

**TABLE 1**  
**DEHAAN V27-10, 15**  
**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)
<b>Tank Battery Soil Samples</b>							
AST-B01 @ 3"	7/30/2024	0.25	3.4	N/S	N/O	40.1090838410739, -104.87241891616	Y
AST-B02 @ 3"	7/30/2024	0.25	2.3	N/S	N/O	40.109080897196, -104.872447939109	N
AST-B03 @ 3"	7/30/2024	0.25	0.6	N/S	N/O	40.1090521102829, -104.872410053992	Y
AST-B04 @ 3"	7/30/2024	0.25	0.1	N/S	N/O	40.1090519475635, -104.872438960609	N
DL-B01 @ 4'	7/30/2024	4	2.7	N/S	N/O	40.1089994624446, -104.872423306681	N
MH-B01 @ 6"	7/30/2024	0.5	1.0	N/S	N/O	40.1087933943698, -104.872456598836	N
ECD-B01 @ 6"	7/31/2024	0.5	0.5	N/S	N/O	40.1086770982933, -104.872354137307	N
DL-B02 @ 4'	7/31/2024	4	2.1	Slight HC Staining	HC Odor	40.1088082980478, -104.872413604813	N
SEP-B01 @ 4'	7/31/2024	4	<b>2420</b>	Slight HC Staining	HC Odor	<b>40.1087886497926, -104.872387363442</b>	Y
SEP-B02 @ 4'	7/31/2024	4	<b>7.6</b>	Slight HC Staining	HC Odor	<b>40.1087643914596, -104.872371631624</b>	Y
SEP-B03 @ 4'	7/31/2024	4	<b>4077</b>	Slight HC Staining	HC Odor	<b>40.1087902601565, -104.872363422589</b>	Y
SEP-B04 @ 4'	7/31/2024	4	<b>25.6</b>	Slight HC Staining	HC Odor	<b>40.1087637853375, -104.872356697251</b>	Y
<b>Produced Water Vault Soil Samples</b>							
PW-B01 @ 5'	7/30/2024	5	2.2	N/S	N/O	40.1090120273118, -104.87241140438	Y
PW-N01 @ 4'	7/30/2024	4	1.4	N/S	N/O	40.1090322849508, -104.872405369408	N
PW-S01 @ 4'	7/30/2024	4	3.3	N/S	N/O	40.1089989495917, -104.872406710516	N
PW-E01 @ 4'	7/30/2024	4	2.7	N/S	N/O	40.1090151044209, -104.872396652233	N
PW-W01 @ 4'	7/30/2024	4	1.9	N/S	N/O	40.1090181815329, -104.872423474317	Y
<b>Background Soil Samples</b>							
AST-BG01 @ 6"	7/30/2024	0.5	1.2	N/S	N/O	40.109221014321, -104.872801778374	Y
AST-BG02 @ 6"	7/30/2024	0.5	1.8	N/S	N/O	40.1092217472742, -104.872618715872	Y
AST-BG03 @ 6"	7/30/2024	0.5	1.7	N/S	N/O	40.1092341237408, -104.872291983275	Y
PW-BG01 @ 3'	7/30/2024	3	0.5	N/S	N/O	40.1086405491691, -104.872567546017	Y
PW-BG01 @ 6'	7/30/2024	6	0.9	N/S	N/O	40.1086405491691, -104.872567546017	Y
PW-BG02 @ 3'	7/30/2024	3	1.2	N/S	N/O	40.108755660599, -104.872600949745	Y
PW-BG02 @ 6'	7/30/2024	6	1.3	N/S	N/O	40.108755660599, -104.872600949745	Y
PW-BG03 @ 3'	7/30/2024	3	4.1	N/S	N/O	40.1088772337259, -104.872698876598	Y
PW-BG03 @ 6'	7/30/2024	6	4.9	N/S	N/O	40.1088772337259, -104.872698876598	Y
PW-BG04 @ 3'	7/30/2024	3	5.1	N/S	N/O	40.1089320788849, -104.872741264464	Y
PW-BG04 @ 6'	7/30/2024	6	6.2	N/S	N/O	40.1089320788849, -104.872741264464	Y

**Notes:**

bgs = below ground surface                      N/S = No Staining  
PID = photoionization detector                      N/O = No Odor  
ppm-v = parts per million by volume                      HC = hydrocarbon  
**BOLD = exceeds ECMC Table 915-1 Cleanup Concentrations**

**TABLE 2**  
**DEHAAN V27-10, 15**  
**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)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
ECMC standards for soil (mg/kg) <sup>(2)</sup>		1.2	490	5.8	58	500			2	30	27
Tank Battery Soil Samples											
AST-B01 @ 3"	7/30/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
AST-B03 @ 3"	7/30/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
SEP-B01 @ 4'	7/31/2024	0.243	0.750	0.268	2.82	91.6	611	269	0.189	1.67	0.558
SEP-B02 @ 4'	7/31/2024	0.00314	0.0111	<0.00200	0.0154	0.269	<25.0	<100	0.003	0.00612	0.00206
SEP-B03 @ 4'	7/31/2024	0.00362	0.0143	0.00228	0.0320	0.961	31.0	<100	0.007	0.0204	0.00656
SEP-B04 @ 4'	7/31/2024	<0.00200	0.00378	<0.00200	0.00560	0.274	<25.0	<100	<0.002	0.00524	<0.00200
Produced Water Vault Soil Samples											
PW-B01 @ 5'	7/30/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
PW-W01 @ 4'	7/30/2024	<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 & 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**  
**DEHAAN V27-10, 15**  
**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)
<b>ECMC standards for soil (mg/kg) <sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt;6</b>	<b>&lt;4</b>	<b>2</b>
<b>Site-Specific Background Limits</b>			<b>RP</b>	<b>RP</b>	<b>RP</b>	<b>RP</b>
<b>Tank Battery Soil Samples</b>						
AST-B01 @ 3"	7/30/24	0.25	RP	RP	RP	RP
AST-B03 @ 3"	7/30/24	0.25	RP	RP	RP	RP
SEP-B01 @ 4'	7/31/24	4	RP	RP	RP	RP
SEP-B02 @ 4'	7/31/24	4	RP	RP	RP	RP
SEP-B03 @ 4'	7/31/24	4	RP	RP	RP	RP
SEP-B04 @ 4'	7/31/24	4	RP	RP	RP	RP
<b>Produced Water Vault Soil Samples</b>						
PW-B01 @ 5'	7/30/24	5	RP	RP	RP	RP
PW-W01 @ 4'	7/30/24	4	RP	RP	RP	RP
<b>Background Soil Samples</b>						
AST-BG01 @ 6"	7/30/24	0.5	RP	RP	RP	RP
AST-BG02 @ 6"	7/30/24	0.5	RP	RP	RP	RP
AST-BG03 @ 6"	7/30/24	0.5	RP	RP	RP	RP
PW-BG01 @ 3'	7/30/24	3	RP	RP	RP	RP
PW-BG01 @ 6'	7/30/24	6	RP	RP	RP	RP
PW-BG02 @ 3'	7/30/24	3	RP	RP	RP	RP
PW-BG02 @ 6'	7/30/24	6	RP	RP	RP	RP
PW-BG03 @ 3'	7/30/24	3	RP	RP	RP	RP
PW-BG03 @ 6'	7/30/24	6	RP	RP	RP	RP
PW-BG04 @ 3'	7/30/24	3	RP	RP	RP	RP
PW-BG04 @ 6'	7/30/24	6	RP	RP	RP	RP

**Notes:**

<sup>(1)</sup> 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

RP = Results Pending

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

TABLE 4  
DEHAAN V27-10, 15  
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)
ECMC standards for soil (mg/kg) <sup>(1)</sup>		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	1.3
ECMC standards for soil (mg/kg) <sup>(2)</sup>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Tank Battery Soil Samples															
AST-B01 @ 3"	7/30/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
AST-B03 @ 3"	7/30/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B01 @ 4'	7/31/2024	<b>0.389</b>	<b>0.890</b>	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.095	<0.020	<0.020
SEP-B02 @ 4'	7/31/2024	<b>0.011</b>	<b>0.021</b>	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B03 @ 4'	7/31/2024	<b>0.025</b>	<b>0.051</b>	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SEP-B04 @ 4'	7/31/2024	<b>0.008</b>	0.013	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Produced Water Vault Soil Samples															
PW-B01 @ 5'	7/30/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
PW-W01 @ 4'	7/30/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<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 & 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**  
**DEHAAN V27-10, 15**  
**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 (1.25x buffer applied)</b>		<b>(@6") 6.51 (@3') 7.47</b>	<b>(@6") 392 (@6') 167</b>	<b>0.870</b>	<b>NA</b>	<b>30.3</b>	<b>(@6') 31.1</b>	<b>34.6</b>	<b>(@6") 0.683 (@3') 1.42</b>	<b>NA</b>	<b>165</b>
<b>Tank Battery Soil Samples</b>											
AST-B01 @ 3"	7/30/2024	<b>4.71*</b>	<b>129*</b>	0.187	RP	14.8	11.9	16.3	<b>0.280*</b>	<0.0840	47.1
AST-B03 @ 3"	7/30/2024	<b>4.33*</b>	51.3	0.100	RP	9.82	5.95	8.97	<b>0.307*</b>	<0.0864	<32.0
SEP-B01 @ 4'	7/31/2024	<b>4.35*</b>	<b>121*</b>	0.151	RP	12.2	10.3	11.7	0.258	<0.0851	44.3
SEP-B02 @ 4'	7/31/2024	<b>5.56*</b>	<b>160*</b>	0.230	RP	17.6	<b>14.2*</b>	18.0	<b>0.484*</b>	<0.0850	70.3
SEP-B03 @ 4'	7/31/2024	<b>4.36*</b>	<b>231</b>	0.167	RP	14.2	12.5	12.8	<b>0.765*</b>	<0.0960	49.8
SEP-B04 @ 4'	7/31/2024	<b>5.44*</b>	<b>210</b>	0.221	RP	16.1	<b>14.1*</b>	16.2	<b>0.403*</b>	<0.0910	62.8
<b>Produced Water Vault Soil Samples</b>											
PW-B01 @ 5'	7/30/2024	<b>2.27*</b>	72.9	0.156	RP	<9.86	8.24	7.89	<0.256	<0.0986	<36.5
PW-W01 @ 4'	7/30/2024	<b>3.64*</b>	79.1	0.112	RP	<9.12	6.81	8.25	<0.237	<0.0912	<33.7
<b>Background Soil Samples</b>											
AST-BG01 @ 6"	7/30/2024	5.21	314	0.287	RP	16.5	16.7	16.1	0.370	<0.0956	60.8
AST-BG02 @ 6"	7/30/2024	3.67	99.7	0.143	RP	13.2	9.35	10.5	0.547	<0.0911	49.3
AST-BG03 @ 6"	7/30/2024	4.56	164	0.453	RP	20.6	20.3	16.4	0.257	<0.0898	121
PW-BG01 @ 3'	7/30/2024	4.62	98.5	0.568	RP	21.4	19.0	27.7	1.14	<0.0963	132
PW-BG01 @ 6'	7/30/2024	1.98	81.0	0.489	RP	20.6	24.9	15.5	<0.253	<0.0975	45.3
PW-BG02 @ 3'	7/30/2024	5.98	98.7	0.696	RP	24.3	22.8	22.9	0.501	<0.0944	115
PW-BG02 @ 6'	7/30/2024	3.71	134	0.338	RP	20.7	19.3	13.4	0.328	<0.0909	54.2
PW-BG03 @ 3'	7/30/2024	4.86	116	0.394	RP	16.7	21.9	22.5	0.249	<0.0944	71.3
PW-BG03 @ 6'	7/30/2024	5.94	64.2	0.381	RP	21.9	19.8	18.7	<0.249	<0.0957	79.8
PW-BG04 @ 3'	7/30/2024	4.75	104	0.521	RP	16.0	13.9	15.5	0.511	<0.0901	63.2
PW-BG04 @ 6'	7/30/2024	3.66	126	0.440	RP	15.2	14.7	15.3	0.241	<0.0849	51.1

**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 & Carbon Management Commission

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

mg/kg = milligrams per kilogram

NA = Not Analyzed

RP = Results Pending

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.