 @ 3'	9/5/2023	3	1.3	N/S	N/O	40.21816196, -104.98114775	Y
SEP-N05 @ 9'	9/5/2023	9	1.1	N/S	N/O	40.21816196, -104.98114775	Y
SEP-N06 @ 9'	9/8/2023	9	2.9	N/S	N/O	40.218074964917, -104.981306055503	Y
SEP-B18 @ 14'	9/8/2023	14	7.4	N/S	N/O	40.2180237649152, -104.981182655538	Y
SEP-B19 @ 14'	10/3/2023	14	5.2	N/S	N/O	40.21802676, -104.9812001	Y
SEP-B20 @ 14'	10/3/2023	14	1.1	N/S	N/O	40.21804113, -104.9813194	Y
SEP-B21 @ 18'	10/5/2023	18	1.6	N/S	N/O	40.21801446491918, -104.9812202	Y
<b>Background Soil Samples</b>							
SEP-BG01 @ 3"	6/7/2023	0.25	2.1	N/S	N/O	40.21769758, -104.9812861	Y
SEP-BG02 @ 3"	6/7/2023	0.25	3.6	N/S	N/O	40.21810434, -104.9808443	Y

**Notes:**

bgs = below ground surface  
 PID = photoionization detector  
 ppm-v = parts per million by volume  
**BOLD** = exceeds ECOMC Table 915-1

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



**TABLE 2**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**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>ECMC standards for soil (mg/kg) <sup>(1)</sup></i>		<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>500</b>			<b>0.0038</b>	<b>0.0081</b>	<b>0.0087</b>
<i>ECMC standards for soil (mg/kg) <sup>(2)</sup></i>		<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>2</b>	<b>30</b>	<b>27</b>
Initial Waste Characterization @ 3"	6/7/2023	<b>0.192</b>	<b>2.74</b>	0.116	0.681	<b>287</b>	<b>494</b>	<b>181</b>	<b>0.0191</b>	<b>0.205</b>	<b>0.156</b>
SEP-B01 @ 6'	6/27/2023	<0.00200	<0.00200	0.00326	0.0152	1.74	<25.0	<100	<b>0.004</b>	<0.00200	<b>0.0200</b>
SEP-N01 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-S01 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-E01 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	0.00428
SEP-W01 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<b>0.007</b>	<0.00200	<0.00200
SEP-B02 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B02 @ 6'	6/27/2023	<b>0.0300</b>	<0.00200	<0.00200	0.00470	<0.200	<25.0	<100	<0.00380	0.00390	<0.00200
SEP-B03 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B03 @ 6'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B04 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B04 @ 6'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B05 @ 3'	6/27/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B05 @ 6'	6/27/2023	<b>0.00408</b>	<0.00200	0.00256	0.00222	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B06 @ 9'	7/6/2023	<b>0.385</b>	0.0162	0.00722	0.109	0.893	<25.0	<100	<b>0.004</b>	<b>0.0252</b>	<b>0.0127</b>
SEP-N02 @ 8'	7/6/2023	<b>0.0890</b>	0.00512	0.0212	0.169	0.379	<25.0	<100	0.003	<b>0.0273</b>	0.00726
SEP-E02 @ 8'	7/6/2023	<b>0.0575</b>	<0.00200	0.00256	0.0279	<0.200	<25.0	<100	<0.002	0.00268	0.00304
SEP-B07 @ 3"	7/31/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B08 @ 3"	7/31/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B09 @ 3"	7/31/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B10 @ 3"	7/31/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B11 @ 3"	7/31/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B12 @ 3"	7/31/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B13 @ 4'	8/17/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B14 @ 4'	8/17/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B15 @ 4'	8/17/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B16 @ 4'	8/17/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200

**TABLE 2**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**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>ECMC standards for soil (mg/kg) <sup>(1)</sup></i>		<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>500</b>			<b>0.0038</b>	<b>0.0081</b>	<b>0.0087</b>
<i>ECMC standards for soil (mg/kg) <sup>(2)</sup></i>		<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>2</b>	<b>30</b>	<b>27</b>
SEP-B17 @ 10'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B18 @ 13'	9/1/2023	<b>0.0241</b>	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-S02 @ 3'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-S02 @ 9'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-S03 @ 3'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-S03 @ 9'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-S04 @ 3'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-S04 @ 9'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-E03 @ 3'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-E03 @ 9'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-W03 @ 3'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-W03 @ 9'	9/1/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-N03 @ 3'	9/5/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-N03 @ 9'	9/5/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-N04 @ 3'	9/5/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-N04 @ 9'	9/5/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-N05 @ 3'	9/5/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-N05 @ 9'	9/5/2023	<b>0.0565</b>	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-N06 @ 9'	9/8/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B18 @ 14'	9/8/2023	<b>0.324</b>	<0.00200	0.0102	0.0266	0.436	<25.0	<100	<b>0.015</b>	<b>0.0106</b>	0.00298
SEP-B19 @ 14'	10/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B20 @ 14'	10/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B21 @ 18'	10/5/2023	<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

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**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**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) <sup>(1)</sup></i>			<b>6 - 8.3</b>	<b>&lt;6</b>	<b>&lt;4</b>	<b>2</b>
<i>Site Specific Background Limits</i>			<b>(@3") 8.45</b>	<b>(@3") 0.297</b>	<b>(@3") 0.344</b>	<b>(@3") 0.702</b>
<b>Facility Soil Samples</b>						
Initial Waste Characterization @ 3"	6/7/2023	0.25	8.06	<b>58.8</b>	<b>8.96</b>	<b>3.44</b>
SEP-B01 @ 6'	6/27/2023	6	NA	5.76	3.37	0.987
SEP-N01 @ 3'	6/27/2023	3	NA	<b>8.85</b>	<b>4.53</b>	1.85
SEP-S01 @ 3'	6/27/2023	3	NA	<b>23.6</b>	<b>7.31</b>	<b>4.47</b>
SEP-E01 @ 3'	6/27/2023	3	NA	<b>7.11</b>	3.49	1.93
SEP-W01 @ 3'	6/27/2023	3	NA	<b>16.4</b>	<b>5.66</b>	<b>3.89</b>
SEP-B06 @ 9'	7/6/2023	9	NA	<b>25.9</b>	<b>11.8</b>	<b>4.09</b>
SEP-N02 @ 8'	7/6/2023	8	NA	<b>38.4</b>	<b>10.8</b>	<b>5.64</b>
SEP-E02 @ 8'	7/6/2023	8	NA	<b>34.1</b>	<b>8.48</b>	<b>5.48</b>
SEP-B07 @ 3"	7/31/2023	0.25	NA	1.38	0.203	<0.100
SEP-B08 @ 3"	7/31/2023	0.25	NA	1.38	0.234	<0.100
SEP-B09 @ 3"	7/31/2023	0.25	NA	1.74	0.212	0.516
SEP-B10 @ 3"	7/31/2023	0.25	NA	0.763	0.212	<0.0989
SEP-B11 @ 3"	7/31/2023	0.25	8.12	5.39	0.497	0.140
SEP-B12 @ 3"	7/31/2023	0.25	<b>8.31*</b>	1.14	0.209	<0.100
SEP-B13 @ 4'	8/17/2023	4	NA	2.07	1.67	0.780
SEP-B14 @ 4'	8/17/2023	4	NA	1.53	1.24	0.679
SEP-B15 @ 4'	8/17/2023	4	NA	1.34	1.31	0.767
SEP-B16 @ 4'	8/17/2023	4	NA	1.34	1.87	1.22
SEP-B17 @ 10'	9/1/2023	10	NA	0.598	3.13	1.43
SEP-B18 @ 13'	9/1/2023	13	NA	1.36	<b>5.31</b>	1.25
SEP-S02 @ 3'	9/1/2023	3	NA	1.79	0.661	0.718
SEP-S02 @ 9'	9/1/2023	9	NA	0.684	2.05	<b>2.04</b>
SEP-S03 @ 3'	9/1/2023	3	NA	2.06	0.867	0.906
SEP-S03 @ 9'	9/1/2023	9	NA	0.568	2.13	<b>2.21</b>
SEP-S04 @ 3'	9/1/2023	3	NA	1.49	0.761	0.873
SEP-S04 @ 9'	9/1/2023	9	NA	0.802	1.80	<b>2.65</b>
SEP-E03 @ 3'	9/1/2023	3	NA	<b>6.19</b>	0.878	1.73
SEP-E03 @ 9'	9/1/2023	9	NA	<b>15.9</b>	<b>5.70</b>	<b>3.68</b>
SEP-W03 @ 3'	9/1/2023	3	NA	1.44	0.924	1.08
SEP-W03 @ 9'	9/1/2023	9	NA	1.60	<b>5.75</b>	<b>2.57</b>
SEP-N03 @ 3'	9/5/2023	3	NA	<b>11.6</b>	<b>4.70</b>	0.991
SEP-N03 @ 9'	9/5/2023	9	NA	1.13	2.11	<b>2.01</b>

**TABLE 3**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**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) <sup>(1)</sup></i>			<b>6 - 8.3</b>	<b>&lt;6</b>	<b>&lt;4</b>	<b>2</b>
<i>Site Specific Background Limits</i>			<b>(@3") 8.45</b>	<b>(@3") 0.297</b>	<b>(@3") 0.344</b>	<b>(@3") 0.702</b>
SEP-N04 @ 3'	9/5/2023	3	NA	1.61	1.24	0.684
SEP-N04 @ 9'	9/5/2023	9	NA	1.97	3.62	<b>2.27</b>
SEP-N05 @ 3'	9/5/2023	3	NA	1.32	0.691	0.674
SEP-N05 @ 9'	9/5/2023	9	NA	1.43	2.18	<b>2.24</b>
SEP-N06 @ 9'	9/8/2023	9	NA	0.947	2.72	<b>3.17</b>
SEP-B18 @ 14'	9/8/2023	14	NA	<b>17.2</b>	<b>7.83</b>	<b>4.24</b>
SEP-B19 @ 14'	10/3/2023	14	NA	4.73	3.28	1.23
SEP-B20 @ 14'	10/3/2023	14	NA	4.58	2.16	0.199
SEP-B21 @ 18'	10/5/2023	18	NA	<b>9.92</b>	<b>5.20</b>	1.41
<b>Background Soil Samples</b>						
SEP-BG01 @ 3"	6/7/2023	0.25	8.45	0.297	0.344	0.660
SEP-BG02 @ 3"	6/7/2023	0.25	8.37	0.194	0.344	0.702

**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

NA = Not Analyzed

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 site-specific background limits.

TABLE 4  
MCKINSTRY 28N 21N 7C 2N OSA  
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)
<b>ECMC standards for soil (mg/kg)<sup>(1)</sup></b>		<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>1.3</b>
<b>ECMC standards for soil (mg/kg)<sup>(2)</sup></b>		<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>180</b>
Initial Waste Characterization @ 3"	6/7/2023	<b>0.436</b>	<b>0.219</b>	0.0553	0.00947	<b>0.0197</b>	<0.0067	<0.0067	<0.0067	0.0317	0.00138	0.000954	0.122	0.00109	0.0147
SEP-B01 @ 6"	6/27/2023	<b>0.012</b>	0.017	<0.002	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N01 @ 3'	6/27/2023	<0.002	<0.002	<0.002	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-S01 @ 3'	6/27/2023	<0.002	0.002	<0.002	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-E01 @ 3'	6/27/2023	<0.002	<0.002	<0.002	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-W01 @ 3'	6/27/2023	<b>0.008</b>	0.011	<0.002	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B06 @ 9'	7/6/2023	0.004	0.006	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N02 @ 8'	7/6/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-E02 @ 8'	7/6/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B07 @ 3"	7/31/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B08 @ 3"	7/31/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B09 @ 3"	7/31/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B10 @ 3"	7/31/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B13 @ 4'	8/17/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B14 @ 4'	8/17/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B15 @ 4'	8/17/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B16 @ 4'	8/17/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B17 @ 10'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B18 @ 13'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-S02 @ 3'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-S02 @ 9'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-S03 @ 3'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-S03 @ 9'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-S04 @ 3'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-S04 @ 9'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-E03 @ 3'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-E03 @ 9'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-W03 @ 3'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-W03 @ 9'	9/1/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N03 @ 3'	9/5/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N03 @ 9'	9/5/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N04 @ 3'	9/5/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N04 @ 9'	9/5/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N05 @ 3'	9/5/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N05 @ 9'	9/5/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-N06 @ 9'	9/8/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B18 @ 14'	9/8/2023	<b>0.023</b>	<b>0.038</b>	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B19 @ 14'	10/3/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B20 @ 14'	10/3/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B21 @ 18'	10/5/2023	<0.002	<0.002	<0.020	<0.020	<0.005	NA	NA	NA	<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  
NA = Not Analyzed

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

**TABLE 5**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**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)
<b>ECMC standards for soil (mg/kg) <sup>(1)</sup></b>		<b>0.29</b>	<b>82</b>	<b>0.38</b>	<b>0.00067</b>	<b>46</b>	<b>14</b>	<b>26</b>	<b>0.26</b>	<b>0.8</b>	<b>370</b>
<b>Site-Specific Background Limits (1.25 Buffer Applied)</b>		<b>(@3") 6.76</b>	<b>(@3") 213</b>	<b>(@3") 0.267</b>	<b>NA</b>	<b>(@3") 17.2</b>	<b>(@3") 15.6</b>	<b>(@3") 17.0</b>	<b>(@3") 0.356</b>	<b>(@3") NA</b>	<b>(@3") NA</b>
Initial Waste Characterization @ 3"	6/7/2023	<b>2.07*</b>	65.8	<0.0982	*<0.5	<9.82	<9.82	<9.82	0.153	<0.0982	<98.2
SEP-B01 @ 6'	6/27/2023	<b>3.73</b>	<b>110</b>	NA	NA	NA	NA	NA	0.167	NA	NA
SEP-N01 @ 3'	6/27/2023	<b>4.20*</b>	<b>130*</b>	NA	NA	NA	NA	NA	0.168	NA	NA
SEP-S01 @ 3'	6/27/2023	<b>5.29*</b>	<b>152*</b>	NA	NA	NA	NA	NA	0.244	NA	NA
SEP-E01 @ 3'	6/27/2023	<b>4.57*</b>	<b>141*</b>	NA	NA	NA	NA	NA	0.159	NA	NA
SEP-W01 @ 3'	6/27/2023	<b>4.75*</b>	<b>137*</b>	NA	NA	NA	NA	NA	0.178	NA	NA
SEP-B06 @ 9'	7/6/2023	<b>4.97</b>	<b>151</b>	NA	NA	NA	NA	NA	<b>0.330</b>	NA	NA
SEP-N02 @ 8'	7/6/2023	<b>5.24</b>	<b>157</b>	NA	NA	NA	NA	NA	0.166	NA	NA
SEP-E02 @ 8'	7/6/2023	<b>5.92</b>	<b>207</b>	NA	NA	NA	NA	NA	<b>0.272</b>	NA	NA
SEP-B07 @ 3"	7/31/2023	<b>1.93*</b>	32.3	NA	NA	NA	NA	NA	<0.0935	NA	NA
SEP-B08 @ 3"	7/31/2023	<b>3.92*</b>	44.5	NA	NA	NA	NA	NA	0.121	NA	NA
SEP-B09 @ 3"	7/31/2023	<b>15.0</b>	<b>145*</b>	NA	NA	NA	NA	NA	0.219	NA	NA
SEP-B10 @ 3"	7/31/2023	<b>3.72*</b>	46.4	NA	NA	NA	NA	NA	0.175	NA	NA
SEP-B13 @ 4'	8/17/2023	<b>5.05</b>	<b>140</b>	NA	NA	NA	NA	NA	0.135	NA	NA
SEP-B14 @ 4'	8/17/2023	<b>4.93</b>	<b>148</b>	NA	NA	NA	NA	NA	0.152	NA	NA
SEP-B15 @ 4'	8/17/2023	<b>4.22</b>	<b>117</b>	NA	NA	NA	NA	NA	0.123	NA	NA
SEP-B16 @ 4'	8/17/2023	<b>5.40</b>	<b>145</b>	NA	NA	NA	NA	NA	0.160	NA	NA
SEP-B17 @ 10'	9/1/2023	<b>4.57</b>	<b>164</b>	NA	NA	NA	NA	NA	0.165	NA	NA
SEP-B18 @ 13'	9/1/2023	<b>4.49</b>	<b>83</b>	NA	NA	NA	NA	NA	0.152	NA	NA
SEP-S02 @ 3'	9/1/2023	<b>5.27*</b>	<b>141*</b>	NA	NA	NA	NA	NA	0.245	NA	NA
SEP-S02 @ 9'	9/1/2023	<b>5.17</b>	<b>148</b>	NA	NA	NA	NA	NA	0.190	NA	NA
SEP-S03 @ 3'	9/1/2023	<b>5.46*</b>	<b>144*</b>	NA	NA	NA	NA	NA	<b>0.259*</b>	NA	NA
SEP-S03 @ 9'	9/1/2023	<b>5.34</b>	<b>118</b>	NA	NA	NA	NA	NA	0.107	NA	NA
SEP-S04 @ 3'	9/1/2023	<b>5.23*</b>	<b>152*</b>	NA	NA	NA	NA	NA	<b>0.309*</b>	NA	NA
SEP-S04 @ 9'	9/1/2023	<b>5.55</b>	<b>102</b>	NA	NA	NA	NA	NA	0.199	NA	NA
SEP-E03 @ 3'	9/1/2023	<b>4.34*</b>	<b>131*</b>	NA	NA	NA	NA	NA	0.174	NA	NA
SEP-E03 @ 9'	9/1/2023	<b>5.13</b>	<b>149</b>	NA	NA	NA	NA	NA	0.123	NA	NA
SEP-W03 @ 3'	9/1/2023	<b>5.09*</b>	<b>148*</b>	NA	NA	NA	NA	NA	0.238	NA	NA
SEP-W03 @ 9'	9/1/2023	<b>5.72</b>	<b>169</b>	NA	NA	NA	NA	NA	0.218	NA	NA
SEP-N03 @ 3'	9/5/2023	<b>4.16*</b>	<b>134*</b>	NA	NA	NA	NA	NA	0.128	NA	NA
SEP-N03 @ 9'	9/5/2023	<b>7.03</b>	<b>129</b>	NA	NA	NA	NA	NA	0.198	NA	NA
SEP-N04 @ 3'	9/5/2023	<b>6.78</b>	<b>179*</b>	NA	NA	NA	NA	NA	0.159	NA	NA
SEP-N04 @ 9'	9/5/2023	<b>7.56</b>	<b>132</b>	NA	NA	NA	NA	NA	0.174	NA	NA

**TABLE 5**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**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)
<b>ECMC standards for soil (mg/kg) <sup>(1)</sup></b>		<b>0.29</b>	<b>82</b>	<b>0.38</b>	<b>0.00067</b>	<b>46</b>	<b>14</b>	<b>26</b>	<b>0.26</b>	<b>0.8</b>	<b>370</b>
<b>Site-Specific Background Limits (1.25 Buffer Applied)</b>		<b>(@3") 6.76</b>	<b>(@3") 213</b>	<b>(@3") 0.267</b>	NA	<b>(@3") 17.2</b>	<b>(@3") 15.6</b>	<b>(@3") 17.0</b>	<b>(@3") 0.356</b>	<b>(@3") NA</b>	<b>(@3") NA</b>
SEP-N05 @ 3'	9/5/2023	<b>6.16*</b>	<b>149*</b>	NA	NA	NA	NA	NA	0.246	NA	NA
SEP-N05 @ 9'	9/5/2023	<b>7.55</b>	<b>112</b>	NA	NA	NA	NA	NA	0.260	NA	NA
SEP-N06 @ 9'	9/8/2023	<b>4.93</b>	<b>165</b>	NA	NA	NA	NA	NA	0.156	NA	NA
SEP-B18 @ 14'	9/8/2023	<b>13.0</b>	<b>168</b>	NA	NA	NA	NA	NA	<b>0.779</b>	NA	NA
SEP-B19 @ 14'	10/3/2023	<b>4.33</b>	<b>104</b>	NA	NA	NA	NA	NA	<b>0.618</b>	NA	NA
SEP-B20 @ 14'	10/3/2023	<b>1.01</b>	40.7	NA	NA	NA	NA	NA	<b>0.590</b>	NA	NA
SEP-B21 @ 18'	10/5/2023	<b>2.83</b>	<b>83.4</b>	NA	NA	NA	NA	NA	<b>0.566</b>	NA	NA
<b>Background Soil Samples</b>											
SEP-BG01 @ 3"	6/7/2023	5.41	171	0.202	<0.5	11.6	10.6	13.0	0.241	<0.0876	<87.6
SEP-BG02 @ 3"	6/7/2023	5.30	157	0.238	<0.5	13.8	12.5	13.6	0.285	<0.0944	<94.4

**Notes:**

<sup>(1)</sup> Standards are taken from ECMC Table 915-1: Protection of Groundwater 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

NA = Not Analyzed

\* = 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

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



**TABLE 6**  
**MCKINSTRY 28N 21N 7C 2N OSA**  
**GROUNDWATER RESULTS SUMMARY TABLE - VOCs**  
**KERR-McGEE OIL AND GAS ONSHORE LP**

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5- Trimethylbenzene (µg/L)
<i>ECMC Standards for Groundwater (µg/L) <sup>(1)</sup></i>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>
<i>Groundwater Samples</i>								
GW-01	09/05/23	<b>37.3</b>	14.0	2.83	48.2	<2.00	<2.00	3.80

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

ECMC = Energy & Carbon Management Commission

µg/L = micrograms per liter

< = Analytical result is less than the laboratory reporting limit

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