

**TABLE 1**  
**HSR-PERCONTE 16-23**  
**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>Flowline Soil Samples</b>							
FL-B01 @ 4'	5/14/2024	4	0.7	N/S	N/O	40.2071079,-104.8579104	Y
FL-B02 @ 4'	5/14/2024	4	0.8	N/S	N/O	40.20703113,-104.8577042	N
FL-B03 @ 4'	5/14/2024	4	0.5	N/S	N/O	40.20698978,-104.8573621	N
FL-B04 @ 4'	5/14/2024	4	0.8	N/S	N/O	40.20693866,-104.8569894	N
FL-B05 @ 4'	5/14/2024	4	0.4	N/S	N/O	40.20689681,-104.8566312	N
FL-B06 @ 4'	5/14/2024	4	0.6	N/S	N/O	40.20685118,-104.8562933	N
FL-B07 @ 4'	5/14/2024	4	0.9	N/S	N/O	40.20681298,-104.8559241	N
FL-B08 @ 4'	5/15/2024	4	3.5	N/S	N/O	40.2067867004336,-104.855825272705	N
FL-B09 @ 4'	5/15/2024	4	4.2	N/S	N/O	40.2067381177563,-104.855346191237	N
FL-B10 @ 4'	5/15/2024	4	2.8	N/S	N/O	40.2066970100656,-104.855033350865	N
FL-B11 @ 4'	5/15/2024	4	5.0	N/S	N/O	40.2066454138243,-104.854597585223	N
FL-B12 @ 4'	5/15/2024	4	3.5	N/S	N/O	40.2065941804541,-104.854206767239	N
FL-B13 @ 4'	5/15/2024	4	2.6	N/S	N/O	40.206557293528,-104.853928470518	N
FL-B14 @ 4'	5/15/2024	4	3.9	N/S	N/O	40.2065135435526,-104.853718205514	N
FL-B15 @ 4'	5/15/2024	4	1.4	N/S	N/O	40.2065057532685,-104.853564167423	N
FL-B16 @ 4'	5/15/2024	4	1.6	N/S	N/O	40.2064918532659,-104.853344978539	N
FL-B17 @ 4'	5/15/2024	4	1.1	N/S	N/O	40.2064269625049,-104.853006553664	Y
<b>FL-B18 @ 4'</b>	7/5/2024	<b>4</b>	<b>2.6</b>	N/S	N/O	<b>40.2062410396655, -104.852266683381</b>	<b>Y</b>
FL-B19 @ 4'	7/5/2024	4	1.8	N/S	N/O	40.2062808305277,-104.852386877252	Y
<b>Wellhead Background Soil Samples (Davis, V.6-26A)</b>							
WH-BG01 @ 3'	3/11/2024	3	2.4	N/S	N/O	40.1987759067281,-104.859666686577	Y
WH-BG01 @ 6'	3/11/2024	6	1.2	N/S	N/O	40.1987759067281,-104.859666686577	Y
WH-BG02 @ 3'	3/11/2024	3	2.1	N/S	N/O	40.1987911608663,-104.859717264325	Y
WH-BG02 @ 6'	3/11/2024	6	2.8	N/S	N/O	40.1987911608663,-104.859717264325	Y
WH-BG03 @ 3'	3/11/2024	3	1.0	N/S	N/O	40.1987491440859,-104.859776976837	Y
WH-BG03 @ 6'	3/11/2024	6	0.7	N/S	N/O	40.1987491440859,-104.859776976837	Y
WH-BG04 @ 3'	3/11/2024	3	1.8	N/S	N/O	40.198777,-104.859600	Y
WH-BG04 @ 6'	3/11/2024	6	2.0	N/S	N/O	40.198777,-104.859600	Y
WH-BG05 @ 3'	4/18/2024	3	0.9	N/S	N/O	40.1988002890726,-104.859684416715	Y
WH-BG05 @ 6'	4/18/2024	6	0.8	N/S	N/O	40.1988002890726,-104.859684416715	Y
WH-BG06 @ 3'	4/18/2024	3	0.8	N/S	N/O	40.1987693534012,-104.859842234919	Y
WH-BG06 @ 6'	4/18/2024	6	0.8	N/S	N/O	40.1987693534012,-104.859842234919	Y
<b>Wellhead Background Soil Samples (PIZ 15-23A)</b>							
WH-BG01 @ 3'	4/11/2024	3	1.2	N/S	N/O	40.20500029321008,-104.855033702744	Y
WH-BG01 @ 6'	4/11/2024	6	0.5	N/S	N/O	40.20500029321008,-104.855033702744	Y
WH-BG02 @ 3'	4/11/2024	3	0.6	N/S	N/O	40.20491148766781,-104.854944142258	Y
WH-BG02 @ 6'	4/11/2024	6	0.6	N/S	N/O	40.20491148766781,-104.854944142258	Y
WH-BG03 @ 3'	4/11/2024	3	0.4	N/S	N/O	40.20482452341269,-104.855007787041	Y
WH-BG03 @ 6'	4/11/2024	6	0.5	N/S	N/O	40.20482452341269,-104.855007787041	Y
WH-BG04 @ 3'	4/11/2024	3	0.3	N/S	N/O	40.204822908901,-104.855122980505	Y
WH-BG04 @ 6'	4/11/2024	6	0.5	N/S	N/O	40.204822908901,-104.855122980505	Y
WH-BG05 @ 3'	4/11/2024	3	0.4	N/S	N/O	40.204878863077525,-104.855181801998	Y
WH-BG05 @ 6'	4/11/2024	6	1.3	N/S	N/O	40.204878863077525,-104.855181801998	Y
WH-BG06 @ 3'	4/11/2024	3	0.1	N/S	N/O	40.20499489010514,-104.855136017334	Y
WH-BG06 @ 6'	4/11/2024	6	0.4	N/S	N/O	40.20499489010514,-104.855136017334	Y

**Notes:**

bgs = below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

**BOLD** = ECMC Table 915-1 exceedance

N/S = No Staining

N/O = No Odor

**TABLE 2**  
**HSR-PERCONTE 16-23**  
**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
Flowline Soil Samples											
FL-B01 @ 4'	05/14/24	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
FL-B17 @ 4'	05/15/24	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
FL-B18 @ 4'	7/5/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
FL-B19 @ 4'	7/5/2024	<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

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**  
**HSR-PERCONTE 16-23**  
**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>Background Limits</b>			<b>8.83</b>	<b>11.8</b>	<b>5.89</b>	<b>1.05</b>
<b>Flowline Soil Samples</b>						
FL-B01 @ 4'	05/14/24	4	8.30	0.422	0.235	0.233
FL-B17 @ 4'	05/15/24	4	<b>8.52*</b>	3.45	0.625	0.306
FL-B18 @ 4'	7/5/2024	4	<b>8.36*</b>	<b>11.9</b>	3.76	1.96
FL-B19 @ 4'	7/5/2024	4	8.22	4.74	0.794	<0.0994
<b>Wellhead Background Soil Samples (Davis, V.6-26A)</b>						
WH-BG01 @ 3'	3/11/2024	3	8.36	5.24	1.01	1.05
WH-BG01 @ 6'	3/11/2024	6	8.30	5.28	0.637	0.269
WH-BG02 @ 3'	3/11/2024	3	8.37	2.44	0.659	0.301
WH-BG02 @ 6'	3/11/2024	6	8.04	1.84	0.361	<0.100
WH-BG03 @ 3'	3/11/2024	3	8.37	5.57	1.44	0.787
WH-BG03 @ 6'	3/11/2024	6	8.15	3.83	0.530	0.109
WH-BG04 @ 3'	3/11/2024	3	8.27	3.96	0.824	0.366
WH-BG04 @ 6'	3/11/2024	6	8.35	3.16	0.529	<0.0992
WH-BG05 @ 3'	4/18/2024	3	8.10	1.89	0.292	<0.0986
WH-BG05 @ 6'	4/18/2024	6	8.29	2.67	0.316	<0.101
WH-BG06 @ 3'	4/18/2024	3	8.21	6.64	0.432	<0.100
WH-BG06 @ 6'	4/18/2024	6	8.18	4.92	0.434	<0.0989
<b>Wellhead Background Soil Samples (PIZ 15-23A)</b>						
WH-BG01 @ 3'	4/11/2024	3	8.17	11.8	5.81	1.04
WH-BG01 @ 6'	4/11/2024	6	8.83	2.30	0.245	<0.993
WH-BG02 @ 3'	4/11/2024	3	8.01	10.4	5.89	<0.994
WH-BG02 @ 6'	4/11/2024	6	8.22	2.70	0.967	<0.0982
WH-BG03 @ 3'	4/11/2024	3	7.61	0.275	0.0816	<1.01
WH-BG03 @ 6'	4/11/2024	6	8.34	3.14	0.273	<0.102
WH-BG04 @ 3'	4/11/2024	3	8.12	1.77	0.272	0.457
WH-BG04 @ 6'	4/11/2024	6	8.21	3.06	0.308	0.125
WH-BG05 @ 3'	4/11/2024	3	8.25	3.21	0.427	<0.985
WH-BG05 @ 6'	4/11/2024	6	8.17	2.14	0.352	<0.100
WH-BG06 @ 3'	4/11/2024	3	8.38	7.42	1.63	0.362
WH-BG06 @ 6'	4/11/2024	6	8.19	5.94	0.635	0.199

**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

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

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 background limits

TABLE 4  
HSR-PERCONTE 16-23  
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
Flowline Samples															
FL-B01 @ 4'	5/14/2024	<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
FL-B17 @ 4'	5/15/2024	<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
FL-B18 @ 4'	7/5/2024	<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
FL-B19 @ 4'	7/5/2024	<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

**TABLE 5**  
**HSR-PERCONTE 16-23**  
**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>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) <sup>(2)</sup></i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
<i>Background Limits</i>		6.96	467	1.18	1.70	26.0	48.3	18.8	0.571	0.422	147
<i>Flowline Soil Samples</i>											
FL-B01 @ 4'	05/14/24	<b>2.17*</b>	77.4	0.112	*<0.285	<8.98	9.65	8.98	<0.234	<0.0898	42.3
FL-B17 @ 4'	05/15/24	<b>2.08*</b>	56.7	0.114	*<0.414	<8.92	8.48	4.12	<0.232	<0.0892	<33.0
FL-B18 @ 4'	7/5/2024	<b>3.64*</b>	<b>173*</b>	0.323	<b>0.386*</b>	16.4	<b>18.0*</b>	10.8	<b>0.416*</b>	0.106	69.5
FL-B19 @ 4'	7/5/2024	<b>0.818*</b>	28.8	<0.0985	<b>0.291*</b>	<9.85	2.94	1.56	<0.256	<0.0985	<36.4
<i>Wellhead Background Soil Samples (Davis, V.6-26A)</i>											
WH-BG01 @ 3'	3/11/2024	5.57	374	0.245	<0.5	18.1	16.0	13.5	0.457	<0.0963	79.3
WH-BG01 @ 6'	3/11/2024	2.40	42.9	0.100	<0.5	<8.88	5.72	4.40	<0.231	<0.0888	<32.8
WH-BG02 @ 3'	3/11/2024	2.61	74.1	0.137	<0.5	<9.07	6.15	4.93	<0.236	<0.0907	<33.6
WH-BG02 @ 6'	3/11/2024	1.26	27.4	<0.0921	<0.5	<9.21	3.07	1.82	<0.240	<0.0921	<34.1
WH-BG03 @ 3'	3/11/2024	3.98	117	0.197	<0.5	11.3	10.3	7.44	0.323	<0.0964	45.2
WH-BG03 @ 6'	3/11/2024	1.69	25.4	0.0908	<0.5	<8.99	4.08	2.66	<0.234	<0.0899	<33.3
WH-BG04 @ 3'	3/11/2024	3.06	83.2	<0.0970	1.36	<9.70	8.91	7.73	0.276	<0.0970	42.8
WH-BG04 @ 6'	3/11/2024	0.830	16.7	<0.0876	<0.5	<8.76	1.94	1.02	<0.228	<0.0876	<32.4
WH-BG05 @ 3'	4/18/2024	0.635	56.7	<0.0873	<0.219	<8.73	1.80	1.25	<0.0227	<0.0873	<32.3
WH-BG05 @ 6'	4/18/2024	0.914	18.8	<0.0870	<0.280	<8.70	2.14	1.23	<0.226	<0.0870	<32.2
WH-BG06 @ 3'	4/18/2024	0.760	25.4	<0.0953	<0.290	<9.53	1.87	1.40	<0.248	<0.0953	<35.3
WH-BG06 @ 6'	4/18/2024	0.845	14.3	<0.0872	<0.313	<8.72	2.15	1.12	<0.227	<0.0872	<32.3
<i>Wellhead Background Soil Samples (PIZ 15-23A)</i>											
WH-BG01 @ 3'	4/11/2024	5.20	179	0.157	<0.509	19.5	16.0	14.5	0.303	<0.0909	84.1
WH-BG01 @ 6'	4/11/2024	0.825	15.7	<0.0935	<0.243	<9.35	2.89	1.58	<0.243	<0.0935	<34.6
WH-BG02 @ 3'	4/11/2024	5.46	113	0.949	<0.387	29.7	38.7	9.62	0.455	0.338	118
WH-BG02 @ 6'	4/11/2024	4.89	48.0	0.109	<0.351	<8.83	17.1	5.67	0.277	<0.0883	<32.7
WH-BG03 @ 3'	4/11/2024	1.90	57.3	0.0998	<0.349	<9.98	7.07	4.09	<0.260	<0.0998	<36.9
WH-BG03 @ 6'	4/11/2024	0.969	20.8	<0.0881	<0.250	<8.81	3.53	1.85	<0.229	<0.0881	<32.6
WH-BG04 @ 3'	4/11/2024	4.01	168	0.130	<0.434	14.7	12.2	11.5	<0.242	0.173	67.4
WH-BG04 @ 6'	4/11/2024	1.63	44.8	<0.0845	<0.325	<8.45	8.05	3.83	<0.220	<0.0845	<31.2
WH-BG05 @ 3'	4/11/2024	4.77	215	0.118	<0.475	20.8	16.9	15.1	0.264	<0.0973	91.8
WH-BG05 @ 6'	4/11/2024	1.28	25.4	<0.0948	<0.381	<9.48	4.20	2.48	<0.246	<0.0948	<35.1
WH-BG06 @ 3'	4/11/2024	3.96	159	0.116	<0.446	14.4	12.9	10.9	<0.253	<0.0971	67.7
WH-BG06 @ 6'	4/11/2024	2.46	48.7	<0.0988	<0.315	<9.88	5.40	3.04	<0.257	<0.0988	<36.6

**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

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

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