

TABLE 1
MULGA 29C SMALL EYED 14C HZ O SA PRODUCTION FACILITY
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	Submitted for Lab Analysis? (Y/N)
WP01@3"	10/08/24	0.25	1,494	HC Staining	HC Odor	40.119299	-104.863132	Y
BACKGROUND SOIL SAMPLING								
BG01@3"	10/08/24	0.25	0.1	No Staining	No Odor	40.119616	-104.863799	Y
BG02@3"	10/08/24	0.25	0.6	No Staining	No Odor	40.119165	-104.864141	Y
BG03@3"	10/08/24	0.25	0.0	No Staining	No Odor	40.119437	-104.862886	Y
BG04@3"	10/08/24	0.25	0.4	No Staining	No Odor	40.119058	-104.862869	Y

Notes:

ft. bgs = Feet below ground surface

PID = Photoionization detector

ppm = Parts per million

HC = Hydrocarbon

TABLE 2
MULGA 29C SMALL EYED 14C HZ O SA PRODUCTION FACILITY
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)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	2	500			30	27
WP01@3"	10/08/24	5.09	29.7	5.36	86.0	4.44	7,620	18,200	4,510	49.1	28.0

Notes:
(1) Standards for soil are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021
(2) Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021
ECMC = Colorado Energy and Carbon Management 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 ECMC Table 915-1 soil standards

TABLE 3
MULGA 29C SMALL EYED 14C HZ O SA PRODUCTION FACILITY
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)
ECMC standards for soil (mg/kg) ⁽¹⁾		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	0.0038	1.3
ECMC 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
WP01@3"	10/08/24	<0.200	<0.200	0.070	<0.200	<0.200	<0.200	0.457	<0.200	<0.200	3.13	<0.200	15.6	31.4	4.44	0.212

Notes:

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

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

ECMC = Colorado Energy and Carbon Management 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 = Dibenzo(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 ECMC Table 915-1 soil standards

TABLE 4
MULGA 29C SMALL EYED 14C HZ O SA PRODUCTION FACILITY
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	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 standards for soil (mg/kg) ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC standards for soil (mg/kg) ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Site-Specific Background Limits			6.98	627.5	0.188	Pending	12.63	10.3	11.78	0.336	ND	48.4
WP01@3"	10/08/24	0.25	10.6	172*	0.280	Pending	9.96	12.8	10.3	<0.245	<0.0942	<34.8
BACKGROUND SOIL SAMPLING												
BG01@3"	10/08/24	0.25	4.11	209	0.149	Pending	10.1	8.24	9.42	<0.225	<0.0866	38.7
BG02@3"	10/08/24	0.25	3.42	502	0.0993	Pending	<9.28	6.46	9.13	<0.251	<0.0928	<34.3
BG03@3"	10/08/24	0.25	5.58	130	0.150	Pending	8.94	8.19	9.12	0.269	<0.0843	<31.2
BG04@3"	10/08/24	0.25	2.54	88.7	<0.0966	Pending	<9.66	5.01	6.48	<0.251	<0.0966	<35.7

Notes:

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

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

ECMC = Colorado Energy and Carbon Management Commission

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

mg/kg = Milligrams per kilogram

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

* Result exceeded the ECMC Table 915-1 standard, but was within the range of site-specific background concentrations x 1.25

Italics = Laboratory minimum detection limit exceeds the COGCC Table 915-1 standard

Pending = Analytical results pending final laboratory reporting