

TABLE 1
SAWDEY 5-30 WELLHEAD
SOIL SAMPLE FIELD DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Submitted for Lab Analysis? (Y/N)
WH-B01@6'	12/06/21	6	0.7	No Staining	No Odor	40.11250327	-105.0502833	1.3	Yes
WH-N01@5'	12/06/21	5	0.0	No Staining	No Odor	40.11250800	-105.0502639	1.3	No
WH-S01@5'	12/06/21	5	0.0	No Staining	No Odor	40.11250605	-105.0502837	1.4	No
WH-E01@5'	12/06/21	5	0.0	No Staining	No Odor	40.11249772	-105.0502615	1.4	No
WH-W01@5'	12/06/21	5	0.0	No Staining	No Odor	40.11252451	-105.0502896	1.4	No
WHS-N01@3"	12/06/21	0.25	0.0	No Staining	No Odor	40.11252087	-105.0502420	1.3	No
WHS-S01@3"	12/06/21	0.25	0.0	No Staining	No Odor	40.11249452	-105.0503066	1.3	No
WHS-E01@3"	12/06/21	0.25	0.0	No Staining	No Odor	40.11247837	-105.0502634	1.3	No
WHS-W01@3"	12/06/21	0.25	0.0	No Staining	No Odor	40.11252764	-105.0502977	1.3	No
FL-B01@3'	12/06/21	3	0.0	No Staining	No Odor	40.11251879	-105.0503047	1.3	Yes
FL-B02@3'	12/06/21	3	0.9	No Staining	No Odor	40.11405548	-105.0546675	1.1	Yes
WH-B02@7'	02/09/22	7	2.4	No Staining	No Odor	40.11251756	-105.0502857	1.2	Yes
WH-N02@6'	02/09/22	6	1.3	No Staining	No Odor	40.11252615	-105.0502983	1.2	Yes
WH-S02@6'	02/09/22	6	1.1	No Staining	No Odor	40.11250127	-105.0502752	1.1	Yes
WH-E02@6'	02/09/22	6	1.0	No Staining	No Odor	40.11252205	-105.0502720	1.1	Yes
WH-W02@6'	02/09/22	6	1.1	No Staining	No Odor	40.11250748	-105.0502898	1.1	Yes
FL-B03@4'	02/09/22	4	0.7	No Staining	No Odor	40.11405585	-105.0546565	1.0	Yes
FL-N01@3'	02/09/22	3	0.5	No Staining	No Odor	40.11406849	-105.0546621	1.1	Yes
FL-S01@3'	02/09/22	3	0.7	No Staining	No Odor	40.11404563	-105.0546813	1.1	Yes
FL-E01@3'	02/09/22	3	0.3	No Staining	No Odor	40.11405666	-105.0546777	1.1	Yes
FL-W01@3'	02/09/22	3	0.8	No Staining	No Odor	40.11405677	-105.0546858	1.1	Yes
FL-B04@5'	02/23/22	5	0.0	No Staining	No Odor	40.11405948	-105.0546782	1.1	Yes
FL-N02@4'	02/23/22	4	0.0	No Staining	No Odor	40.11407211	-105.0546712	1.1	Yes

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Submitted for Lab Analysis? (Y/N)
BACKGROUND SOIL SAMPLING									
WH-BG01@3'	12/06/21	3	0.0	No Staining	No Odor	40.11249892	-105.0500784	1.4	Yes
WH-BG01@6'	12/06/21	6	0.0	No Staining	No Odor	40.11249892	-105.0500784	1.4	Yes
WH-BG02@3'	12/06/21	3	0.0	No Staining	No Odor	40.11245964	-105.0504080	1.4	Yes
WH-BG02@6'	12/06/21	6	0.0	No Staining	No Odor	40.11245964	-105.0504080	1.4	Yes
WH-BG03@3'	12/06/21	3	0.0	No Staining	No Odor	40.11229250	-105.0501974	1.3	Yes
WH-BG03@6'	12/06/21	6	0.0	No Staining	No Odor	40.11229250	-105.0501974	1.3	Yes
WH-BG04@3'	12/06/21	3	0.0	No Staining	No Odor	40.11266200	-105.0502862	1.3	Yes
WH-BG04@6'	12/06/21	6	0.0	No Staining	No Odor	40.11266200	-105.0502862	1.3	Yes

Notes:

ft. bgs = Feet below ground surface
PID = Photoionization detector
ppm = Parts per million
GPS = Global positioning system
PDOP = Position dilution of precision

TABLE 2
SAWDEY 5-30 WELLHEAD
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	2	500			30	27
WH-B01@6'	12/06/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	0.00294	<0.00200
FL-B01@3'	12/06/21	<0.00200	<0.00200	<0.00200	<0.00200	0.0147	<0.200	25.8	<100	0.00216	<0.00200
FL-B02@3'	12/06/21	<0.00200	<0.00200	<0.00200	<0.00200	0.0478	0.506	25.6	<100	<0.00200	<0.00200
WH-B02@7'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
WH-N02@6'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
WH-S02@6'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
WH-E02@6'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
WH-W02@6'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
FL-B03@4'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	0.00483	<0.200	<25.0	<100	NA	NA
FL-N01@3'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	0.00393	<0.200	<25.0	<100	NA	NA
FL-S01@3'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	NA	NA
FL-E01@3'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	NA	NA
FL-W01@3'	02/09/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	NA	NA
FL-B04@5'	02/23/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335	0.664	<25.0	<100	<0.00200	<0.00200
FL-N02@4'	02/23/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200

Notes:
(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021
(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021
COGCC = Colorado Oil and Gas Conservation Commission
(<) = Analytical result is less than the indicated laboratory reporting limit
mg/kg = Milligrams per kilogram
TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics
TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics
TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics
1,2,4 - TMB = 1,2,4 - Trimethylbenzene
1,3,5 - TMB = 1,3,5 - Trimethylbenzene
BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards
NA = Constituent not analyzed

TABLE 3
SAWDEY 5-30 WELLHEAD
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	0.0038	1.3
COGCC standards for soil (mg/kg) ⁽²⁾		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	2	180
FL-B01@3'	12/08/21	0.00113	<0.00067	<0.00067	0.00127	<0.00067	0.000885	0.00385	0.00055J	0.000714	0.0016	0.0008	0.0317	0.0591	0.0319	0.00159
FL-B02@3'	12/08/21	<0.00067	<0.00067	<0.00067	0.000505J	<0.00067	0.000548J	0.000397J	<0.00067	0.000594J	<0.00067	0.00046J	0.00363	0.00736	0.00475	0.000607J
WH-B02@7'	02/09/22	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000376J	<0.00067	<0.00067	<0.00067
WH-N02@6'	02/09/22	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
WH-S02@6'	02/09/22	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
WH-E02@6'	02/09/22	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
WH-W02@6'	02/09/22	<0.00067	<0.00067	<0.00067	0.00066J	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FL-B03@4'	02/09/22	<0.00067	<0.00067	<0.00067	0.000998	0.000452J	0.000915	<0.00067	<0.00067	0.00112	<0.00067	<0.00067	0.00854	0.0163	0.00483	0.00121
FL-N01@3'	02/09/22	<0.00067	0.000335J	<0.00067	0.000831	<0.00067	0.000599J	<0.00067	<0.00067	0.00124	0.00121	<0.00067	0.000586J	0.00167	0.00393	0.0022
FL-S01@3'	02/09/22	<0.00067	<0.00067	<0.00067	0.00095	<0.00067	0.000766	<0.00067	<0.00067	0.000571	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FL-E01@3'	02/09/22	<0.00067	<0.00067	<0.00067	0.00108	0.000445J	0.000859	<0.00067	<0.00067	0.000752	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000813
FL-W01@3'	02/09/22	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FL-B04@5'	02/23/22	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
FL-N02@4'	02/23/22	0.000348J	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00108	<0.00067

Notes:

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

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

mg/kg = Milligrams per kilogram

Benzo(a)A = Benzo(a)anthracene

Benzo(b)F = Benzo(b)fluoranthene

Benzo(k)F = Benzo(k)fluoranthene

Benzo(a)P = Benzo(a)pyrene

D (a,h) A = Dibenz(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

J = Estimated value; analytical result is below laboratory quantitation limit

TABLE 4
SAWDEY 5-30 WELLHEAD
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Soil 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)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC standards for soil (mg/kg) ⁽²⁾		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
FL-B01@3'	12/08/21	2.04*	1,680	0.114J	<0.252	9.46	10.1	7.4	0.116J	0.0233J	52.2
FL-B02@3'	12/08/21	1.13*	64.5	0.246J	<0.244	9.35	5.83	8.05	<0.103	0.021J	31.4
WH-B02@7'	02/09/22	NA	145*	NA	NA	NA	NA	NA	NA	NA	NA
WH-N02@6'	02/09/22	NA	60.2	NA	NA	NA	NA	NA	NA	NA	NA
WH-S02@6'	02/09/22	NA	109*	NA	NA	NA	NA	NA	NA	NA	NA
WH-E02@6'	02/09/22	NA	35	NA	NA	NA	NA	NA	NA	NA	NA
WH-W02@6'	02/09/22	NA	48.2	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SOIL SAMPLING											
WH-BG01@3'	12/06/21	2.44	122	0.0943J	<0.244	6.39	7.15	7.51	0.45	0.0433J	28.2
WH-BG01@6'	12/06/21	1.83	104	0.0379J	<0.252	3.36	5.24	5.52	0.253	0.0149J	20.6
WH-BG02@3'	12/06/21	3.1	206	0.0968J	<0.251	3.19	3.88	4.22	0.189J	0.0125J	13.8
WH-BG02@6'	12/06/21	2.34	1,220	0.093J	<0.248	4.84	7.62	6.31	0.308	0.0258J	33.3
WH-BG03@3'	12/06/21	1.85	475	0.0579J	<0.251	4.51	6.01	4.74	0.207J	0.0165J	22.3
WH-BG03@6'	12/06/21	2.02	463	0.0404J	<0.244	3.48	5.78	4.75	0.217J	0.0147J	23.3
WH-BG04@3'	12/06/21	2.69	527	0.122J	<0.245	8.22	7.87	7.35	0.439	0.0295J	32
WH-BG04@6'	12/06/21	2.61	456	0.144J	<0.248	8.23	24.2	7.66	0.402	0.0392J	58.3

Notes:
(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021
(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021
COGCC = Colorado Oil and Gas Conservation Commission
(<) = Analytical result is less than the indicated laboratory minimum detection limit
mg/kg = Milligrams per kilogram
BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards
* Result exceeded the COGCC Table 915-1 standard, but was within range of site-specific background concentrations
Italics = Laboratory minimum detection limit exceeds the COGCC Table 915-1 standard
J = Estimated value; analytical result is below laboratory quantitation limit
NA = Constituent not analyzed

TABLE 5
SAWDEY 5-30 WELLHEAD
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
COGCC standards for soil (mg/kg) ⁽¹⁾			6 - 8.3	< 6	< 4	2
WH-B01@6'	12/06/21	6	9.11	5.27	0.836	0.263
FL-B01@3'	12/06/21	3	8.42*	0.777	0.545	0.239
FL-B02@3'	12/06/21	3	8.60	0.211	0.394	<0.198
WH-B02@7'	02/09/22	7	8.30	NA	NA	NA
WH-N02@6'	02/09/22	6	8.50*	NA	NA	NA
WH-S02@6'	02/09/22	6	8.27	NA	NA	NA
WH-E02@6'	02/09/22	6	8.41*	NA	NA	NA
WH-W02@6'	02/09/22	6	8.33*	NA	NA	NA
FL-B03@4'	02/09/22	4	7.89	NA	NA	NA
FL-N01@3'	02/09/22	3	7.86	NA	NA	NA
FL-S01@3'	02/09/22	3	7.92	NA	NA	NA
FL-E01@3'	02/09/22	3	7.88	NA	NA	NA
FL-W01@3'	02/09/22	3	7.67	NA	NA	NA
BACKGROUND SOIL SAMPLING						
WH-BG01@3'	12/06/21	3	8.26	0.677	0.312	0.645
WH-BG01@6'	12/06/21	6	8.56	2.20	0.419	0.445
WH-BG02@3'	12/06/21	3	8.40	5.40	1.98	0.780
WH-BG02@6'	12/06/21	6	7.86	6.86	7.12	0.479
WH-BG03@3'	12/06/21	3	8.25	0.972	0.396	0.342
WH-BG03@6'	12/06/21	6	8.32	2.24	0.444	0.417
WH-BG04@3'	12/06/21	3	7.81	7.30	8.36	1.30
WH-BG04@6'	12/06/21	6	7.79	7.02	6.60	0.762

Notes:

(1) Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

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

ft. bgs = Feet below ground surface

mmhos/cm = Millmhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

* Result exceeded the COGCC Table 915-1 standard, but was within range of site-specific background levels

NA = Constituent not analyzed