

**TABLE 1**  
**HUDSON 11-35A/ EICHTH O SA**  
**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>Produced Water Vault Soil Samples</b>							
PW-B01 @ 3'	12/4/2023	3	4.1	N/S	N/O	40.09192846, -104.6356131	Y
PW-N01 @ 2'	12/4/2023	2	3.3	N/S	N/O	40.09194354, -104.6356149	N
PW-S01 @ 2'	12/4/2023	2	3.5	N/S	N/O	40.09191506, -104.635616	Y
PW-E01 @ 2'	12/4/2023	2	2.9	N/S	N/O	40.0919296, -104.6355956	N
PW-W01 @ 2'	12/4/2023	2	3.6	N/S	N/O	40.0919319, -104.6356395	N
PW-B01 @ 5'	2/27/2024	5	0.9	N/S	N/O	40.09192846, -104.6356131	Y
PW-S01 @ 5'	2/27/2024	5	0.7	N/S	N/O	40.09191506, -104.635616	Y
PW-S01-01 @ 5'	7/26/2024	5	0.3	N/S	N/O	40.0919167766643, -104.635622637649	Y
<b>Tank Battery Soil Samples</b>							
SEP-B01 @ 4'	12/4/2023	4	2.6	N/S	N/O	40.09164164, -104.6356507	Y
SEP-B02 @ 4'	12/4/2023	4	2.4	N/S	N/O	40.09161896, -104.6356523	Y
MH-B01 @ 3"	12/4/2023	0.25	2.5	N/S	N/O	40.09173792, -104.6355412	N
ECD-B01 @ 3"	12/4/2023	0.25	2.1	N/S	N/O	40.09160977, -104.6355499	N
AST-B01 @ 3"	12/4/2023	0.25	2.8	N/S	N/O	40.09189007, -104.6356165	Y
AST-B02 @ 3"	12/4/2023	0.25	2.2	N/S	N/O	40.0918691, -104.6356166	N
DL-B01 @ 3'	12/4/2023	3	2.2	N/S	N/O	40.09175733, -104.635635	N
AST-B01 @ 3'	2/27/2024	3	24.4	N/S	N/O	40.09189007, -104.6356165	Y
AST-B01-01 @ 3'	7/26/2024	3	1.1	N/S	N/O	40.0918908532296, -104.635619755757	Y
SEP-B02-01 @ 4'	7/26/2024	4	0.3	N/S	N/O	40.0916188755983, -104.635658672522	Y
<b>Background Soil Samples</b>							
PW-BG01 @ 3"	12/4/2023	0.25	0.8	N/S	N/O	40.0918534, -104.6353696	Y
PW-BG01 @ 3'	12/4/2023	3	1.2	N/S	N/O	40.0918534, -104.6353697	Y
PW-BG01 @ 6"	12/4/2023	6	1.1	N/S	N/O	40.0918534, -104.6353698	Y
PW-BG02 @ 3"	12/4/2023	0.25	0.6	N/S	N/O	40.09155039, -104.6356424	Y
PW-BG03 @ 3"	12/4/2023	0.25	1.0	N/S	N/O	40.09189429, -104.6357489	Y
PW-BG04 @ 3"	12/4/2023	0.25	0.6	N/S	N/O	40.09204663, -104.6355614	Y
PW-BG05 @ 3'	7/26/2024	3	0.6	N/S	N/O	40.0915423535345, -104.635430225128	Y
PW-BG05 @ 6'	7/26/2024	6	0.1	N/S	N/O	40.0915423535345, -104.635430225128	Y
PW-BG06 @ 3'	7/26/2024	3	1.1	N/S	N/O	40.0916120902023, -104.635375723113	Y
PW-BG06 @ 6'	7/26/2024	6	1.0	N/S	N/O	40.0916120902023, -104.635375723113	Y
PW-BG07 @ 3'	7/26/2024	3	0.8	N/S	N/O	40.0917295411402, -104.635309522944	Y
PW-BG07 @ 6'	7/26/2024	6	0.7	N/S	N/O	40.0917295411402, -104.635309522944	Y

**Notes:**

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

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

**TABLE 2**  
**HUDSON 11-35A/EICHTH O SA**  
**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
Produced Water Vault Soil Samples											
PW-B01 @ 3'	12/4/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
PW-S01 @ 2'	12/4/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
PW-B01 @ 5'	2/27/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
PW-S01 @ 5'	2/27/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
Tank Battery Soil Samples											
AST-B01 @ 3"	12/4/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B01 @ 4'	12/4/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B02 @ 4'	12/4/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
AST-B01 @ 3'	2/27/2024	<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 and 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**  
**HUDSON 11-35A/EICHTH O SA**  
**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>			8.30	0.427	0.294	0.136
<b>Produced Water Vault Soil Samples</b>						
PW-B01 @ 3'	12/4/2023	3	8.13	0.0890	0.116	<0.100
PW-S01 @ 2'	12/4/2023	2	8.24	0.0394	0.136	<0.0983
PW-B01 @ 5'	2/27/2024	5	8.28	0.715	0.229	<0.0997
PW-S01 @ 5'	2/27/2024	5	<b>8.34</b>	0.747	0.218	<0.0998
PW-S01-01 @ 5'	7/26/2024	5	8.30	NA	NA	NA
<b>Tank Battery Soil Samples</b>						
SEP-B01 @ 4'	12/4/2023	4	7.16	0.604	0.0844	<0.0997
SEP-B02 @ 4'	12/4/2023	4	<b>8.38</b>	0.208	0.213	<0.101
AST-B01 @ 3"	12/4/2023	0.25	7.21	0.0780	0.0744	<0.0992
AST-B01 @ 3'	2/27/2024	3	8.29	0.562	0.215	0.143
SEP-B02-01 @ 4'	7/26/2024	4	7.80	NA	NA	NA
<b>Background Soil Samples</b>						
PW-BG01 @ 3"	12/4/2023	0.25	6.26	0.0633	0.0682	<0.0989
PW-BG01 @ 3'	12/4/2023	3	7.88	0.102	0.0571	<0.0998
PW-BG01 @ 6'	12/4/2023	6	7.90	0.427	0.0637	<0.101
PW-BG02 @ 3"	12/4/2023	0.25	8.30	0.0357	0.294	0.136
PW-BG03 @ 3"	12/4/2023	0.25	8.19	0.0472	0.110	<0.101
PW-BG04 @ 3"	12/4/2023	0.25	6.83	0.0477	0.0641	<0.101
PW-BG05 @ 3'	7/26/2024	3	7.20	NA	NA	NA
PW-BG05 @ 6'	7/26/2024	6	7.76	NA	NA	NA
PW-BG06 @ 3'	7/26/2024	3	7.68	NA	NA	NA
PW-BG06 @ 6'	7/26/2024	6	7.32	NA	NA	NA
PW-BG07 @ 3'	7/26/2024	3	7.66	NA	NA	NA
PW-BG07 @ 6'	7/26/2024	6	7.62	NA	NA	NA

**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

TABLE 4  
HUDSON 11-35A/EICHTH O SA  
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
Produced Water Vault Soil Samples															
PW-B01 @ 5'	2/27/2024	<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-S01 @ 5'	2/27/2024	<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
Tank Battery Soil Samples															
AST-B01 @ 3'	2/27/2024	0.003	0.005	<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 and Carbon Management Commission

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

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

**TABLE 5**  
**HUDSON 11-35A/EICHTH O SA**  
**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) <sup>(1)</sup></i>		<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>
<i>Site-Specific Background Limits (1.25x buffer applied)</i>		<b>2.20</b>	79.6	NA	NA	NA	6.41	5.46	NA	NA	NA
<i>Produced Water Vault Soil Samples</i>											
PW-B01 @ 5'	2/27/2024	<b>1.92*</b>	39.6	0.115	*<0.5	<8.66	4.35	4.22	<0.225	<0.0866	34.6
PW-S01 @ 5'	2/27/2024	<b>1.71*</b>	34.7	0.0971	*<0.5	<9.52	4.49	3.90	<0.247	<0.0952	<35.2
<i>Tank Battery Soil Samples</i>											
AST-B01 @ 3'	2/27/2024	<b>2.28</b>	44.3	0.111	*<0.5	<8.70	4.82	5.74	<0.226	<0.0870	<32.2
AST-B01-01 @ 3'	7/26/2024	<b>1.47*</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<i>Background Soil Samples</i>											
PW-BG05 @ 3'	7/26/2024	1.28	35.2	<0.0945	NA	<9.45	5.13	2.94	<0.246	<0.0945	<35.0
PW-BG05 @ 6'	7/26/2024	1.52	49.1	<0.0889	NA	<8.89	3.80	4.15	<0.231	<0.0889	<32.9
PW-BG06 @ 3'	7/26/2024	1.71	43.4	<0.0860	NA	<8.60	3.56	3.85	<0.224	<0.0860	<31.8
PW-BG06 @ 6'	7/26/2024	1.76	63.7	<0.0859	NA	<8.59	3.81	4.37	<0.223	<0.0859	<31.8
PW-BG07 @ 3'	7/26/2024	1.55	54.4	<0.0886	NA	<8.86	4.19	1.57	<0.230	<0.0886	<32.8
PW-BG07 @ 6'	7/26/2024	1.50	58.0	<0.0844	NA	<8.44	4.17	4.09	<0.219	<0.0844	<31.2

**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

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

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