

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
KERR-MCGEE 23-13 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
WELLHEAD EXCAVATION SAMPLES								
B01(23-13)@6'	9/20/2024	6	1.1	NS	NO	40.221737	-104.725164	Y
B01(23-13)@6'-V	9/20/2024	6	1.1	NS	NO	40.221737	-104.725164	Y
N Wall	9/20/2024	3	1.1	NS	NO	40.22175	-104.725158	N
E Wall	9/20/2024	3	0.7	NS	NO	40.22173	-104.725141	N
S Wall	9/20/2024	3	0.1	NS	NO	40.221718	-104.725155	N
W Wall	9/20/2024	3	0.6	NS	NO	40.221732	-104.725185	N
FS01	9/20/2024	0.5	0.9	NS	NO	40.221789	-104.725146	N
FS02	9/20/2024	0.5	0.9	NS	NO	40.221728	-104.725084	N
FS03	9/20/2024	0.5	1.1	NS	NO	40.221684	-104.725175	N
FS04	9/20/2024	0.5	0.3	NS	NO	40.221737	-104.725209	N
BACKGROUND SOIL SAMPLES								
NATIVE-BG01 @3'	9/20/2024	3	0.9	NS	NO	40.22182	-104.725017	Y
NATIVE-BG01 @6'	9/20/2024	6	1.2	NS	NO	40.22182	-104.725017	Y
NATIVE-BG02 @3'	9/20/2024	3	1.5	NS	NO	40.221663	-104.725071	Y
NATIVE-BG02 @6'	9/20/2024	6	0.3	NS	NO	40.221663	-104.725071	Y
NATIVE-BG03 @3'	9/20/2024	3	0.6	NS	NO	40.221679	-104.725307	Y
NATIVE-BG03 @6'	9/20/2024	6	0.9	NS	NO	40.221679	-104.725307	Y
NATIVE-BG04 @3'	9/20/2024	3	0.7	NS	NO	40.221828	-104.725294	Y
NATIVE-BG04 @6'	9/20/2024	6	1.1	NS	NO	40.221828	-104.725294	Y

Notes:

ft. - feet	NS - No Staining
bgs - below ground surface	NO - No Odor
PID - Photoionization detector	NA - Not Analyzed/Not Applicable
ppm - parts per million	

TABLE 2-1
 SOIL SAMPLE ANALYTICAL RESULTS
 VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
 KERR-MCGEE 23-13 WELLHEAD
 WELD COUNTY, COLORADO
 KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
B01(23-13)@6'	9/20/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B01(23-13)@6'-V	9/20/2024	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ECMC - Energy and Carbon Management Commission
 PGSSLs - Protection of Groundwater Soil Screening Level Concentrations
 TPH - total petroleum hydrocarbons
 GRO - gasoline range organics
 DRO - diesel range organics
 RRO - residual range organics
 *Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

ft - feet
 bgs - below ground surface
 mg/kg - milligrams per kilogram
 < - less than laboratory reporting limit
 NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background

TABLE 2-2
 SOIL SAMPLE ANALYTICAL RESULTS
 POLYCYCLIC AROMATIC HYDROCARBONS
 KERR-MCGEE 23-13 WELLHEAD
 WELD COUNTY, COLORADO
 KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	1-Methyl naphthalene (mg/kg)	2-Methyl naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WELLHEAD EXCAVATION SAMPLES																
B01(23-13)@6'	9/20/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B01(23-13)@6'-V	9/20/2024	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

**TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
KERR-MCGEE 23-13 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits			0.170	1.87	7.93	0.297
WELLHEAD EXCAVATION SAMPLES						
B01(23-13)@6'	9/20/2024	6	0.528	0.310	7.90	<0.100
B01(23-13)@6'-V	9/20/2024	6	NA	NA	7.97	NA
BACKGROUND SAMPLES						
NATIVE-BG01 @3'	9/20/2024	3	0.0842	0.270	7.55	<0.100
NATIVE-BG01 @6'	9/20/2024	6	0.0967	0.196	7.64	<0.100
NATIVE-BG02 @3'	9/20/2024	3	0.107	0.234	6.74	<0.100
NATIVE-BG02 @6'	9/20/2024	6	0.136	0.889	7.70	0.214
NATIVE-BG03 @3'	9/20/2024	3	0.0792	0.175	7.44	0.120
NATIVE-BG03 @6'	9/20/2024	6	0.170	1.87	7.93	0.297
NATIVE-BG04 @3'	9/20/2024	3	0.0672	0.298	7.39	<0.100
NATIVE-BG04 @6'	9/20/2024	6	0.0929	0.170	7.30	0.109

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

*Exceeds Table 915-1 allowable level but within background

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

**TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
KERR-MCGEE 23-13 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits			3.88	96.6	0.129	NA	8.93	8.86	13.5	NA	NA	42.6
WELLHEAD EXCAVATION SAMPLES												
B01(23-13)@6'	9/20/2024	6	1.62*	59.6	0.118	<0.402	<9.33	8.78	5.00	<0.243	<0.0933	<34.5
B01(23-13)@6'-V	9/20/2024	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
NATIVE-BG01@3'	9/20/2024	3	2.00	85.2	<0.0995	<0.348	<9.95	7.26	7.20	<0.259	<0.0995	<36.8
NATIVE-BG01@6'	9/20/2024	6	1.64	62.0	<0.0995	<0.346	<9.95	4.65	5.71	<0.259	<0.0995	<36.8
NATIVE-BG02@3'	9/20/2024	3	1.32	46.7	0.129	<0.349	<8.92	5.71	3.25	<0.232	<0.0892	<33.0
NATIVE-BG02@6'	9/20/2024	6	3.19	86.3	<0.0970	<0.295	<9.70	7.05	9.26	<0.252	<0.0970	<35.9
NATIVE-BG03@3'	9/20/2024	3	1.88	67.9	0.107	<0.343	<8.52	6.12	6.91	<0.222	<0.0852	<31.5
NATIVE-BG03@6'	9/20/2024	6	3.88	92.3	<0.0994	<0.329	<9.94	8.86	13.5	<0.259	<0.0994	42.6
NATIVE-BG04@3'	9/20/2024	3	1.99	65.9	<0.0963	<0.358	<9.63	5.95	6.41	<0.250	<0.0963	<35.6
NATIVE-BG04@6'	9/20/2024	6	3.49	96.6	<0.0893	<0.375	8.93	7.92	12.0	<0.232	<0.0893	35.2

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

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Bold - exceeds ECMC Table 915-1 allowable level and background

*Exceeds Table 915-1 allowable level but within background

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.