

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
BERIG UPRR 42-35 1 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL 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								
N Wall	5/19/2022	NA	2.8	Stain	NO	40.270273	-104.737568	N
E Wall	5/19/2022	NA	0.6	Stain	NO	40.270257	-104.737548	N
S Wall	5/19/2022	NA	0.0	NS	NO	40.270243	-104.737566	N
W Wall	5/19/2022	NA	0.0	NS	NO	40.270257	-104.737586	N
B01@6'-WP	5/19/2022	6	0.5	Stain	Slight Odor	40.270263	-104.737564	Y
N01@4'	7/11/2022	4	39.2	Stain	NO	40.270273	-104.737568	Y
E01@4'	7/11/2022	4	186.7	Stain	NO	40.270257	-104.737548	Y
S01@4'	7/11/2022	4	1355	NS	NO	40.270243	-104.737566	Y
W01@4'	7/11/2022	4	361.5	NS	NO	40.270257	-104.737586	Y
B02@7'	7/11/2022	7	3.2	Stain	Slight Odor	40.270256	-104.737573	Y
S02@4'	7/13/2022	4	8.1	NS	NO	40.270223	-104.737568	Y
W02@4'	7/25/2022	4	1.4	NS	NO	40.270263	-104.737598	Y
W03@4'	7/25/2022	4	0.0	NS	NO	40.27023	-104.737598	Y
E02@4'	7/25/2022	4	2.0	NS	NO	40.27023	-104.737542	Y
FLOWLINE POTHOLE SAMPLES								
PH01/FL01@5'	5/20/2022	5	1.0	Stain	Slight Odor	40.269805	-104.737778	Y
PH02/FL02@5'	5/20/2022	5	1.0	Stain	Slight Odor	40.270141	-104.737621	Y
FL01-N01@4'	7/11/2022	4	59.5	NS	NO	40.269941	-104.73772	Y
FL01-E01@4'	7/11/2022	4	80.2	NS	NO	40.269916	-104.73771	Y
FL01-S01@4'	7/11/2022	4	65.1	NS	NO	40.269902	-104.737741	Y
FL01-W01@4'	7/11/2022	4	71.4	NS	NO	40.269927	-104.737745	Y
FL01-B01@6'	7/11/2022	6	86.5	NS	NO	40.269923	-104.737727	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@3'	5/19/2022	3	0.0	NS	NO	40.270252	-104.737482	Y
Native-BG01@6'	5/19/2022	6	0.0	NS	NO	40.270252	-104.737482	Y
Native-BG02@3'	5/19/2022	3	0.0	NS	NO	40.270321	-104.73757	Y
Native-BG02@6'	5/19/2022	6	0.0	NS	NO	40.270321	-104.73757	Y
Native-BG03@3'	5/19/2022	3	0.0	NS	NO	40.270199	-104.737565	Y
Native-BG03@6'	5/19/2022	6	0.0	NS	NO	40.270199	-104.737565	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
BERIG UPRR 42-35 1 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL 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@6'-WP	5/19/2022	6	23.0	129	<100	0.0679	0.300	0.110	2.00	0.589	0.457	0.0642
N01@4'	7/11/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
E01@4'	7/11/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
S01@4'	7/11/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	2.62	0.180	0.0913
W01@4'	7/11/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	0.00216	0.000942
B02@7'	7/11/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	0.00346	0.00218	<0.00067
S02@4'	7/13/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
W02@4'	7/25/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
W03@4'	7/25/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
E02@4'	7/25/2022	4	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
FLOWLINE SAMPLES												
PH01/FL01@5'	5/20/2022	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00353
PH02/FL02@5'	5/20/2022	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
FL01-N01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-E01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-S01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-W01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-B01@6'	7/11/2022	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
BERIG UPRR 42-35 1 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL 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@6'-WP	5/19/2022	6	0.00765	0.00079	<0.00067	0.00107	<0.00067	0.000956	0.00107	<0.00067	0.000744	0.0141	0.000929	0.049	0.0869	<0.00067
N01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
E01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
S01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.304	0.405	NA
W01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0181	0.00603	NA
B02@7'	7/11/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000745	0.00111	NA
S02@4'	7/13/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
W02@4'	7/25/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
W03@4'	7/25/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
E02@4'	7/25/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
FLOWLINE SAMPLES																
PH01/FL01@5'	5/20/2022	5	0.0778	<0.00067	0.0829	0.0308	0.0142	0.0233	0.0606	0.00328	0.39	0.125	0.0104	0.00477	<0.00067	0.403
PH02/FL02@5'	5/20/2022	5	0.0205	0.00585	0.00711	0.00633	0.00343	0.00698	0.00817	0.00169	0.0111	0.00354	0.00381	<0.00067	<0.00067	0.014
FL01-N01@4'	7/11/2022	4	NA	NA	0.00111	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-E01@4'	7/11/2022	4	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-S01@4'	7/11/2022	4	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-W01@4'	7/11/2022	4	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-B01@6'	7/11/2022	6	NA	NA	<0.00067	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
BERIG UPRR 42-35 1 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL 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			0.760	5.47	9.20	0.160
WELLHEAD EXCAVATION SAMPLES						
B01@6'-WP	5/19/2022	6	2.19	6.80	12.10	0.360
N01@4'	7/11/2022	4	NA	3.63	8.36*	NA
E01@4'	7/11/2022	4	NA	5.25	8.47*	NA
S01@4'	7/11/2022	4	NA	9.53	8.18	NA
W01@4'	7/11/2022	4	NA	6.32	8.53*	NA
B02@7'	7/11/2022	7	NA	2.14	8.45*	NA
S02@4'	7/13/2022	4	NA	4.73	8.54*	NA
W02@4'	7/25/2022	4	NA	3.04	7.91	NA
W03@4'	7/25/2022	4	NA	2.18	8.04	NA
E02@4'	7/25/2022	4	NA	2.22	8.16	NA
FLOWLINE SAMPLES						
PH01/FL01@5'	5/20/2022	5	0.451	2.15	8.42*	0.182
PH02/FL02@5'	5/20/2022	5	0.355	2.05	8.43*	0.463
FL01-N01@4'	7/11/2022	4	NA	NA	NA	NA
FL01-E01@4'	7/11/2022	4	NA	NA	NA	NA
FL01-S01@4'	7/11/2022	4	NA	NA	NA	NA
FL01-W01@4'	7/11/2022	4	NA	NA	NA	NA
FL01-B01@6'	7/11/2022	6	NA	NA	NA	NA
BACKGROUND SAMPLES						
Native-BG01@3'	5/10/2022	3	0.759	5.47	8.52	0.159
Native-BG01@6'	5/10/2022	6	0.624	2.70	8.48	0.160
Native-BG02@3'	5/10/2022	3	0.440	2.52	8.27	0.120
Native-BG02@6'	5/10/2022	6	0.760	3.02	8.51	<1.00
Native-BG03@3'	5/10/2022	3	0.428	2.05	8.52	0.141
Native-BG03@6'	5/10/2022	6	0.469	1.99	8.50	0.137

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 analytical variability of background

[^] - site-specific background is shown as 1.08x maximum background to account for analytical variability

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
BERIG UPRR 42-35 1 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth	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			2.19	84.2	0.0677	NA	5.94	6.57	7.11	0.390	0.0362	28.7
WELLHEAD EXCAVATION SAMPLES												
B01@6'-WP	5/19/2022	6	1.44*	54	0.12	<0.5	6.79	10.7	5.16	0.338	0.0334	26.7
N01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B02@7'	7/11/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S02@4'	7/13/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W02@4'	7/25/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W03@4'	7/25/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E02@4'	7/25/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE SAMPLES												
PH01/FL01@5'	5/20/2022	5	1.48*	67.8	0.119	<0.5	7.4	7.6	6.75	0.363*	0.0339	32.3
PH02/FL02@5'	5/20/2022	5	1.64*	49.9	0.179	<0.5	6.89	10.5	4.98	0.304*	0.0696	31.3
FL01-N01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-E01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-S01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-W01@4'	7/11/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL01-B01@6'	7/11/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01@3'	5/10/2022	3	2.19	64.1	0.0487	<0.503	5.02	5.85	6.69	0.39	0.0362	25.5
Native-BG01@6'	5/10/2022	6	1.99	84.2	0.0677	<0.511	5.94	6.57	7.11	0.366	0.0226	28.7
Native-BG02@3'	5/10/2022	3	0.771	28	0.0606	<0.514	4.66	4.13	2.92	0.336	0.0166	14.5
Native-BG02@6'	5/10/2022	6	1.21	56.7	0.0671	<0.515	4.76	5	5.39	0.364	0.0228	23.6
Native-BG03@3'	5/10/2022	3	1.82	53.5	0.0558	<0.507	5.5	5.74	5.68	0.265	0.0163	26.4
Native-BG03@6'	5/10/2022	6	1.24	40.6	0.036	<0.504	3.66	4.14	4.43	0.218	0.0099	17.5

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

*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.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
BERIG UPRR 42-35 1 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	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)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
ECMC Allowable Levels		5	560	700	1400	140	67	67	920,000	250,000	175,000	
GW01	5/18/2022	47.9	153	19.0	347	5.89	89.6	58.8	783,000	188,000	177,000	5.0
GW02	5/25/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	919,000	195,000	308,000	3.0
BGGW01	5/19/2022	NA	NA	NA	NA	NA	NA	NA	716,000	125,000	140,000	5.0
BGGW02	5/19/2022	NA	NA	NA	NA	NA	NA	NA	812,000	145,000	166,000	5.0
BGGW03	5/19/2022	NA	NA	NA	NA	NA	NA	NA	736,000	129,000	138,000	5.0

Notes: ECMC - Energy and Carbon Management Commission

µg/L - micrograms per liter

ft bgs - feet below ground surface

< - less than laboratory reporting limit

NA - not analyzed/not available

Excavation groundwater depth is approximate

Total dissolved solids parameter based on background sample (BGGW03) concentration x 1.25; Sulfate Ion parameter based on background sample (BGGW01) x 1.25.

BOLD = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.